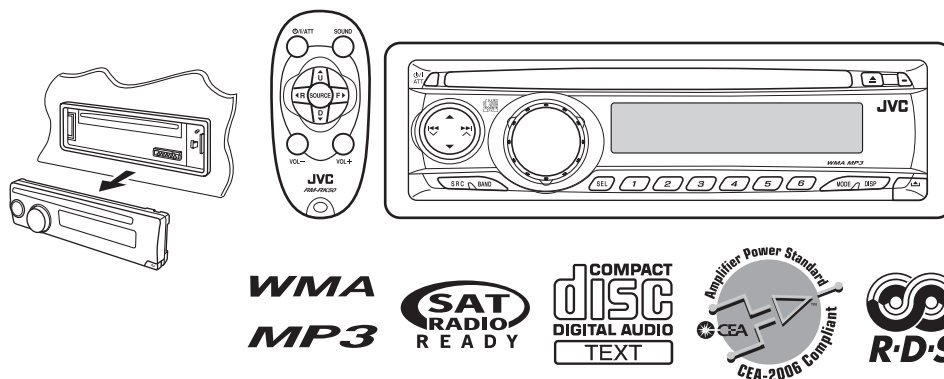


JVC

SERVICE MANUAL

CD RECEIVER

**KD-AR370J, KD-G320J, KD-G421E, KD-G421EX,
KD-G421EY, KD-G421EU, KD-G424UI, KD-G425U,
KD-G425UN, KD-G425UT, KD-G425UH, KD-G427EE**



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

TABLE OF CONTENTS

1	PRECAUTIONS	1-7
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SPECIFICATION

KD-AR370/KD-G320

AUDIO AMPLIFIER SECTION		
Power Output		18 W RMS × 4 Channels at 4 Ω and [$<$ or $=$] 1% THD+N
Signal to Noise Ratio		80 dBA (reference: 1 W into 4 Ω)
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Line-Out Level/Impedance		2.5 V /20 kΩ load (full scale)
Output Impedance		1 kΩ
Subwoofer-Out Level/Impedance		2.0 V /20 kΩ load (full scale)
Other Terminal		CD changer
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 107.9 MHz (with channel interval set to 100 kHz or 200 kHz) 87.5 MHz to 108.0 MHz (with channel interval set to 50 kHz)
	AM	530 kHz to 1 710 kHz (with channel interval set to 10 kHz) 531 kHz to 1 602 kHz (with channel interval set to 9 kHz)
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format		MPEG1/2 Audio Layer 3 Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 192 kbps
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm (7-3/16" × 2-1/16" × 5-15/16")
	Panel Size (approx.)	188 mm × 58 mm × 11 mm (7-7/16" × 2-5/16" × 7/16")
Mass (approx.)		1.4 kg (3.1 lbs) (excluding accessories)

KD-G421

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	± 10 dB at 100 Hz
	Treble	± 10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 k Ω load (full scale)
Output Impedance		1 k Ω
Other Terminals		CD changer, Steering wheel remote input
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
MW Tuner	Sensitivity	20 μ V
	Selectivity	35 dB
LW Tuner	Sensitivity	50 μ V
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format		MPEG1/2 Audio Layer 3 Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 192 kbps
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W \times H \times D)	Installation Size (approx.)	182 mm \times 52 mm \times 150 mm
	Panel Size (approx.)	188 mm \times 58 mm \times 11 mm
Mass (approx.)		1.4 kg (excluding accessories)

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Other Terminal		CD changer
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format		MPEG1/2 Audio Layer 3 Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 192 kbps
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
	Panel Size (approx.)	188 mm × 58 mm × 11 mm
Mass (approx.)		1.4 kg (excluding accessories)


AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance	4 Ω (4 Ω to 8 Ω allowance)	
Tone Control Range	Bass	± 10 dB at 100 Hz
	Treble	± 10 dB at 10 kHz
Frequency Response	40 Hz to 20 000 Hz	
Signal-to-Noise Ratio	70 dB	
Line-Out Level/Impedance	2.5 V/20 k Ω load (full scale)	
Subwoofer-Out Level/Impedance	2.0 V/20 k Ω load (full scale)	
Output Impedance	1 k Ω	
Other Terminal	CD changer	
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μ V/75 Ω)
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	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μ V
	Selectivity	35 dB
CD PLAYER SECTION		
Type	Compact disc player	
Signal Detection System	Non-contact optical pickup (semiconductor laser)	
Number of Channels	2 channels (stereo)	
Frequency Response	5 Hz to 20 000 Hz	
Dynamic Range	96 dB	
Signal-to-Noise Ratio	98 dB	
Wow and Flutter	Less than measurable limit	
MP3 Decoding Format	MPEG1/2 Audio Layer 3 Max. Bit Rate: 320 kbps	
WMA (Windows Media® Audio) Decoding Format	Max. Bit Rate: 192 kbps	
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System	Negative ground	
Allowable Operating Temperature	0°C to +40°C	
Dimensions (W \times H \times D)	Installation Size (approx.)	182 mm \times 52 mm \times 150 mm
	Panel Size (approx.)	188 mm \times 58 mm \times 11 mm
Mass (approx.)	1.4 kg (excluding accessories)	


AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	± 10 dB at 100 Hz
	Treble	± 10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 k Ω load (full scale)
Output Impedance		1 k Ω
Other Terminal		CD changer
TUNER SECTION		
Frequency Range	FM1/FM2	87.5 MHz to 108.0 MHz
	FM3	65.00 MHz to 74.00 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
MW Tuner	Sensitivity	20 μ V
	Selectivity	35 dB
LW Tuner	Sensitivity	50 μ V
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format		MPEG1/2 Audio Layer 3 Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 192 kbps
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W \times H \times D)	Installation Size (approx.)	182 mm \times 52 mm \times 150 mm
	Panel Size (approx.)	188 mm \times 58 mm \times 11 mm
Mass (approx.)		1.4 kg (excluding accessories)

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- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- Design and specifications are subject to change without notice.

SECTION 1 PRECAUTIONS

1.1 Safety Precautions

 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

 **CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

1.2 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.2.1 Grounding to prevent damage by static electricity

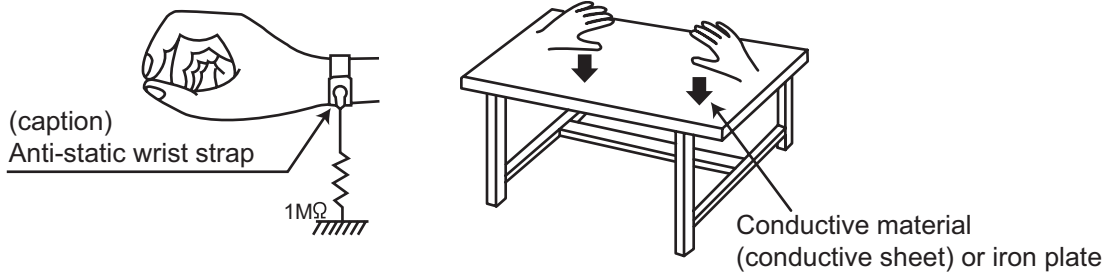
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

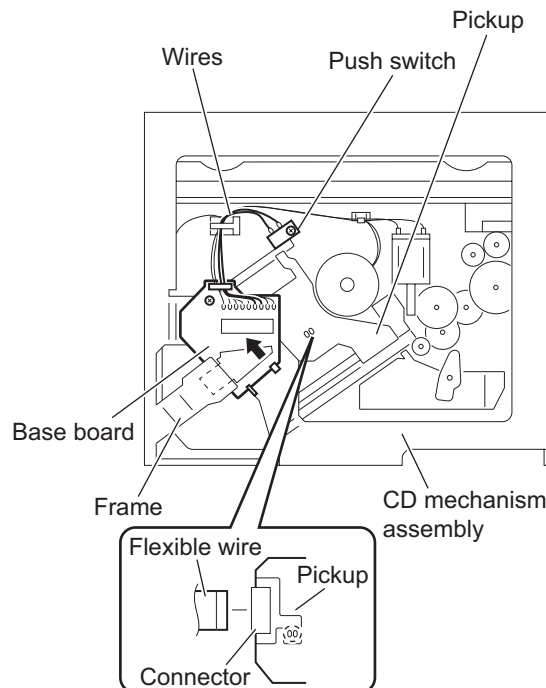
1.3 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.4 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land before the flexible wire is disconnected from the connector on the CD pickup unit. (If the flexible wire is disconnected without applying solder, the CD pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land after connecting the flexible wire.



1.5 Important for laser products

1.CLASS 1 LASER PRODUCT


2.DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

	<p>CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.</p>
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CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated.
AVOID DIRECT EXPOSURE TO BEAM.

ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.

VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL



<p>CAUTION Visible and invisible laser radiation when open and interlock failed or defeated AVOID DIRECT EXPOSURE TO BEAM (e)</p>	<p>ADVARSEL Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler Undgå direkte eksponering til stråling (d)</p>	<p>VARNING Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad Betrakta ej strålen (s)</p>	<p>VARO Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle Vältä säteen kohdistumista suoraan itseesi (f)</p>
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SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

2.1 DIFFERENT POINT

	KD-AR370	KD-G320	KD-G421	KD-G424	KD-G425	KD-G427
	YES	YES	NO	NO	NO	NO
	YES	YES	NO	NO	NO	NO
	NO	NO	YES	NO	NO	YES
REMOTE CONTROLLER	YES	YES	NO	YES	YES	YES

2.2 CD MECHANISM

For the CD mechanism, please refer the mechanism manual TN2007-1001 (No.MY003).

SECTION 3 DISASSEMBLY

3.1 Main body section

3.1.1 Removing the front panel assembly (See Fig.1)

- (1) Push the detach button in the lower right part of the front panel assembly and remove the front panel assembly.

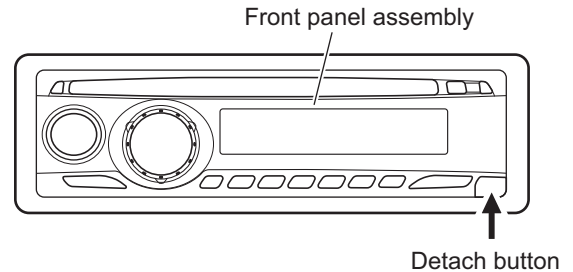


Fig.1

3.1.2 Removing the bottom cover (See Fig.2)

- (1) Turn the main body up side down.
- (2) Insert a screwdriver under the joints to release the two joints **a** on the left side, two joints **b** on the right side and joint **c** on the back side of the main body, then remove the bottom cover from the main body.

Note:

When releasing the joints using a screwdriver, do not damage the main board.

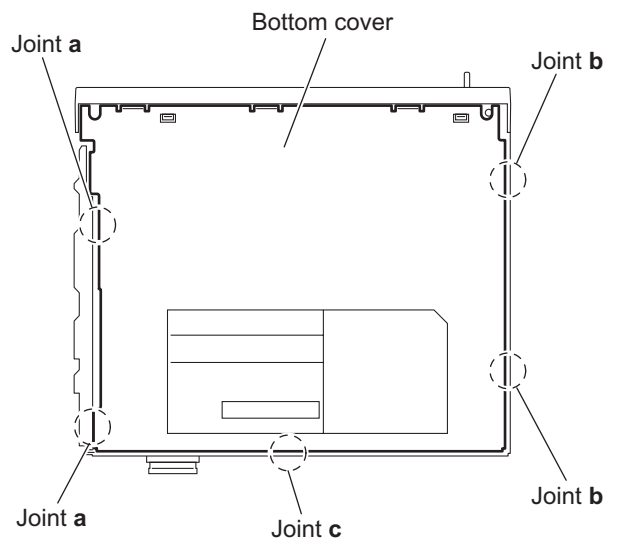


Fig.2

3.1.3 Removing the front chassis assembly (See Fig.3)

- Remove the front panel assembly and bottom cover.
- (1) Remove the two screws **A** on the both sides of the main body.
 - (2) Release the joint **d** and joint **e** on the both sides of the main body, then remove the front chassis assembly toward the front.

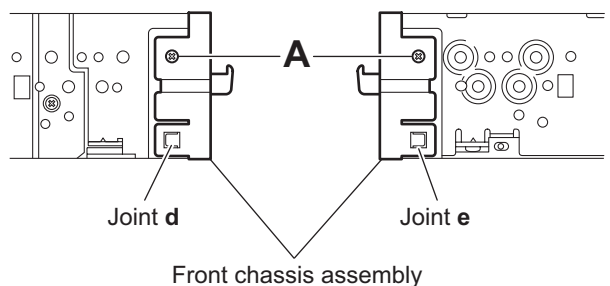


Fig.3

3.1.4 Removing the side panel (See Fig.4)

Reference:

Remove the front panel assembly as required.

- (1) Remove the screw **B** and two screws **C** attaching the side panel on the left side of the main body.
- (2) Remove the side panel from the main body.

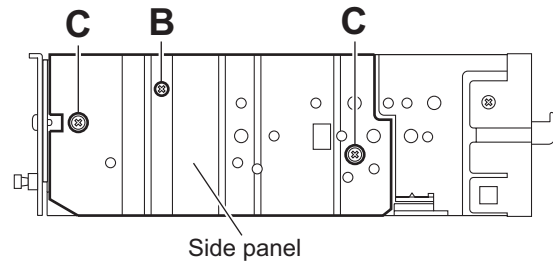


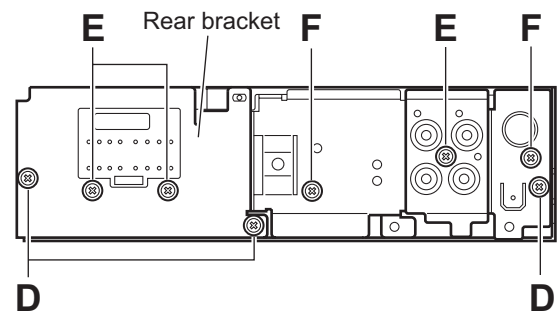
Fig.4

3.1.5 Removing the rear bracket (See Fig.5)

- Remove the bottom cover.

- (1) Remove the three screws **D**, three screws **E** and two screws **F** attaching the rear bracket on the back side of the main body. [For KD-AR370, KD-G320, KD-G424, KD-G425, KD-G427]
- (2) Remove the four screws **D**, three screws **E** and two screws **F** attaching the rear bracket on the back side of the main body. [For KD-G421]
- (3) Remove the rear bracket.

[For KD-AR370, KD-G320, KD-G424, KD-G425, KD-G427]



[For KD-G421]

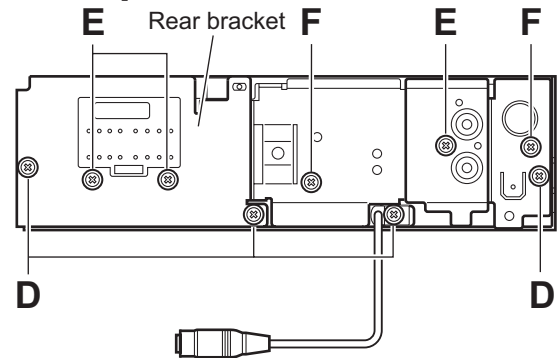


Fig.5

3.1.6 Removing the main board (See Figs.5 and 6)

- Remove the front panel assembly, bottom cover and side panel.

Reference:

Remove the front chassis assembly as required.

- (1) Remove the three screws **D** attaching the rear bracket on the back side of the main body. [For KD-AR370, KD-G320, KD-G424, KD-G425, KD-G427] (See Fig.5.)
- (2) Remove the four screws **D** attaching the rear bracket on the back side of the main body. [For KD-G421] (See Fig.5.)
- (3) Remove the two screws **G** attaching the main board. (See Fig.6.)
- (4) Disconnect the connector [CN501](#) on the main board from the main body and take out the main board with the rear bracket. (See Fig.6.)

Reference:

Remove the rear bracket from the main body as required. (See "3.1.5 Removing the rear bracket".)

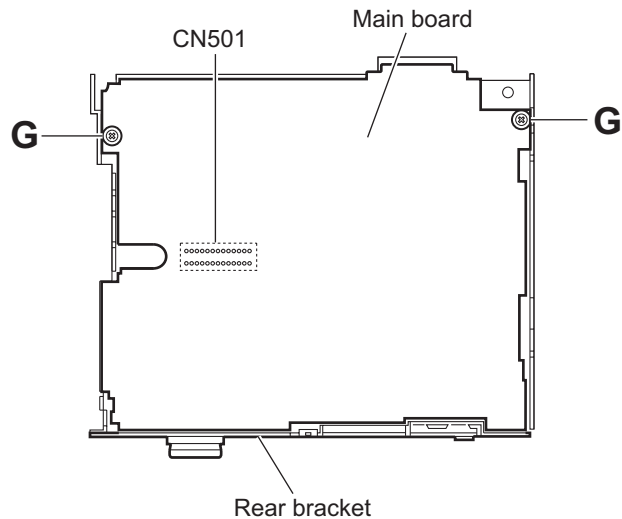


Fig.6

3.1.7 Removing the CD mechanism assembly (See Fig. 7)

- Remove the front panel assembly, bottom cover, side panel, rear bracket and main board.

Reference:

Remove the front chassis assembly as required.

- Remove the three screws **H** attaching the CD mechanism assembly on the top chassis.
- Take out the CD mechanism assembly.

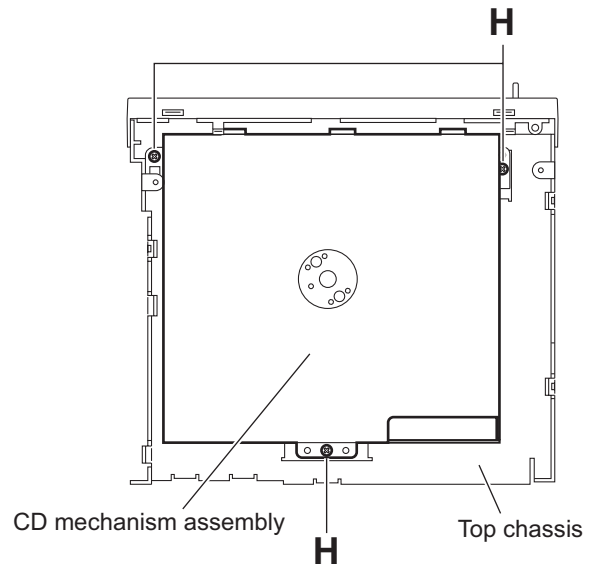


Fig.7

3.1.8 Removing the switch board (See Figs.8 to 10)

- Remove the front panel assembly.
 - Remove the four screws **J** on the back side of the front panel assembly. (See Fig.8.)
 - Release the joints **f** and remove the rear cover. (See Fig.9.)
 - Release the joint **g** and take out the switch board from the front panel assembly. (See Fig.10.)

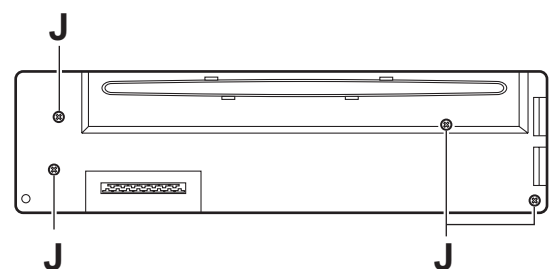


Fig.8

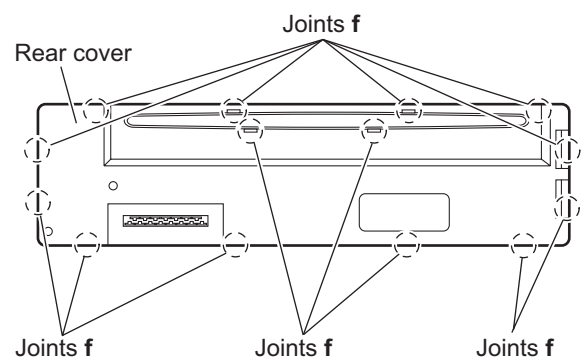


Fig.9

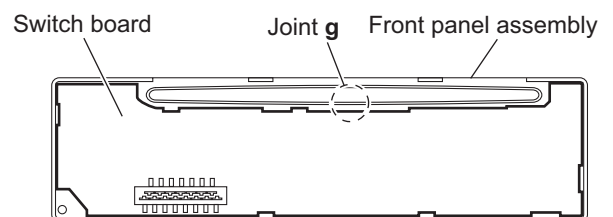


Fig.10

SECTION 4 ADJUSTMENT

4.1 Adjustment method

■ Test instruments required for adjustment

- (1) Digital oscilloscope (100MHz)
- (2) Electric voltmeter
- (3) Digital tester
- (4) Tracking offset meter
- (5) Test Disc JVC :CTS-1000
- (6) Extension cable for check
EXTSH002-22P × 1

■ Standard volume position

Balance and Bass & Treble volume : Indication "0"
Loudness : OFF

■ How to connect the extension cable for adjusting

Caution:

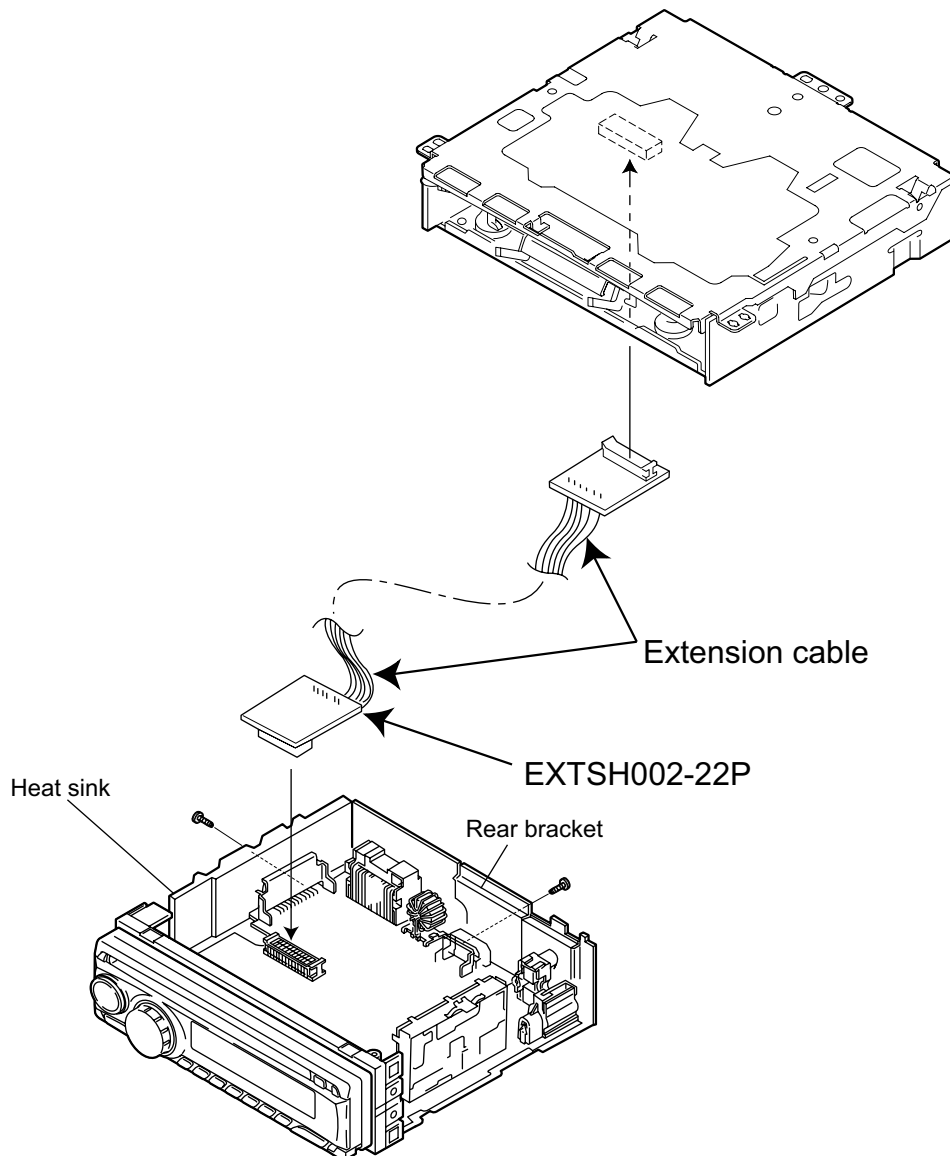
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

■ Standard measuring conditions

Power supply voltage	DC14.4V(10.5 to 16V)
Load impedance	20K Ω (2 Speakers connection)
Output Level	Line out 2.0V (Vol. MAX)

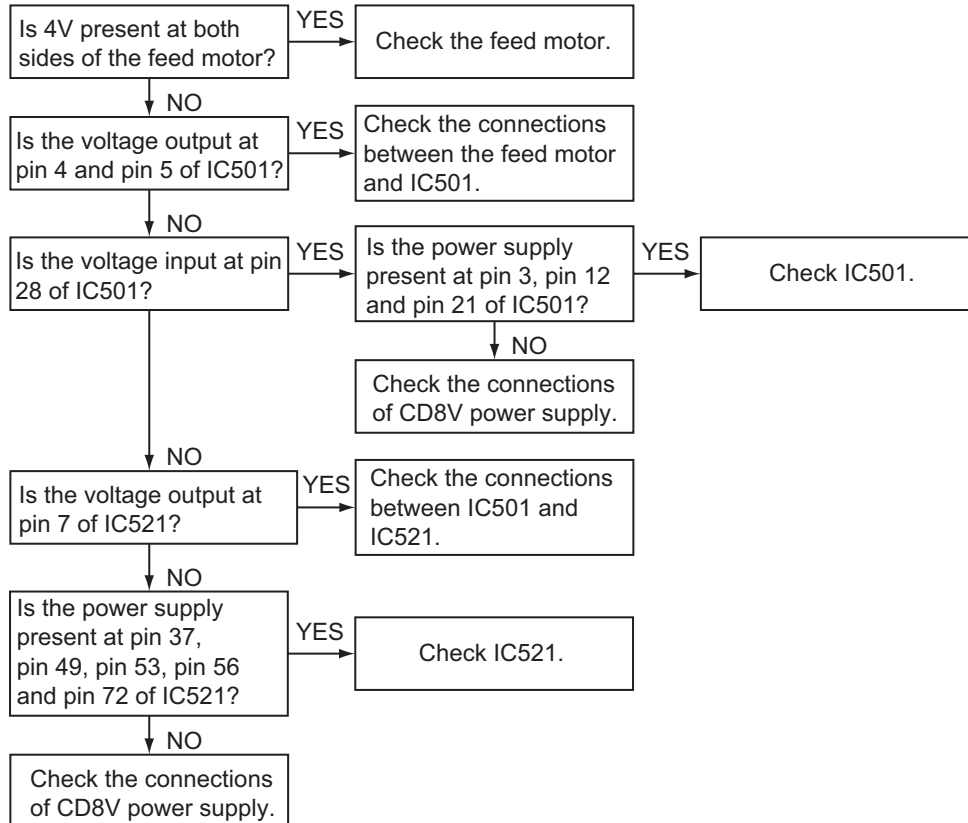
■ Dummy load

Exclusive dummy load should be used for AM, and FM. For FM dummy load, there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

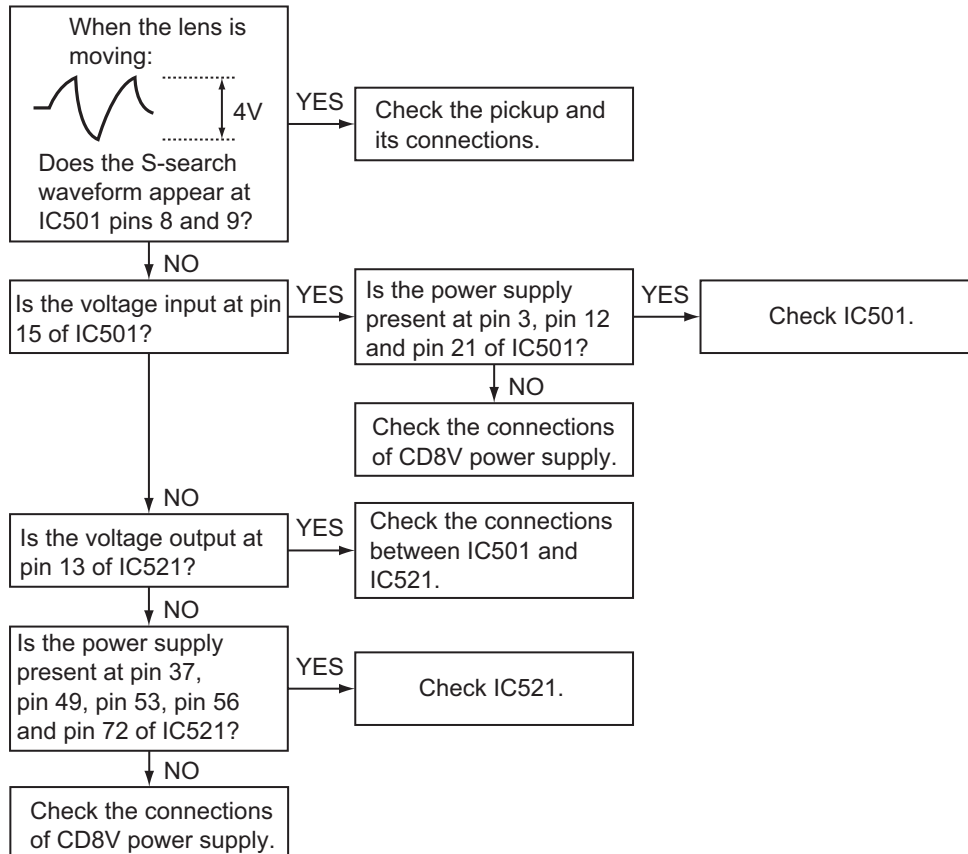


SECTION 5 TROUBLESHOOTING

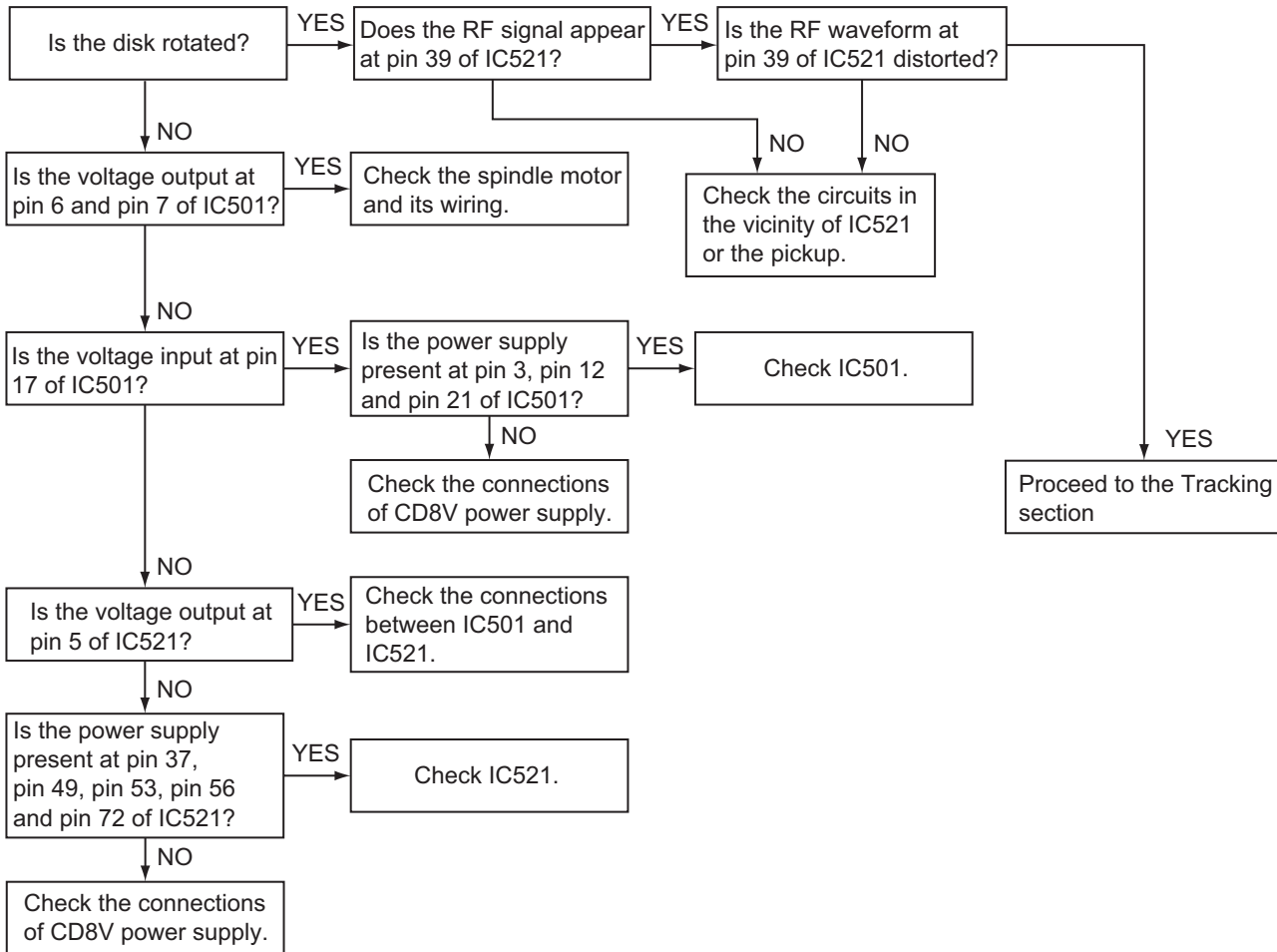
5.1 Feed section



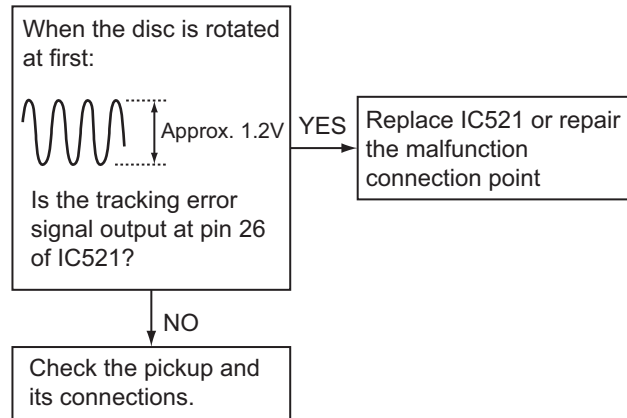
5.2 Focus section



5.3 Spindle section

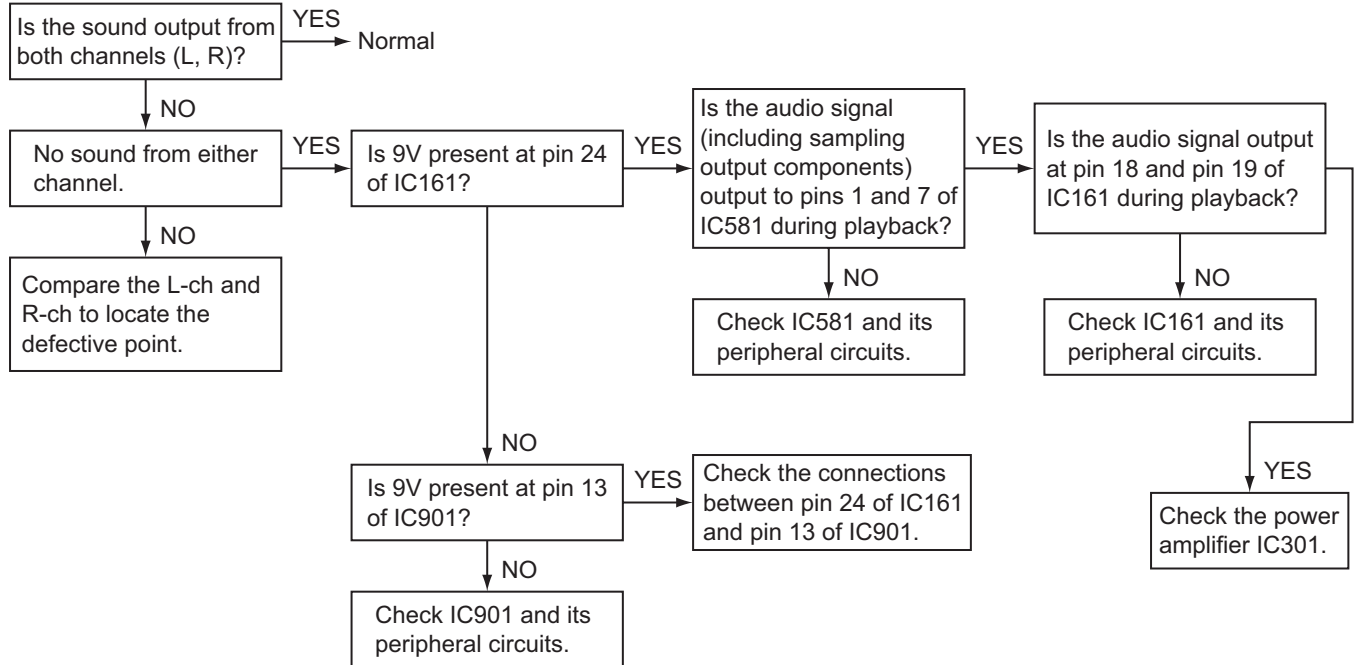


5.4 Tracking section

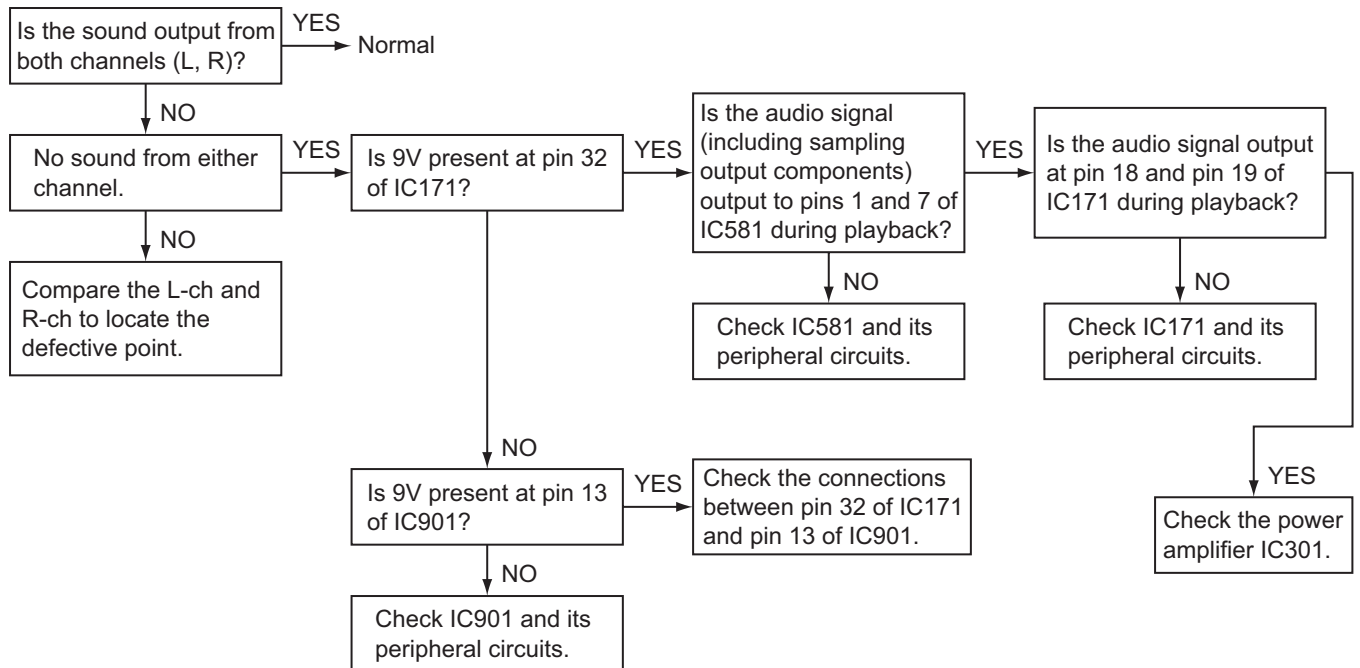


5.5 Signal processing section

5.5.1 Signal processing section (For KD-AR370, KD-G320, KD-G424 and KD-G425)



5.5.2 Signal processing section (For KD-G421 and KD-G427)



5.6 Maintenance of laser pickup

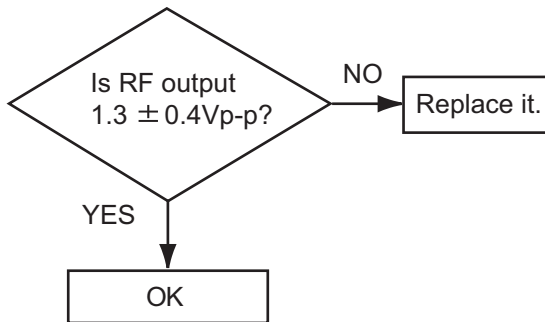
(1) Cleaning the pick up lens

Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode

When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output: amplitude of eye pattern) will be low.

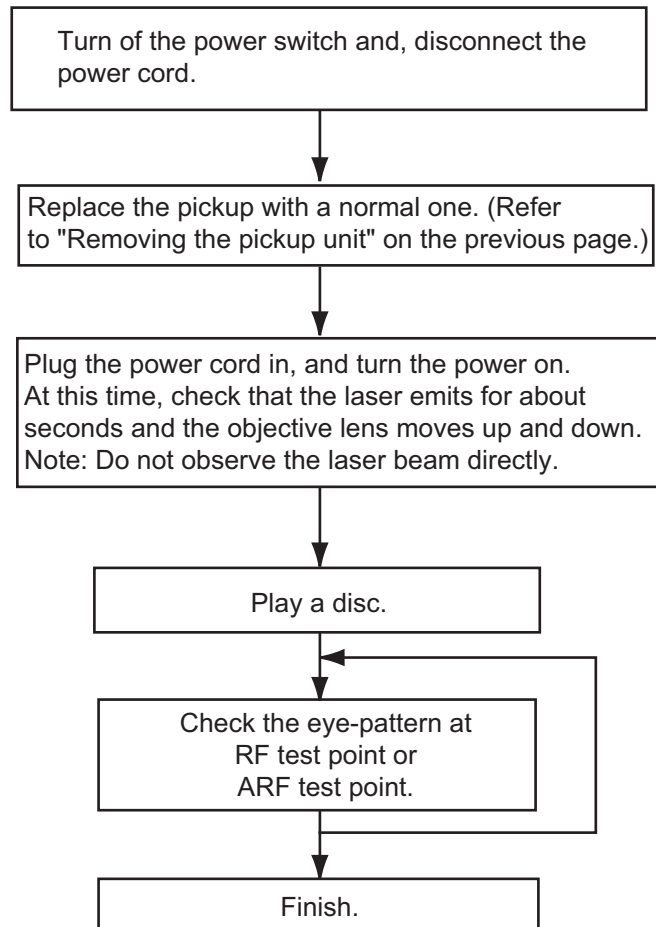


(3) Semi-fixed resistor on the APC PC board

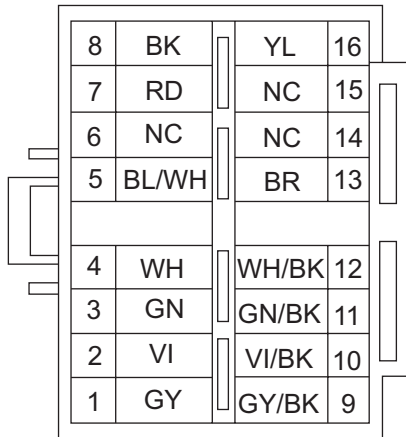
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

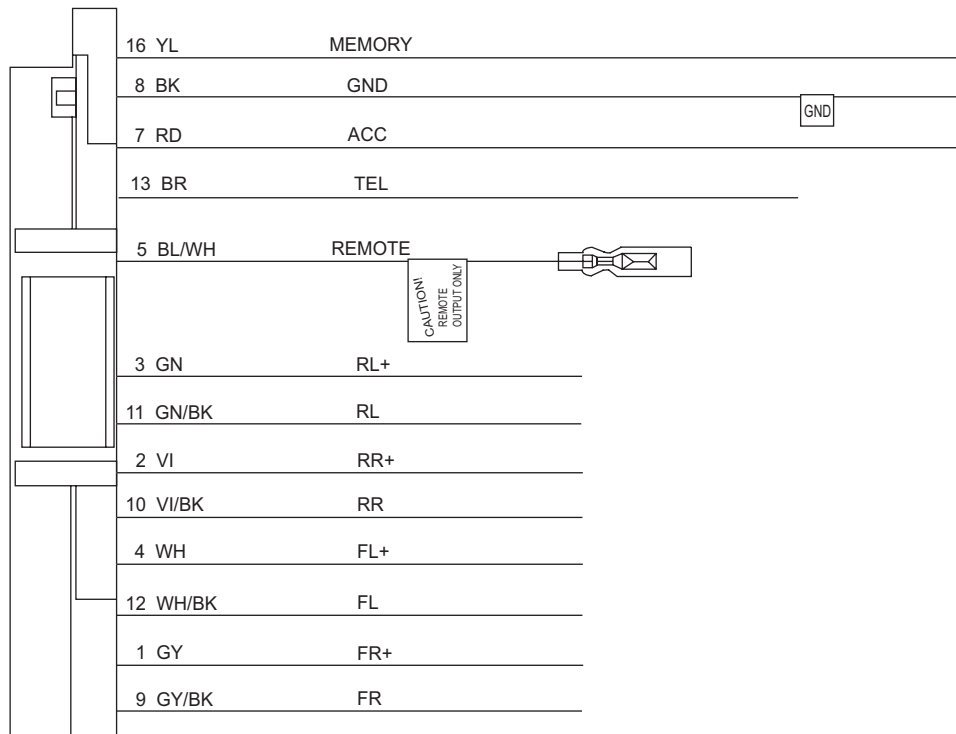
5.7 Replacement of laser pickup



5.8 16 PIN CORD DIAGRAM (for KD-AR370 and KD-G320)

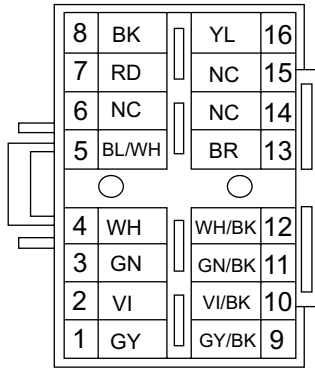


BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
BR	Brown		

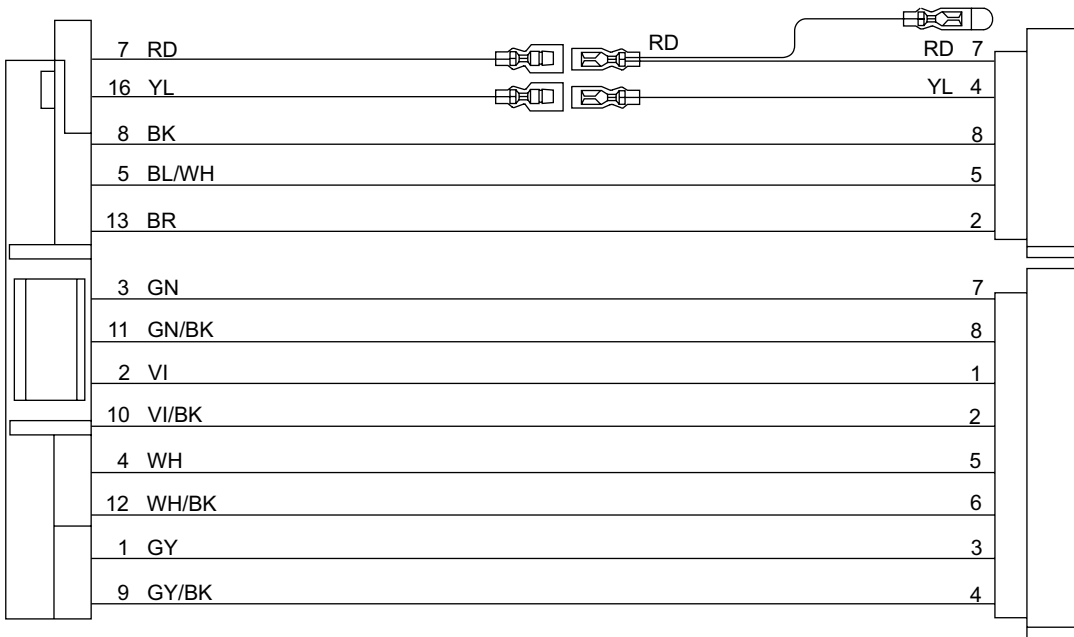
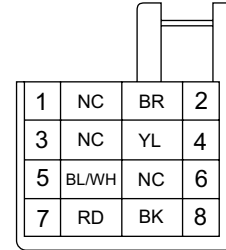


RR	Rear Right	REMOTE	Remote out
FR	Front Right	ACC	ACC Line
FL	Front Left	MEMORY	Memory Backup Battery +
RL	Rear Left	GND	Ground
TEL	Telephone muting		

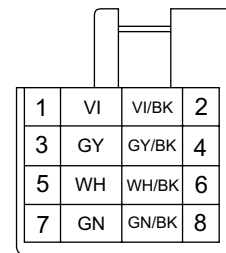
5.9 16PIN CORD DIAGRAM (for KD-G421 and KD-G427)



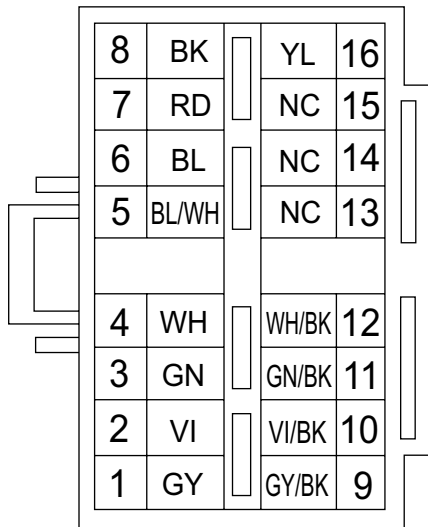
BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
BR	Brown		



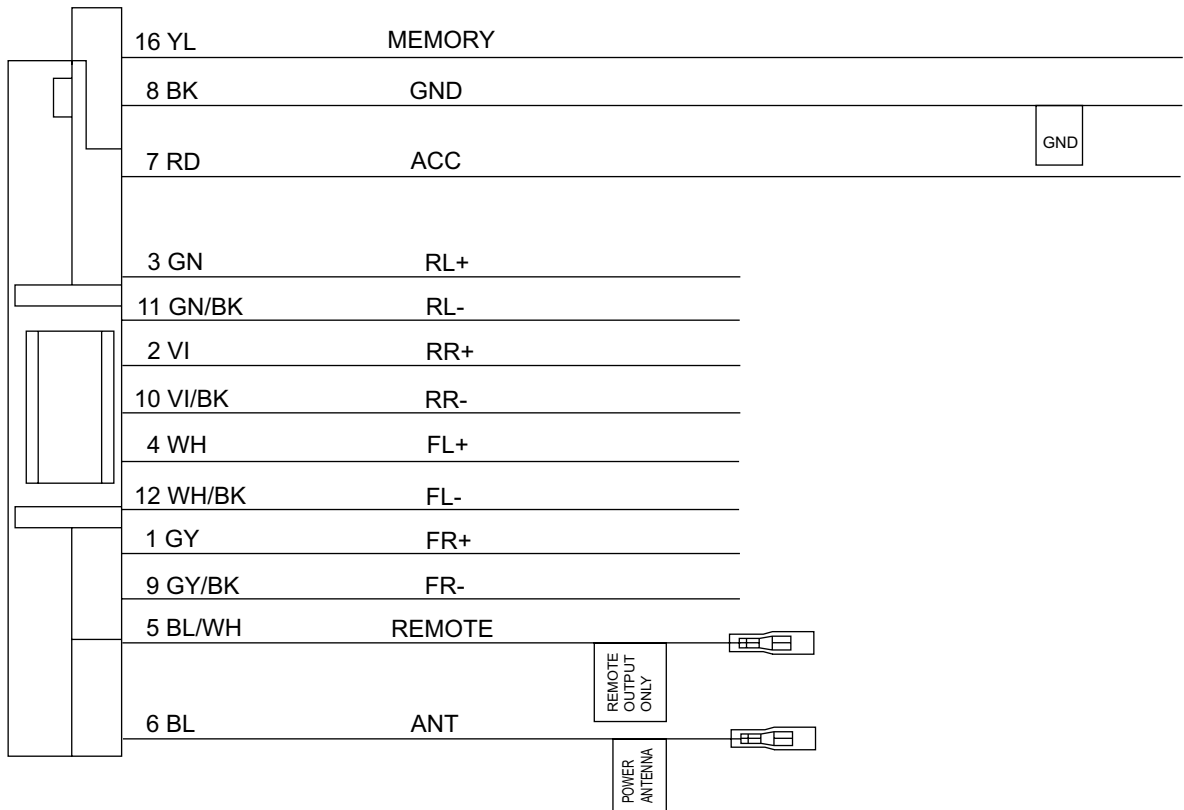
RR	Rear Right	ACC	ACC Line
FR	Front Right	TEL	Telephone Muting
FL	Front Left	GND	Ground
RL	Rear Left	MEMORY	Memory Backup Battery+
REMOTE	Remote	ANT	Auto Antenna
ILL	Illuminations Control		



5.10 16 PIN CORD DIAGRAM (for KD-G424 and KD-G425)



BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow



RR	Rear Right	ANT	Auto Antenna
FR	Front Right	ACC	ACC Line
FL	Front Left	GND	Ground
RL	Rear Left	MEMORY	Memory Backup Battery+
REMOTE	Remote		



JVC

Victor Company of Japan, Limited
Mobile Entertainment Business Group Mobile Entertainment Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA245)

JVC



ENGLISH

ESPAÑOL

FRANÇAIS

CD RECEIVER

KD-AR370/KD-G320

RECEPTOR CON CD

KD-AR370/KD-G320

RECEPTEUR CD

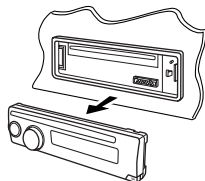
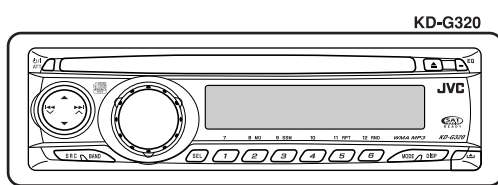
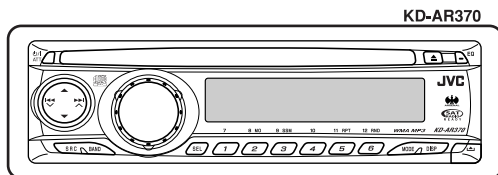
KD-AR370/KD-G320



**MP3
WMA**

**SAT
RADIO
READY**

**COMPACT
DISC
DIGITAL AUDIO
TEXT**



For canceling the display demonstration, see page 7.

Para cancelar la demostración en pantalla, consulte la página 7.

Pour annuler la démonstration des affichages, référez-vous à la page 7.

For installation and connections, refer to the separate manual.

Para la instalación y las conexiones, refiérase al manual separado.

Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:

Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

INSTRUCTIONS MANUAL DE INSTRUCCIONES MANUEL D'INSTRUCTIONS

GET0349-001A

[J]

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

How to reset your unit

- Your preset adjustments will also be erased.
- If a disc is loaded, it will eject. Be careful not to drop the disc.

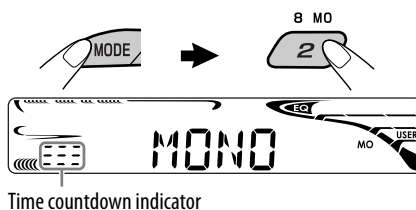
How to forcibly eject a disc

- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.





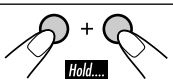
Ex.: When number button 2 works as MO (monaural) button.






To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

How to read this manual

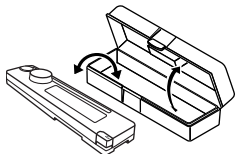
- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 20 – 22).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

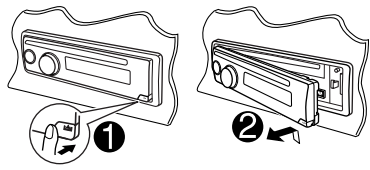
The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

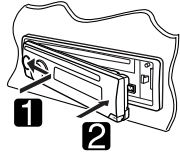
How to detach/attach the control panel



Detaching...



Attaching...



CONTENTS

Control panel — KD-AR370 and KD-G320	4
Remote controller — RM-RK50	5
Getting started	6
Basic operations	6
Radio operations	7
Disc operations	8
Playing a disc in the unit	8
Playing discs in the CD changer	9
Sound adjustments	11
General settings — PSM	12
Satellite radio operations	15
iPod®/D. player operations	18
Other external component operations ...	20
More about this unit	20
Maintenance	23
Troubleshooting	24
Specifications	27

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

For safety...

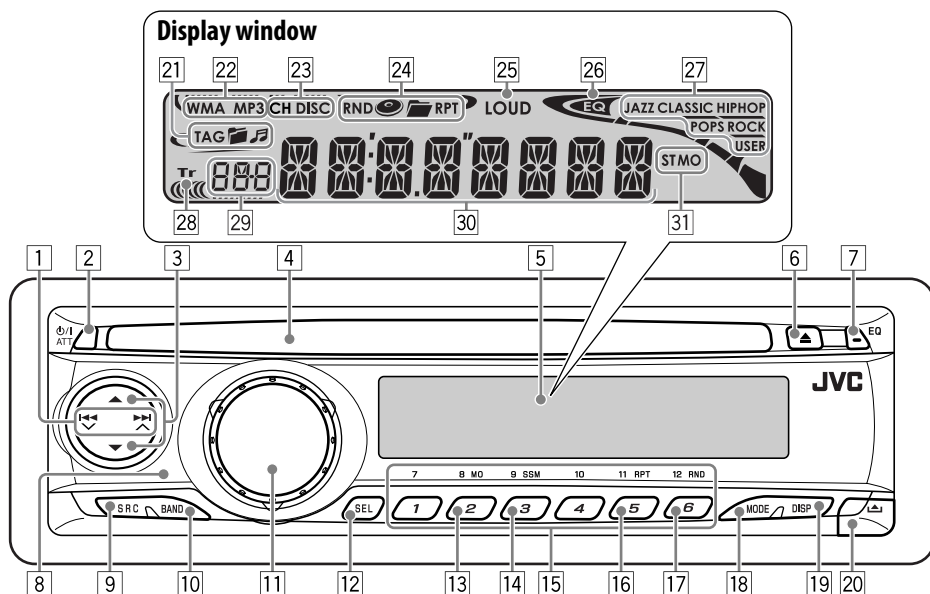
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel — KD-AR370 and KD-G320

Parts identification

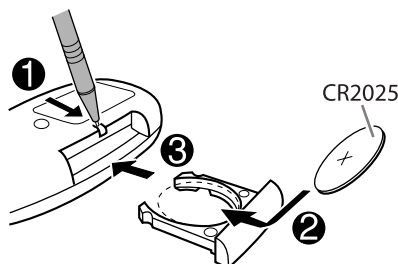


- 1 |◀◀ ◻ / ▶▶▶▶| buttons
- 2 ◻/I ATT (standby/on attenuator) button
- 3 ▲ (up) / ▼ (down) buttons
- 4 Loading slot
- 5 Display window
- 6 ▲ (eject) button
- 7 EQ (equalizer) button
- 8 Remote sensor
DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 9 SRC (source) button
- 10 BAND button
- 11 Control dial
- 12 SEL (select) button
- 13 MO (monaural) button
- 14 SSM (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 MODE button
- 19 DISP (display) button
- 20 ◻ (control panel release) button

Display window

- 21 Disc information indicators—TAG (ID3 Tag), ◻ (folder), ◻ (track/file)
- 22 Disc type indicators—WMA, MP3
- 23 Playback source indicators—
CH: *Lights up only when CD-CH is selected as the playback source.*
DISC: *Lights up for the built-in CD player.*
- 24 Playback mode / item indicators—
RND (random), ◻ (disc), ◻ (folder),
RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 28 Tr (track) indicator
- 29 Source display / Volume level indicator
- 30 Main display
- 31 Tuner reception indicators—ST (stereo), MO (monaural)

Installing the lithium coin battery (CR2025)

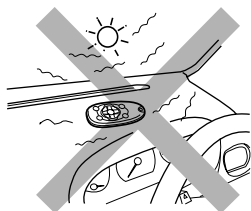


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

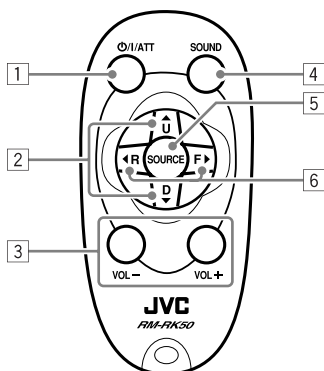
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



1. **⏻/⏻/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
2. **▲ U** (up) / **D** (down) **▼** buttons
 - Changes the FM/AM bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to the satellite (SIRIUS or XM) radio:
 - Changes the categories.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enters the main menu with **▲ U**. (Now **▲ U/D ▼/◀ R/F ▶** work as the menu selecting buttons.)*
3. **VOL - / VOL +** buttons
 - Adjusts the volume level.

- * **▲ U** : Returns to the previous menu.
D ▼ : Confirms the selection.

To be continued...

- 4 SOUND button
 - Selects the sound mode (C-EQ: custom equalizer).
- 5 SOURCE button
 - Selects the source.
- 6 ◀ R (reverse) / F (forward) ▶ buttons
 - Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to the satellite radio:
 - Changes the channels if pressed briefly.
 - Changes the channels rapidly if pressed and held.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

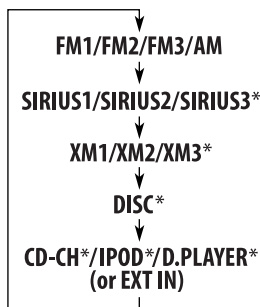
Getting started

Basic operations

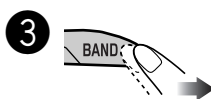
- 1 Turn on the power.



- 2



* You cannot select these sources if they are not ready or not connected.



- For FM/AM tuner



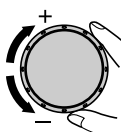
- For SIRIUS radio



- For XM radio



- 4 Adjust the volume.



Volume level appears.



Volume level indicator

- 5 Adjust the sound as you want. (See pages 11 and 12.)

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

To drop the volume in a moment (ATT)

To restore the sound, press it again.



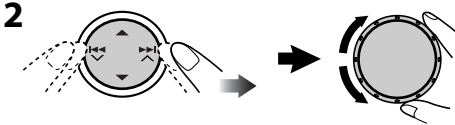
To turn off the power



Hold....

Basic settings

- See also “General settings — PSM” on pages 12 – 14.



1 **Canceling the display demonstrations**

Select “DEMO,” then “DEMO OFF.”

2 **Setting the clock**

Select “CLOCK H” (hour), then adjust the hour.

Select “CLOCK M” (minute), then adjust the minute.

3 **Finish the procedure.**



To check the current clock time when the power is turned off



Radio operations

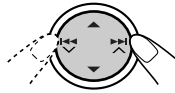


Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

3 **Start searching for a station.**

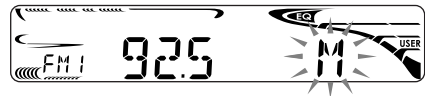
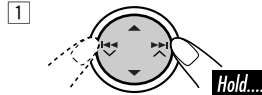


When a station is received, searching stops.

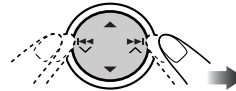
To stop searching, press the same button again.

To tune in to a station manually

In step 3 above...



2 **Select a desired station frequency.**



When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.

Reception improves, but stereo effect will be lost.

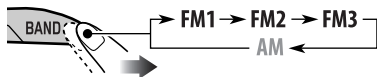
To restore the stereo effect, repeat the same procedure. “MONO OFF” appears and the MO indicator goes off.

Storing stations in memory

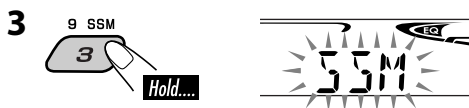
You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

- 1 Select the FM band (FM1 – FM3) you want to store into.



- 2 Press the MODE button.

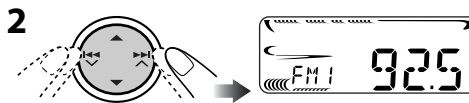


“SSM” flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

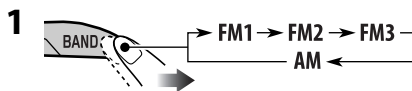
Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.

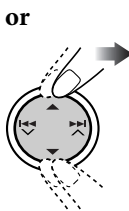
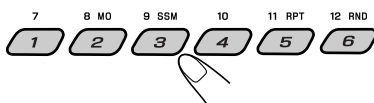


Preset number flashes for a while.

Listening to a preset station



- 2 Select the preset station (1 – 6) you want.



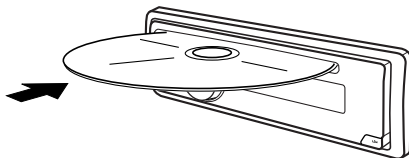
To check the other information while listening to an FM or AM station



Disc operations

Playing a disc in the unit

All tracks will be played repeatedly until you change the source or eject the disc.



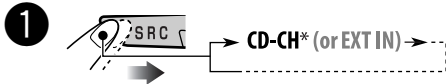
To stop play and eject the disc



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

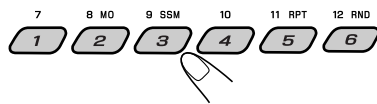
- Ejecting the magazine will also stop playing.



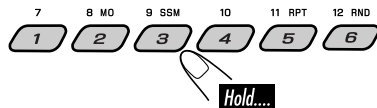
* If you have changed the external input setting to "EXT IN" (see page 14), you cannot select the CD changer.

2 Select a disc.

For disc number from 01 – 06:



For disc number from 07 – 12:



About MP3 and WMA discs

MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track




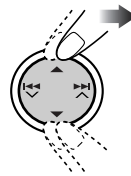
To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

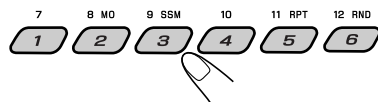
For MP3 discs:  

For WMA discs: 

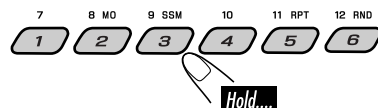


To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:

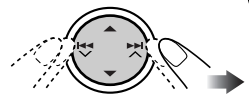


To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

■ Skipping tracks quickly during play



Only possible on JVC
MP3-compatible CD changer

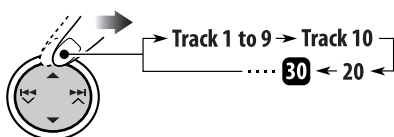
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing a track whose number is a single digit (1 to 9)

1



2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.

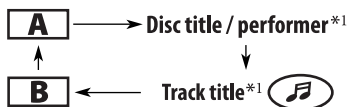


To cancel the prohibition, repeat the same procedure.

Changing the display information

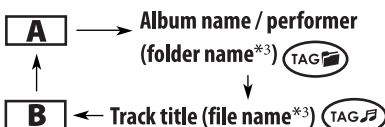


■ While playing an audio CD or a CD Text

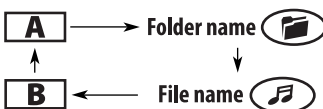


■ While playing an MP3 or a WMA*2 disc

- When “TAG DISP” is set to “TAG ON” (see page 14)



- When “TAG DISP” is set to “TAG OFF”



- A** : Clock with the current track number
- B** : Elapsed playing time with the current track number

*1 If the current disc is an audio CD, “NO NAME” appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

Selecting the playback modes

You can use only one of the following playback modes at a time.



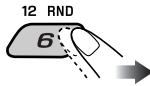
2 Select your desired playback mode.

■ Repeat play



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT*1	: All tracks of the current folder.
DISC RPT*2	: All tracks of the current disc.
RPT OFF	: Cancels.

■ Random play



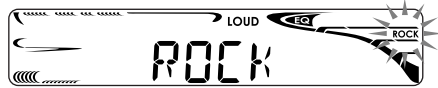
Mode	Plays at random
FLDR RND*1	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND*2	: All tracks of the inserted discs.
RND OFF	: Cancels.

*1 Only while playing an MP3 or a WMA disc.

*2 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).

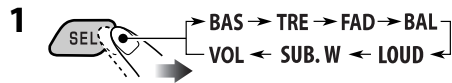


Ex.: When "ROCK" is selected

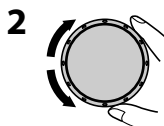
Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...



Indication [Range]

BAS*1 (bass)

Adjust the bass. [-06 to +06]

TRE*1 (treble)

Adjust the treble. [-06 to +06]

FAD*2 (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL*3 (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*1 (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

SUB.W*4 (subwoofer)

Adjust the subwoofer output level. [00 to 08]

VOL (volume)

Adjust the volume. [00 to 30 or 50*5]

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*2 If you are using a two-speaker system, set the fader level to "00."

*3 This adjustment cannot affect the subwoofer output.

*4 This takes effect only when a subwoofer is connected.
Displayed only when "L/O MODE" is set to "WOOFER" (see page 14).

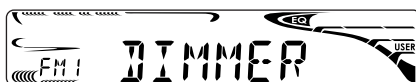
*5 Depending on the amplifier gain control setting. (See page 14 for details.)

General settings — PSM

You can change PSM (Preferred Setting Mode) items (except "SID") listed in the table that follows.

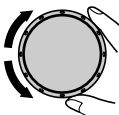


2 Select a PSM item.



Ex.: When "DIMMER" is selected

3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	1 – 12, [7] [Initial: 1 (1:00)]
CLOCK M Minute adjustment	00 – 59, [7] [Initial: 00 (1:00)]
CLK ADJ *1 Clock adjustment	AUTO : [Initial]; The built-in clock is automatically adjusted using the clock data provided via the satellite radio channel. OFF : Cancels.
T-ZONE *1, *2 Time zone	Select your residential area from one of the following time zones for clock adjustment. EASTERN [Initial] ⇄ ATLANTIC ⇄ NEWFOUND ⇄ ALASKA ⇄ PACIFIC ⇄ MOUNTAIN ⇄ CENTRAL ⇄ (back to the beginning)
DST *1, *2 Daylight savings time	Activate this if your residential area is subject to DST. ON : [Initial]; Activates daylight savings time. OFF : Cancels.
SID *3 SIRIUS ID	The 12-digit SIRIUS identification number scrolls on the display 5 seconds after “SID” is selected, [15]. <ul style="list-style-type: none"> • Press SEL to resume the previous display.
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
TEL *4 Telephone muting	MUTING 1/MUTING 2 : Select either one which mutes the sounds while using a cellular phone. OFF : [Initial]; Cancels.
SCROLL *5 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. <ul style="list-style-type: none"> • Pressing DISP for more than one second can scroll the display regardless of the setting.

*1 Displayed only when SIRIUS Satellite radio or XM Satellite radio is connected.

*2 Displayed only when “CLK ADJ” is set to “AUTO.”

*3 Displayed only when SIRIUS Satellite radio is connected.

*4 Only for KD-AR370.

*5 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

Indications	Selectable settings, [reference page]	
WOOFER* ¹ Subwoofer cutoff frequency	LOW	: Frequencies lower than 90 Hz are sent to the subwoofer.
	MID	: [Initial]; Frequencies lower than 135 Hz are sent to the subwoofer.
	HIGH	: Frequencies lower than 180 Hz are sent to the subwoofer.
EXT IN* ² External input	CHANGER	: [Initial]; To use a JVC CD changer, [9], a JVC compatible satellite (SIRIUS/XM) tuner, [15], an Apple iPod or a JVC D. player, [18].
	EXT IN	: To use any other external component than the above, [20].
L/O MODE Line output mode	When connecting amplifiers and/or subwoofer, set this correctly.	
	REAR	: [Initial]; Select if the both LINE OUT terminals are used for connecting the speakers through the external amplifiers.
	WOOFER	: Select if the FRONT LINE OUT terminals are used for connecting a subwoofer through an external amplifier.
TAG DISP Tag display	TAG ON	: [Initial]; Shows the Tag information while playing MP3/WMA tracks, [10].
	TAG OFF	: Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit.	
	LOW PWR	: VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.)
	HIGH PWR	: [Initial]; VOL 00 – VOL 50
AREA Tuner channel interval	AREA US	: [Initial]; When using in North/Central/South America. AM/FM intervals are set to 10 kHz/200 kHz.
	AREA SA	: When using in South American countries where FM interval is 100 kHz. AM interval is set to 10 kHz.
	AREA EU	: When using in any other areas. AM/FM intervals are set to 9 kHz/50 kHz (100 kHz during auto search).

*¹ Displayed only when “L/O MODE” is set to “WOOFER.”

*² Displayed only when one of the following sources is selected—FM, AM, or DISC.

Satellite radio operations

This unit is satellite (SAT) Radio Ready—compatible with both SIRIUS Satellite radio and XM Satellite radio.

Before operating your satellite radio:

- For connection, see Installation/Connection Manual (separate volume).
- Refer also to the Instructions supplied with your SIRIUS Satellite radio or XM Satellite radio.
- “SIRIUS” and the SIRIUS dog logo are registered trademarks of SIRIUS Satellite Radio Inc.
- XM and its corresponding logos are registered trademarks of XM Satellite Radio Inc.
- “SAT Radio,” the SAT Radio logo and all related marks are trademarks of SIRIUS Satellite Radio Inc., and XM Satellite Radio, Inc.

Listening to the satellite radio

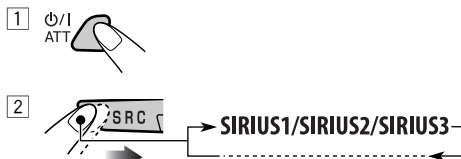
Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

- **JVC SIRIUS radio DLP**—Down Link Processor, for listening to the SIRIUS Satellite radio.
- **XMDirect™ Universal Tuner Box using a JVC Smart Digital Adapter**—XMDJVC100 (not supplied), for listening to the XM Satellite radio.

GCI (Global Control Information) update:

- If channels are updated after subscription, updating starts automatically. “UPDATING” flashes and no sound can be heard.
- Update takes a few minutes to complete.
- During update, you cannot operate your satellite radio.

Activate your SIRIUS subscription after connection:



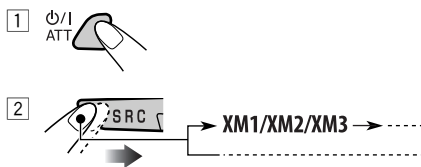
JVC DLP starts updating all the SIRIUS channels.

Once completed, JVC DLP tunes in to the preset channel, CH184.

- 3 Check your SIRIUS ID, see page 13.
- 4 Contact SIRIUS on the internet at <http://activate.siriusradio.com/> to activate your subscription, or you can call SIRIUS toll-free at 1-888-539-SIRIUS (7474). “SUB UPDT PRESS ANY KEY” scrolls on the display once subscription has been completed.

Activate your XM subscription after connection:

- Only Channel 0, 1, and 247 are available before activation.



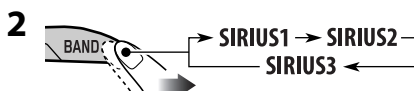
XMDirect™ Universal Tuner Box starts updating all the XM channels. “Channel 1” is tuned in automatically.

- 3 Check your XM Satellite radio ID labelled on the casing of the XMDirect™ Universal Tuner Box, or tune into “Channel 0” (see page 17).

To be continued...

- 4 Contact XM Satellite radio on the internet at <<http://xmradio.com/activation/>> to activate your subscription, or you can call 1-800-XM-RADIO (1-800-967-2346). Once completed, the unit tunes in to one of the available channels (Channel 4 or higher).

Listening to the SIRIUS Satellite radio

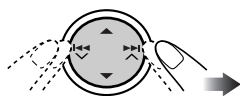


- 3 Select a category.



You can tune in to all the channels of every category by selecting “ALL.” Selecting a particular category (SPORTS, ENTERTAINMENT, etc.) allows you to enjoy only the channels from the selected category.

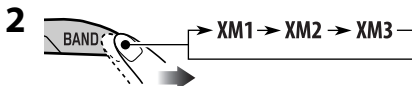
- 4 Select a channel for listening.



Holding the button changes the channels rapidly.

- When changing the category or channel, invalid and unsubscribed channels are skipped.

Listening to the XM Satellite radio



- 3 Select a channel for listening.



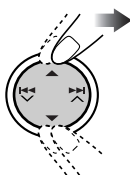
Holding the button changes the channels rapidly.

Searching for category/channel

You can search for programs by category (Category Search) or channel number (Channel Search).

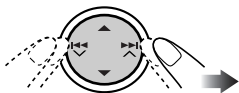
- In **Category Search**, you can tune in to the channels of the selected category. Category Search begins from the currently selected channel. The selected channel number flashes on the display.
- In **Channel Search**, you can tune in to all channels (including non-categorised channels).

- 1 Select a category (Category Search).



- For Channel Search, skip this step.

2 Select a channel for listening.



Current channel number



Ex.: When you select "COUNTRY" for Category Search

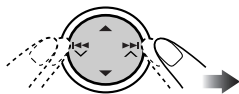
If no operation is done for about 15 seconds, Category Search is canceled.

In Channel Search, channel name and channel number appear on the display during search.

- While searching, invalid and unsubscribed channels are skipped.

■ Checking the XM Satellite radio ID

While selecting "XM1," "XM2," or "XM3," select "Channel 0."



The display alternately shows "RADIO ID" and the 8-digit (alphanumeric) ID number.

To cancel the ID number display, select any channel other than "Channel 0."

Storing channels in memory

You can preset six channels for each band.

Ex.: Storing a channel into preset number 4.

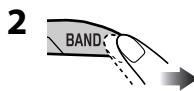
1 Tune in to a channel you want.



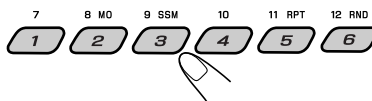
Preset number flashes for a while.

Listening to a preset channel

1 Select either SIRIUS Satellite radio or XM Satellite radio.



3 Select the preset channel (1 - 6) you want.



To change the display information while listening to a channel



Clock → Category name → Channel name →
Artist name → Composer name* → Song/program
name/title → (back to the beginning)

* Only for SIRIUS Satellite radio.

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player:
Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

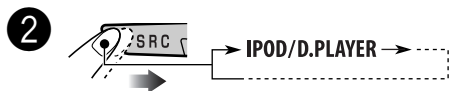
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
 - **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
 - For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

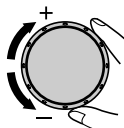
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 14.




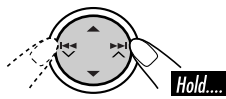
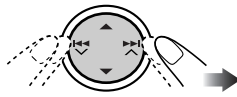
Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	 <p>Hold....</p>
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/◀/▶/⏪/⏩/⏮/⏭ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps **2** and **3** until the desired track is played.
- Holding |◀◀ ▼/▶▶| ▲ can skip 10 items at a time.

- *3 The menu selecting mode will be canceled:
- If no operations are done for about 5 seconds.
 - When you confirm the selection of a track.

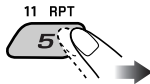
Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

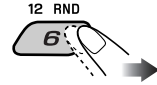
ALL RPT

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBM RND*4

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

- *4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check other information while listening to an iPod or a D. player

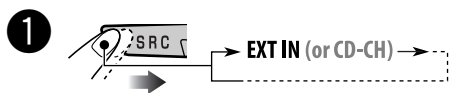


Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

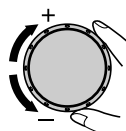
For listening to the satellite radio, iPod, or D. player, refer to pages 15 – 19.



If “EXT IN” does not appear, see page 14 and select the external input (“EXT IN”).

- 2 Turn on the connected component and start playing the source.

- 3 Adjust the volume.



- 4 Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component



More about this unit

Basic operations

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc had been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm (3-3/16") discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can play back files recorded in VBR (variable bit rate). Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.

To be continued...

- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.
- To know more about SIRIUS Satellite radio or to sign up, visit <<http://www.sirius.com>>.
- For the latest channel listings and programming information, or to sign up for XM Satellite radio, visit <<http://www.xmradio.com>>.

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- The text information may not be displayed correctly.
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod or D. player and the unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 13). This unit can display up to 40 characters.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

Satellite radio operations

- You can also connect the JVC SIRIUS radio PnP (Plug and Play), using the JVC SIRIUS radio adapter, KS-U100K (not supplied) to the CD changer jack on the rear.
By turning on/off the power of the unit, you can turn on/off the JVC PnP. However, you cannot control it from this unit.
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Notice:

When connecting an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

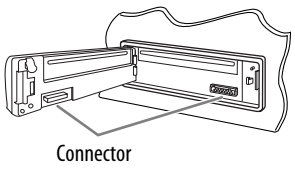
For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.
 To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

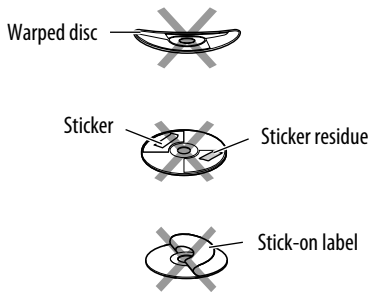
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	<ul style="list-style-type: none"> • Adjust the volume to the optimum level. • Check the cords and connections.
	<ul style="list-style-type: none"> • The unit does not work at all. 	Reset the unit (see page 2).
FM/AM	<ul style="list-style-type: none"> • SSM automatic presetting does not work. 	Store stations manually.
	<ul style="list-style-type: none"> • Static noise while listening to the radio. 	Connect the antenna firmly.
Disc playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc can be neither played back nor ejected. 	<ul style="list-style-type: none"> • Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a playable disc into the loading slot.
MP3/WMA playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	<ul style="list-style-type: none"> • Noise is generated. 	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> The CD changer does not work at all. 	Reset the unit (see page 2).
Satellite radio	<ul style="list-style-type: none"> “CALL 1-888-539-SIRIUS TO SUBSCRIBE” scrolls on the display while listening to the SIRIUS Satellite radio. 	Starts subscribing SIRIUS Satellite radio (see page 15).
	<ul style="list-style-type: none"> No sound can be heard. “UPDATING” appears on the display. 	The unit is updating the channel information and it takes a few minutes to complete.
	<ul style="list-style-type: none"> Either “NO SIGNAL” scrolls or “NO SIGNL” appears on the display. 	Move to an area where signals are stronger.
	<ul style="list-style-type: none"> Either “NO ANTENNA” scrolls or “ANTENNA” appears on the display. 	Connect the antenna firmly.
	<ul style="list-style-type: none"> “NO CH” appears on the display for about 5 seconds, then returns to the previous display while listening to the SIRIUS Satellite radio. 	No broadcast on the selected channel. Select another channel or continue listening to the previous channel.
	<ul style="list-style-type: none"> “NO (information)*” scrolls on the display while listening to the SIRIUS Satellite radio. “---” appears on the display while listening to the XM Satellite radio. 	No text information for the selected channel.

* NO CATEGORY, NO ARTIST, NO COMPOSER, and NO SONG/PROGRAM

	Symptoms	Remedies/Causes
Satellite radio	<ul style="list-style-type: none"> • “---” appears on the display for about 2 seconds, then returns to the previous channel while listening to the XM Satellite radio. 	<p>Selected channel is no longer available or is unauthorized. Select another channel or continue listening to the previous channel.</p>
	<ul style="list-style-type: none"> • “OFF AIR” appears on the display while listening to the XM Satellite radio. 	<p>Selected channel is not broadcasting at this time. Select another channel or continue listening to the previous channel.</p>
	<ul style="list-style-type: none"> • “LOADING” appears on the display while listening to the XM Satellite radio. 	<p>The unit is loading the channel information and audio. Text information are temporarily unavailable.</p>
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. • Satellite radio does not work at all. 	<p>Reconnect this unit and the satellite radio correctly, then reset the unit.</p>
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	<p>The functions of the buttons have been changed. Press MODE before performing the operation.</p>
	<ul style="list-style-type: none"> • The sound is distorted. 	<p>Deactivate the equalizer either on the unit or the iPod/D. player.</p>
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	<p>Check the connecting cable and its connection.</p>
	<ul style="list-style-type: none"> • Playback stops. 	<p>The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 18).</p>
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	<p>Disconnect the headphones from the iPod nano.</p>
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	<p>Disconnect the adapter from the D. player. Then, connect it again.</p>
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	<p>No tracks are stored. Import tracks to the iPod or D. player.</p>
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	<p>Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.</p>
<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	<p>Check the connection between the adapter and this unit.</p>	
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	<p>Reset the iPod or D. player.</p>	

Specifications

AUDIO AMPLIFIER SECTION

Power Output:

18 W RMS \times 4 Channels at
4 Ω and \leq 1% THD+N

Signal to Noise Ratio:

80 dBa (reference: 1 W into 4 Ω)



Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: \pm 10 dB at 100 Hz

Treble: \pm 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Line-Out Level/Impedance:

2.5 V /20 k Ω load (full scale)

Output Impedance: 1 k Ω

Subwoofer-Out Level/Impedance:

2.0 V /20 k Ω load (full scale)

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 107.9 MHz

(with channel interval set to 100 kHz
or 200 kHz)

87.5 MHz to 108.0 MHz

(with channel interval set to 50 kHz)

AM: 530 kHz to 1 710 kHz

(with channel interval set to 10 kHz)

531 kHz to 1 602 kHz

(with channel interval set to 9 kHz)

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 35 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical
pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media[®] Audio) Decoding
Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C (32°F to 104°F)

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

(7-3/16" \times 2-1/16" \times 5-15/16")

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm


(7-7/16" \times 2-5/16" \times 7/16")

Mass (approx.):

1.4 kg (3.1 lbs) (excluding accessories)

*Design and specifications are subject to change
without notice.*

If a kit is necessary for your car, consult your
telephone directory for the nearest car audio
specialty shop.



**Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit
Still having trouble??**

USA ONLY

**Call 1-800-252-5722
<http://www.jvc.com>
We can help you!**

JVC



EN, SP, FR

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1105DTSMDTJEIN

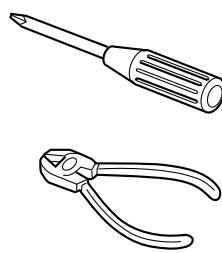
JVC KD-AR370/KD-G320

Installation/Connection Manual

Manual de instalación/conexión

Manuel d'installation/raccordement

GET0349-002A
[J]



1105DTSMDTJEIN
EN, SP, FR
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

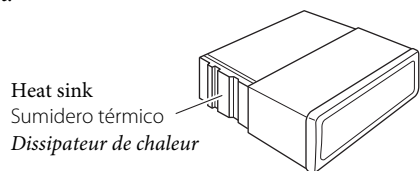
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 14 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

ADVERTENCIAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- **Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.**

Notas:

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar los altavoces con una potencia máxima de más de 50 W (tanto atrás como adelante, con una impedancia de **4 Ω a 8 Ω**). Si la potencia máxima es de menos de 50 W, cambie "AMP GAIN" para evitar daños en los altavoces (consulte la página 14 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.

AVERTISSEMENTS

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

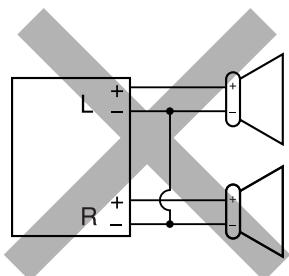
- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.
- Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre **4 Ω et 8 Ω**). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 14 du MANUAL D'INSTRUCTIONS).
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.
- Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

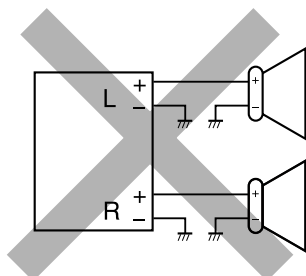
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



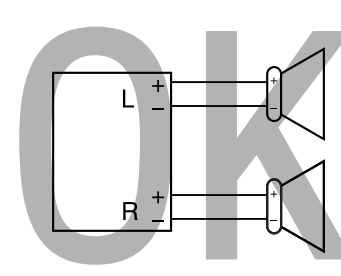
PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.



PRECAUTIONS sur l'alimentation et la connexion des enceintes:

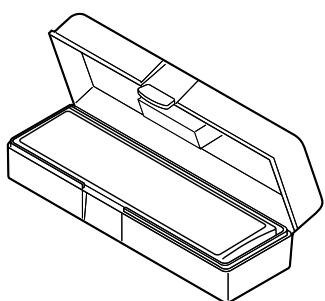
- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.



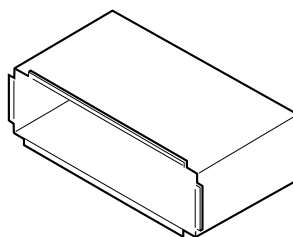
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

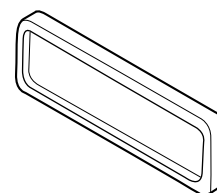
- Ⓐ / Ⓑ
Hard case/Control panel
Estuche duro/Panel de control
Etui de transport/Panneau de commande



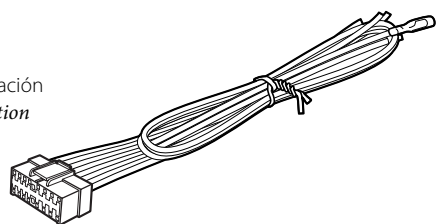
- Ⓒ
Sleeve
Cubierta
Manchon



- Ⓓ
Trim plate
Placa de guarnición
Plaque d'assemblage



- Ⓔ
Power cord
Cordón de alimentación
Cordon d'alimentation



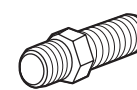
- Ⓕ
Washer (ø5)
Arandela (ø5)
Rondelle (ø5)



- Ⓖ
Lock nut (M5)
Tuerca de seguridad (M5)
Ecrou d'arrêt (M5)



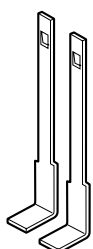
- Ⓗ
Mounting bolt—M5 × 20 mm (M5 × 13/16")
Perno de montaje—M5 × 20 mm (M5 × 13/16 pulgadas)
Boulon de montage—M5 × 20 mm (M5 × 13/16 pouces)



- Ⓘ
Rubber cushion
Cojín de goma
Amortisseur en caoutchouc



- Ⓙ
Handles
Manijas
Poignées



- Ⓚ
Remote controller
Control remoto
Télécommande



RM-RK50

- Ⓛ
Battery
Pila
Pile



CR2025

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

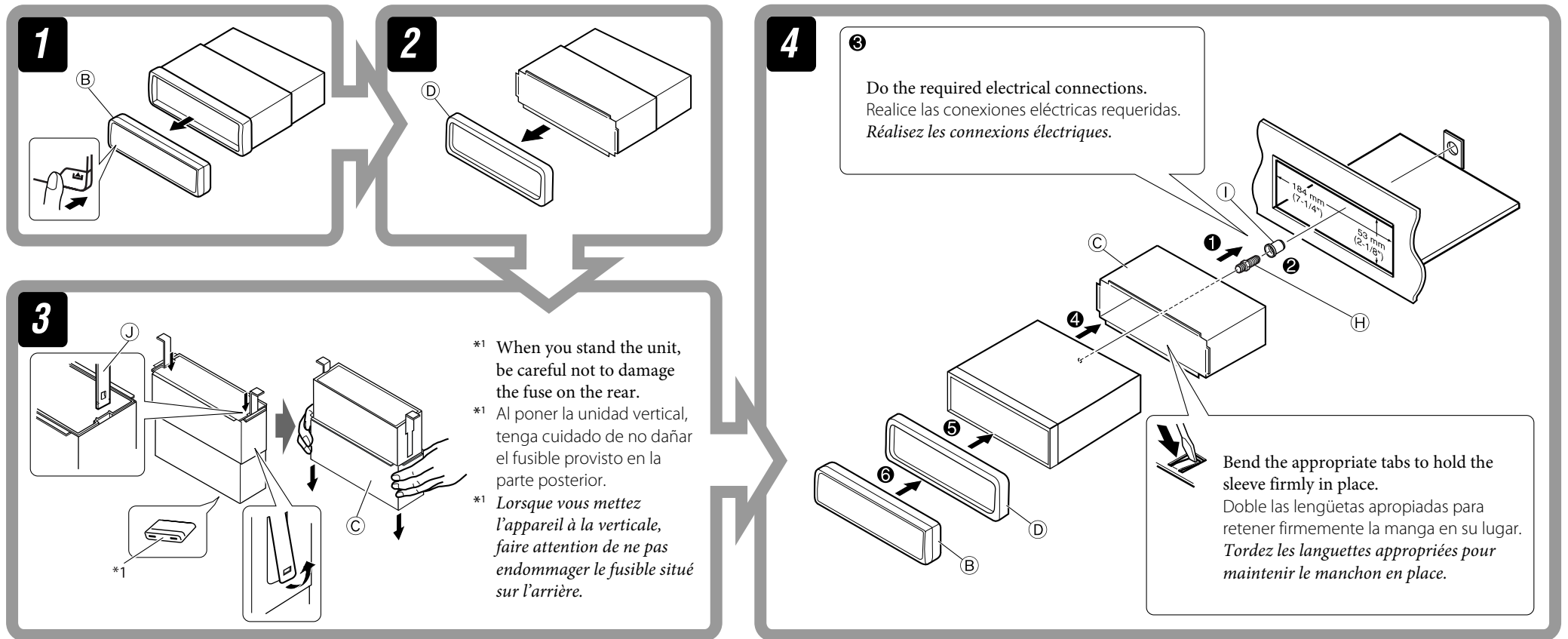
La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consultez votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.



Removing the unit

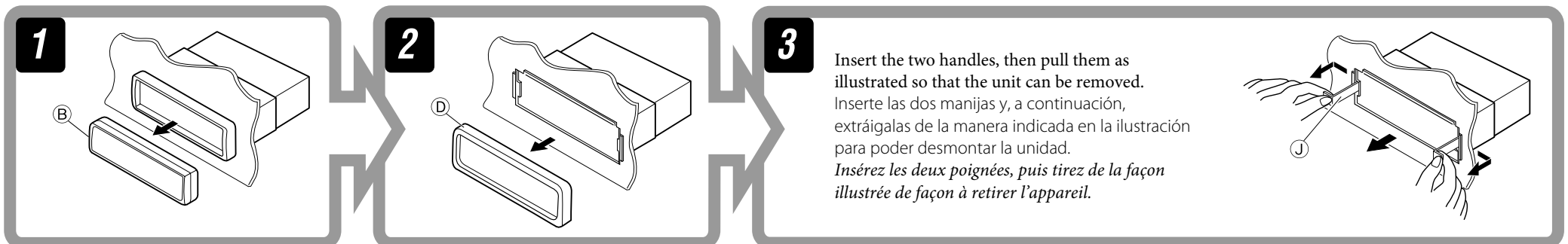
Before removing the unit, release the rear section.

Extracción de la unidad

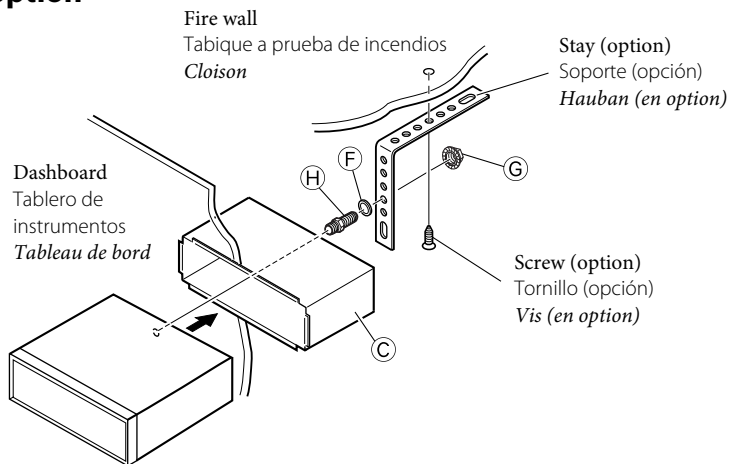
Antes de extraer la unidad, libere la sección trasera.

Retrait de l'appareil

Avant de retirer l'appareil, libérer la section arrière.



When using the optional stay / Cuando emplea un soporte opcional / Lors de l'utilisation du hauban en option



Install the unit at an angle of less than 30°.
Instale la unidad a un ángulo de menos de 30°.
Installez l'appareil avec un angle de moins de 30°.

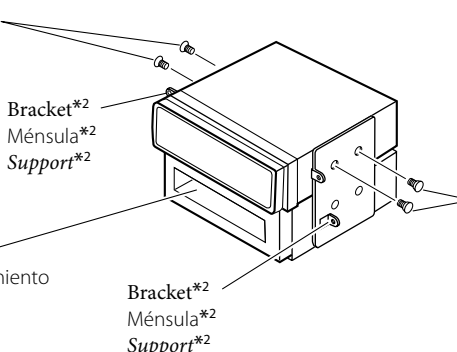
When installing the unit without using the sleeve / Instalación de la unidad sin utilizar la cubierta / Lors de l'installation de l'appareil sans utiliser de manchon

In a Toyota car for example, first remove the car radio and install the unit in its place.

En un automóvil Toyota, por ejemplo, en primer lugar desmonte el autorradio e instale la unidad en su lugar.

Dans une voiture Toyota, par exemple, retirez d'abord l'autoradio et installez l'appareil à sa place.

Flat type screws—M5 × 8 mm (M5 × 3/8")*2
Tornillos tipo plano—M5 × 8 mm (M5 × 3/8 pulgada)*2
Vis à tête plate—M5 × 8 mm (M5 × 3/8 pouces)*2



*2 Not supplied for this unit.
*2 No suministrado con esta unidad.
*2 Non fourni avec cet appareil.

Flat type screws—M5 × 8 mm (M5 × 3/8")*2
Tornillos tipo plano—M5 × 8 mm (M5 × 3/8 pulgada)*2
Vis à tête plate—M5 × 8 mm (M5 × 3/8 pouces)*2

- Note** : When installing the unit on the mounting bracket, make sure to use the 8 mm (3/8")-long screws. If longer screws are used, they could damage the unit.
- Nota** : Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 8 mm (3/8 pulgada) de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.
- Remarque** : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm (3/8 pouces). Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "-" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **Unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "-" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

LOCALIZACION DE AVERIAS

- **El fusible se quema.**
* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
* ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
* ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "-" de los altavoces L y R conectados a una masa común?
- **Perturbación de ruido.**
* ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
- **La unidad se calienta.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "-" de los altavoces L y R conectados a una masa común?
- **Este receptor no funciona en absoluto.**
* ¿Reinicializó el receptor?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
* Le fil jaune est-elle raccordée?
- **Pas de son des enceintes.**
* Le fil de sortie d'enceinte est-il court-circuité?
- **Le son est déformé.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Interférence avec les sons.**
* La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?
- **L'appareil devient chaud.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Cet appareil ne fonctionne pas du tout.**
* Avez-vous réinitialisé votre appareil?

ELECTRICAL CONNECTIONS

CONEXIONES ELECTRICAS

RACCORDEMENTS ELECTRIQUES

A Typical connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

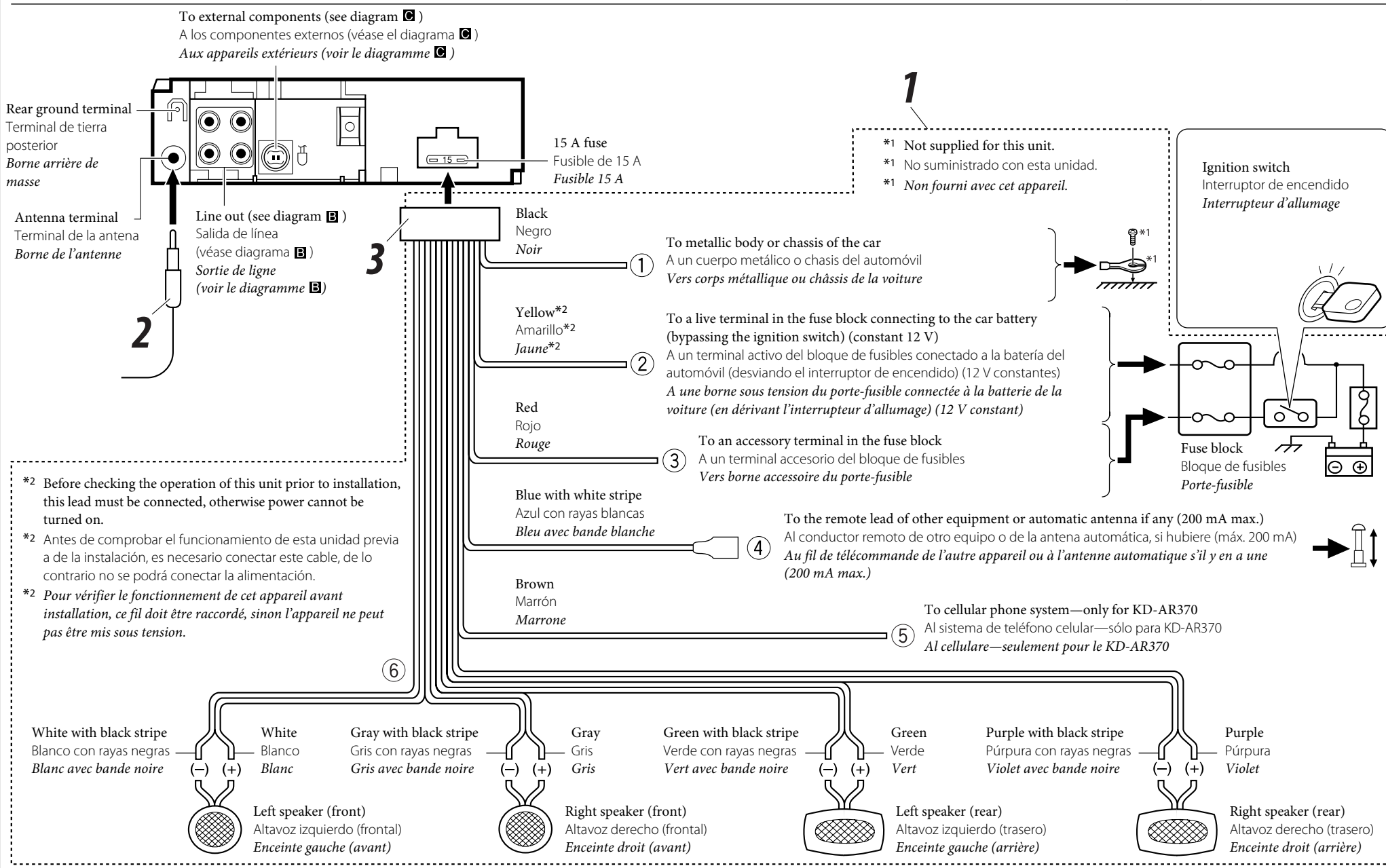
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.

- Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.
- 1 Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
 - 2 Conecte el cable de antena.
 - 3 Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.

- Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.
- 1 Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.
 - 2 Connectez le cordon d'antenne.
 - 3 Finalement, connectez le faisceau de fils à l'appareil.



B Connecting the external amplifiers and/or subwoofer / Conexión de los amplificadores y/o subwoofer externos / Connexion d'amplificateurs extérieurs et/ou d'un caisson de grave

You can connect amplifiers to upgrade your car stereo system.

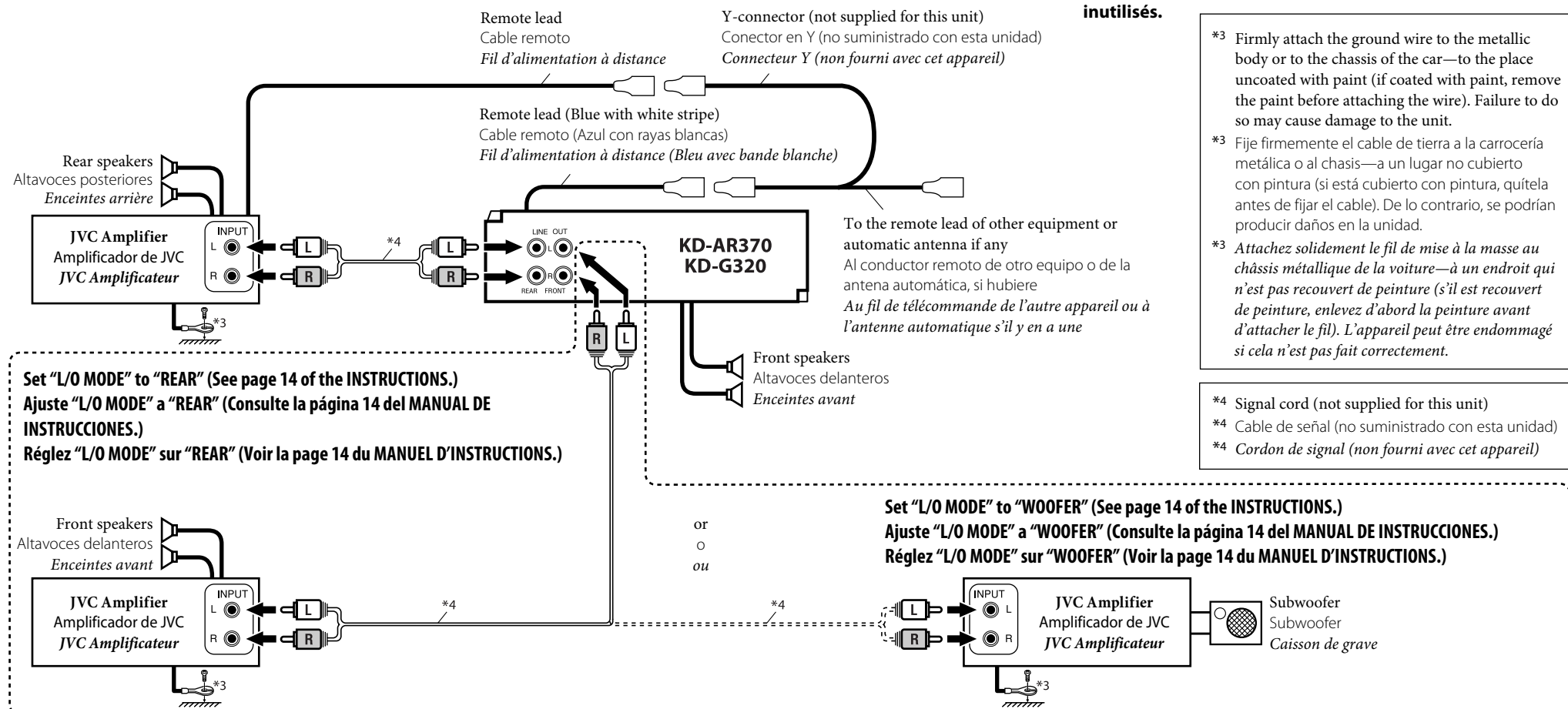
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Usted podrá conectar amplificadores para mejorar el sistema estereo de su automóvil.

- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
- **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**

Vous pouvez connecter des amplificateurs pour améliorer votre système autoradio.

- Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.
- **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**



C Connecting the external components / Conexión de los componentes externos / Connexion des appareils extérieurs

JVC CD changer, SIRIUS Satellite radio, XM Satellite radio, Apple iPod®, or JVC D. player / Cambiador de CD de JVC, radio satelital SIRIUS, radio satelital XM, iPod® de Apple o reproductor JVC D. / Changeur de CD JVC, radio satellite SIRIUS, radio satellite XM, iPod® Apple ou lecteur D. JVC

• Set "CHANGER" for the external input setting (See page 14 of the INSTRUCTIONS.) / Seleccione "CHANGER" para el ajuste de entrada externa (Consulte la página 14 del MANUAL DE INSTRUCCIONES.) / Réglez "CHANGER" pour le réglage de l'entrée extérieure (Voir page 14 du MANUEL D'INSTRUCTIONS.)

You can connect these components in series as illustrated below.

- For listening to the SIRIUS Satellite radio, connect a JVC DLP —Down Link Processor (separately purchased) to this unit.
- The iPod*5 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).

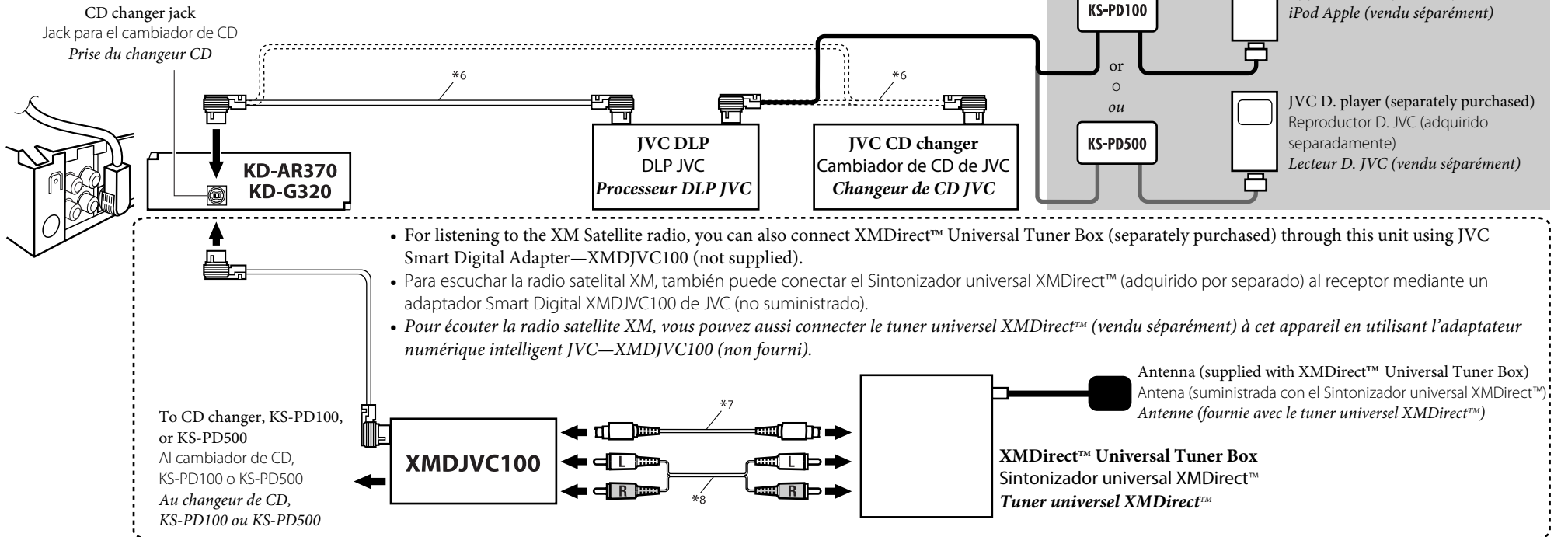
Estos componentes se pueden conectar en serie, tal como se muestra en la ilustración de abajo.

- Para escuchar la radio satelital SIRIUS, conecte un DLP (Down Link Processor) de JVC (adquirido por separado) al receptor.
- Puede conectar el iPod*5 o el reproductor D. usando un adaptador de interfaz (no suministrado)—KS-PD100 (para iPod) o KS-PD500 (para el reproductor D.).

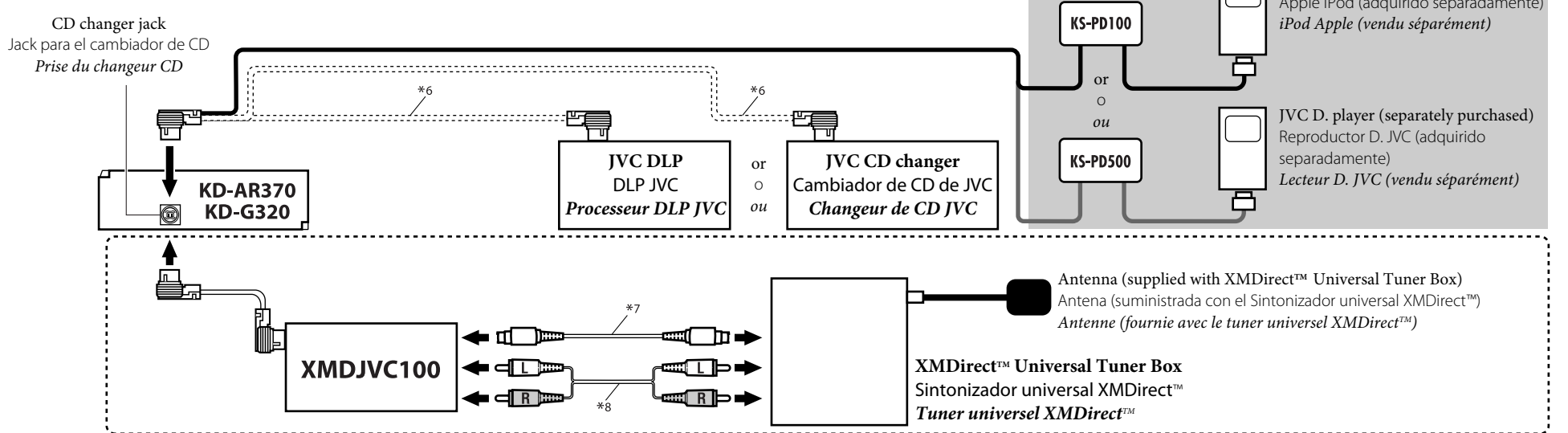
Vous pouvez connecter ces appareils en série comme montrée sur l'illustration.

- Pour écouter la radio satellite SIRIUS, connectez un processeur DLP JVC —Processeur de signaux satellite-terre (vendu séparément) à cet appareil.
- Le iPod*5 ou le lecteur D. peut être connecté en utilisant un adaptateur d'interface (non fourni)—KS-PD100 (pour iPod) ou KS-PD500 (pour le lecteur D.).

Connection 1 (integrated connection) / Conexión 1 (conexión integrada) / Connexion 1 (connexion intégrée)



Connection 2 (alternative connection) / Conexión 2 (conexión alternativa) / Connexion 2 (connexion alternative)



CAUTION / PRECAUCION / PRECAUTION:

- Before connecting the external components, make sure that the unit is turned off.
- Antes de conectar los componentes externos, asegúrese de que la unidad esté apagada.
- Avant de connecter les appareils extérieurs, assurez-vous que l'appareil est hors tension.

- *5 iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- *5 iPod es una marca comercial de Apple Computer, Inc., registrada en los EE.UU. y otros países.
- *5 iPod est une marque de commerce d'Apple Computer, Inc., enregistrée aux États-Unis et dans les autres pays.

- *6 Signal cord supplied with your JVC CD changer or DLP
- *6 Cable de señal suministrado con su cambiador de CD o DLP JVC
- *6 Cordon de signal fourni avec votre changeur de CD ou processeur DLP JVC

- *7 Signal cord supplied with your Smart Digital Adapter
- *7 Cable de señal suministrado con el adaptador Smart Digital
- *7 Cordon de signal fourni avec votre adaptateur numérique intelligent

- *8 Audio signal cord supplied with your Smart Digital Adapter
- *8 Cable de señal de audio suministrado con el adaptador Smart Digital
- *8 Cordon audio fourni avec votre adaptateur numérique intelligent

JVC PnP (Plug and Play) / PnP ("Plug and Play") JVC / PnP ("Plug and Play") JVC

• Set "EXT IN" for the external input setting (See page 14 of the INSTRUCTIONS.) / Seleccione "EXT IN" para el ajuste de entrada externa (Consulte la página 14 del MANUAL DE INSTRUCCIONES.) / Réglez "EXT IN" pour le réglage de l'entrée extérieure (Voir page 14 du MANUEL D'INSTRUCTIONS.)

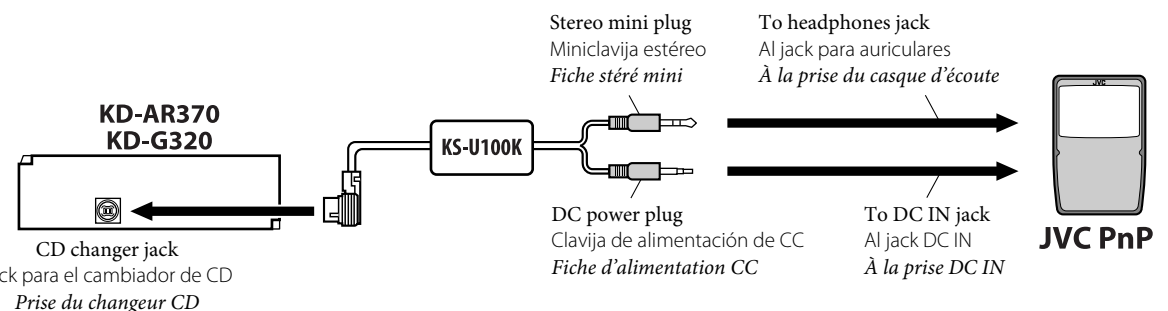
You can also connect JVC PnP through this unit using JVC SIRIUS radio adapter, KS-U100K (not supplied).

- Turning on/off the unit can also turns on/off the JVC PnP.
- También podrá conectar la PnP JVC a través de este receptor utilizando el adaptador para radio SIRIUS JVC, KS-U100K (no suministrado).

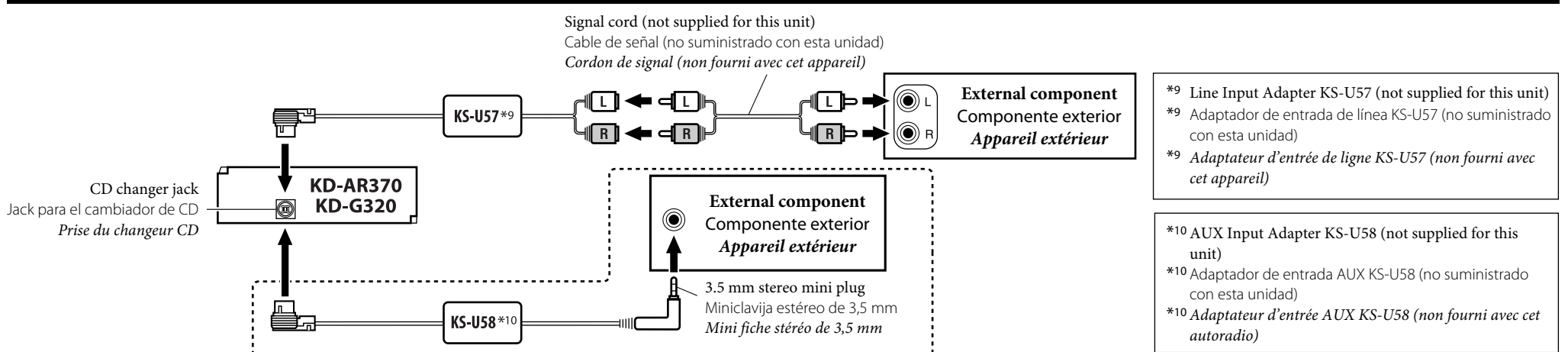
- Al encender/apagar el receptor también se enciende/apaga la PnP JVC.

Vous pouvez aussi connecter le PnP JVC à cet autoradio en utilisant l'adaptateur de radio SIRIUS JVC KS-U100K (non fourni).

- Mettre sous/hors tension l'autoradio peut aussi mettre sous/hors tension le PnP JVC.



Other external component / Otro componente externo / Autre appareil extérieur



JVC

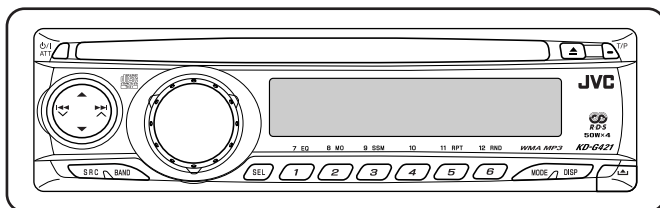
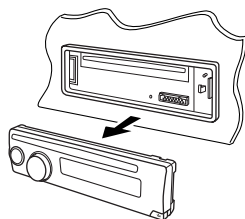


ENGLISH

FRANÇAIS

CD RECEIVER
RECEPTEUR CD

KD-G421



WMA MP3



For canceling the display demonstration, see page 5.

Pour annuler la démonstration des affichages, référez-vous à la page 5.

For installation and connections, refer to the separate manual.

Pour l'installation et les raccordements, se référer au manuel séparé.

INSTRUCTIONS

MANUEL D'INSTRUCTIONS

GET0352-003A
[EX/EU]

Thank you for purchasing a JVC product.

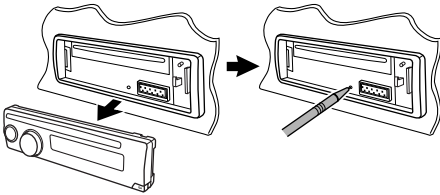
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til strålingen.	VARNING: Synlig och osynlig laserstråling når den öppnas och spärren är urkopplad. Beträkta ej strålen.	VARO: Avattassa ja suojauslaitus ohitettuna tai viallisena olet alittuna näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteien kohdistumista suoraan itseesi. (f)
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How to reset your unit



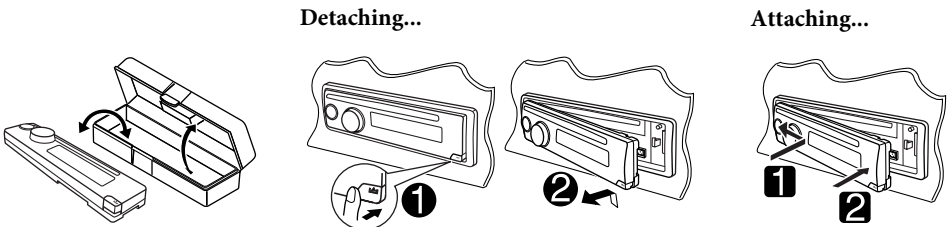
- Your preset adjustments will also be erased.

How to forcibly eject a disc



- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

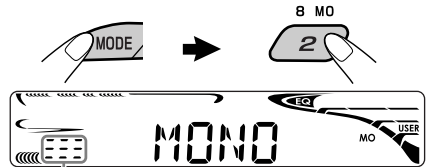
How to detach/attach the control panel



How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.





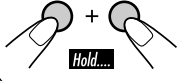


Time countdown indicator




To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 21 – 23).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Note: Only for [EX] model users in UK and European countries

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

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For safety...

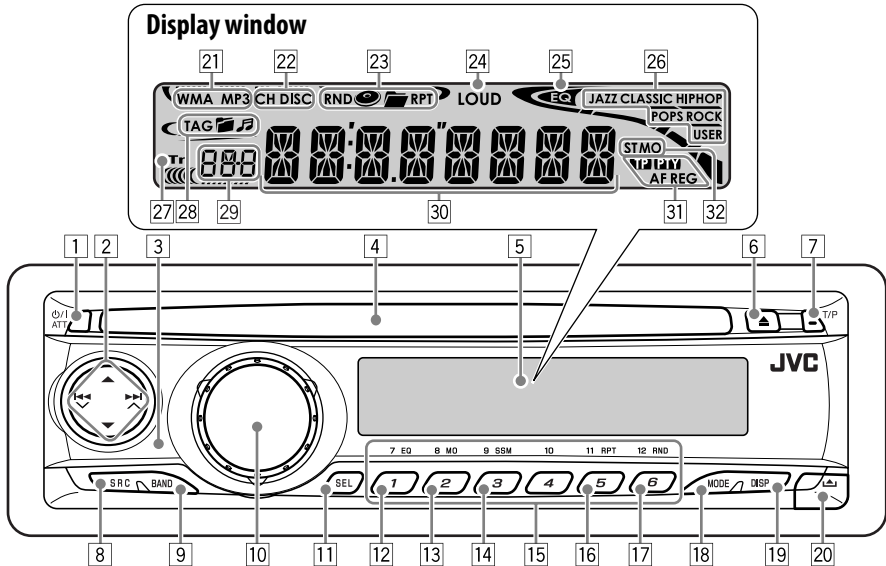
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification



- 1 ϕ /I ATT (standby/on attenuator) button
 2 \blacktriangle (up) / \blacktriangledown (down) and \blacktriangleleft \blacktriangleright \blacktriangledown \blacktriangle buttons

- 3 Remote sensor
 • You can control this unit with an optionally purchased remote controller. For details, see page 20.
 • DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).

- 4 Loading slot
 5 Display window
 6 \blacktriangle (eject) button
 7 T/P (traffic programme/programme type) button
 8 SRC (source) button
 9 BAND button
 10 Control dial
 11 SEL (select) button
 12 EQ (equalizer) button
 13 MO (monaural) button
 14 SSM (Strong-station Sequential Memory) button
 15 Number buttons
 16 RPT (repeat) button
 17 RND (random) button

- 18 MODE button
 19 DISP (display) button
 20 \blacktriangle (control panel release) button

Display window

- 21 Disc type indicators—WMA, MP3
 22 Playback source indicators—
 CH: Lights up only when CD-CH is selected as the playback source.
 DISC: Lights up for the built-in CD player.
 23 Playback mode / item indicators—
 RND (random), disc (disc), folder (folder),
 RPT (repeat)
 24 LOUD (loudness) indicator
 25 EQ (equalizer) indicator
 26 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
 27 Tr (track) indicator
 28 Disc information indicators—TAG (ID3 Tag), folder (folder), track/file (track/file)
 29 Source display / Volume level indicator
 30 Main display
 31 RDS indicators—TP, PTY, AF, REG
 32 Tuner reception indicators—ST (stereo), MO (monaural)

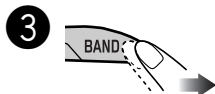
Getting started

Basic operations

- 1 Turn on the power.



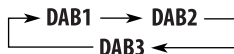
* You cannot select these sources if they are not ready or not connected.



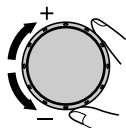
- For FM/AM tuner



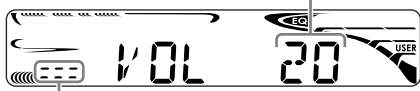
- For DAB tuner



- 4 Adjust the volume.



Volume level appears.



Volume level indicator

Caution on volume setting:

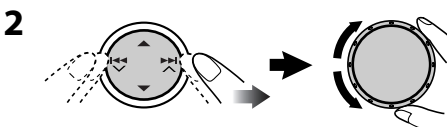
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

- 5 Adjust the sound as you want. (See pages 12 and 13.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	Hold...

Basic settings

- See also “General settings — PSM” on pages 13 – 15.



- 1 **Canceling the display demonstrations**

Select “DEMO,” then “DEMO OFF.”

- 2 **Setting the clock**

Select “CLOCK H” (hour), then adjust the hour.

Select “CLOCK M” (minute), then adjust the minute.

Select “24H/12H,” then “24H” (hour) or “12H” (hour).

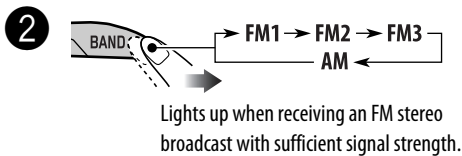
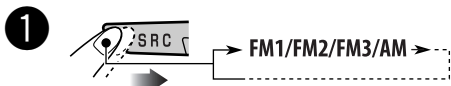
- 3 Finish the procedure.



To check the current clock time when the power is turned off



Radio operations



3 **Start searching for a station.**

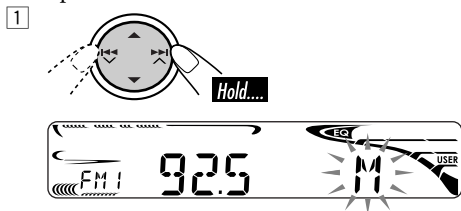


When a station is received, searching stops.

To stop searching, press the same button again.

To tune in to a station manually

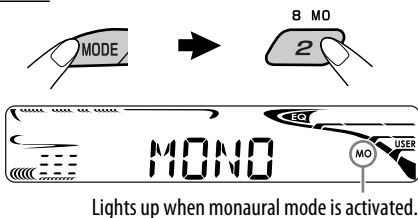
In step 3 above...



2 **Select a desired station frequency.**



When an FM stereo broadcast is hard to receive



Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 **Select the FM band (FM1 – FM3) you want to store into.**

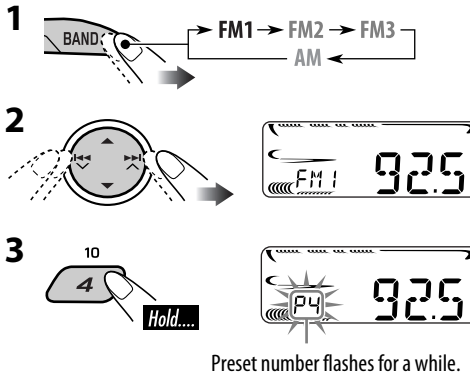


"SSM" flashes, then disappears when automatic presetting is over.

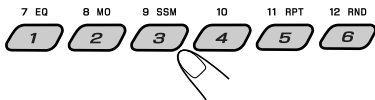
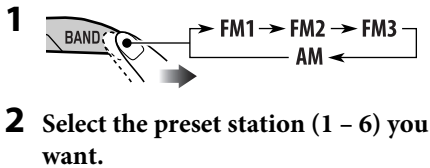
Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.



Listening to a preset station



To check the current clock time while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 9.



FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8 and 14)
- Tracing the same programme automatically — Network-Tracking Reception (see page 9)
- Programme Search (see page 14)

Searching for your favorite FM RDS programme

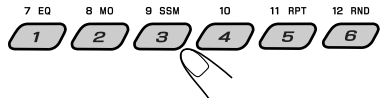
You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

- To store your favorite programme types, see page 8.



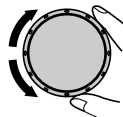
The last selected PTY code appears.

2 Select one of your favorite preset programme types.



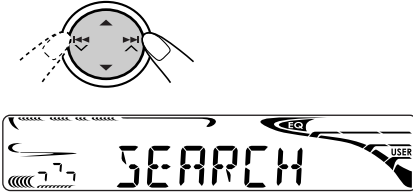
or

Select one of the PTY codes (see page 9).



To be continued....

- Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

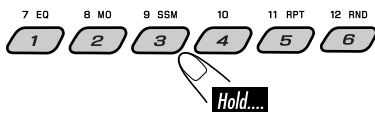
Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

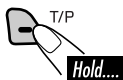
1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

- Select a PTY code (see page 7).
- Select the preset number (1 – 6) you want to store into.



Ex.: When "ROCK M" is selected

- Repeat steps 1 and 2 to store other PTY codes into other preset numbers.
- Finish the procedure.



Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 14).

To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception



The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 14.

The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

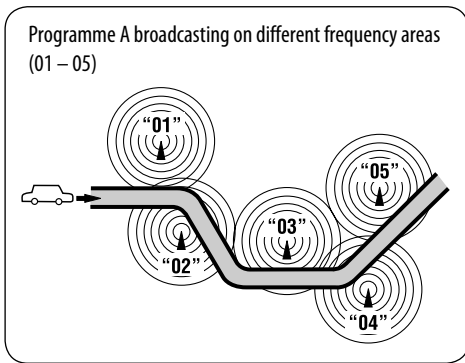
To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 14). The PTY indicator goes off.

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see “AF-REG” on page 14.



To check the current clock time while listening to an FM RDS station



Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

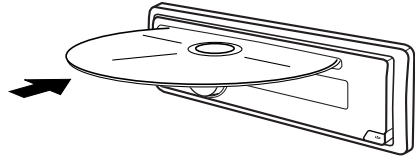
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc operations

Playing a disc in the unit

All tracks will be played repeatedly until you change the source or eject the disc.



To stop play and eject the disc

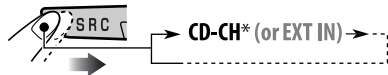


Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

- Ejecting the magazine will also stop playing.

1

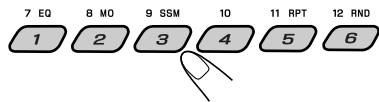


* If you have changed the external input setting to “EXT IN” (see page 15), you cannot select the CD changer.

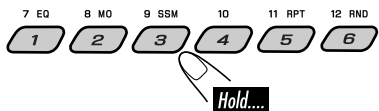
2

Select a disc.

For disc number from 01 – 06:



For disc number from 07 – 12:



To be continued....

About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track




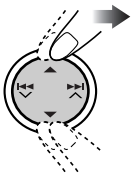
To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

For MP3 discs:  

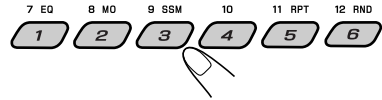
For WMA discs: 



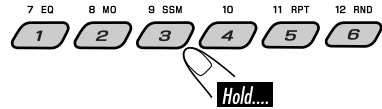
To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly



To select a number from 01 – 06:



To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

■ Skipping tracks quickly during play



**Only possible on JVC
MP3-compatible CD changer**

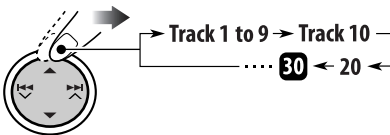
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing a track whose number is a single digit (1 to 9)

1



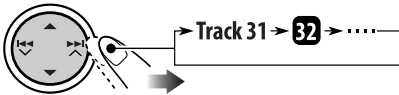
2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

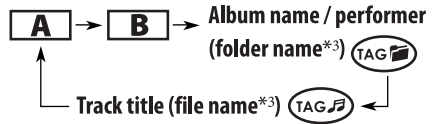


■ While playing an audio CD or a CD Text

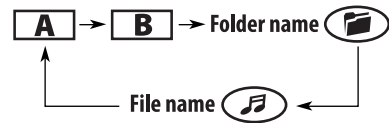


■ While playing an MP3 or a WMA*2 disc

- When “TAG DISP” is set to “TAG ON” (see page 15)



- When “TAG DISP” is set to “TAG OFF”



A : Elapsed playing time with the current track number

B : Clock with the current track number

*1 If the current disc is an audio CD, “NO NAME” appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

Selecting the playback modes

You can use only one of the following playback modes at a time.



2 Select your desired playback mode.

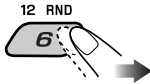
Repeat play



Mode Plays repeatedly

- TRK RPT** : The current track.
- FLDR RPT***1 : All tracks of the current folder.
- DISC RPT***2 : All tracks of the current disc.
- RPT OFF** : Cancels.

Random play



Mode Plays at random

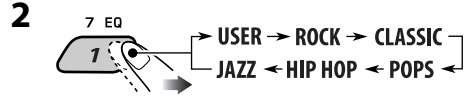
- FLDR RND***1 : All tracks of the current folder, then tracks of the next folder and so on.
- DISC RND** : All tracks of the current disc.
- MAG RND***2 : All tracks of the inserted discs.
- RND OFF** : Cancels.

*1 Only while playing an MP3 or a WMA disc.

*2 Only while playing discs in the CD changer.

Sound adjustments

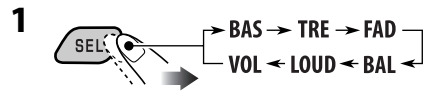
You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).



Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

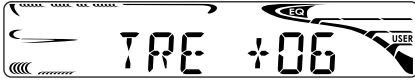
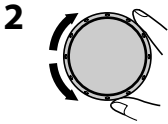
Adjusting the sound

You can adjust the sound characteristics to your preference.



General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.



Ex.: When "TRE" is selected

Indication [Range]

BAS*¹ (bass)

Adjust the bass. [-06 to +06]

TRE*¹ (treble)

Adjust the treble. [-06 to +06]

FAD*² (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*¹ (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

VOL (volume)

Adjust the volume. [00 to 30 or 50*³]

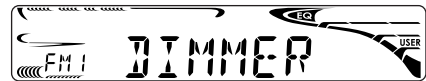
*¹ When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*² If you are using a two-speaker system, set the fader level to "00."

*³ Depending on the amplifier gain control setting. (See page 15 for details.)

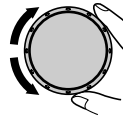


2 Select a PSM item.



Ex.: When "DIMMER" is selected

3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.

5 Finish the procedure.



To be continued....

Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	0 – 23 (1 – 12), [5] [Initial: 0 (0:00)]
CLOCK M Minute adjustment	00 – 59, [5] [Initial: 00 (0:00)]
24H/12H Time display mode	12H \rightleftharpoons 24H, [5] [Initial: 24H]
CLK ADJ *1 Clock adjustment	AUTO : [Initial]; The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. OFF : Cancels.
AF-REG *1 Alternative frequency/ regionalization reception	When the received signals from the current FM RDS station or DAB service become weak... AF : [Initial]; Switches to another station (or service) (the programme may differ from the one currently received), [9, 17]. • The AF indicator lights up. AF REG : Switches to another station broadcasting the same programme. • The AF and REG indicators light up. OFF : Cancels (not selectable when “DAB AF” is set to “AF ON”).
PTY-STBY *1 PTY standby	Activates PTY Standby Reception with one of the PTY codes, [8]. OFF [Initial] → PTY codes, [9] → (back to the beginning)
TA VOL *1 Traffic announcement volume	[Initial: VOL 15]; VOL 00 — VOL 30 or 50*2, [8, 21]
P-SEARCH *1 Programme search	ON : Using the AF data, the unit tunes in to another frequency broadcasting the same programme as the original preset RDS station is if the preset station signals are not sufficient. OFF : [Initial]; Cancels.

*1 Only for FM RDS stations.

*2 Depends on the amplifier gain control.

Indications	Selectable settings, [reference page]
DAB AF *3 Alternative frequency reception	AF ON : [Initial]; Traces the programme among DAB services and FM RDS stations, [9, 17]. AF OFF : Cancels.
DAB VOL *3 DAB volume adjustment	You can adjust the volume level (VOL -12 — VOL +12) of DAB tuner to match the FM sound level and store it in memory. [Initial: VOL 00]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
TEL Telephone muting	MUTING 1/MUTING 2 : Select either one which mutes the sounds while using a cellular phone. OFF : [Initial]; Cancels.
SCROLL *4 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
EXT IN *5 External input	CHANGER : [Initial]; To use a JVC CD changer, [9], an Apple iPod or a JVC D. player, [17]. EXT IN : To use any other external component than the above, [19].
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [11]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50
IF BAND Intermediate frequency filter	AUTO : [Initial]; Increases the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.) WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

*3 Displayed only when DAB tuner is connected.

*4 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*5 Displayed only when one of the following sources is selected—FM, AM, or DISC.

DAB tuner operations

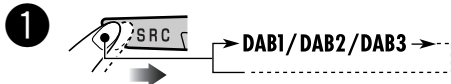
What is DAB system?

Digital Audio Broadcasting (DAB) can deliver digital quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. When transmitting, DAB combines several programmes (called “services”) to form one “ensemble.” In addition, each “service”—called “primary service”—can also be divided into its components (called “secondary service”). A typical ensemble has six or more programmes (services) broadcast at the same time. By connecting the DAB tuner, this unit can do the following:

- Tracing the same programme automatically —Alternative Frequency Reception (see “DAB AF” on page 15).

It is recommended to use DAB tuner KT-DB1000 with your unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied for your DAB tuner.



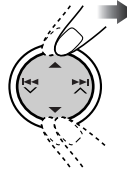
3 Start searching for an ensemble.



When an ensemble is received, searching stops.

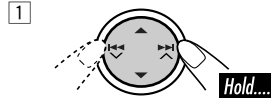
To stop searching, press the same button again.

4 Select a service (either primary or secondary) to listen to.

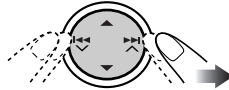


To tune in to an ensemble manually

Start searching for an ensemble, as in step 3 on the left column.



2 Select the desired ensemble frequencies.

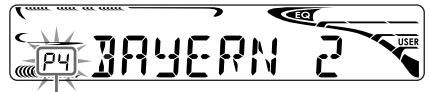
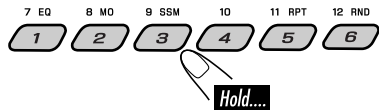


Storing DAB services in memory

You can preset six DAB services (primary) for each band.

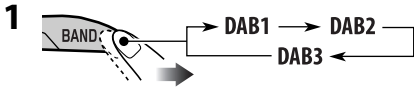
1 Select a service you want (see steps 1 to 4 on the left column).

2 Select the preset number (1 – 6) you want to store into.

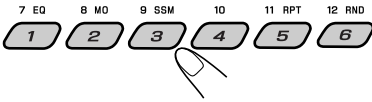


Preset number flashes for a while.

Tuning in to a preset DAB service



2 Select the preset DAB service (primary) number (1 – 6) you want.



If the selected primary service has some secondary services, pressing the same button again will tune in to the secondary services.

Tracing the same programme— Alternative Frequency Reception

You can keep listening to the same programme by activating the Alternative Frequency Reception.

- **While receiving a DAB service:**
When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same programme.
- **While receiving an FM RDS station:**
When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

When shipped from the factory, Alternative Frequency Reception is activated.

To deactivate the Alternative Frequency Reception, see page 14 and 15.

To change the display information while tuning to an ensemble



Service name → Ensemble name → Channel number → Frequency → Clock → (back to the beginning)

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player: Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

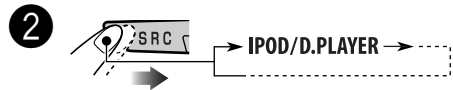
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

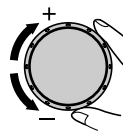
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 15.





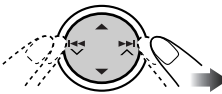
Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 Adjust the volume.



To be continued....

- 4 Adjust the sound as you want.** (See pages 12 and 13.)
- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

Selecting a track from the menu

- 1 Enter the main menu.**



Now the ▲/▼/◀◀▼/▶▶▶▲ buttons work as the menu selecting buttons*3.

- 2 Select the desired menu.**



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

- 3 Confirm the selection.**



To move back to the previous menu, press ▲.

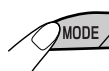
- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.
- Holding ◀◀▼/▶▶▶▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

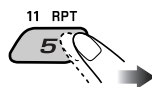
Selecting the playback modes

1



- 2 Select your desired playback mode.**

■ Repeat play



ONE RPT (RPT)

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

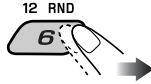
ALL RPT (RPT)

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBM RND*⁴

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*⁴ For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check other information while listening to an iPod or a D. player

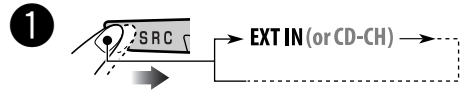


Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

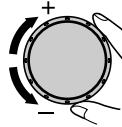
For listening to the iPod or D. player, refer to pages 17 – 19.



If “EXT IN” does not appear, see page 15 and select the external input (“EXT IN”).

- 2 Turn on the connected component and start playing the source.

- 3 Adjust the volume.



- 4 Adjust the sound as you want. (See pages 12 and 13.)

To check the clock time while listening to an external component

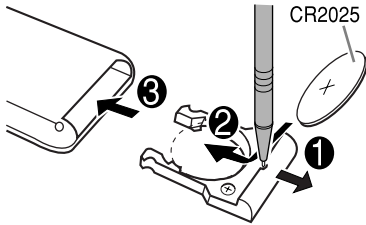


EXT IN ↔ Clock

Remote controller — RM-RK60

This unit can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK60 with your unit.

Installing the lithium coin battery (CR2025)

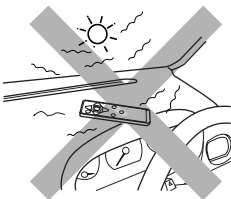


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

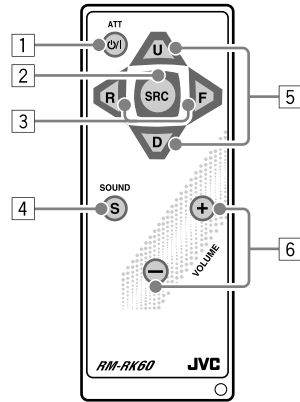
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



- 1 **⏻/⏪ ATT (standby/on attenuator) button**
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
- 2 **SRC (source) button**
 - Selects the source.
- 3 **R (reverse) / F (forward) buttons**
 - Searches for stations (or services) if pressed briefly.
 - Searches for ensembles if pressed and held.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an Apple iPod or a JVC D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D (down) to confirm the selection.)
 - Skips 10 items at a time if pressed and held.
- 4 **SOUND button**
 - Selects the sound mode (C-EQ: custom equalizer).

- 5 U (up) / D (down) buttons
- Changes the FM/AM/DAB bands with U (up).
 - Changes the preset stations with D (down).
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an iPod or a D. player:
 - Pauses/stops or resumes playback with D (down).
 - Enter the main menu with U (up). (Now U/D/R/F work as the menu selecting buttons.)*

- 6 VOLUME - /+ buttons
- Adjusts the volume level.

* U (up) : Returns to the previous menu.
D (down) : Confirms the selection.

The unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.

To be continued...

- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 14.)
- If you want to know more about RDS, visit «<http://www.rds.org.uk>».

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc had been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.

- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name

- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, AT-RAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

DAB tuner operations

- Only primary DAB services can be presetted even when you store a secondary service.
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- The text information may not be displayed correctly.
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod or D. player and the unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 15). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

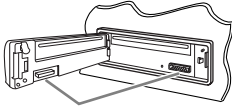
For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

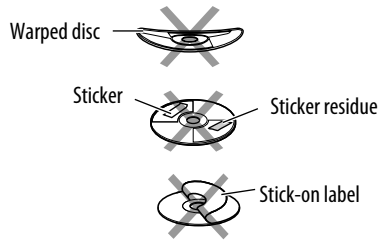
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections.
FM/AM	• SSM automatic presetting does not work.	Reset the unit (see page 2).
	• Static noise while listening to the radio.	Store stations manually. Connect the aerial firmly.

	Symptoms	Remedies/Causes
Disc playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc can be neither played back nor ejected. 	<ul style="list-style-type: none"> • Unlock the disc (see page 11). • Eject the disc forcibly (see page 2).
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a playable disc into the loading slot.
MP3/WMA playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	<ul style="list-style-type: none"> • Noise is generated. 	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).

To be continued...

	Symptoms	Remedies/Causes
DAB	<ul style="list-style-type: none"> • “noSIGNAL” appears on the display. 	Move to an area with stronger signals.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the DAB tuner correctly and reset the unit (see page 2).
	<ul style="list-style-type: none"> • “ANTENANG” appears on the display. 	Check the cords and connections.
	<ul style="list-style-type: none"> • The DAB tuner does not work at all. 	Reconnect this unit and the DAB tuner correctly and reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 18).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminals:

CD changer, Steering wheel remote input

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: (MW) 522 kHz to 1 620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio) Decoding Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

**Vous avez des PROBLÈMES de
fonctionnement?**

Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

JVC



EN, FR

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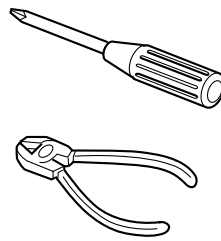
1105DTSMDTJEIN

JVC KD-G421

Installation/Connection Manual

Manuel d'installation/raccordement

GET0352-010A
[EX/EU]



1105DTSMDTJEIN
EN, FR
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

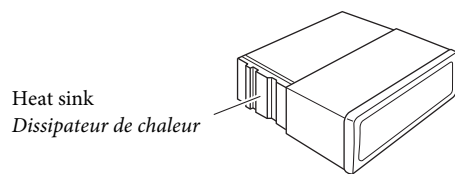
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 15 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.

AVERTISSEMENTS

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

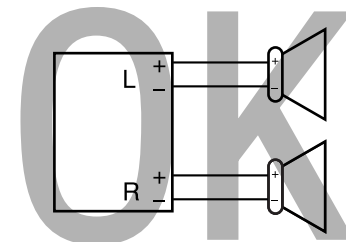
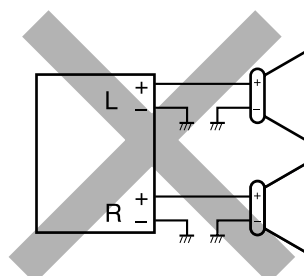
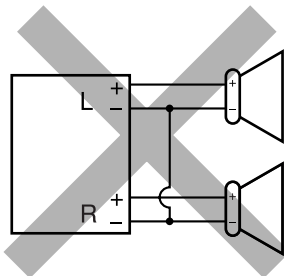
- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.
- Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre **4 Ω et 8 Ω**). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 15 du MANUEL D'INSTRUCTIONS).
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.
- Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



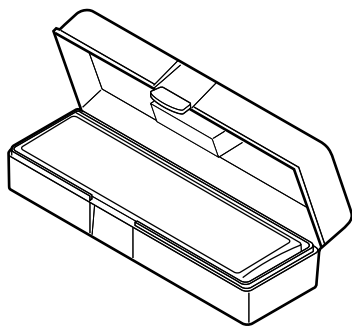
PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.

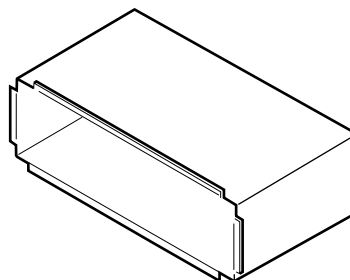
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

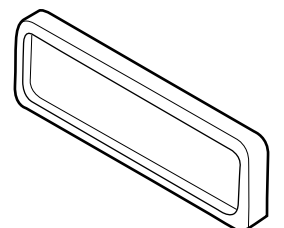
(A) / (B)
Hard case/Control panel
Etui de transport/Panneau de commande



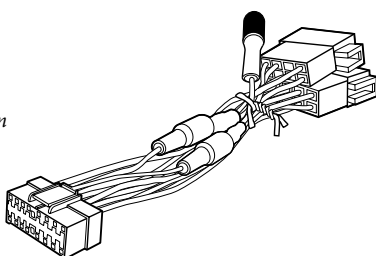
(C)
Sleeve
Manchon



(D)
Trim plate
Plaque d'assemblage



(E)
Power cord
Cordon d'alimentation



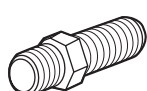
(F)
Washer (ø5)
Rondelle (ø5)



(G)
Lock nut (M5)
Ecrou d'arrêt (M5)



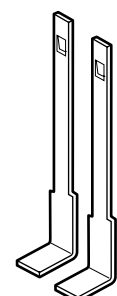
(H)
Mounting bolt (M5 × 20 mm)
Boulon de montage (M5 × 20 mm)



(I)
Rubber cushion
Amortisseur en caoutchouc



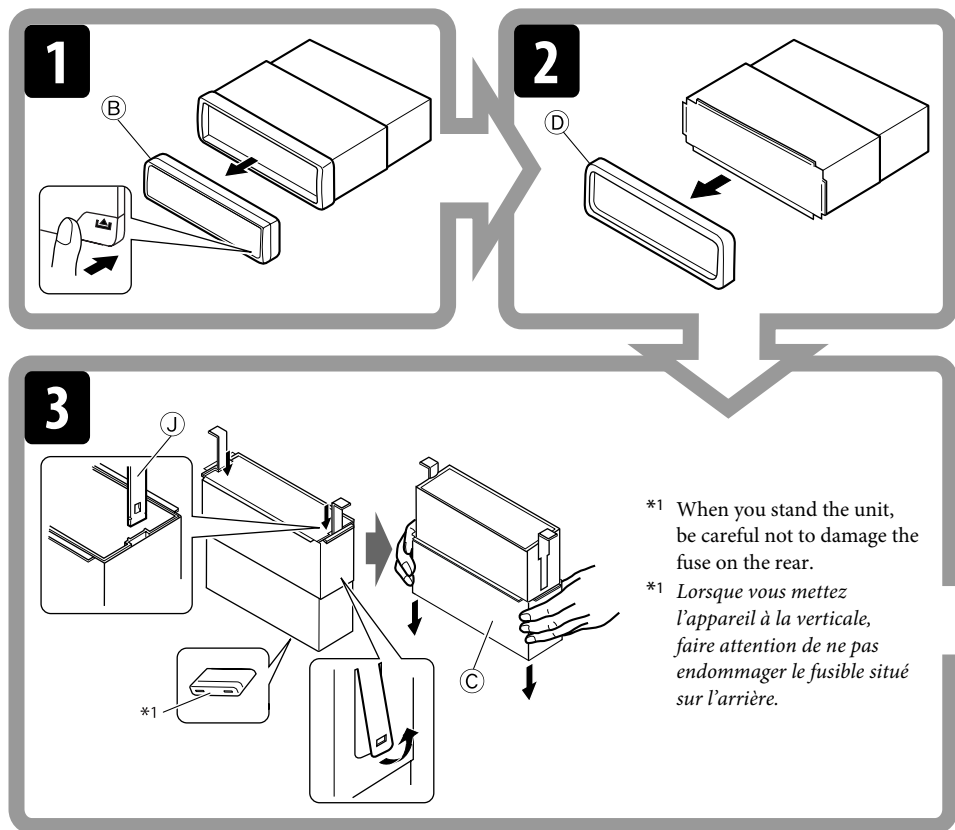
(J)
Handles
Poignées



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

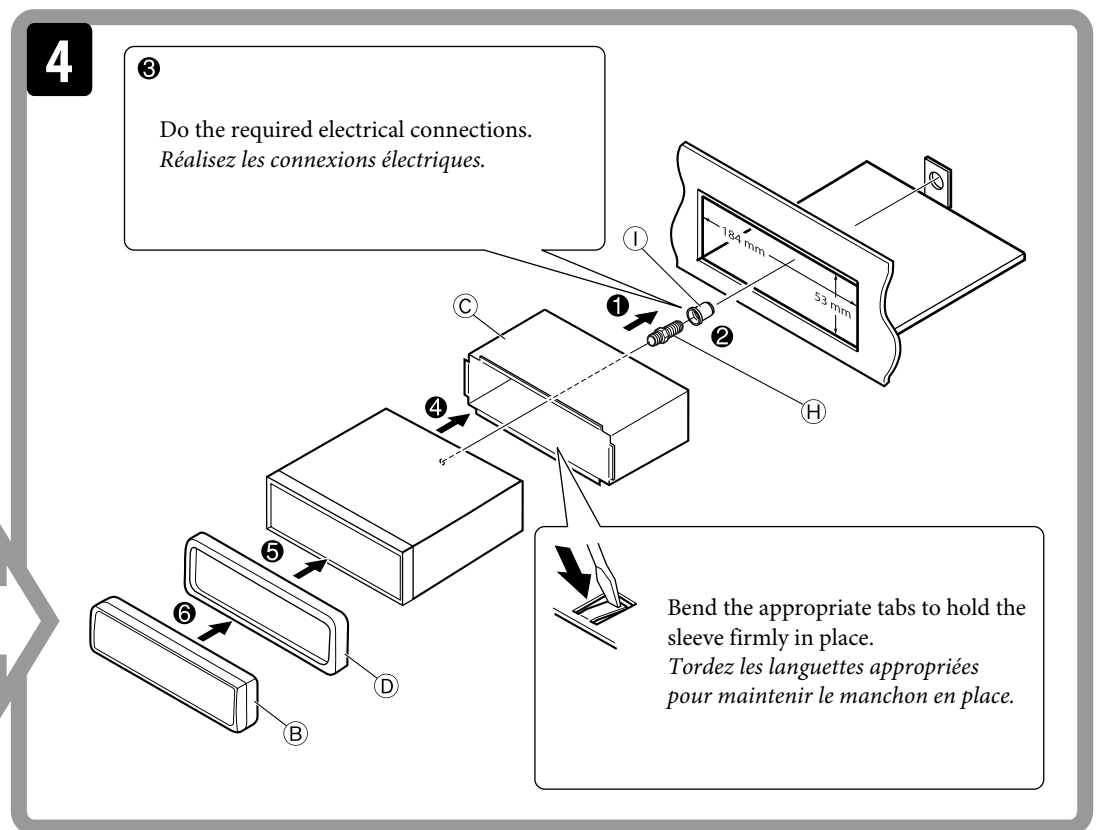
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

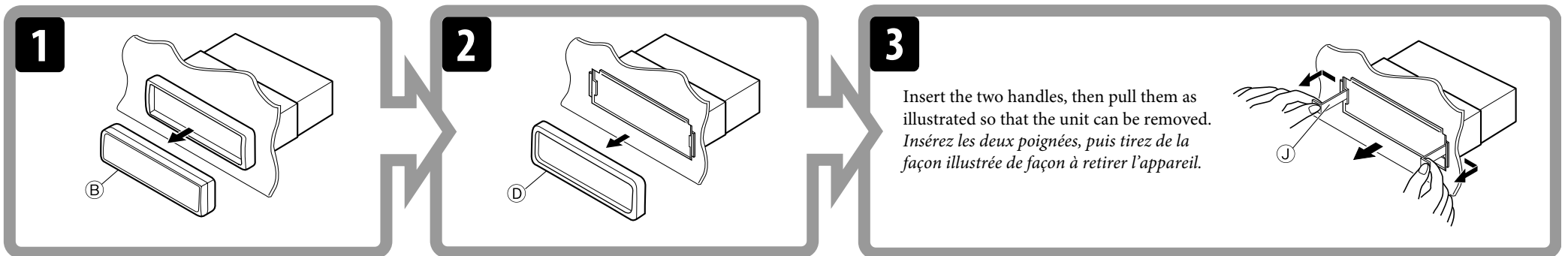
L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

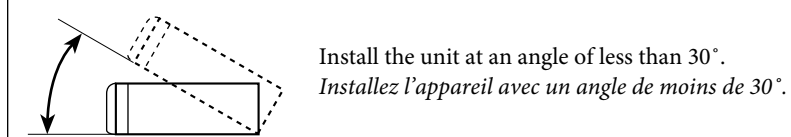
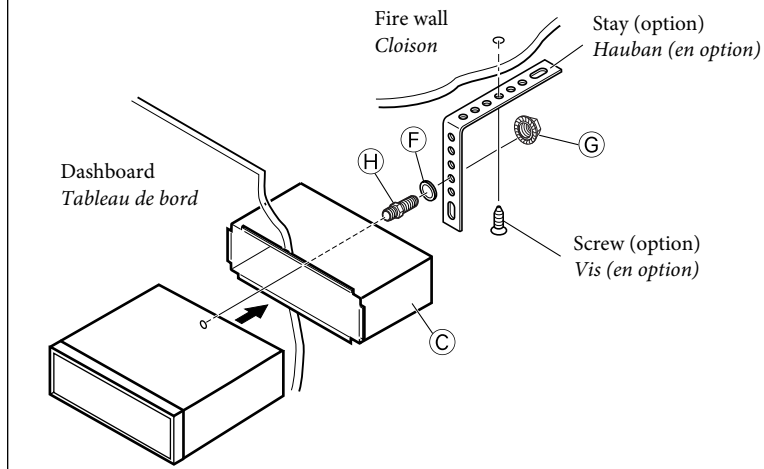


Removing the unit

Before removing the unit, release the rear section.

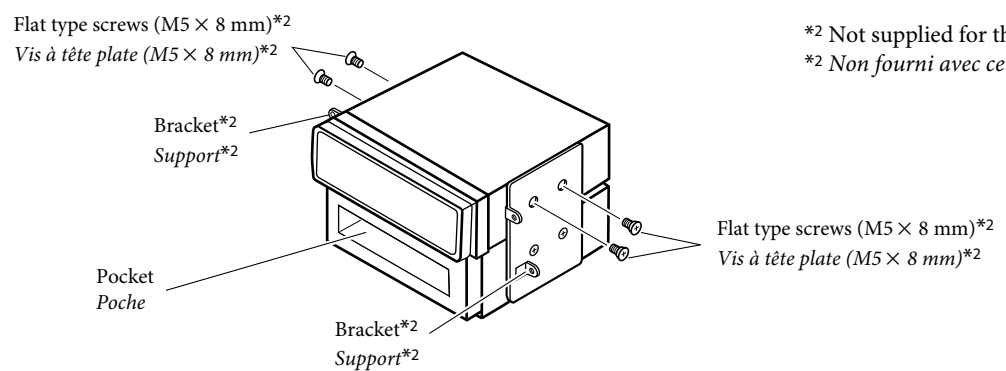


When using the optional stay / Lors de l'utilisation du hauban en option



When installing the unit without using the sleeve / Lors de l'installation de l'appareil sans utiliser de manchon

In a Toyota car for example, first remove the car radio and install the unit in its place. Dans une voiture Toyota, par exemple, retirez d'abord l'autoradio et installez l'appareil à sa place.



*2 Not supplied for this unit.
*2 Non fourni avec cet autoradio.

- Note** : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
- Remarque** : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.

TROUBLESHOOTING

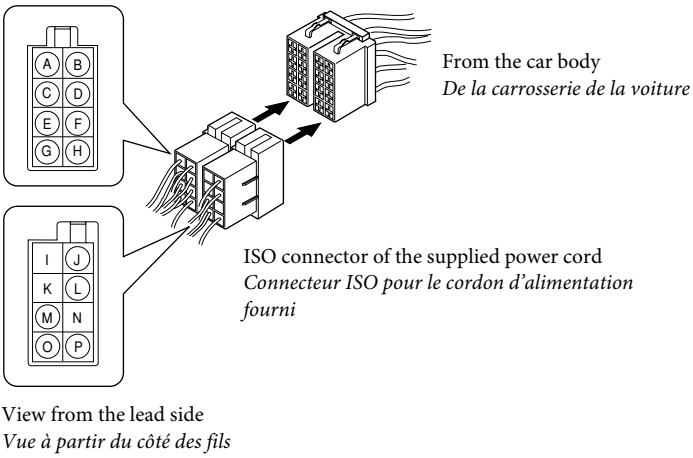
- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
 - * Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
 - * Le fil jaune est-elle raccordée?
- **Pas de son des enceintes.**
 - * Le fil de sortie d'enceinte est-il court-circuité?
- **Le son est déformé.**
 - * Le fil de sortie d'enceinte est-il à la masse?
 - * Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Interférence avec les sons.**
 - * La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?
- **L'appareil devient chaud.**
 - * Le fil de sortie d'enceinte est-il à la masse?
 - * Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Cet appareil ne fonctionne pas du tout.**
 - * Avez-vous réinitialisé votre appareil?

A If your car is equipped with the ISO connector / Si votre voiture est équipée d'un connecteur ISO

- Connect the ISO connectors as illustrated.
- Connectez les connecteurs ISO comme montré sur l'illustration.

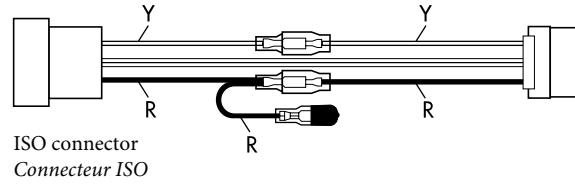


For some VW/Audi or Opel (Vauxhall) automobile / Pour certaine voiture VW/Audi ou Opel (Vauxhall)

You may need to modify the wiring of the supplied power cord as illustrated.

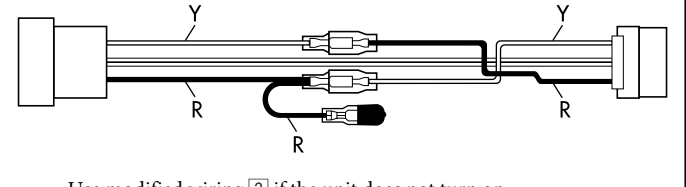
- Contact your authorized car dealer before installing this unit.
- Vous aurez peut-être besoin de modifier le câblage du cordon d'alimentation fourni comme montré sur l'illustration.
- Contactez votre revendeur automobile autorisé avant d'installer l'appareil.

Original wiring / Câblage original



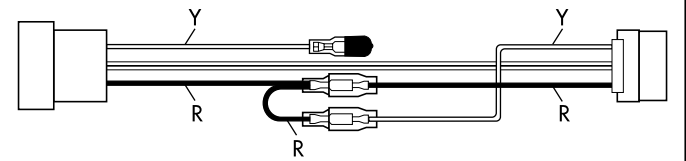
ISO connector / Connecteur ISO

Modified wiring [1] / Câblage modifié [1]



Use modified wiring [2] if the unit does not turn on. / Utilisez le câblage modifié [2] si l'appareil ne se met pas sous tension.

Modified wiring [2] / Câblage modifié [2]



Y: Yellow / Jaune
R: Red / Rouge

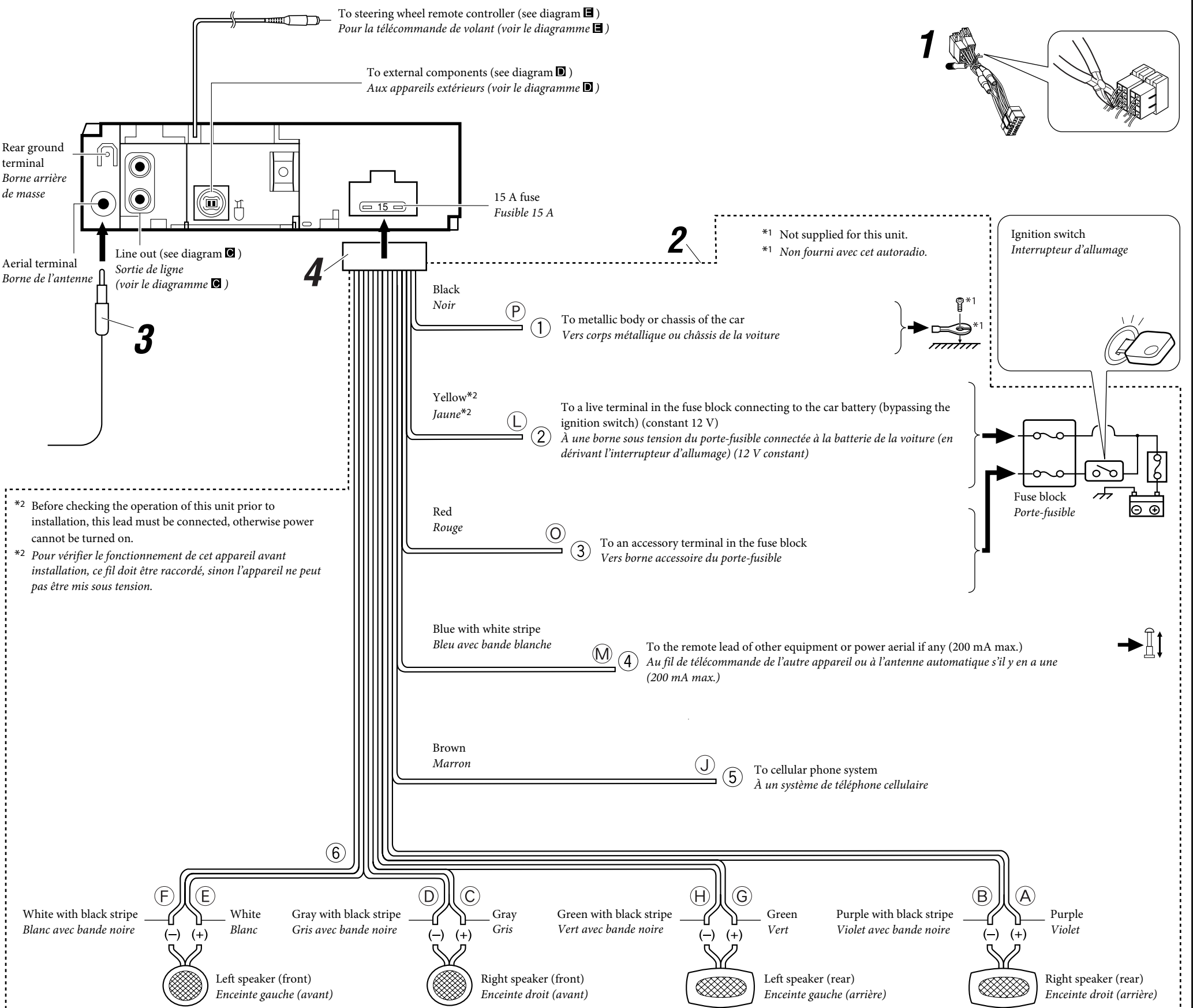
B Connections without using the ISO connectors / Connexions sans l'utilisation des connecteurs ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

- 1 Cut the ISO connector.
- 2 Connect the colored leads of the power cord in the order specified in the illustration below.
- 3 Connect the aerial cord.
- 4 Finally connect the wiring harness to the unit.

Avant de commencer la connexion: Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil. Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

- 1 Coupez le connecteur ISO.
- 2 Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.
- 3 Connectez le cordon d'antenne.
- 4 Finalement, connectez le faisceau de fils à l'appareil.



*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.

*1 Not supplied for this unit.
*1 Non fourni avec cet autoradio.

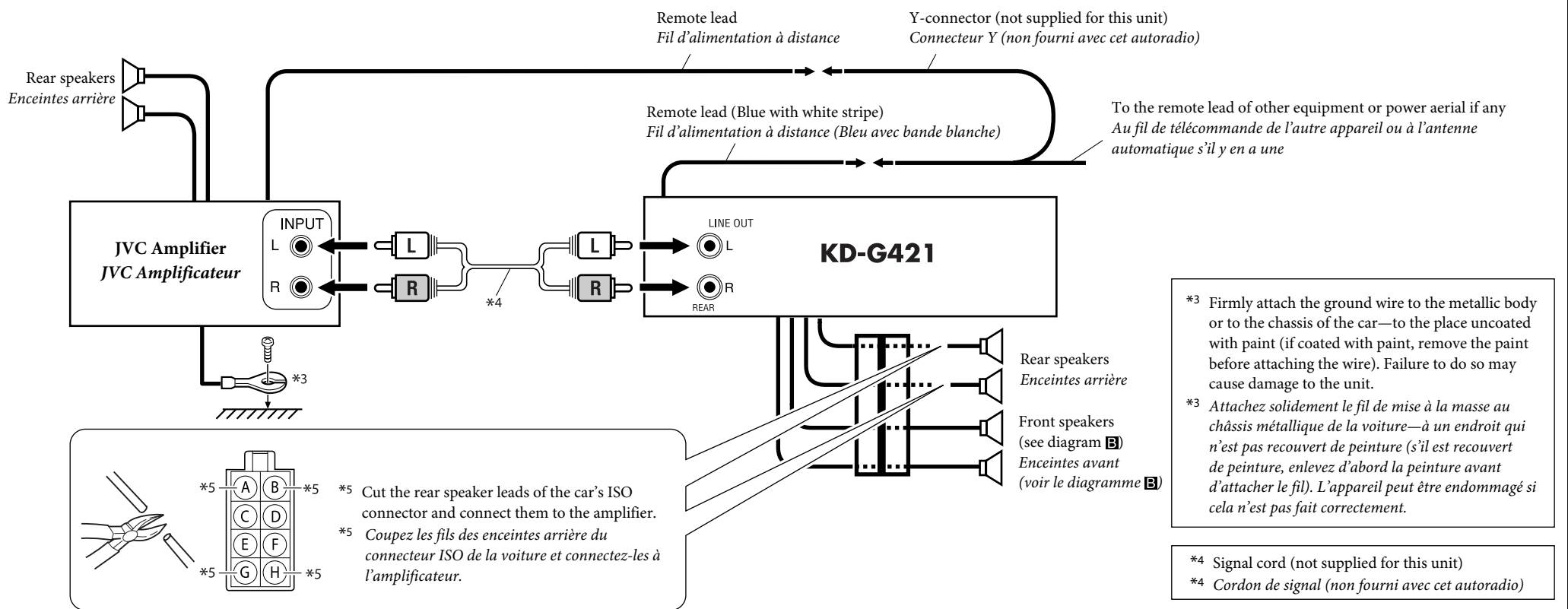
C Connecting the external amplifier / Connexion d'un amplificateur extérieur

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Vous pouvez connecter un amplificateur pour améliorer votre système autoradio.

- Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.
- **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**



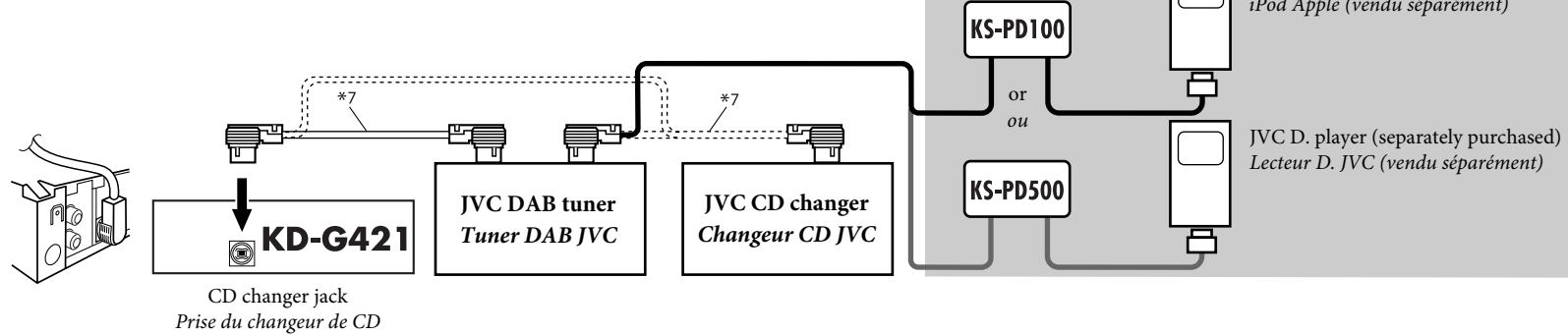
D Connecting the external components / Connexion des appareils extérieurs

CD changer, DAB tuner, Apple iPod®, or JVC D. player / Changeur de CD, tuner DAB, iPod Apple® ou lecteur D. JVC

- Set "CHANGER" for the external input setting (See page 15 of the INSTRUCTIONS.) / Choisissez "CHANGER" pour le réglage de l'entrée extérieure (Voir page 15 du MANUEL D'INSTRUCTIONS.)

You can connect these components in series as illustrated below. The iPod*6 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).
Vous pouvez connecter ces appareils en série comme montrée sur l'illustration. Le iPod*6 ou le lecteur D. peut être connecté en utilisant un adaptateur d'interface (non fourni)—KS-PD100 (pour iPod) ou KS-PD500 (pour le lecteur D.).

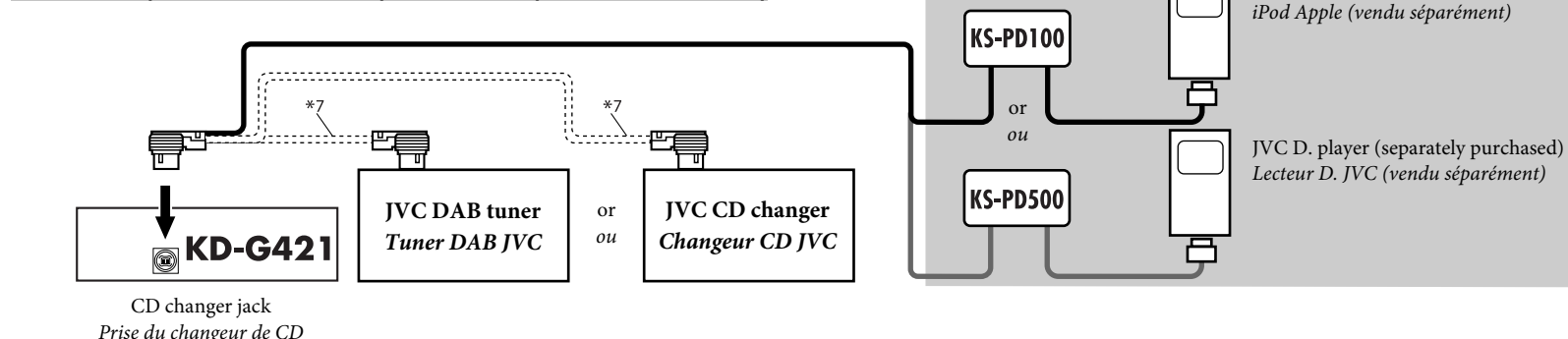
Connection 1 (integrated connection) / Connexion 1 (connexion intégrée)



CAUTION / PRECAUTION:

- Before connecting the external components, make sure that the unit is turned off.
- Avant de connecter les appareils extérieurs, assurez-vous que l'appareil est hors tension.

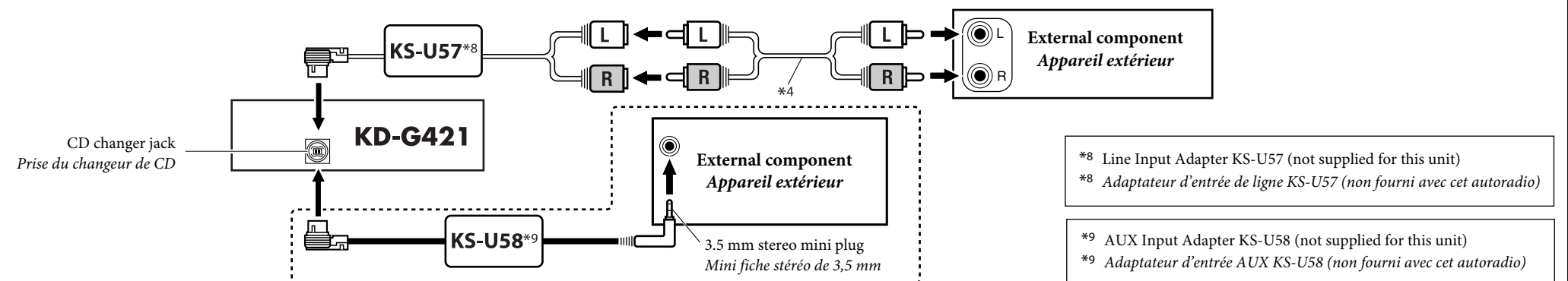
Connection 2 (alternative connection) / Connexion 2 (connexion alternative)



*6 iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
*6 iPod est une marque de commerce d'Apple Computer, Inc., enregistrée aux États-Unis et dans les autres pays.

Other external component / Autre appareil extérieur

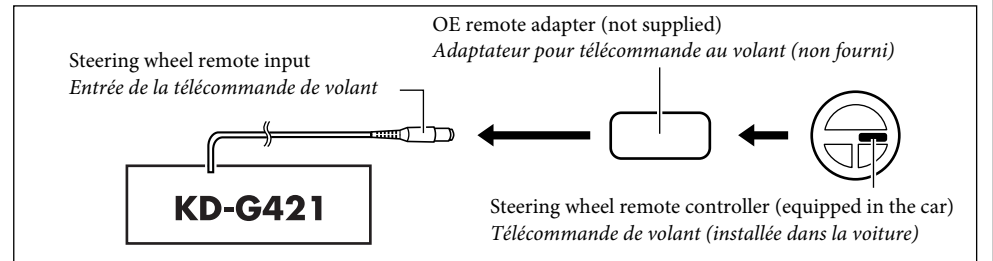
- Set "EXT IN" for the external input setting (See page 15 of the INSTRUCTIONS.) / Choisissez "EXT IN" pour le réglage de l'entrée extérieure (Voir page 15 du MANUEL D'INSTRUCTIONS.)



E Connecting to the steering wheel remote controller / Connexion de la télécommande de volant

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.

Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant JVC (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails.



JVC



ENGLISH

DEUTSCH

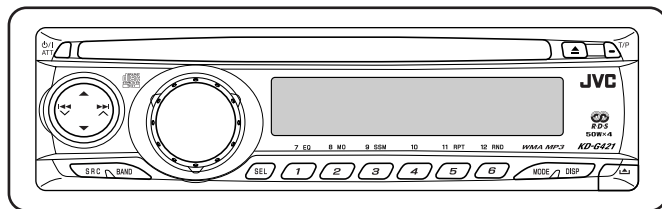
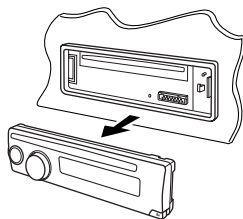
РУССКИЙ

CD RECEIVER

CD-RECEIVER

РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-G421



WMA

MP3



For canceling the display demonstration, see page 5.

Zum Abbrechen der Displaydemonstration siehe Seite 5.

Информацию об отмене демонстрации функций дисплея см. на стр. 5.

For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

Указания по установке и выполнению соединений приводятся в отдельной инструкции.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ

GET0352-006A
[EY]



Thank you for purchasing a JVC product.

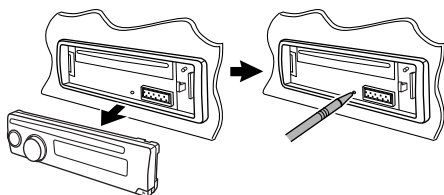
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (e)	VARNING: Synlig och osynlig laserstråling när skåpet öppnas och spärren är urkopplad. Beträkta ej strålen. (d)	VARO: Avtäckta på svingelkåpets omlutning eller viallensäe olet alltime näkyvälle ja näkyvättömälle laserstråleille. Vältä säteen kohdistumista suoraan itseesi. (f)
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How to reset your unit



- Your preset adjustments will also be erased.

How to forcibly eject a disc

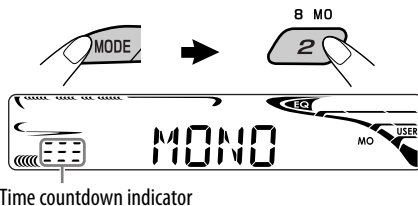


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

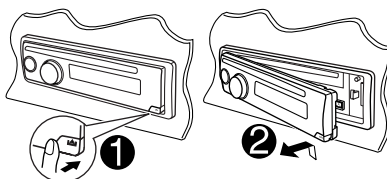
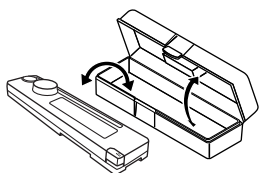
Ex.: When number button 2 works as MO (monaural) button.



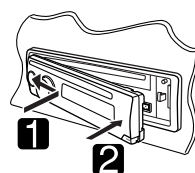
To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

How to detach/attach the control panel

Detaching...





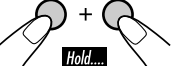


Attaching...






How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 21 – 23).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

CONTENTS

Control panel	4
Getting started	5
Basic operations.....	5
Radio operations	6
FM RDS operations	7
Searching for your favorite FM RDS programme ...	7
Disc operations	9
Playing a disc in the unit	9
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iPod®/D. player operations	17
Other external component operations ...	19
Remote controller — RM-RK60	20
More about this unit	21
Maintenance	24
Troubleshooting	24
Specifications	27

For safety...

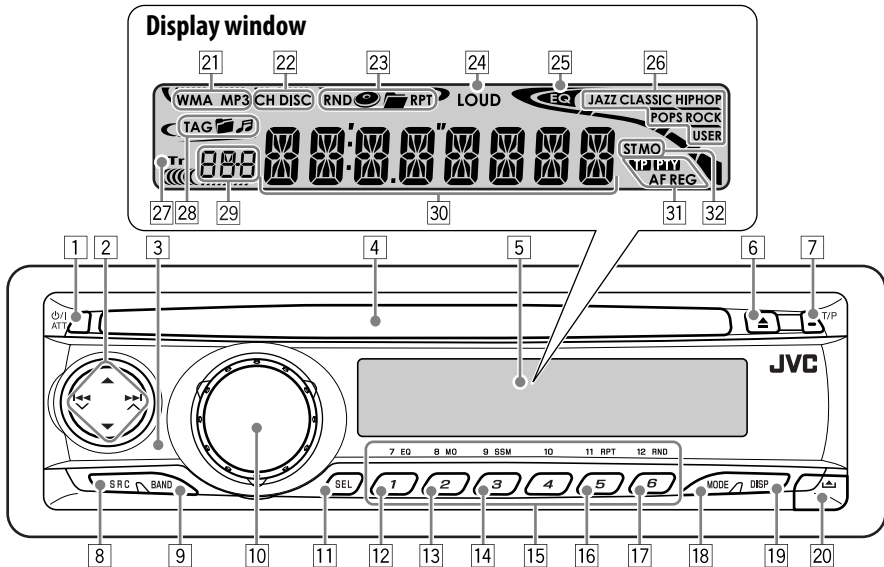
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification



- | | | | |
|--|---|-----------------------|---|
| 1 | ⏻/ATT (standby/on attenuator) button | 18 | MODE button |
| 2 | ▲ (up) / ▼ (down) and ◀▶ buttons | 19 | DISP (display) button |
| 3 | Remote sensor | 20 | ⏻ (control panel release) button |
| <ul style="list-style-type: none"> You can control this unit with an optionally purchased remote controller. For details, see page 20. DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting). | | | |
| 4 | Loading slot | Display window | |
| 5 | Display window | 21 | Disc type indicators—WMA, MP3 |
| 6 | ▲ (eject) button | 22 | Playback source indicators—
CH: Lights up only when CD-CH is selected as the playback source.
DISC: Lights up for the built-in CD player. |
| 7 | T/P (traffic programme/programme type) button | 23 | Playback mode / item indicators—
RND (random), (disc), (folder), RPT (repeat) |
| 8 | SRC (source) button | 24 | LOUD (loudness) indicator |
| 9 | BAND button | 25 | EQ (equalizer) indicator |
| 10 | Control dial | 26 | Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER |
| 11 | SEL (select) button | 27 | Tr (track) indicator |
| 12 | EQ (equalizer) button | 28 | Disc information indicators—TAG (ID3 Tag), (folder), (track/file) |
| 13 | MO (monaural) button | 29 | Source display / Volume level indicator |
| 14 | SSM (Strong-station Sequential Memory) button | 30 | Main display |
| 15 | Number buttons | 31 | RDS indicators—TP, PTY, AF, REG |
| 16 | RPT (repeat) button | 32 | Tuner reception indicators—ST (stereo), MO (monaural) |
| 17 | RND (random) button | | |

Getting started

Basic operations

- 1** Turn on the power.



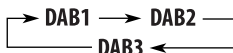
* You cannot select these sources if they are not ready or not connected.



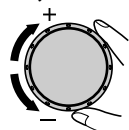
- For FM/AM tuner



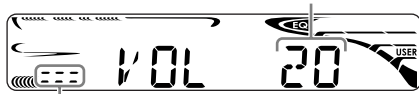
- For DAB tuner



- 4** Adjust the volume.



Volume level appears.



Volume level indicator

Caution on volume setting:

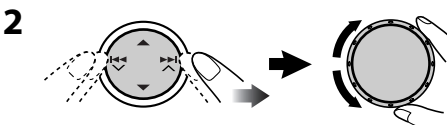
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

- 5** Adjust the sound as you want. (See pages 12 and 13.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	

Basic settings

- See also “General settings — PSM” on pages 13 – 15.



- 1** Canceling the display demonstrations

Select “DEMO,” then “DEMO OFF.”

- 2** Setting the clock

Select “CLOCK H” (hour), then adjust the hour.

Select “CLOCK M” (minute), then adjust the minute.

Select “24H/12H,” then “24H” (hour) or “12H” (hour).

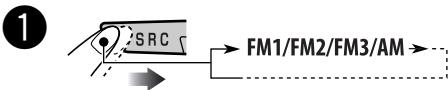
- 3** Finish the procedure.



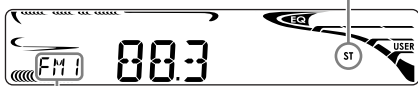
To check the current clock time when the power is turned off



Radio operations



Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

3 Start searching for a station.

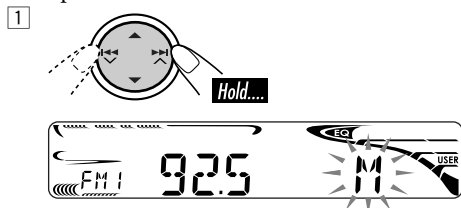


When a station is received, searching stops.

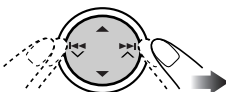
To stop searching, press the same button again.

To tune in to a station manually

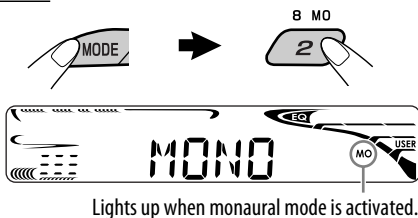
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

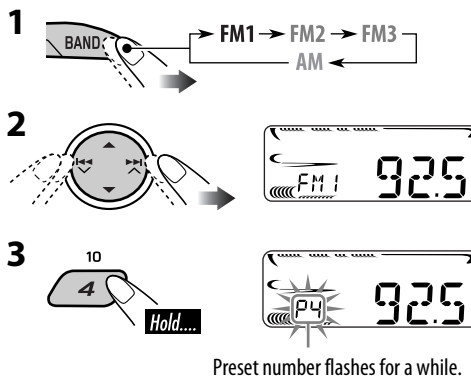


"SSM" flashes, then disappears when automatic presetting is over.

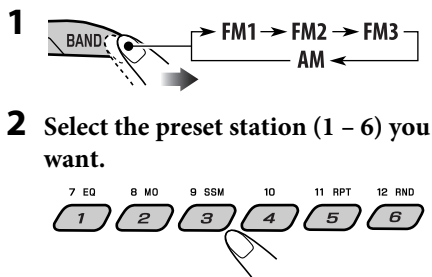
Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.



Listening to a preset station



To check the current clock time while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 9.



FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

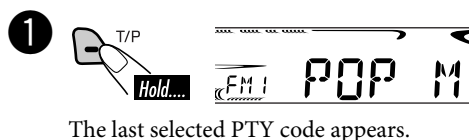
By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8 and 14)
- Tracing the same programme automatically —Network-Tracking Reception (see page 9)
- Programme Search (see page 14)

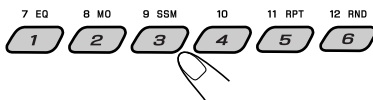
Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

- To store your favorite programme types, see page 8.

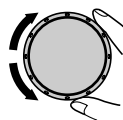


- 2 Select one of your favorite preset programme types.



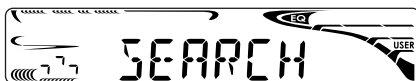
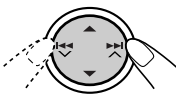
or

Select one of the PTY codes (see page 9).



To be continued....

- 3** Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

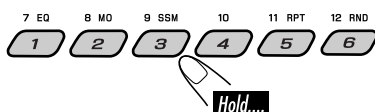
Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

- Select a PTY code (see page 7).
- Select the preset number (1 – 6) you want to store into.



Ex.: When "ROCK M" is selected

- Repeat steps 1 and 2 to store other PTY codes into other preset numbers.
- Finish the procedure.



Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 14).

To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception



The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 14.

The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 14). The PTY indicator goes off.

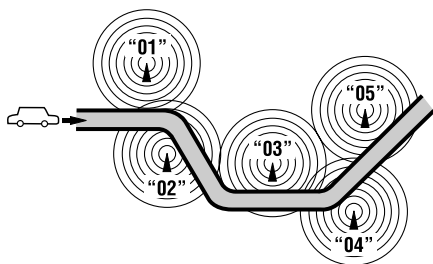
Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see “AF-REG” on page 14.

Programme A broadcasting on different frequency areas (01 – 05)



To check the current clock time while listening to an FM RDS station



Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

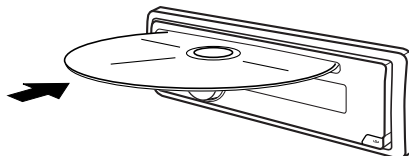
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc operations

Playing a disc in the unit

All tracks will be played repeatedly until you change the source or eject the disc.



To stop play and eject the disc

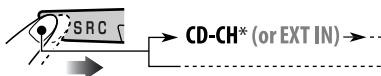


Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

- Ejecting the magazine will also stop playing.

1

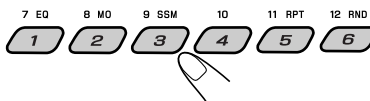


* If you have changed the external input setting to “EXT IN” (see page 15), you cannot select the CD changer.

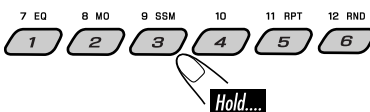
2

Select a disc.

For disc number from 01 – 06:



For disc number from 07 – 12:



To be continued....

About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track




To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

For MP3 discs:  

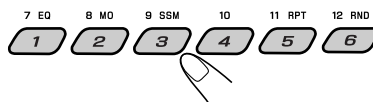
For WMA discs: 



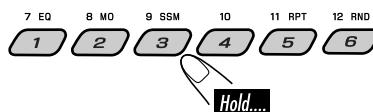
To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly



To select a number from 01 – 06:

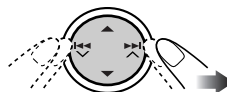


To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

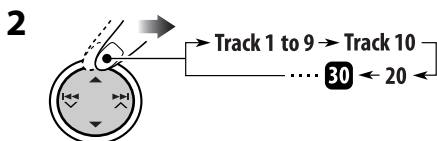
■ Skipping tracks quickly during play



**Only possible on JVC
MP3-compatible CD changer**

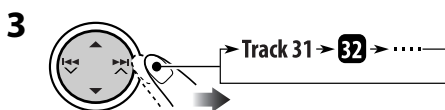
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing a track whose number is a single digit (1 to 9)



Each time you press the button, you can skip 10 tracks.

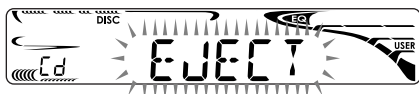
- After the last track, the first track will be selected and vice versa.



■ Prohibiting disc ejection



You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

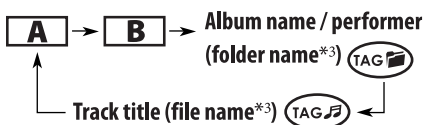


■ While playing an audio CD or a CD Text

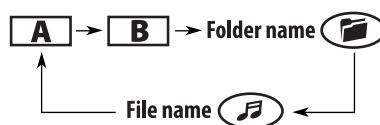


■ While playing an MP3 or a WMA*2 disc

- When "TAG DISP" is set to "TAG ON" (see page 15)



- When "TAG DISP" is set to "TAG OFF"



A : Elapsed playing time with the current track number

B : Clock with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

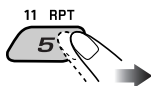
Selecting the playback modes

You can use only one of the following playback modes at a time.



2 Select your desired playback mode.

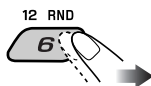
Repeat play



Mode	Plays repeatedly
------	------------------

- TRK RPT** : The current track.
- FLDR RPT***1 : All tracks of the current folder.
- DISC RPT***2 : All tracks of the current disc.
- RPT OFF** : Cancels.

Random play



Mode	Plays at random
------	-----------------

- FLDR RND***1 : All tracks of the current folder, then tracks of the next folder and so on.
- DISC RND** : All tracks of the current disc.
- MAG RND***2 : All tracks of the inserted discs.
- RND OFF** : Cancels.

*1 Only while playing an MP3 or a WMA disc.

*2 Only while playing discs in the CD changer.

Sound adjustments

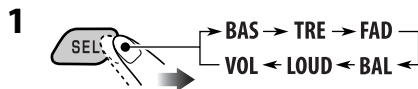
You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).

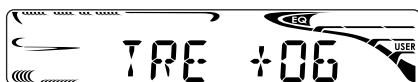
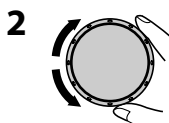


Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

Adjusting the sound

You can adjust the sound characteristics to your preference.





Ex.: When "TRE" is selected

Indication [Range]

BAS*¹ (bass)

Adjust the bass. [-06 to +06]

TRE*¹ (treble)

Adjust the treble. [-06 to +06]

FAD*² (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*¹ (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

VOL (volume)

Adjust the volume. [00 to 30 or 50*³]

*¹ When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*² If you are using a two-speaker system, set the fader level to "00."

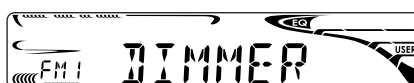
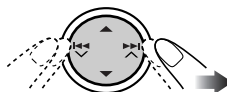
*³ Depending on the amplifier gain control setting. (See page 15 for details.)

General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.

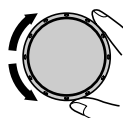


2 Select a PSM item.



Ex.: When "DIMMER" is selected

3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.

5 Finish the procedure.



To be continued....

Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	0 – 23 (1 – 12), [5] [Initial: 0 (0:00)]
CLOCK M Minute adjustment	00 – 59, [5] [Initial: 00 (0:00)]
24H/12H Time display mode	12H \rightleftharpoons 24H, [5] [Initial: 24H]
CLK ADJ *1 Clock adjustment	AUTO : [Initial]; The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. OFF : Cancels.
AF-REG *1 Alternative frequency/ regionalization reception	When the received signals from the current FM RDS station or DAB service become weak... AF : [Initial]; Switches to another station (or service) (the programme may differ from the one currently received), [9, 17]. • The AF indicator lights up. AF REG : Switches to another station broadcasting the same programme. • The AF and REG indicators light up. OFF : Cancels (not selectable when “DAB AF” is set to “AF ON”).
PTY-STBY *1 PTY standby	Activates PTY Standby Reception with one of the PTY codes, [8]. OFF [Initial] → PTY codes, [9] → (back to the beginning)
TA VOL *1 Traffic announcement volume	[Initial: VOL 15]; VOL 00 — VOL 30 or 50*2, [8, 21]
P-SEARCH *1 Programme search	ON : Using the AF data, the unit tunes in to another frequency broadcasting the same programme as the original preset RDS station is if the preset station signals are not sufficient. OFF : [Initial]; Cancels.

*1 Only for FM RDS stations.

*2 Depends on the amplifier gain control.

Indications	Selectable settings, [reference page]
DAB AF * ³ Alternative frequency reception	AF ON : [Initial]; Traces the programme among DAB services and FM RDS stations, [9, 17]. AF OFF : Cancels.
DAB VOL * ³ DAB volume adjustment	You can adjust the volume level (VOL -12 — VOL +12) of DAB tuner to match the FM sound level and store it in memory. [Initial: VOL 00]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
TEL Telephone muting	MUTING 1/MUTING 2 : Select either one which mutes the sounds while using a cellular phone. OFF : [Initial]; Cancels.
SCROLL * ⁴ Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
EXT IN * ⁵ External input	CHANGER : [Initial]; To use a JVC CD changer, [9], an Apple iPod or a JVC D. player, [17]. EXT IN : To use any other external component than the above, [19].
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [11]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50
IF BAND Intermediate frequency filter	AUTO : [Initial]; Increases the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.) WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

*³ Displayed only when DAB tuner is connected.

*⁴ Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*⁵ Displayed only when one of the following sources is selected—FM, AM, or DISC.

DAB tuner operations

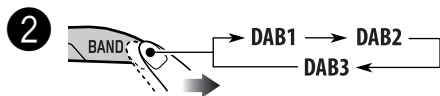
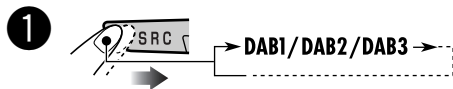
What is DAB system?

Digital Audio Broadcasting (DAB) can deliver digital quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. When transmitting, DAB combines several programmes (called “services”) to form one “ensemble.” In addition, each “service”—called “primary service”—can also be divided into its components (called “secondary service”). A typical ensemble has six or more programmes (services) broadcast at the same time. By connecting the DAB tuner, this unit can do the following:

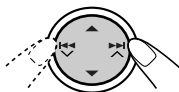
- Tracing the same programme automatically — Alternative Frequency Reception (see “DAB AF” on page 15).

It is recommended to use DAB tuner KT-DB1000 with your unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied for your DAB tuner.

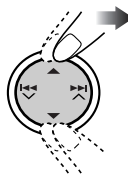


3 Start searching for an ensemble.



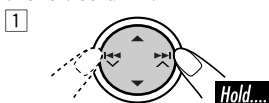
When an ensemble is received, searching stops.
To stop searching, press the same button again.

4 Select a service (either primary or secondary) to listen to.

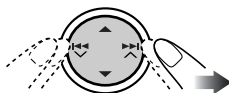


To tune in to an ensemble manually

Start searching for an ensemble, as in step 3 on the left column.



2 Select the desired ensemble frequencies.

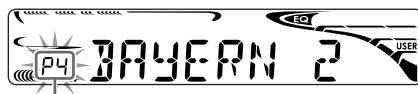
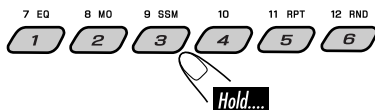


Storing DAB services in memory

You can preset six DAB services (primary) for each band.


1 Select a service you want (see steps 1 to 4 on the left column).

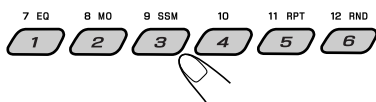
2 Select the preset number (1 – 6) you want to store into.



Preset number flashes for a while.

Tuning in to a preset DAB service

- 
- Select the preset DAB service (primary) number (1 – 6) you want.



If the selected primary service has some secondary services, pressing the same button again will tune in to the secondary services.

Tracing the same programme— Alternative Frequency Reception

You can keep listening to the same programme by activating the Alternative Frequency Reception.

- While receiving a DAB service:**
When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same programme.
- While receiving an FM RDS station:**
When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

When shipped from the factory, Alternative Frequency Reception is activated.

To deactivate the Alternative Frequency Reception, see page 14 and 15.

To change the display information while tuning to an ensemble



Service name → Ensemble name → Channel number → Frequency → Clock → (back to the beginning)

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player: Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.


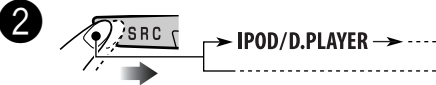
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

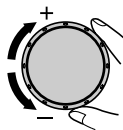
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 15.

- 
- 

Playback starts automatically from where it has been paused*1 or stopped*2 previously.



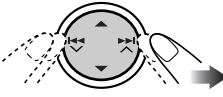
- Adjust the volume.



To be continued....

4 Adjust the sound as you want. (See pages 12 and 13.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

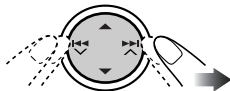
Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/|◀◀▼/▶▶|▲ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.
- Holding ◀◀▼/▶▶|▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

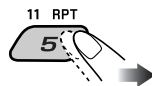
Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT (RPT)

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

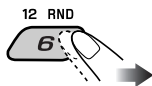
ALL RPT (RPT)

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBM RND*4  

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON 

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

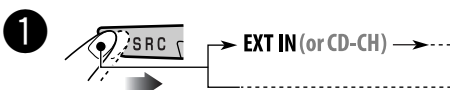
Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

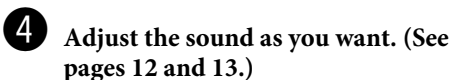
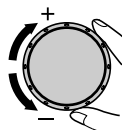
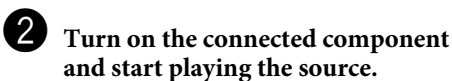
- For connection, see Installation/Connection Manual (separate volume).

For listening to the iPod or D. player, refer to pages 17 – 19.

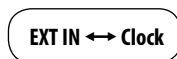
To check other information while listening to an iPod or a D. player



If “EXT IN” does not appear, see page 15 and select the external input (“EXT IN”).



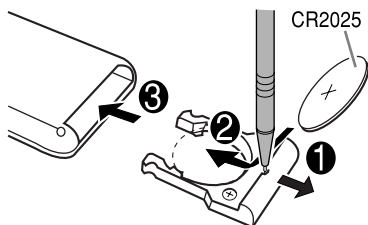
To check the clock time while listening to an external component



Remote controller — RM-RK60

This unit can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK60 with your unit.

Installing the lithium coin battery (CR2025)

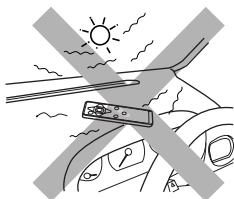


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

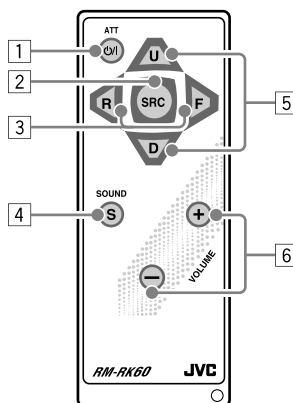
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



- 1 **ATT** (standby/on attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
- 2 **SRC** (source) button
 - Selects the source.
- 3 **R** (reverse) / **F** (forward) buttons
 - Searches for stations (or services) if pressed briefly.
 - Searches for ensembles if pressed and held.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an Apple iPod or a JVC D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D (down) to confirm the selection.)
 - Skips 10 items at a time if pressed and held.
- 4 **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).

- 5 U (up) / D (down) buttons
- Changes the FM/AM/DAB bands with U (up).
 - Changes the preset stations with D (down).
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an iPod or a D. player:
 - Pauses/stops or resumes playback with D (down).
 - Enter the main menu with U (up). (Now U/D/R/F work as the menu selecting buttons.)*
- 6 VOLUME – /+ buttons
- Adjusts the volume level.

* U (up) : Returns to the previous menu.
D (down) : Confirms the selection.

The unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.

To be continued....

- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 14.)
- If you want to know more about RDS, visit «<http://www.rds.org.uk>».
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc had been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.

- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
- Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name

- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

DAB tuner operations

- Only primary DAB services can be presetted even when you store a secondary service.
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- The text information may not be displayed correctly.
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod or D. player and the unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 15). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

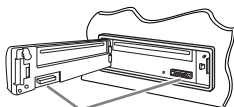
For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

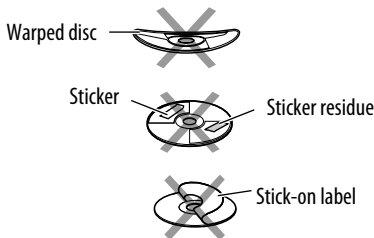
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.

	Symptoms	Remedies/Causes
Disc playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc can be neither played back nor ejected. 	<ul style="list-style-type: none"> • Unlock the disc (see page 11). • Eject the disc forcibly (see page 2).
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a playable disc into the loading slot.
MP3/WMA playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	<ul style="list-style-type: none"> • Noise is generated. 	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).

To be continued....

	Symptoms	Remedies/Causes
DAB	<ul style="list-style-type: none"> • “noSIGNAL” appears on the display. 	Move to an area with stronger signals.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the DAB tuner correctly and reset the unit (see page 2).
	<ul style="list-style-type: none"> • “ANTENANG” appears on the display. 	Check the cords and connections.
	<ul style="list-style-type: none"> • The DAB tuner does not work at all. 	Reconnect this unit and the DAB tuner correctly and reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 18).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminals:

CD changer, Steering wheel remote input

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: (MW) 522 kHz to 1 620 kHz

(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio) Decoding

Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Затруднения при эксплуатации?

Пожалуйста, перезагрузите Ваше устройство

Для получения информации о перезагрузке Вашего устройства
обратитесь на соответствующую страницу

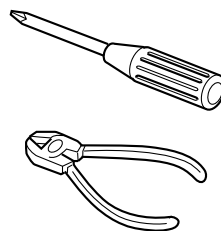
JVC



EN, GE, RU

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1105DTSMDTJEIN



ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

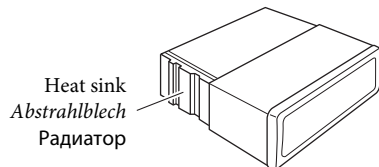
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 15 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



DEUTSCH

Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (-) Erdung ausgelegt**. Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.

WARNUNGEN

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird.

- **Sicherstellen, daß das Gerät nach dem Einbau a Chassis des Fahrzeugs geerdet wird.**

Hinweise:

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Es wird empfohlen, Lautsprecher mit einer Maximalleistung von mehr als 50 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von **4 Ω bis 8 Ω**). Wenn die Maximalleistung weniger als 50 W beträgt, stellen Sie „AMP GAIN“ anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 15 der BEDIENUNGSANLEITUNG).
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.

РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобильного специалиста JVC.

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

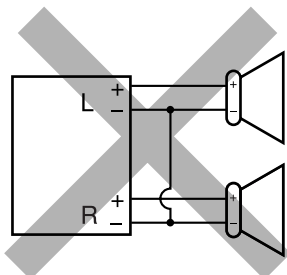
- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобильного специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 15).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

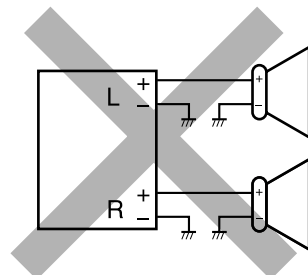
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



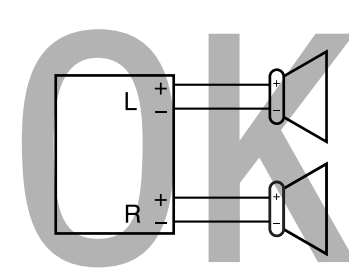
VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:

- Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.
- VOR dem Anschließen der Lautsprecherleitungen des Spannungsversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.



ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

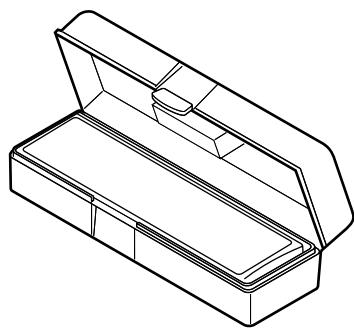
- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.



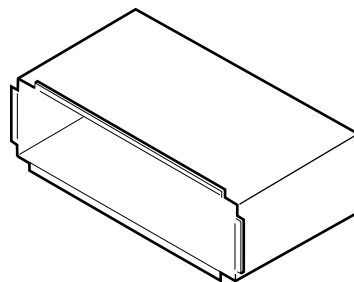
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

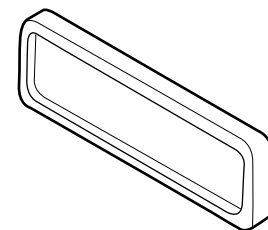
- (A) / (B)
Hard case/Control panel
Etui/Schalttafel
Жесткий футляр/панель управления



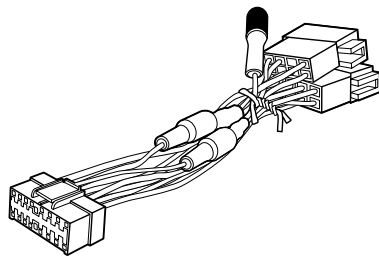
- (C)
Sleeve
Halterung
Муфта



- (D)
Trim plate
Frontrahmen
Декоративную панель



- (E)
Power cord
Stromkable
Кабель питания



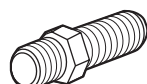
- (F)
Washer (ø5)
Unterlegscheibe (ø5)
Шайба (нь5)



- (G)
Lock nut (M5)
Sicherungsmutter (M5)
Фиксирующая гайка (M5)



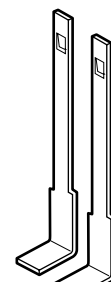
- (H)
Mounting bolt (M5 × 20 mm)
Befestigungsschraube (M5 × 20 mm)
Крепежный болт (M5 × 20 мм)



- (I)
Rubber cushion
Gummipuffer
Резиновый чехол



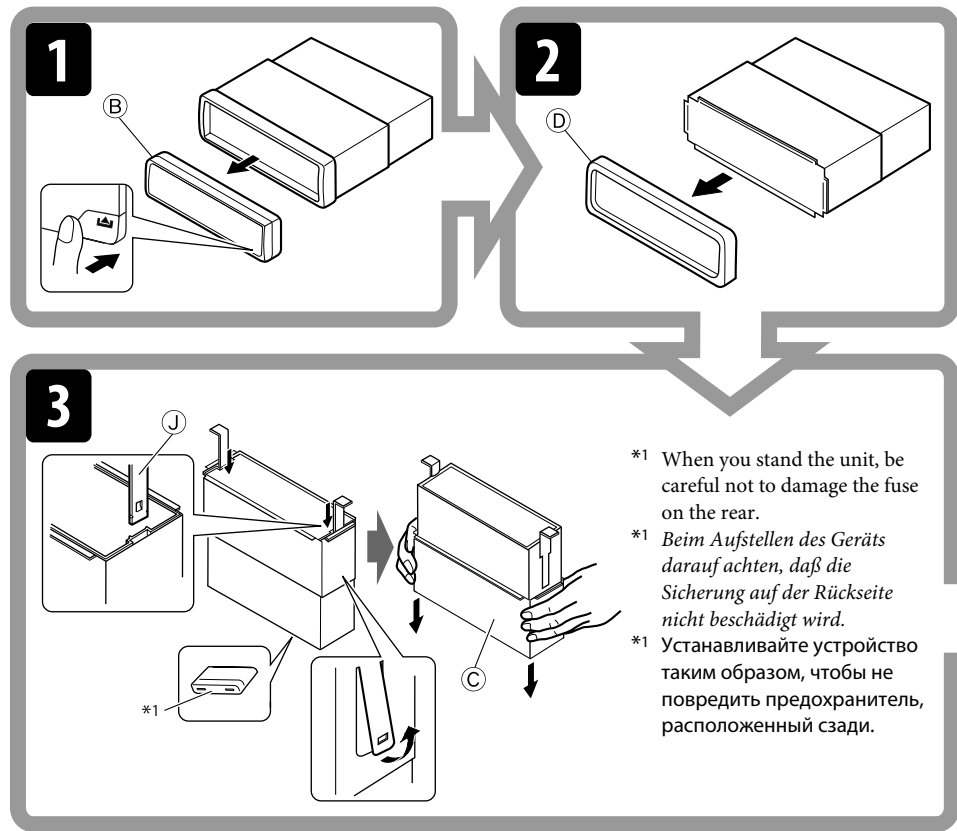
- (J)
Handles
Griffe
Рычаги



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



- *1 When you stand the unit, be careful not to damage the fuse on the rear.
- *1 Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.
- *1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.

EINBAU (IM ARMATURENBRETT)

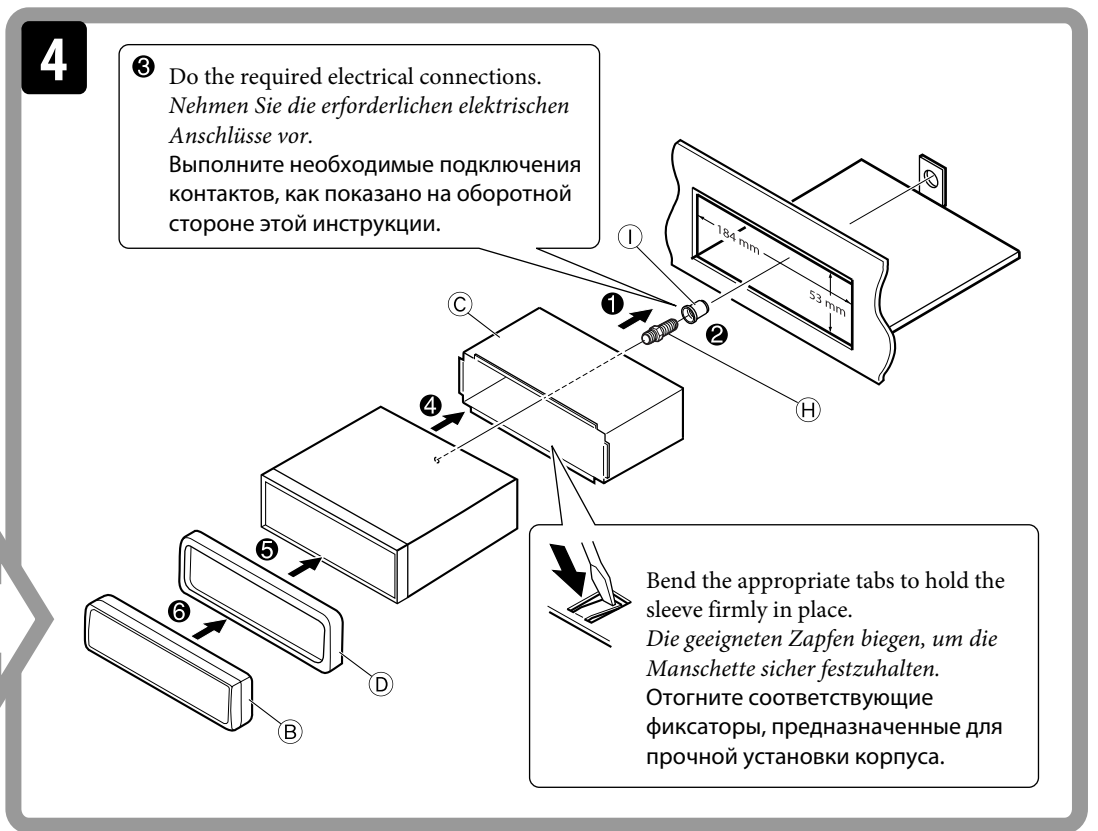
Die folgende Abbildung zeigt einen typischen Einbau. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.

- Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

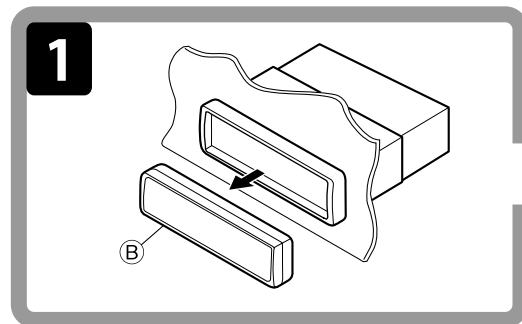
На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобильного специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.



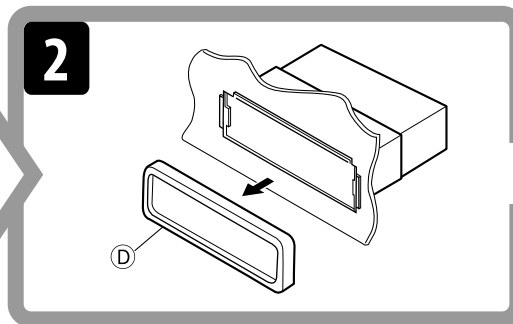
Removing the unit

Before removing the unit, release the rear section.



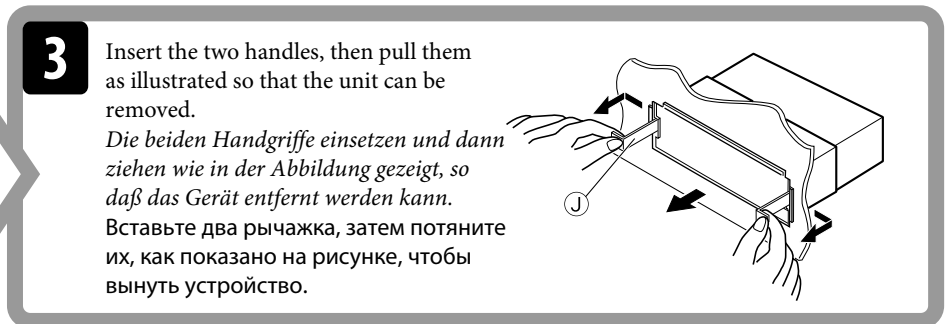
Ausbau des Geräts

Vor dem Ausbau des Geräts den hinteren Teil freigeben.

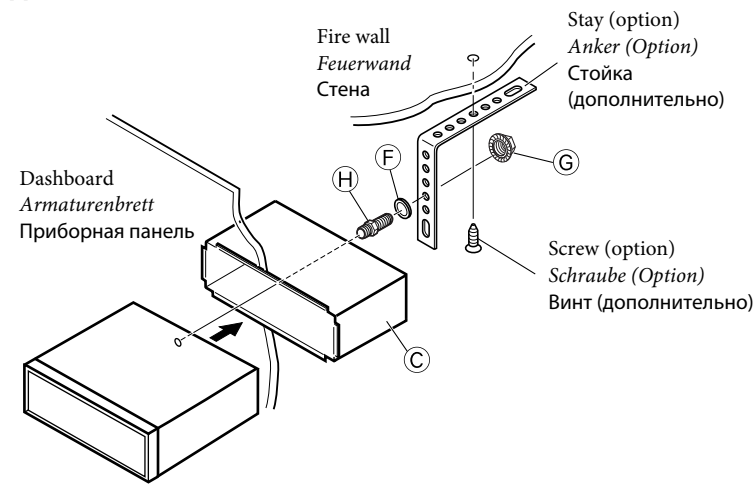


Удаление устройства

Перед удалением устройства освободите заднюю часть.



When using the optional stay / Beim Verwenden der Anker-Option / При использовании дополнительной стойки



Install the unit at an angle of less than 30°. Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf. Установите устройство под углом менее 30°.

When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / При установке устройства без использования муфты

In a Toyota car for example, first remove the car radio and install the unit in its place.

In einem Toyota-Automobil z.B. bauen Sie zuerst das Autoradio aus und installieren dann das Gerät an seiner Stelle.

В автомобиле Тойота, например, сначала извлеките автомобильный радиоприемник и установите устройство на место.

Flat type screws (M5 × 8 mm)*2
Senkkopfschrauben (M5 × 8 mm)*2
Крепежные винты (M5 × 8 мм)*2

Bracket*2
Konsole*2
Кронштейн*2

Pocket
Taschen
Карман

*2 Not supplied for this unit.
*2 Wird nicht mit Gerät mitgeliefert.
*2 Не входит в комплект поставки.

Note

• When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Hinweis

• Beim Anbringen des Gerät an der Konsole sicherstellen, daß 8 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.

Примечание

• При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

TROUBLESHOOTING

• The fuse blows.

* Are the red and black leads connected correctly?

• Power cannot be turned on.

* Is the yellow lead connected?

• No sound from the speakers.

* Is the speaker output lead short-circuited?

• Sound is distorted.

* Is the speaker output lead grounded?

* Are the “-” terminals of L and R speakers grounded in common?

• Noise interfere with sounds.

* Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?

• This unit becomes hot.

* Is the speaker output lead grounded?

* Are the “-” terminals of L and R speakers grounded in common?

• This unit does not work at all.

* Have you reset your unit?

FEHLERSUCHE

• Die Sicherung brennt durch.

* Sind die roten und schwarzen Leitungen richtig angeschlossen?

• Stromversorgung kann nicht eingeschaltet werden.

* Ist die gelbe Leitung angeschlossen?

• Kein Ton aus den Lautsprechern.

* Ist die LautsprecherAusgangsleitung kurzgeschlossen?

• Ton verzerrt.

* Ist die LautsprecherAusgangsleitung geerdet?

* Sind die „-“ Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

• Störgeräusche im Klang.

* Ist die hintere Erdungsklemme mit kürzeren und dickeren Kabeln an das Fahrzeugchassis angeschlossen?

• Gerät wird heiß.

* Ist die LautsprecherAusgangsleitung geerdet?

* Sind die „-“ Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

• Dieser Receiver funktioniert überhaupt nicht.

* Haben Sie einen Reset am Receiver vorgenommen?

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

• Сработал предохранитель.

* Правильно ли подключены черный и красный провода?

• Питание не включается.

* Подключен ли желтый провод?

• Звук не выводится через громкоговорители.

* Нет ли короткого замыкания на кабеле выхода громкоговорителей?

• Звук искажен.

* Заземлен ли провод выхода громкоговорителей?

* Заземлены ли разъемы “-” правого (R) и левого (L) громкоговорителей?

• Шум мешает звучанию.

* Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнура?

• Устройство нагревается.

* Заземлен ли провод выхода громкоговорителей?

* Заземлены ли разъемы “-” правого (R) и левого (L) громкоговорителей?

• Приемник не работает.

* Выполнена ли перенастройка приемника?

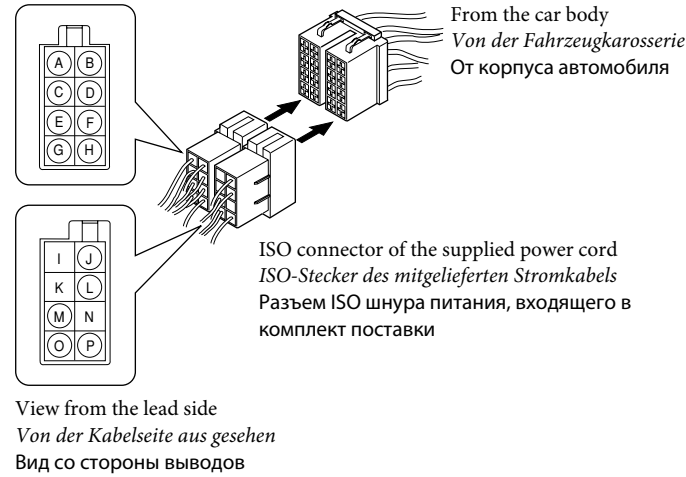
ELECTRICAL CONNECTIONS

ELEKTRISCHE ANSCHLÜSSE

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

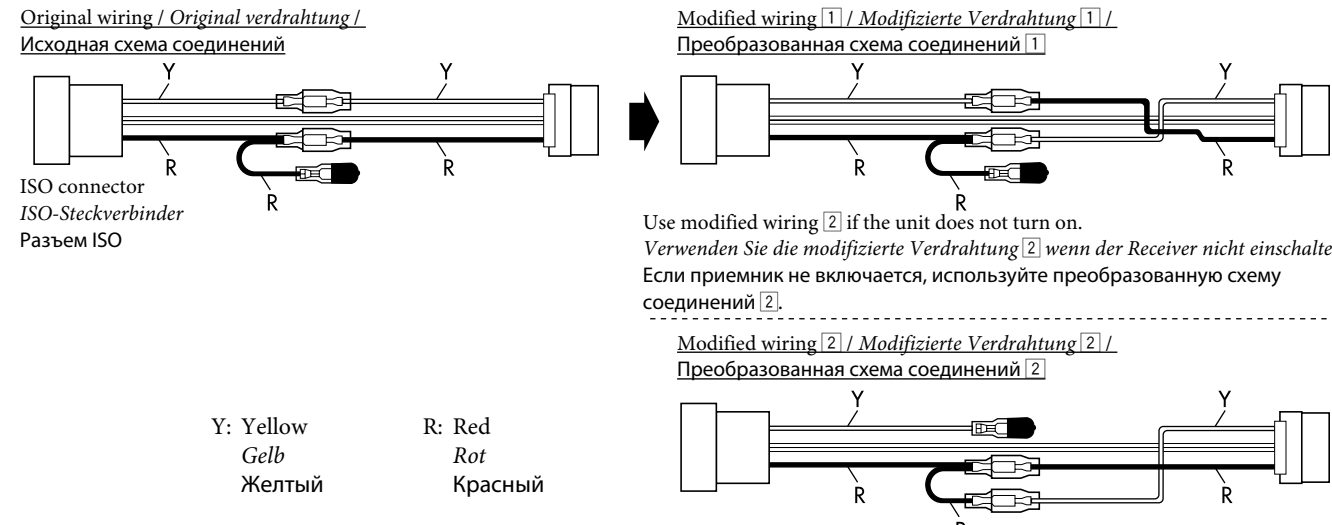
A If your car is equipped with the ISO connector / Wenn Ihr Fahrzeug mit dem ISO-Steckverbinder ausgestattet ist / Если автомобиль оснащен разъемом ISO

- Connect the ISO connectors as illustrated.
- Schließen Sie die ISO-Steckverbinder an, wie in der Abbildung gezeigt.
- Подключите разъемы ISO, как показано на рисунке.



For some VW/Audi or Opel (Vauxhall) automobile / Bei bestimmten VW-/Audi- oder Opel-(Vauxhall-) Fahrzeugen / Для некоторых автомобилей VW/Audi или Opel (Vauxhall)

- You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.
 - Es kann erforderlich sein, die Verdrahtung des mitgelieferten Stromkabels zu modifizieren, wie in der Abbildung gezeigt.
 - Wenden Sie sich vor dem Einbau dieses Receivers an Ihre Auto-Fachwerkstatt.
 - Возможно, потребуется изменить схему соединений для прилагаемого шнура питания, как показано на рисунке.
 - Перед установкой приемника обратитесь к авторизованному агенту по продажам автомобильных систем.

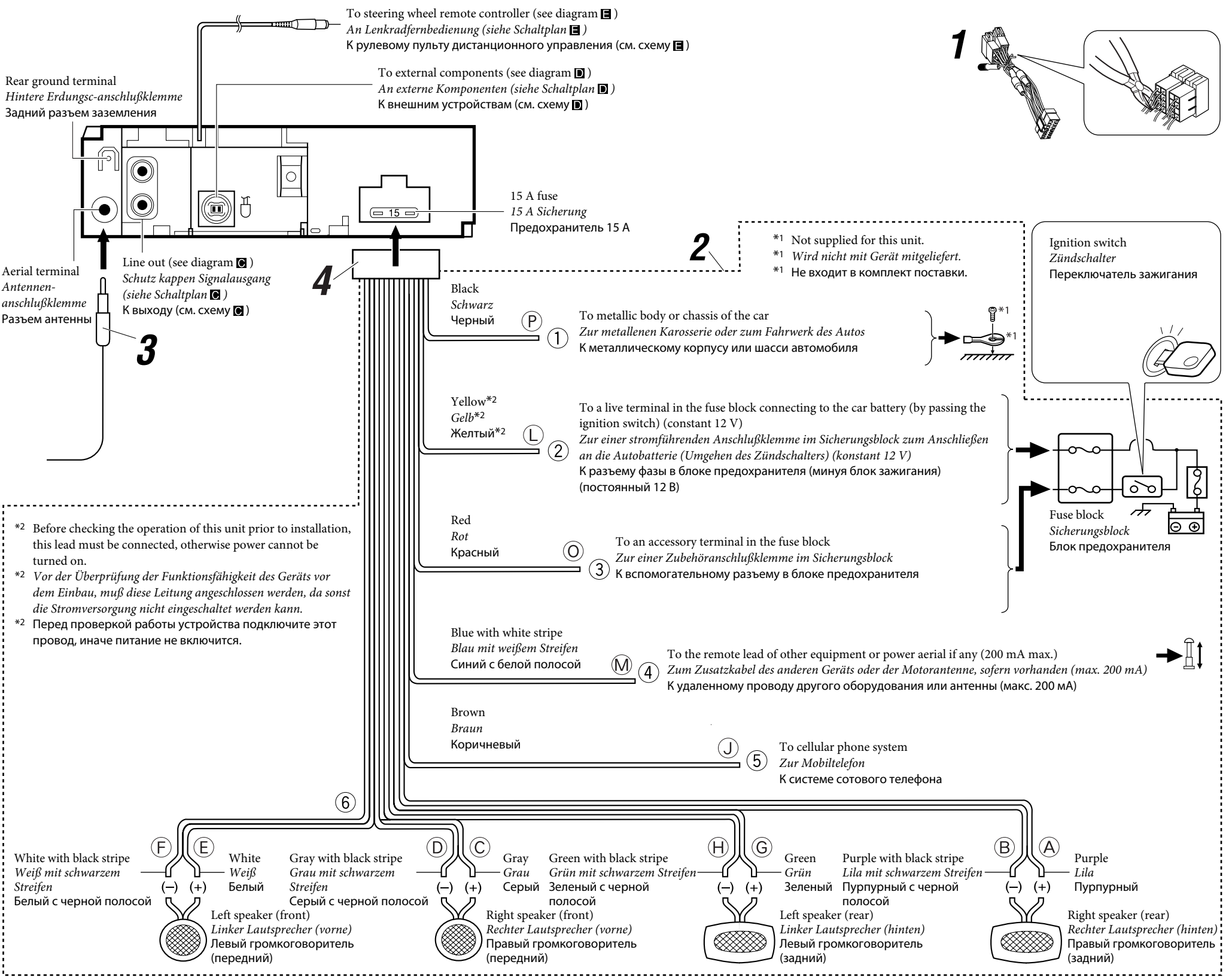


B Connections without using the ISO connectors / Anschlüsse ohne Verwendung der ISO-Steckverbinder / Подключение без использования разъемов ISO

- Before connecting:** Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.
- 1 Cut the ISO connector.
 - 2 Connect the colored leads of the power cord in the order specified in the illustration below.
 - 3 Connect the aerial cord.
 - 4 Finally connect the wiring harness to the unit.

- Vor dem Anschließen:** Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen. Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.
- 1 Schneiden Sie den ISO-Steckverbinder auf.
 - 2 Die farbigen Adern des Stromkabels in der Reihenfolge anschließen, wie in der Abbildung unten gezeigt.
 - 3 Das Antennenkabel anschließen.
 - 4 Die Kabelbäume am Gerät anschließen.

- Перед началом подключений:** Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства. Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.
- 1 Обрежьте разъем ISO.
 - 2 Подсоедините цветные провода шнура питания в указанном ниже порядке.
 - 3 Подключите кабель антенны.
 - 4 В последнюю очередь подключите электропроводку к устройству.



*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
 *2 Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.
 *2 Перед проверкой работы устройства подключите этот провод, иначе питание не включится.

C Connecting the external amplifier / Anschließen des externen Verstärkers / Подключение внешнего усилителя

You can connect an amplifier to upgrade your car stereo system.

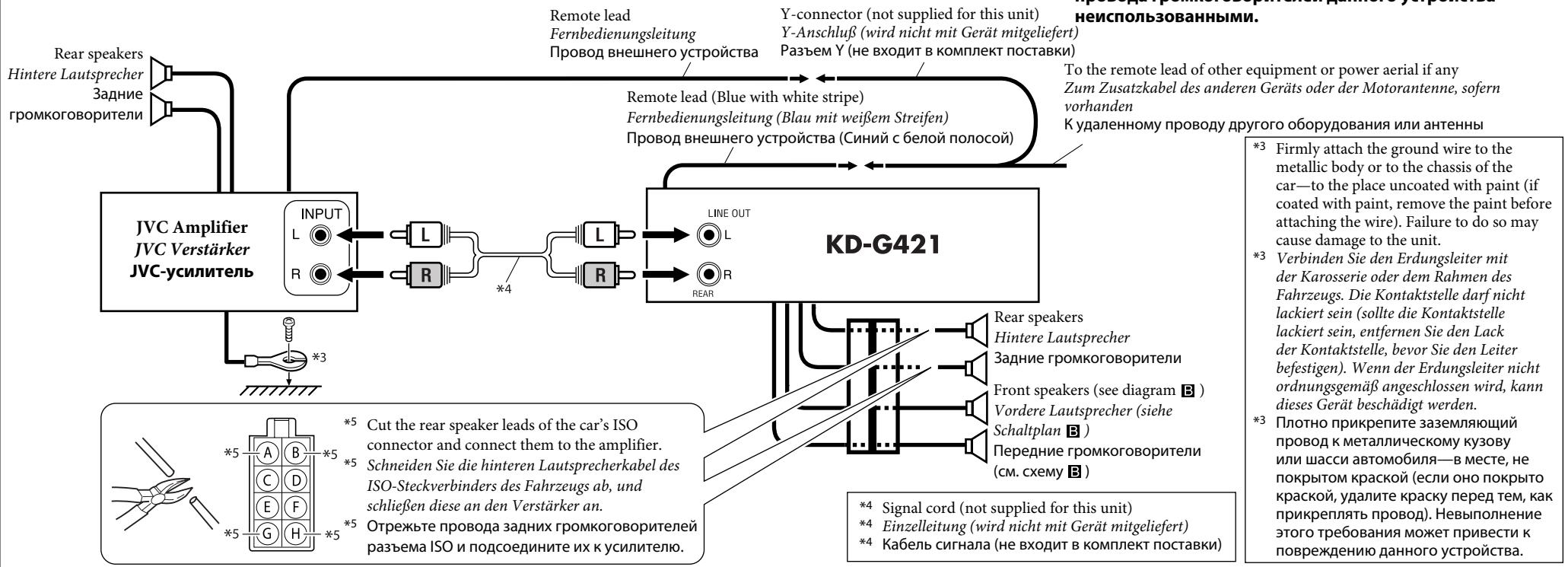
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Sie können einen Verstärker anschließen, um Ihre Autostereoanlage zu erweitern.

- Schließen Sie das Fernbedienungskabel (blau mit weißem Streifen) an das Fernbedienungskabel des anderen Geräts an, so daß es über dieses Gerät gesteuert werden kann.
- Die Lautsprecher von diesem Gerät abtrennen und am Verstärker anschließen. Die Lautsprecherleitungen dieses Geräts unbenutzt lassen.

Можно подключить усилитель для обновления автомобильной стереосистемы.

- Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего устройства другого оборудования так, чтобы им можно было управлять с этого устройства.
- **Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользованными.**



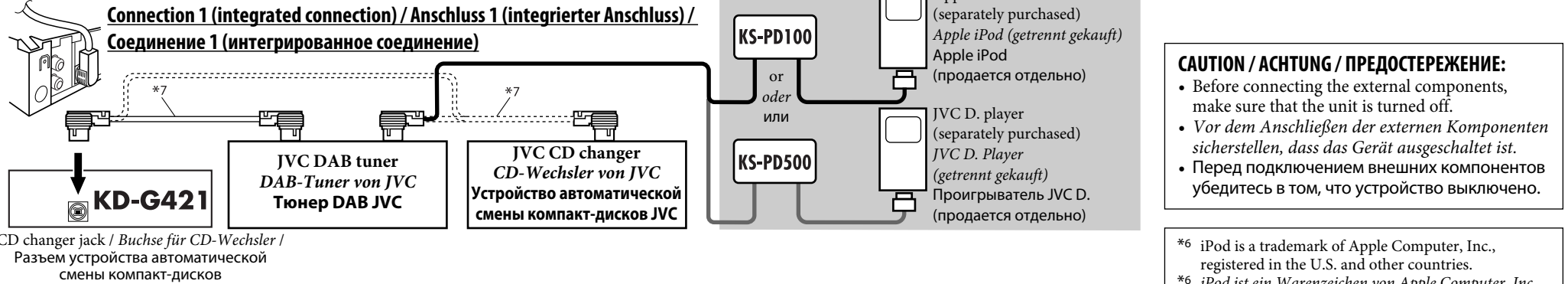
D Connecting the external components / Anschließen der externen Komponenten / Подключение внешних устройств

CD changer, DAB tuner, Apple iPod®, or JVC D. player / CD-Wechsler, DAB-Tuner, Apple iPod® oder JVC D. Player / Устройство автоматической смены компакт-дисков, тюнер DAB, Apple iPod® или проигрыватель JVC D.

- Set "CHANGER" for the external input setting (See page 15 of the INSTRUCTIONS.) / Stellen Sie „CHANGER“ für externe Eingangseinstellung ein (Siehe Seite 15 der BEDIENUNGSANLEITUNG.) / Установите для внешнего входа значение "CHANGER" (См. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 15.)

You can connect these components in series as illustrated below. The iPod® or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player). Sie können diese Komponenten in Reihe anschließen, wie in der Abbildung unten gezeigt. Der iPod® oder D. Player kann mit einem Schnittstellenadapter angeschlossen werden (nicht mitgeliefert)—KS-PD100 (für iPod) oder KS-PD500 (für D. Player).

Эти внешние устройства можно подключать параллельно, как показано на рисунке. Проигрыватель iPod® или D. можно подключить с помощью интерфейсного адаптера (не входит в комплект поставки)—KS-PD100 (для iPod) или KS-PD500 (для проигрывателя JVC D.).



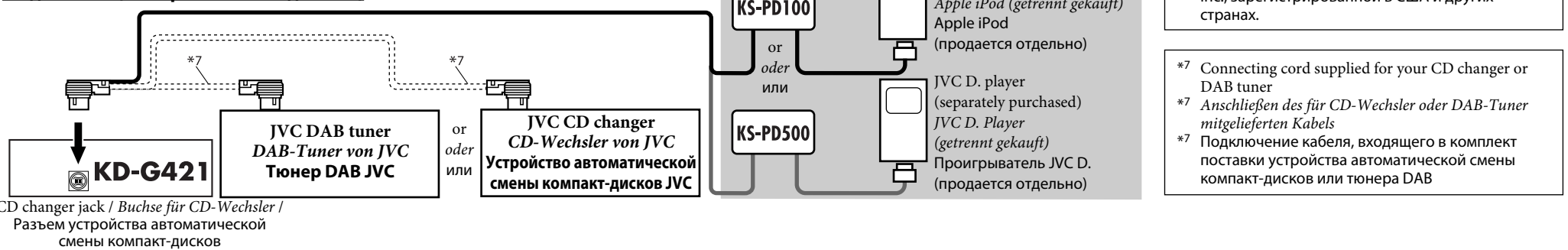
CAUTION / ACHTUNG / ПРЕДОСТЕРЕЖЕНИЕ:

- Before connecting the external components, make sure that the unit is turned off.
- Vor dem Anschließen der externen Komponenten sicherstellen, dass das Gerät ausgeschaltet ist.
- Перед подключением внешних компонентов убедитесь в том, что устройство выключено.

*6 iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
*6 iPod ist ein Warenzeichen von Apple Computer, Inc., eingetragen in den USA und anderen Ländern.
*6 iPod является торговой маркой Apple Computer, Inc., зарегистрированной в США и других странах.

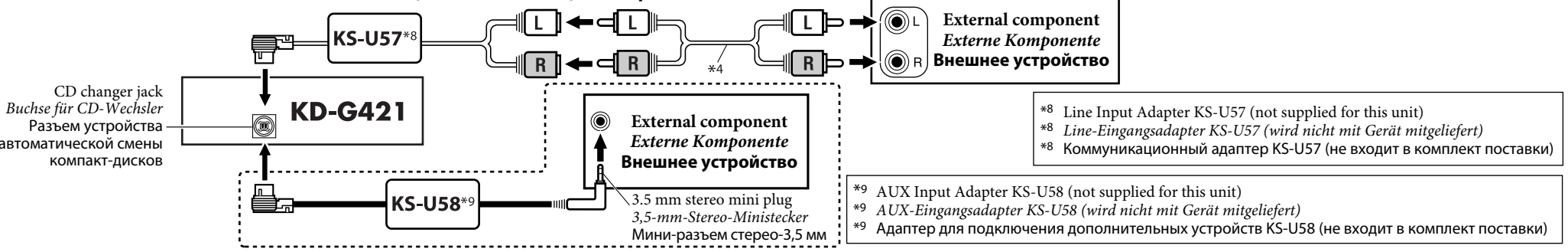
*7 Connecting cord supplied for your CD changer or DAB tuner
*7 Anschließen des für CD-Wechsler oder DAB-Tuner mitgelieferten Kabels
*7 Подключение кабеля, входящего в комплект поставки устройства автоматической смены компакт-дисков или тюнера DAB

Connection 2 (alternative connection) / Anschluss 2 (alternativer Anschluss) / Соединение 2 (альтернативное соединение)



Other external component / Andere externe Komponenten / Другое внешнее устройство

- Set "EXT IN" for the external input setting (See page 15 of the INSTRUCTIONS.) / Stellen Sie „EXT IN“ für externe Eingangseinstellung ein (Siehe Seite 15 der BEDIENUNGSANLEITUNG.) / Установите для внешнего входа значение "EXT IN" (См. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 15.)

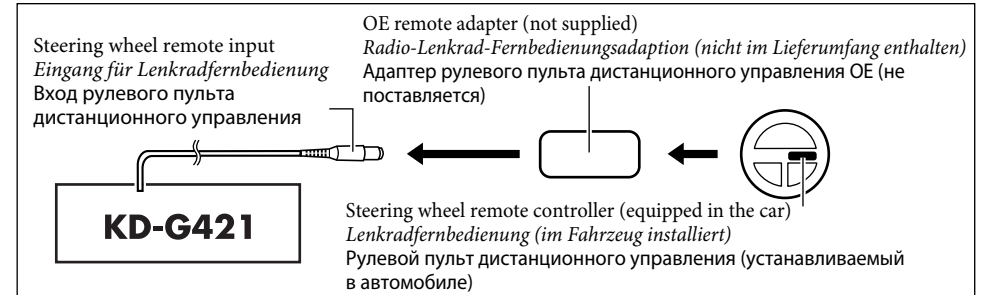


E Connecting to the steering wheel remote controller / Anschluß an die Lenkradfernbedienung / Подключение к рулевому пульту дистанционного управления

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.

Wenn Ihr Fahrzeug mit einer Lenkradfernbedienung ausgestattet ist, können Sie damit diesen Receiver steuern. Hierfür ist ein für Ihr Fahrzeug passender Radio-Lenkrad-Fernbedienungsadapter von JVC (nicht im Lieferumfang enthalten) erforderlich. Für weitere Einzelheiten wenden Sie sich an Ihren JVC Autoradiohändler.

Если автомобиль оборудован рулевым пультом дистанционного управления, его можно использовать для управления данным устройством. Для этого необходим адаптер рулевого пульта дистанционного управления JVC OE (не поставляется), подходящий для Вашего автомобиля. За более подробной информацией обратитесь к поставщику автомобильных аудиосистем компании JVC.

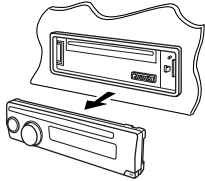
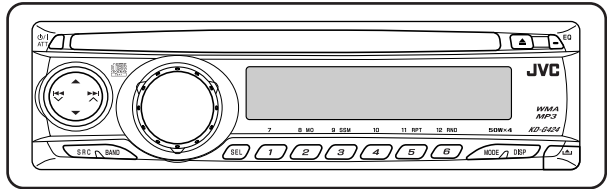
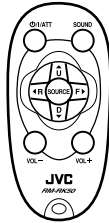


JVC



CD RECEIVER

KD-G424



WMA MP3



For canceling the display demonstration, see page 6.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

GET0351-001A
[U]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åpen eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	WARNING: Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO: Avattassa ja suoja-alkutus ohjettuna tai viallisena olet allina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan iiseesi. (f)
--	---	--	---

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

How to reset your unit



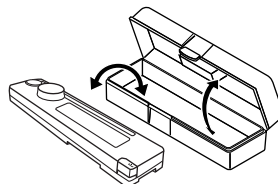
- Your preset adjustments will also be erased.
- If a disc is loaded, it will eject. Be careful not to drop the disc.

How to forcibly eject a disc

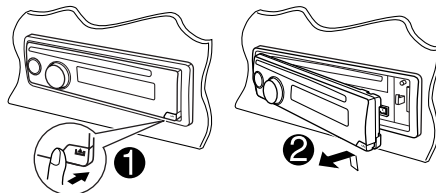


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

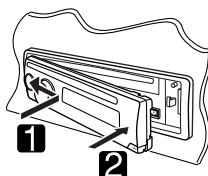
How to detach/attach the control panel



Detaching...





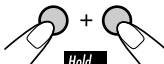


Attaching...



How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 17 – 19).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

The following marks are used to indicate...



: Built-in CD player operations.



: External CD changer operations.

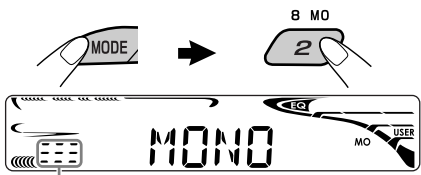


: Indicator displayed for the corresponding operation.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.



Time countdown indicator

To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

CONTENTS

Control panel	4
Remote controller — RM-RK50	5
Getting started.....	6
Basic operations.....	6
Radio operations	7
Disc operations	8
Playing a disc in the unit	8
Playing discs in the CD changer	8
Sound adjustments.....	11
General settings — PSM	12
iPod®/D. player operations	14
Other external component operations...	16
Maintenance	16
More about this unit	17
Troubleshooting	19
Specifications	21

For safety...

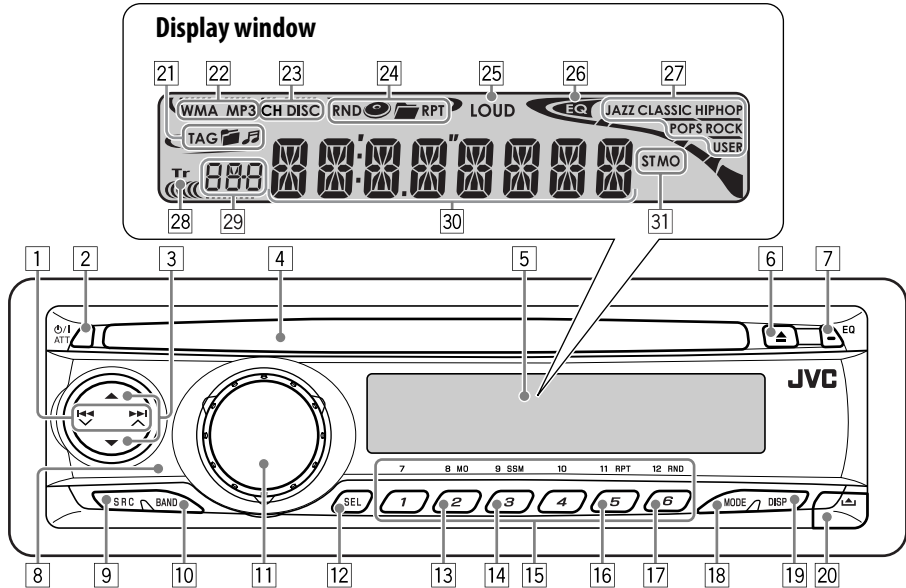
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification



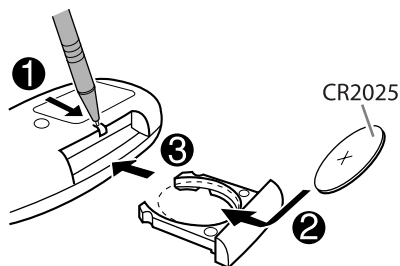
- 1 buttons
- 2 button
- 3 buttons
- 4 Loading slot
- 5 Display window
- 6 button
- 7 EQ (equalizer) button
- 8 Remote sensor
DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 9 SRC (source) button
- 10 BAND button
- 11 Control dial
- 12 SEL (select) button
- 13 MO (monaural) button
- 14 SSM (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 MODE button
- 19 DISP (display) button
- 20 button

Display window

- 21 Disc information indicators—TAG (ID3 Tag), (folder), (track/file)
- 22 Disc type indicators—WMA, MP3
- 23 Playback source indicators—
CH: *Lights up only when CD-CH is selected as the playback source.*
DISC: *Lights up for the built-in CD player.*
- 24 Playback mode / item indicators—
RND (random), (disc), (folder),
RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 28 Tr (track) indicator
- 29 Source display / Volume level indicator
- 30 Main display
- 31 Tuner reception indicators—ST (stereo), MO (monaural)

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)

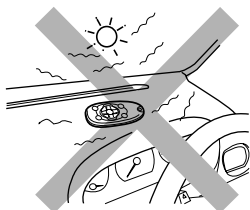


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

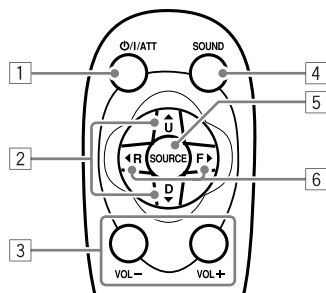
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



1. **⏻/I/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
2. **▲ U (up) / D (down) ▼** buttons
 - Changes the FM/AM bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enters the main menu with **▲ U**. (Now **▲ U/D ▼/◀ R/F ▶** work as the menu selecting buttons.)*
3. **VOL - / VOL +** buttons
 - Adjusts the volume level.
4. **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
5. **SOURCE** button
 - Selects the source.

* **▲ U** : Returns to the previous menu.

D ▼ : Confirms the selection.

To be continued...

- 6 ◀ R (reverse) / F (forward) ▶ buttons
- Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

- 5 Adjust the sound as you want. (See pages 11 and 12.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	

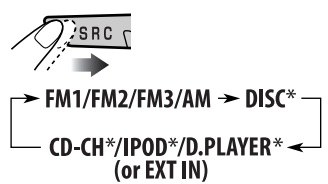
Getting started

Basic operations

- 1 Turn on the power.

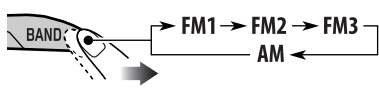


- 2

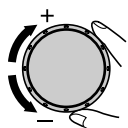


* You cannot select these sources if they are not ready or not connected.

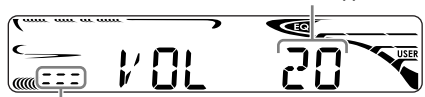
- 3 For FM/AM tuner



- 4 Adjust the volume.



Volume level appears.



Volume level indicator

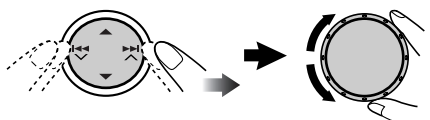
Basic settings

- See also “General settings — PSM” on pages 12 and 13.

- 1



- 2



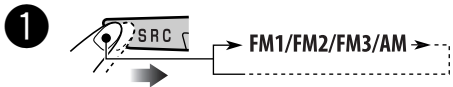
- 1 **Canceling the display demonstrations**
Select “DEMO,” then “DEMO OFF.”
- 2 **Setting the clock**
Select “CLOCK H” (hour), then adjust the hour.
Select “CLOCK M” (minute), then adjust the minute.

- 3 Finish the procedure.

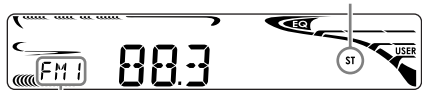


<p>To check the current clock time when the power is turned off</p>	
--	--

Radio operations



Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

3 Start searching for a station.

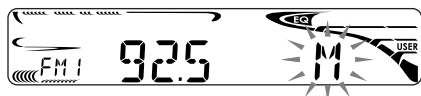
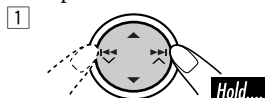


When a station is received, searching stops.

To stop searching, press the same button again.

To tune in to a station manually

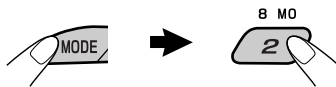
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.

Reception improves, but stereo effect will be lost.

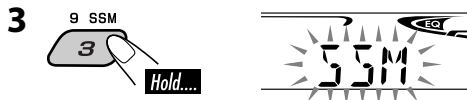
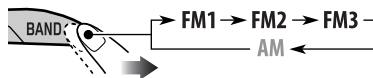
To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

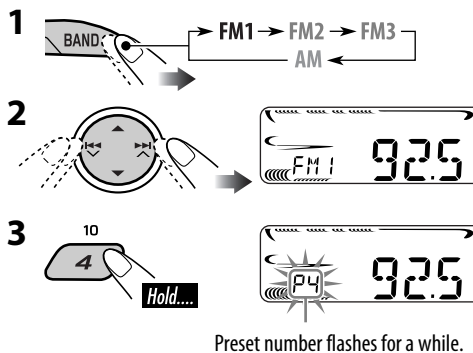


"SSM" flashes, then disappears when automatic presetting is over.

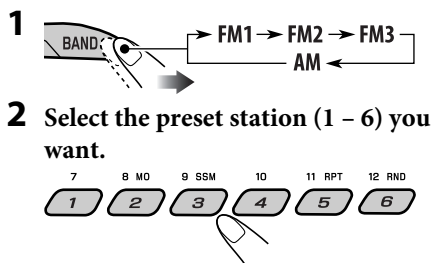
Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.



Listening to a preset station



or

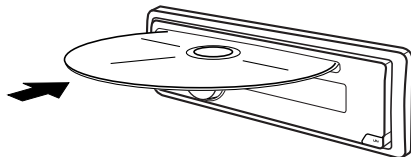


To check the other information while listening to an FM or AM station



Disc operations

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

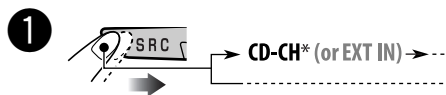
To stop play and eject the disc



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

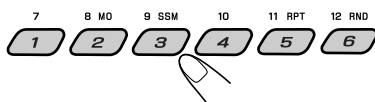
- Ejecting the magazine will also stop playing.



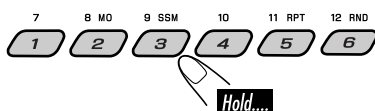
* If you have changed the external input setting to "EXT IN" (see page 13), you cannot select the CD changer.

2 Select a disc.

For disc number from 01 - 06:



For disc number from 07 - 12:



About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

It to fast-forward or reverse the track




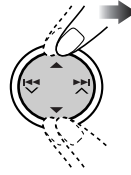
To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

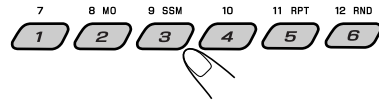
For MP3 discs:  

For WMA discs: 

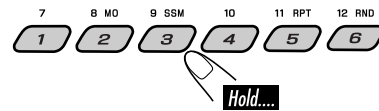


To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:

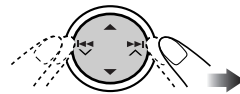


To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

Skipping tracks quickly during play



**Only possible on JVC
MP3-compatible CD changer**

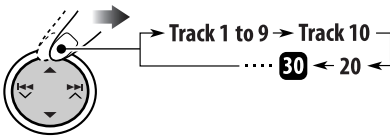
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1



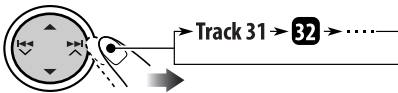
2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



Prohibiting disc ejection



You can lock a disc in the loading slot.



Hold....



To cancel the prohibition, repeat the same procedure.

Changing the display information

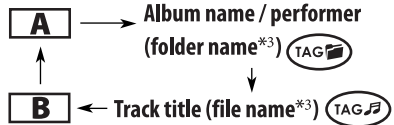


While playing an audio CD or a CD Text

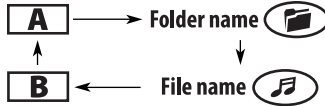


While playing an MP3 or a WMA*2 disc

- When "TAG DISP" is set to "TAG ON"^{*1} (see page 13)



- When "TAG DISP" is set to "TAG OFF"



- A** : Clock with the current track number
- B** : Elapsed playing time with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

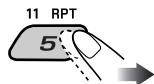
Selecting the playback modes

You can use only one of the following playback modes at a time.



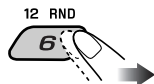
2 Select your desired playback mode.

Repeat play



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT *4	: All tracks of the current folder.
DISC RPT *5	: All tracks of the current disc.
RPT OFF	: Cancels.

Random play



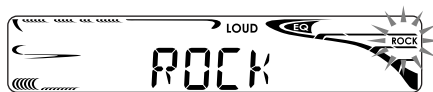
Mode	Plays at random
FLDR RND *4	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND *5	: All tracks of the inserted discs.
RND OFF	: Cancels.

*4 Only while playing an MP3 or a WMA disc.

*5 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).

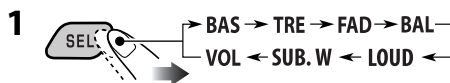


Ex.: When "ROCK" is selected

Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

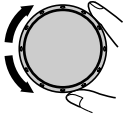
Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...

2



Indication [Range]

BAS*1 (bass)

Adjust the bass. [-06 to +06]

TRE*1 (treble)

Adjust the treble. [-06 to +06]

FAD*2 (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL*3 (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*1 (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

SUB.W*4 (subwoofer)

Adjust the subwoofer output level. [00 to 08]

VOL (volume)

Adjust the volume. [00 to 30 or 50*5]

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*2 If you are using a two-speaker system, set the fader level to "00."

*3 This adjustment cannot affect the subwoofer output.

*4 This takes effect only when a subwoofer is connected.
Displayed only when "L/O MODE" is set to "WOOFER" (see page 13).

*5 Depending on the amplifier gain control setting. (See page 13 for details.)

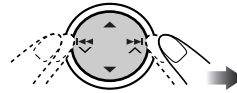
General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.

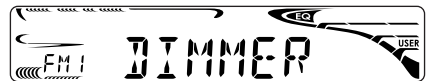
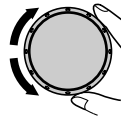
1



2 Select a PSM item.



3 Adjust the PSM item selected.



Ex.: When "DIMMER" is selected

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	1 – 12, [6] [Initial: 1 (1:00)]
CLOCK M Minute adjustment	00 – 59, [6] [Initial: 00 (1:00)]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
SCROLL *6 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
WOOFER *7 Subwoofer cutoff frequency	LOW : Frequencies lower than 90 Hz are sent to the subwoofer. MID : [Initial]; Frequencies lower than 135 Hz are sent to the subwoofer. HIGH : Frequencies lower than 180 Hz are sent to the subwoofer.
EXT IN *8 External input	CHANGER : [Initial]; To use a JVC CD changer, [8], an Apple iPod or a JVC D. player, [14]. EXT IN : To use any other external component than the above, [16].
L/O MODE Line output mode	When connecting the amplifier or subwoofer, set this correctly. REAR : [Initial]; Select if the REAR LINE OUT terminals are used for connecting the speakers through an external amplifier. WOOFER : Select if the REAR LINE OUT terminals are used for connecting a subwoofer through an external amplifier.
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [10]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50

*6 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*7 Displayed only when “L/O MODE” is set to “WOOFER.”

*8 Displayed only when one of the following sources is selected—FM, AM, or DISC.

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player: Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

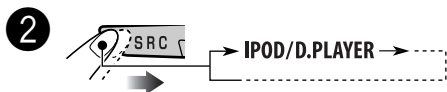
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

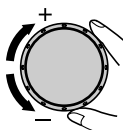
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 13.



Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	<p>Hold...</p>
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

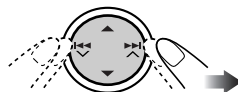
Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/◀◀ ▶▶/▲ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.
- Holding |◀◀ ▼/▶▶| ▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT (RPT)

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

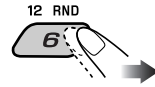
ALL RPT (RPT)

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBUM RND*4 (RND)

Functions the same as “Shuffle Album” of the iPod.

SONG RND/RND ON (RND)

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check the other information while listening to an iPod or a D. player

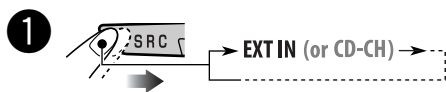


Other external component operations

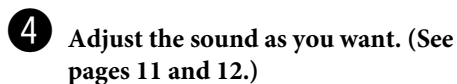
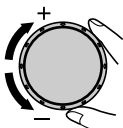
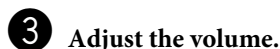
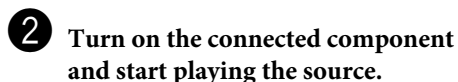
You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

For listening to the iPod or D. player, refer to pages 14 and 15.



If “EXT IN” does not appear, see page 13 and select the external input (“EXT IN”).



To check the other information while listening to an external component



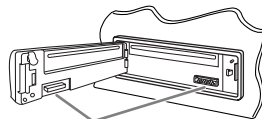
Clock ↔ EXT IN

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

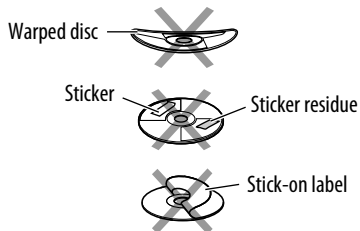
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Do not use the following discs:



More about this unit

Basic operations

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.

To be continued...

- CD-R/CD-RW on which the files are written with “Packet Write” method.
- There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can play back files recorded in VBR (variable bit rate). Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc). Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 13). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections.
FM/AM	• SSM automatic presetting does not work.	Reset the unit (see page 2).
	• Static noise while listening to the radio.	Store stations manually.
Disc playback	• Disc cannot be played back.	Connect the antenna firmly.
	• CD-R/CD-RW cannot be played back.	Insert the disc correctly.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW.
	• Disc can be neither played back nor ejected.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc sound is sometimes interrupted.	• Unlock the disc (see page 10).
		• Eject the disc forcibly (see page 2).
MP3/WMA playback	• “NO DISC” appears on the display.	• Stop playback while driving on rough roads.
	• Disc cannot be played back.	• Change the disc.
		• Check the cords and connections.
	• Noise is generated.	Insert a playable disc into the loading slot.
		• Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.
		• Add the extension code <.mp3> or <.wma> to the file names.
		Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

To be continued...

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> The CD changer does not work at all. 	Reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> Check the connecting cable and its connection. Update the firmware version. Change the battery.
	<ul style="list-style-type: none"> Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 14).
	<ul style="list-style-type: none"> No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> No sound can be heard. “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Subwoofer-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: 531 kHz to 1 602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio) Decoding Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

JVC



JVC KD-G424

Installation/Connection Manual

GET0351-002A
[U]

1105DTSMDTJEIN
EN

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This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

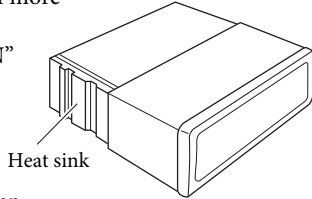
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

• **Be sure to ground this unit to the car's chassis again after installation.**

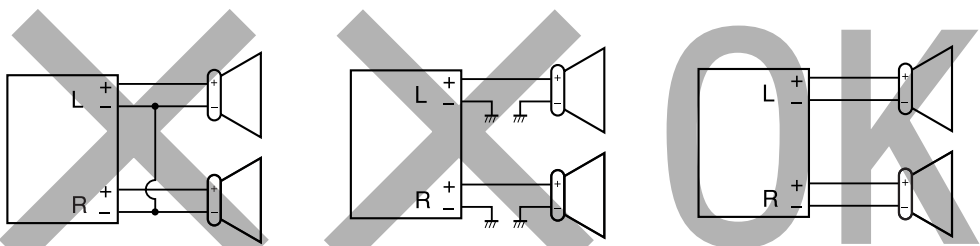
Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



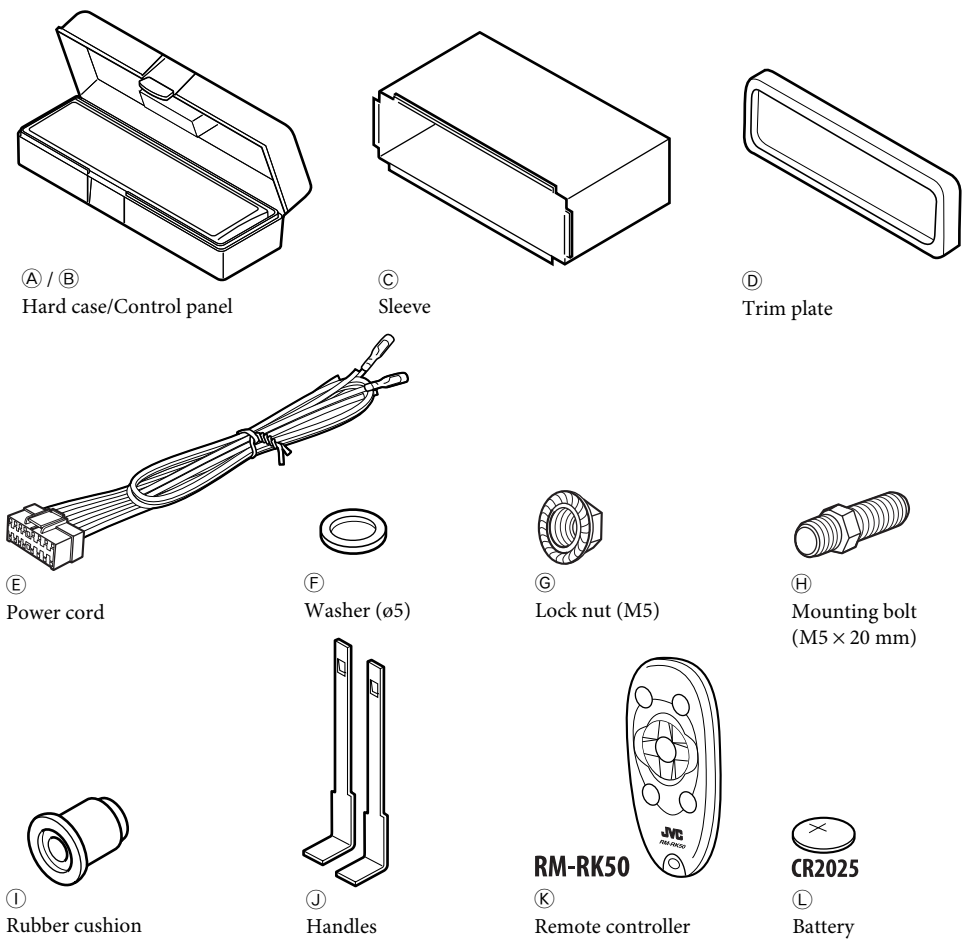
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



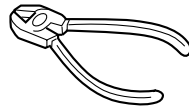
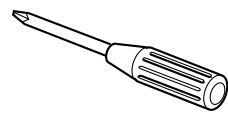
Parts list for installation and connection

The following parts are provided for this unit. After checking them, please set them correctly.



TROUBLESHOOTING

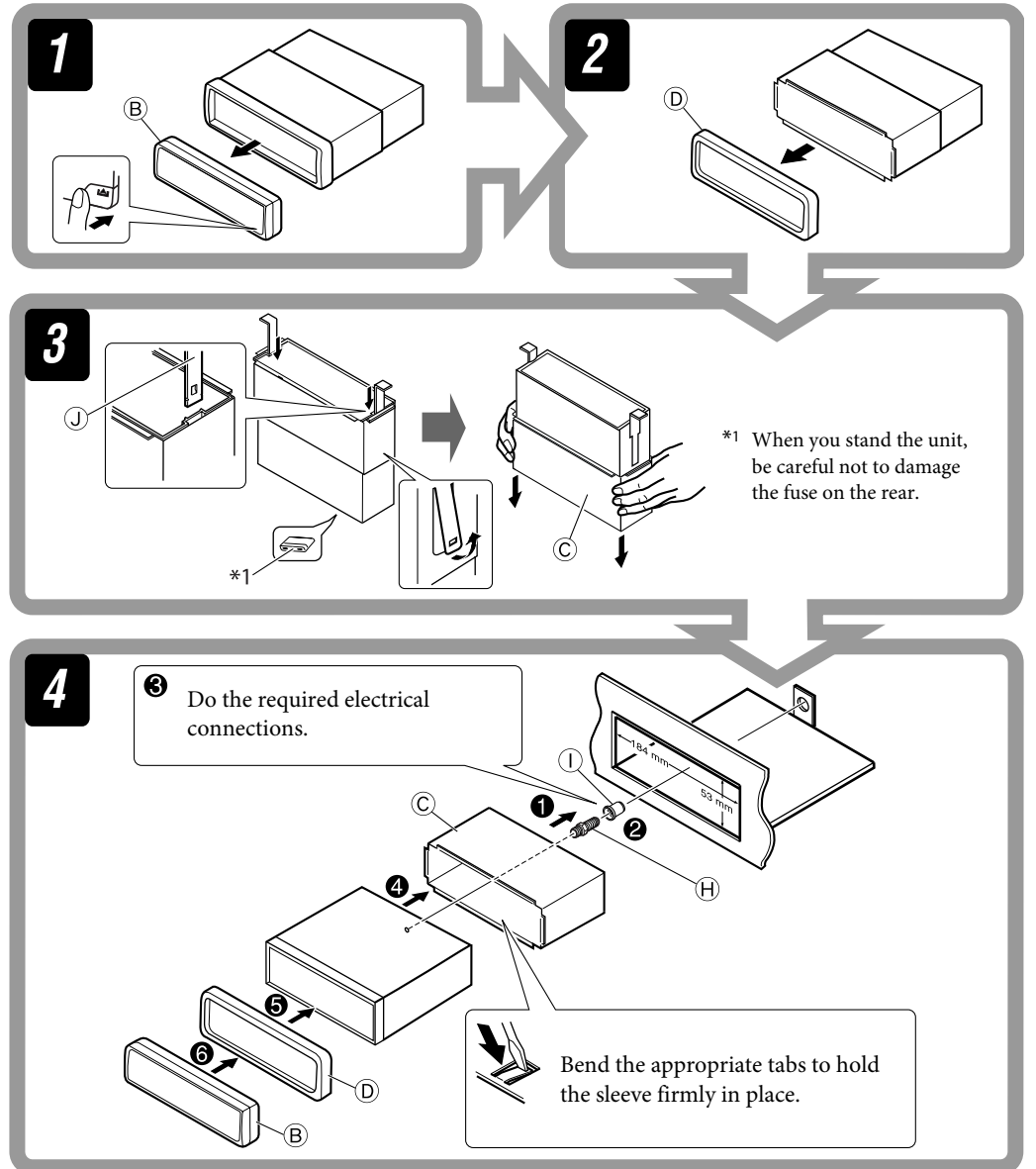
- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?



INSTALLATION (IN-DASH MOUNTING)

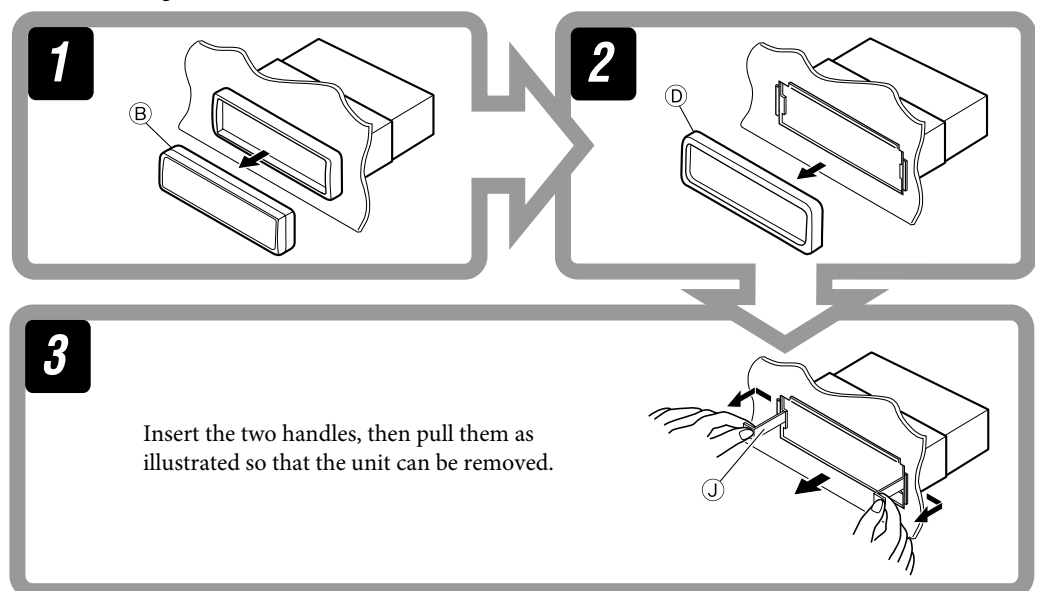
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

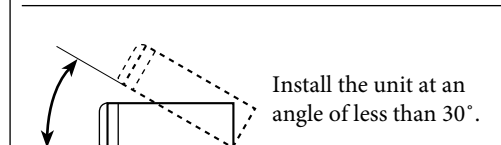
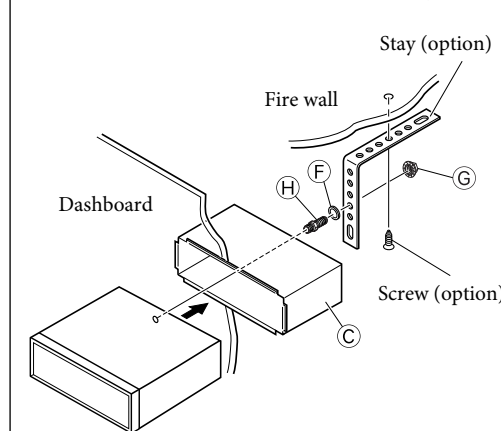


Removing the unit

Before removing the unit, release the rear section.



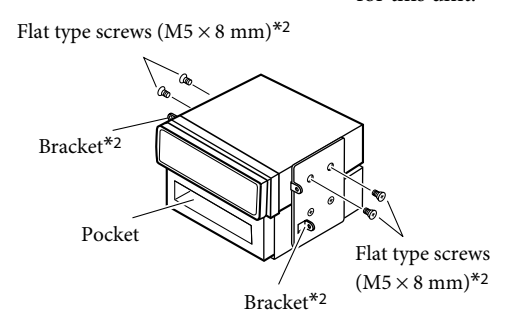
When using the optional stay



When installing the unit without using the sleeve

In a Toyota car for example, first remove the car radio and install the unit in its place.

*2 Not supplied for this unit.



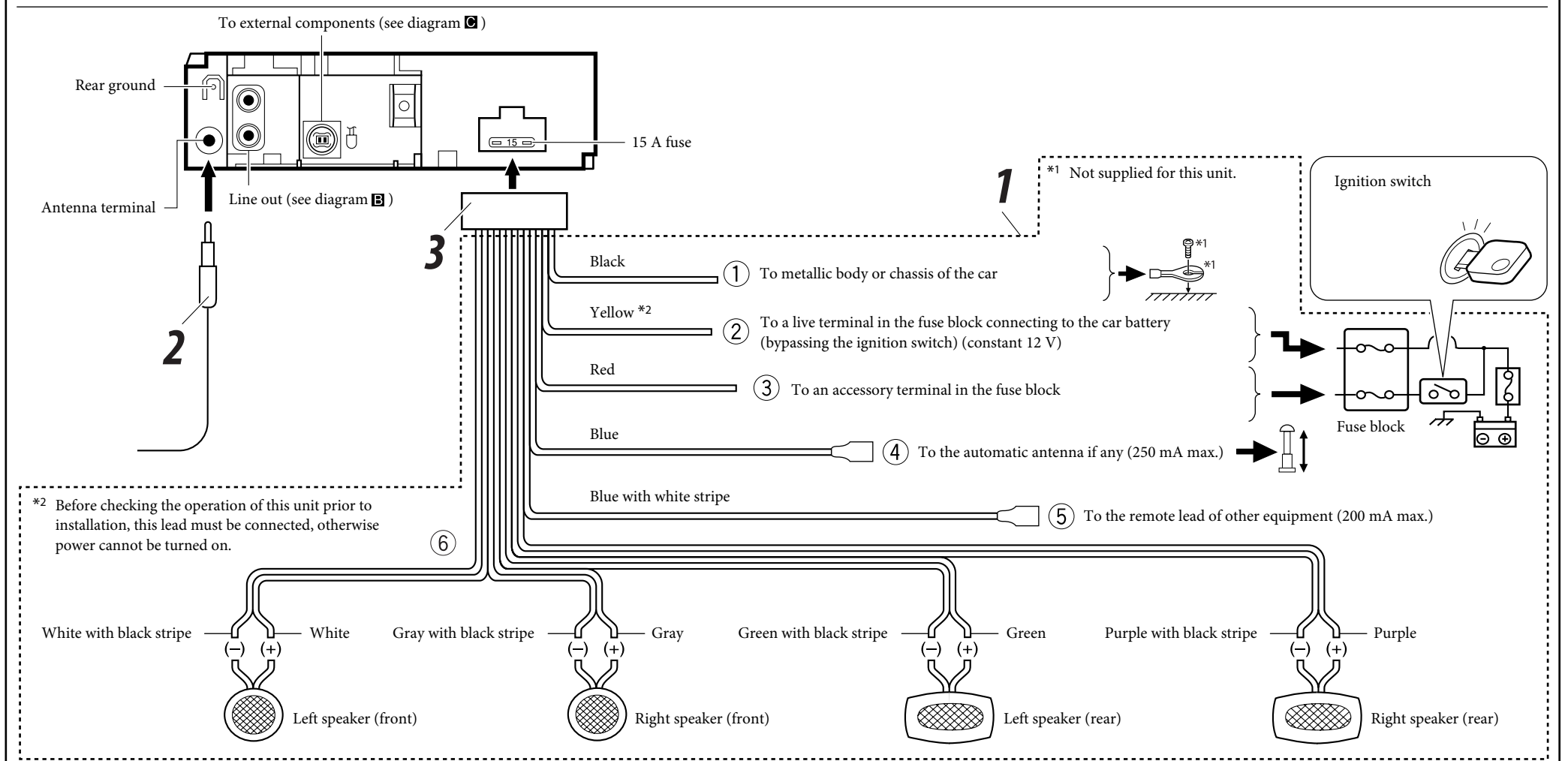
Note: When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

ELECTRICAL CONNECTIONS

A Typical connections

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

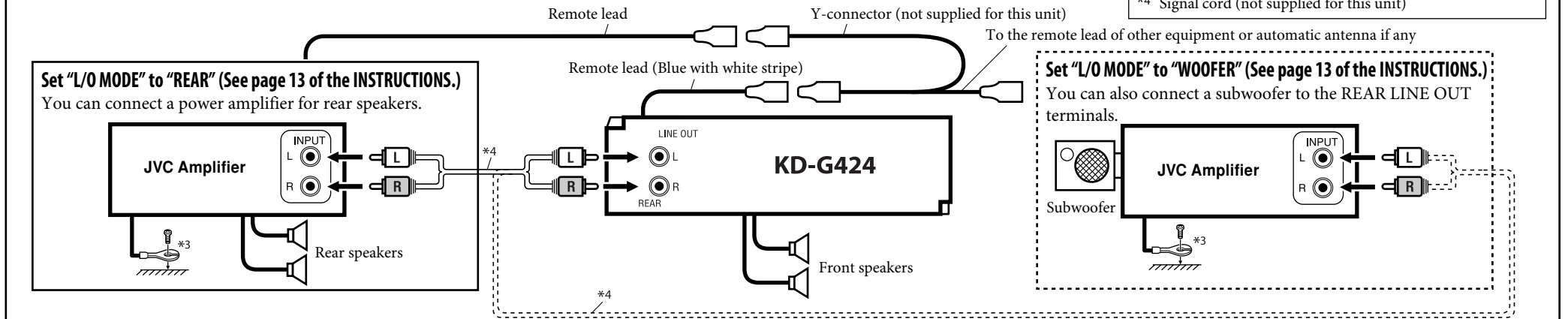
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.



B Connecting the external amplifier or subwoofer

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**



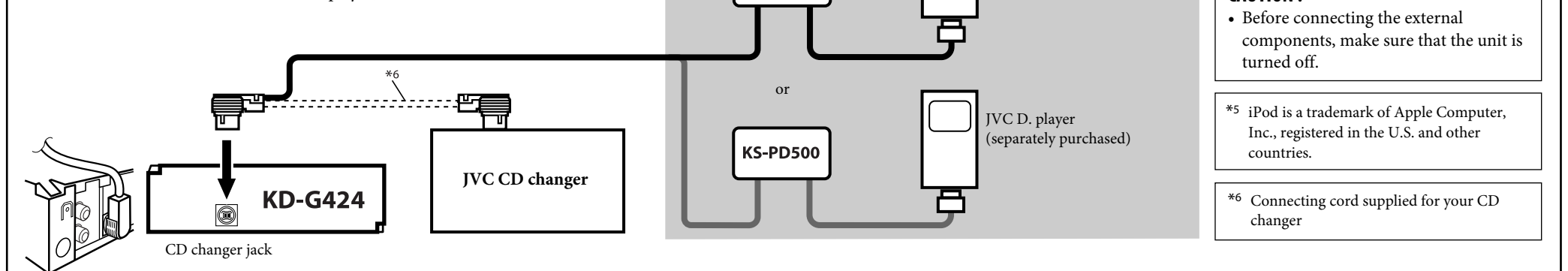
C Connecting the external components

CD changer, Apple iPod®, or JVC D. player

- Set "CHANGER" for the external input setting (See page 13 of the INSTRUCTIONS.)

You can connect these components as illustrated below.

The iPod*5 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).



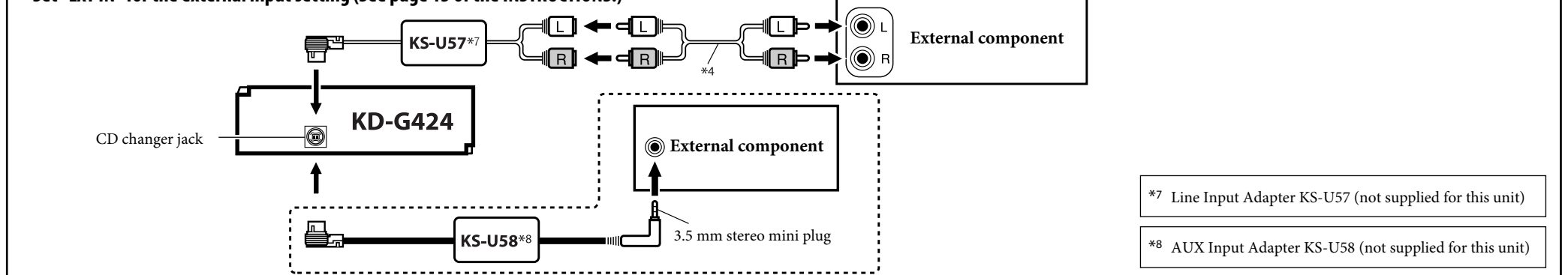
CAUTION:

- Before connecting the external components, make sure that the unit is turned off.

*5 iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Other external component

- Set "EXT IN" for the external input setting (See page 13 of the INSTRUCTIONS.)



JVC



CD RECEIVER

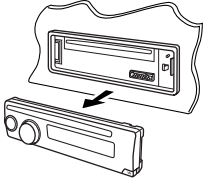
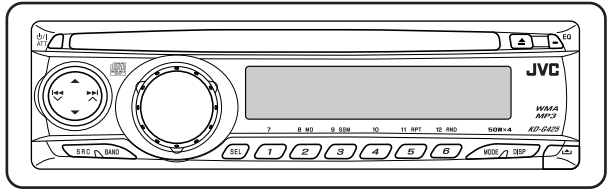
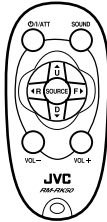
KD-G425

ENGLISH

ไทย

เครื่องเล่น CD

KD-G425



WMA MP3

For canceling the display demonstration, see page 6.

ดูที่หน้า 6 เพื่อยกเลิกการสาธิตภาพประกอบ

For installation and connections, refer to the separate manual.

กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

INSTRUCTIONS

คำแนะนำ

GET0350-001A
[U/UH]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering for stråling. (d)	VARNING: Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Beträkta ej strålen. (d)	VARO: Avtäckas ja suojelukitus ohitettuna tai viallisena olet alittuna näkyvälle ja näkymättömälle laserstråleille. Vältä säteen kohdistumista suoraan itseesi. (f)
--	---	--	--

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Caution on volume setting:

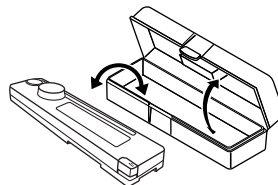
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

How to forcibly eject a disc

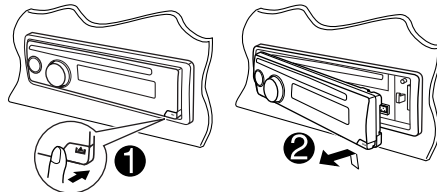


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

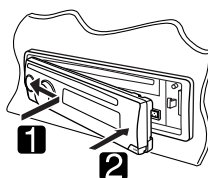
How to detach/attach the control panel



Detaching...



Attaching...







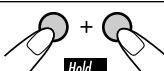
How to reset your unit






- Your preset adjustments will also be erased.
- If a disc is loaded, it will eject. Be careful not to drop the disc.

How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 17 – 19).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

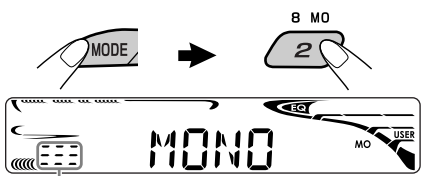
The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.



Time countdown indicator

To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

CONTENTS

Control panel	4
Remote controller — RM-RK50	5
Getting started	6
Basic operations	6
Radio operations	7
Disc operations	8
Playing a disc in the unit	8
Playing discs in the CD changer	8
Sound adjustments	11
General settings — PSM	12
iPod®/D. player operations	14
Other external component operations...	16
Maintenance	16
More about this unit	17
Troubleshooting	19
Specifications	21

For safety...

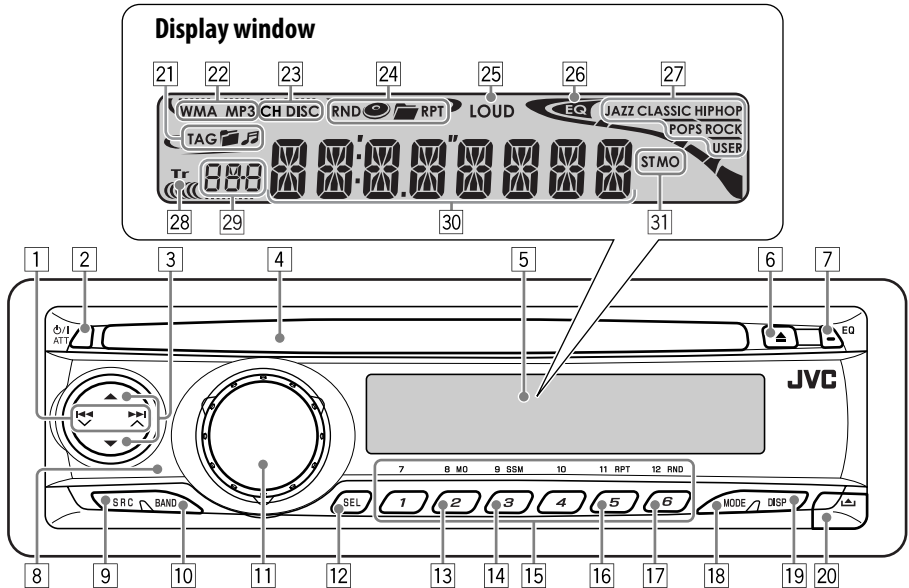
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification

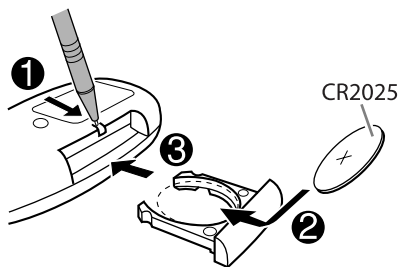


- 1 buttons
- 2 ϕ /I ATT (standby/on attenuator) button
- 3 \blacktriangle (up) / \blacktriangledown (down) buttons
- 4 Loading slot
- 5 Display window
- 6 \blacktriangle (eject) button
- 7 EQ (equalizer) button
- 8 Remote sensor
DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 9 SRC (source) button
- 10 BAND button
- 11 Control dial
- 12 SEL (select) button
- 13 MO (monaural) button
- 14 SSM (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 MODE button
- 19 DISP (display) button
- 20 (control panel release) button

Display window

- 21 Disc information indicators—TAG (ID3 Tag), (folder), (track/file)
- 22 Disc type indicators—WMA, MP3
- 23 Playback source indicators—
CH: *Lights up only when CD-CH is selected as the playback source.*
DISC: *Lights up for the built-in CD player.*
- 24 Playback mode / item indicators—
RND (random), (disc), (folder),
RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 28 Tr (track) indicator
- 29 Source display / Volume level indicator
- 30 Main display
- 31 Tuner reception indicators—ST (stereo), MO (monaural)

Installing the lithium coin battery (CR2025)

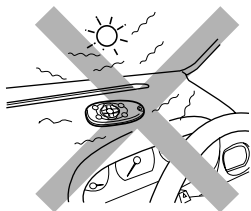


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

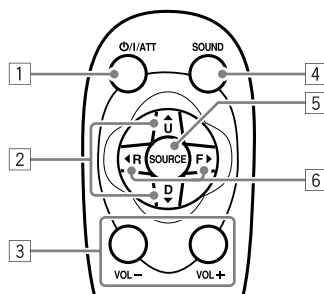
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



1. **⏻/I/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
2. **▲ U** (up) / **D** (down) **▼** buttons
 - Changes the FM/AM bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enters the main menu with **▲ U**. (Now **▲ U/D ▼/◀R/F▶** work as the menu selecting buttons.)*
3. **VOL - / VOL +** buttons
 - Adjusts the volume level.
4. **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
5. **SOURCE** button
 - Selects the source.

* **▲ U** : Returns to the previous menu.
D ▼ : Confirms the selection.

To be continued...

- 6 ◀ R (reverse) / F (forward) ▶ buttons
- Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

Getting started

Basic operations

1 Turn on the power.



2

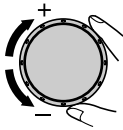


* You cannot select these sources if they are not ready or not connected.

3 For FM/AM tuner



4 Adjust the volume.



Volume level appears.



Volume level indicator

5 Adjust the sound as you want. (See pages 11 and 12.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	

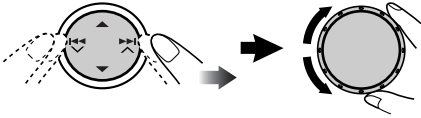
Basic settings

• See also “General settings — PSM” on pages 12 and 13.

1



2



1 Canceling the display demonstrations

Select “DEMO,” then “DEMO OFF.”

2 Setting the clock

Select “CLOCK H” (hour), then adjust the hour.

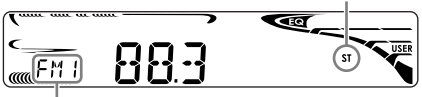
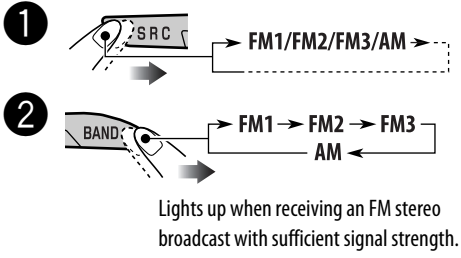
Select “CLOCK M” (minute), then adjust the minute.

3 Finish the procedure.



<p>To check the current clock time when the power is turned off</p>	
--	--

Radio operations



Selected band appears.

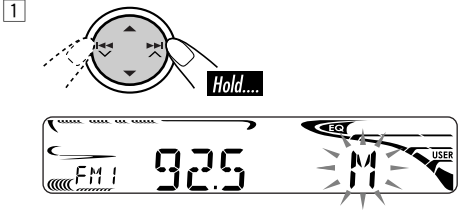
3 Start searching for a station.



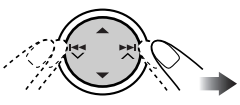
When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

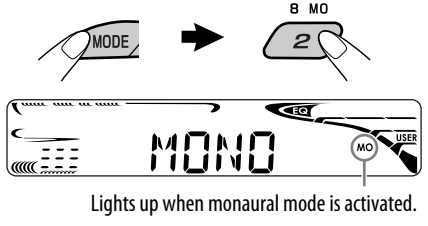
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Reception improves, but stereo effect will be lost.

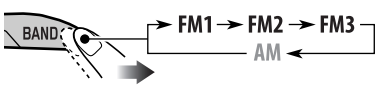
To restore the stereo effect, repeat the same procedure. “MONO OFF” appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.



“SSM” flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

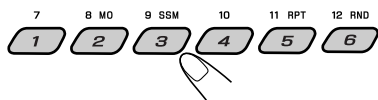
Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.

-
-
- Hold...

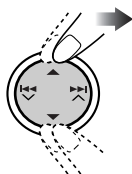
Preset number flashes for a while.

Listening to a preset station

-
- Select the preset station (1 - 6) you want.



or

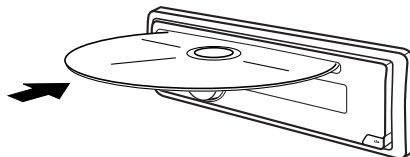


To check the other information while listening to an FM or AM station



Disc operations

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

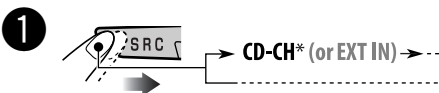
To stop play and eject the disc



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

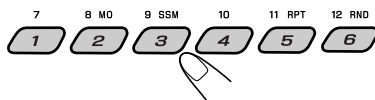
- Ejecting the magazine will also stop playing.



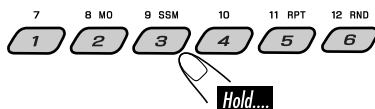
* If you have changed the external input setting to "EXT IN" (see page 13), you cannot select the CD changer.

- Select a disc.

For disc number from 01 - 06:



For disc number from 07 - 12:



About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

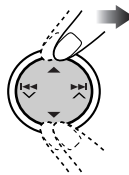
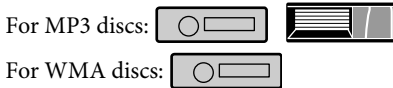
To fast-forward or reverse the track



To go to the next or previous tracks

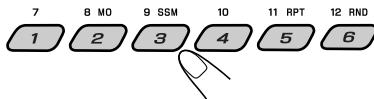


To go to the next or previous folders (only for MP3 or WMA discs)

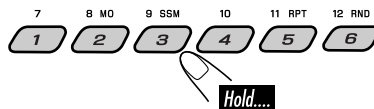


To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:

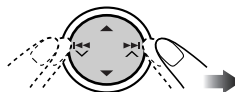


To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

■ Skipping tracks quickly during play



Only possible on JVC
MP3-compatible CD changer

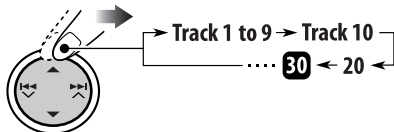
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1



2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.

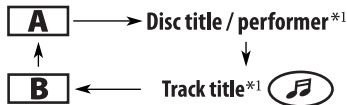


To cancel the prohibition, repeat the same procedure.

Changing the display information

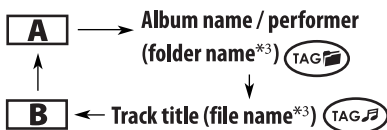


■ While playing an audio CD or a CD Text

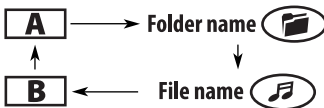


■ While playing an MP3 or a WMA*2 disc

- When "TAG DISP" is set to "TAG ON" (see page 13)



- When "TAG DISP" is set to "TAG OFF"



- A** : Clock with the current track number
- B** : Elapsed playing time with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

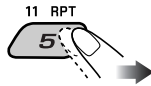
Selecting the playback modes

You can use only one of the following playback modes at a time.



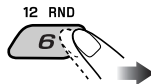
2 Select your desired playback mode.

■ Repeat play



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT *4	: All tracks of the current folder.
DISC RPT *5	: All tracks of the current disc.
RPT OFF	: Cancels.

■ Random play



Mode	Plays at random
FLDR RND *4	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND *5	: All tracks of the inserted discs.
RND OFF	: Cancels.

*4 Only while playing an MP3 or a WMA disc.

*5 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).



Ex.: When "ROCK" is selected

Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

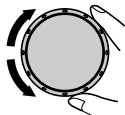
Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...

2

**Indication [Range]****BAS***1 (bass)

Adjust the bass. [-06 to +06]

TRE*1 (treble)

Adjust the treble. [-06 to +06]

FAD*2 (fader)Adjust the front and rear speaker balance.
[R06 to F06]**BAL***3 (balance)Adjust the left and right speaker balance.
[L06 to R06]**LOUD***1 (loudness)Boost low and high frequencies to produce
a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]**SUB.W***4 (subwoofer)

Adjust the subwoofer output level. [00 to 08]

VOL (volume)

Adjust the volume. [00 to 30 or 50*5]

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*2 If you are using a two-speaker system, set the fader level to "00."

*3 This adjustment cannot affect the subwoofer output.

*4 This takes effect only when a subwoofer is connected.
Displayed only when "L/O MODE" is set to "WOOFER" (see page 13).

*5 Depending on the amplifier gain control setting. (See page 13 for details.)

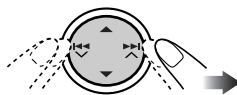
General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.

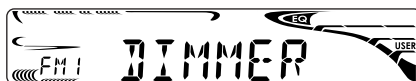
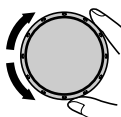
1



2 Select a PSM item.



3 Adjust the PSM item selected.



Ex.: When "DIMMER" is selected

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	1 – 12, [6] [Initial: 1 (1:00)]
CLOCK M Minute adjustment	00 – 59, [6] [Initial: 00 (1:00)]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
SCROLL *6 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
WOOFER *7 Subwoofer cutoff frequency	LOW : Frequencies lower than 90 Hz are sent to the subwoofer. MID : [Initial]; Frequencies lower than 135 Hz are sent to the subwoofer. HIGH : Frequencies lower than 180 Hz are sent to the subwoofer.
EXT IN *8 External input	CHANGER : [Initial]; To use a JVC CD changer, [8], an Apple iPod or a JVC D. player, [14]. EXT IN : To use any other external component than the above, [16].
L/O MODE Line output mode	When connecting the amplifier or subwoofer, set this correctly. REAR : [Initial]; Select if the REAR LINE OUT terminals are used for connecting the speakers through an external amplifier. WOOFER : Select if the REAR LINE OUT terminals are used for connecting a subwoofer through an external amplifier.
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [10]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50

*6 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*7 Displayed only when "L/O MODE" is set to "WOOFER."

*8 Displayed only when one of the following sources is selected—FM, AM, or DISC.

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player: Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

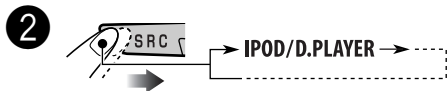
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

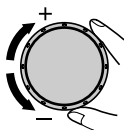
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 13.





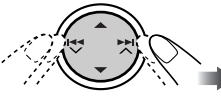
Playback starts automatically from where it has been paused*¹ or stopped*² previously.

- 3 **Adjust the volume.**



- 4 **Adjust the sound as you want. (See pages 11 and 12.)**

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*¹ or stop*² playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	
<p>To go to the next or previous tracks</p>	

*¹ For iPod

*² For D. player

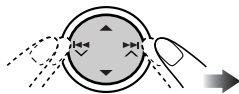
Selecting a track from the menu

- 1 **Enter the main menu.**



Now the ▲/▼/◀◀/▶▶/▲ buttons work as the menu selecting buttons*³.

- 2 **Select the desired menu.**



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps **2** and **3** until the desired track is played.
- Holding ◀◀◀ ▼/▶▶▶ ▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

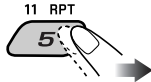
Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

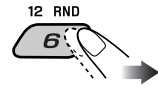
ALL RPT

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBM RND*4

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check the other information while listening to an iPod or a D. player

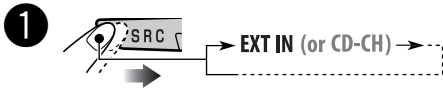


Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

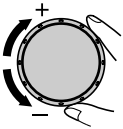
For listening to the iPod or D. player, refer to pages 14 and 15.



If “EXT IN” does not appear, see page 13 and select the external input (“EXT IN”).

- 2 Turn on the connected component and start playing the source.

- 3 Adjust the volume.



- 4 Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component



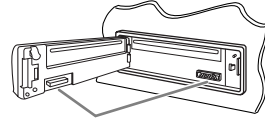
Clock ↔ EXT IN

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



Center holder

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

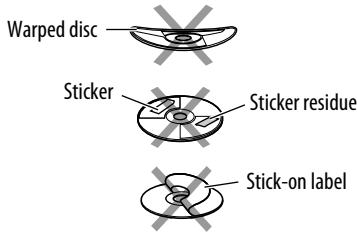
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Do not use the following discs:



More about this unit

Basic operations

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.

To be continued...

- CD-R/CD-RW on which the files are written with “Packet Write” method.
- There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code `<.mp3>` or `<.wma>` (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—`<.mp3>` or `<.wma>`).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters

- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 13). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections.
FM/AM	• SSM automatic presetting does not work.	Reset the unit (see page 2).
	• Static noise while listening to the radio.	Store stations manually.
Disc playback	• Disc cannot be played back.	Connect the antenna firmly.
	• CD-R/CD-RW cannot be played back.	Insert the disc correctly.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW.
	• Disc can be neither played back nor ejected.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc sound is sometimes interrupted.	• Unlock the disc (see page 10).
MP3/WMA playback	• "NO DISC" appears on the display.	• Eject the disc forcibly (see page 2).
	• Disc cannot be played back.	• Stop playback while driving on rough roads.
	• Noise is generated.	• Change the disc.
		• Check the cords and connections.
		Insert a playable disc into the loading slot.
		• Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.
		• Add the extension code <.mp3> or <.wma> to the file names.
		Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

To be continued...

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 14).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Subwoofer-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: 531 kHz to 1 602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media[®] Audio) Decoding

Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

หากมีปัญหาในการใช้งาน
กรุณากดปุ่มตั้งค่าเริ่มต้นใหม่
กรุณาดูหน้าวิธีตั้งค่าเครื่องใหม่

JVC



EN, TH

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1105DTSMDTJEIN

JVC KD-G425

Installation/Connection Manual

การติดตั้ง/คู่มือการติดตั้ง

GET0350-006A
[U/UH]

1105DTSMDTJEIN
EN, TH

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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

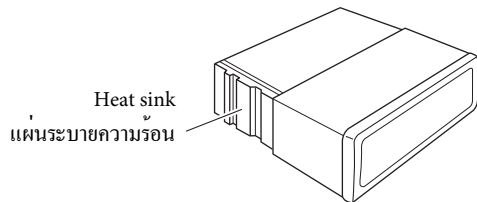
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ไทย

ชุดประกอบนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบ กระแสไฟฟ้าสายดินขั้วลบกระแสดตรง **12 โวลท์** หากรถยนต์ของคุณไม่ใช้ระบบนี้ ต้องใช้เครื่องแปลงกระแสไฟด้วย ซึ่งสามารถหาซื้อได้จากร้านขายเครื่องเสียงรถยนต์ JVC

คำเตือน

เพื่อป้องกันการเกิดไฟฟ้าลัดวงจรขอแนะนำให้ปลดขั้วแบตเตอรี่ลบออกแล้วจึงต่อสายไฟก่อนติดตั้งเครื่อง

- ตรวจสอบให้แน่ใจว่าได้เดินสายดินต่อระหว่างเครื่องกับตัวถัง รถยนต์ใหม่แล้วหลังจากติดตั้ง

หมายเหตุ:

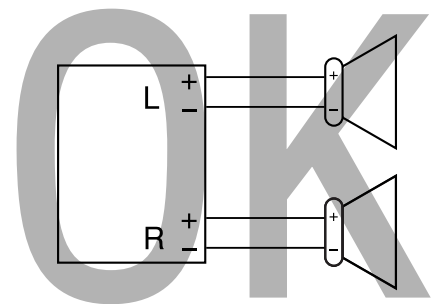
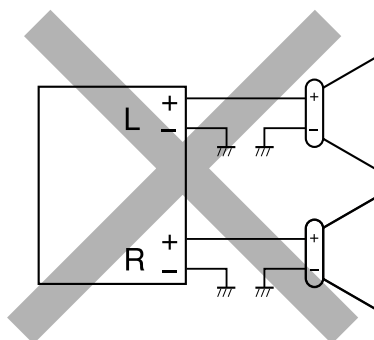
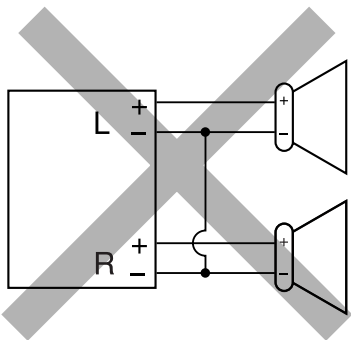
- ใช้ฟิวส์เฉพาะแทนฟิวส์ หากฟิวส์ขาดบ่อย ให้ปรึกษา ร้านขายเครื่องเสียงรถยนต์ JVC
- ขอแนะนำให้ต่อลำโพง ที่มีกำลังขับสูงสุดเกินกว่า 50 W (ทั้งด้านหน้าและด้านหลัง) มีความต้านทาน **4 Ω ถึง 8 Ω** ถ้ากำลังขับต่ำกว่า 50 W ให้เปลี่ยนค่า "AMP GAIN" เพื่อป้องกันไม่ให้ลำโพงชำรุด (ดูหน้า 13 กันแนะนำ)
- การป้องกันการลัดวงจร จะต้องพันขั้วสายตะกั่ว ที่ไม่ใช่แล้วด้วยเทป ปพันสายไฟ
- แผ่นระบายความร้อนจะร้อนมากหลังจากใช้ ระวังอย่าไป สัมผัสเมื่อถอดชุดประกอบนี้

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

ข้อควรระวังสำหรับการต่อแหล่งจ่ายกำลังและลำโพง:

- อย่าต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับแบตเตอรี่รถยนต์ มิฉะนั้น ชุดประกอบจะได้รับความเสียหายมาก
- ก่อนที่จะต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับลำโพง ให้ตรวจสอบการเดินสายไฟลำโพงในรถของคุณให้เรียบร้อยเสียก่อน



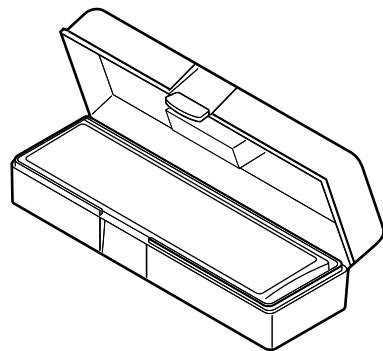
Parts list for installation and connection

The following parts are provided for this unit. After checking them, please set them correctly.

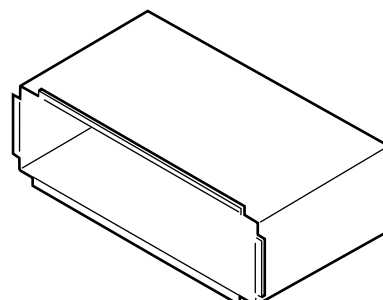
รายการส่วนประกอบสำหรับติดตั้งและเชื่อมต่อกัน

ส่วนประกอบต่อไปนี้ใหม่กับชุดประกอบนี้ หลังจากตรวจสอบแล้ว ปรับตั้งเครื่องให้ถูกต้อง

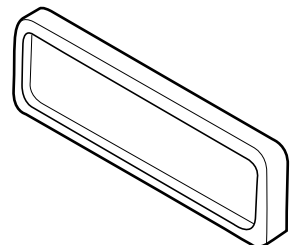
(A) / (B)
Hard case/Control panel
กล่องบรรจุ/หน้าปัด



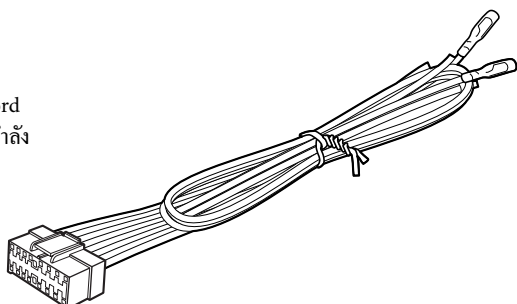
(C)
Sleeve
ปลอกหุ้ม



(D)
Trim plate
แผ่นโลหะขอบแต่ง



(E)
Power cord
สายเคเบิลกำลัง



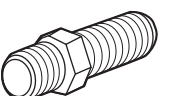
(F)
Washer (φ5)
ประเก็นวงแหวน (φ5)



(G)
Lock nut (M5)
นอตล็อก (M5)



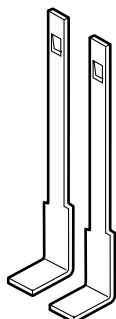
(H)
Mounting bolt (M5 × 20 mm)
สลักกีด (M5 × 20 มม.)



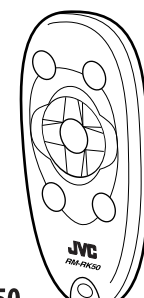
(I)
Rubber cushion
ยางกันกระแทก



(J)
Handles
คันบังคับ



(K)
Remote controller
รีโมทคอนโทรล



(L)
Battery
แบตเตอรี่



CR2025

RM-RK50

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

1 Insert the unit into the dashboard.

2 Push the unit into the dashboard until it is flush.

3 Insert the sleeve into the unit. Bend the tabs to hold the sleeve firmly in place.

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*1 เมื่อคุณตั้งชุดประกอบขึ้น ระวังอย่าทำให้ฟิวส์บริเวณส่วนท้ายเสียหาย

การติดตั้ง (การประกอบแผงหน้าปัด)

ภาพตัวอย่างต่อไปนี้แสดงถึงการติดตั้งแบบทั่วไป หากคุณมีปัญหาหรือต้องการข้อมูลเพิ่มเติมเกี่ยวกับชุดติดตั้ง กรุณาปรึกษากับผู้ขายเครื่องเสียงรถยนต์ JVC ของท่านหรือบริษัท

- ชุดประกอบ ถ้าคุณไม่แน่ใจว่าติดตั้งชุดประกอบนี้ถูกต้องหรือไม่ ให้หาช่างผู้เชี่ยวชาญเป็นผู้ติดตั้ง

4 Do the required electrical connections. ต่อสายไฟตามที่กำหนดไว้ทั้งหมด

5 Bend the appropriate tabs to hold the sleeve firmly in place. งอแผ่นเพื่อยึดปลอกให้ตอกันเข้าที่

Removing the unit

Before removing the unit, release the rear section.

1 Release the rear section.

2 Push the rear section back into the dashboard.

การถอดชุดประกอบ

ก่อนจะถอดชุดประกอบ ให้ปลดหน้าตัดส่วนท้ายก่อน

3 Insert the two handles, then pull them as illustrated so that the unit can be removed. ใส่คันบังคับ 2 อันลงในร่องสำหรับไขพื้นลวด ดังภาพ จากนั้นให้เลื่อนชุดประกอบออก ในขณะที่ค่อย ๆ ดึงคันบังคับทั้งสองอันออกจากกัน

When using the optional stay / เมื่อใช้ตัวยึดแบบเลือกได้

Fire wall ผนังกันไฟ

Stay (option) ตัวยึด (เลือกได้)

Dashboard แผงหน้าปัด

Screw (option) กุญ (เลือกได้)

Install the unit at an angle of less than 30°. ติดตั้งชุดประกอบที่มุมต่ำกว่า 30 องศา

When installing the unit without using the sleeve / เมื่อติดตั้งชุดประกอบโดยไม่ใช้ปลอกหุ้ม

In a Toyota car for example, first remove the car radio and install the unit in its place. ตัวอย่างเช่น ในรถยนต์โตโยต้า ให้ถอดวิทยุติดรถยนต์ออกก่อน แล้วจึงติดตั้งเครื่องนี้เข้าแทนที่

Flat type screws (M5 × 8 mm)*2 กุญหัวเรียบ (M5 × 8 มม.)*2

Bracket*2 แทนรองรับ*2

Pocket กะเปาะ

Bracket*2 แทนรองรับ*2

Flat type screws (M5 × 8 mm)*2 กุญหัวเรียบ (M5 × 8 มม.)*2

*2 Not supplied for this unit. *2 ไม่ได้ให้มาพร้อมกับชุดประกอบนี้

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
หมายเหตุ : เมื่อติดตั้งชุดประกอบลงในแทนรองรับไว้ ให้ใช้สกรูยาวขนาด 8 มม. ถ้าใช้สกรูยาวกว่านี้อาจทำให้ชุดประกอบเสียหายได้

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?
- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

การตรวจสอบปัญหานัดของ

- **ฟิวส์ขาด**
* มีการเชื่อม สายตะกั่วสีดำและสีแดงอย่างถูกต้องหรือไม่
- **ไม่สามารถเปิดเครื่องได้**
* มีการเชื่อมสายตะกั่วสีเหลืองหรือไม่
- **ไม่มีเสียงออกจากลำโพง**
* สายตะกั่วส่วนที่ออกทางลำโพงเกิดไฟฟ้าลัดวงจรหรือไม่
- **เสียงเพี้ยน**
* สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
* สายขั้วลบ “-” ของลำโพงคานซ้ายและขวาต่อลงดินตามปกติหรือไม่
- **เสียงรบกวน**
* มีการใช้สายสั้นๆ หรือหนาๆ ต่อจากเครื่องส่วนที่ติดตั้ง ไว้บนพื้นด้านหลังกับตัวถังรถยนต์หรือไม่
- **ชุดประกอบร้อนขึ้น**
* สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
* สายขั้วลบ “-” ของลำโพงคานซ้ายและขวาต่อลงดินตามปกติหรือไม่
- **เครื่องรับทำงานไม่**
* ท่านได้ตั้งเครื่องใหม่แล้วหรือยัง

ELECTRICAL CONNECTIONS

การเชื่อมต่อโดยใช้ไฟฟ้า

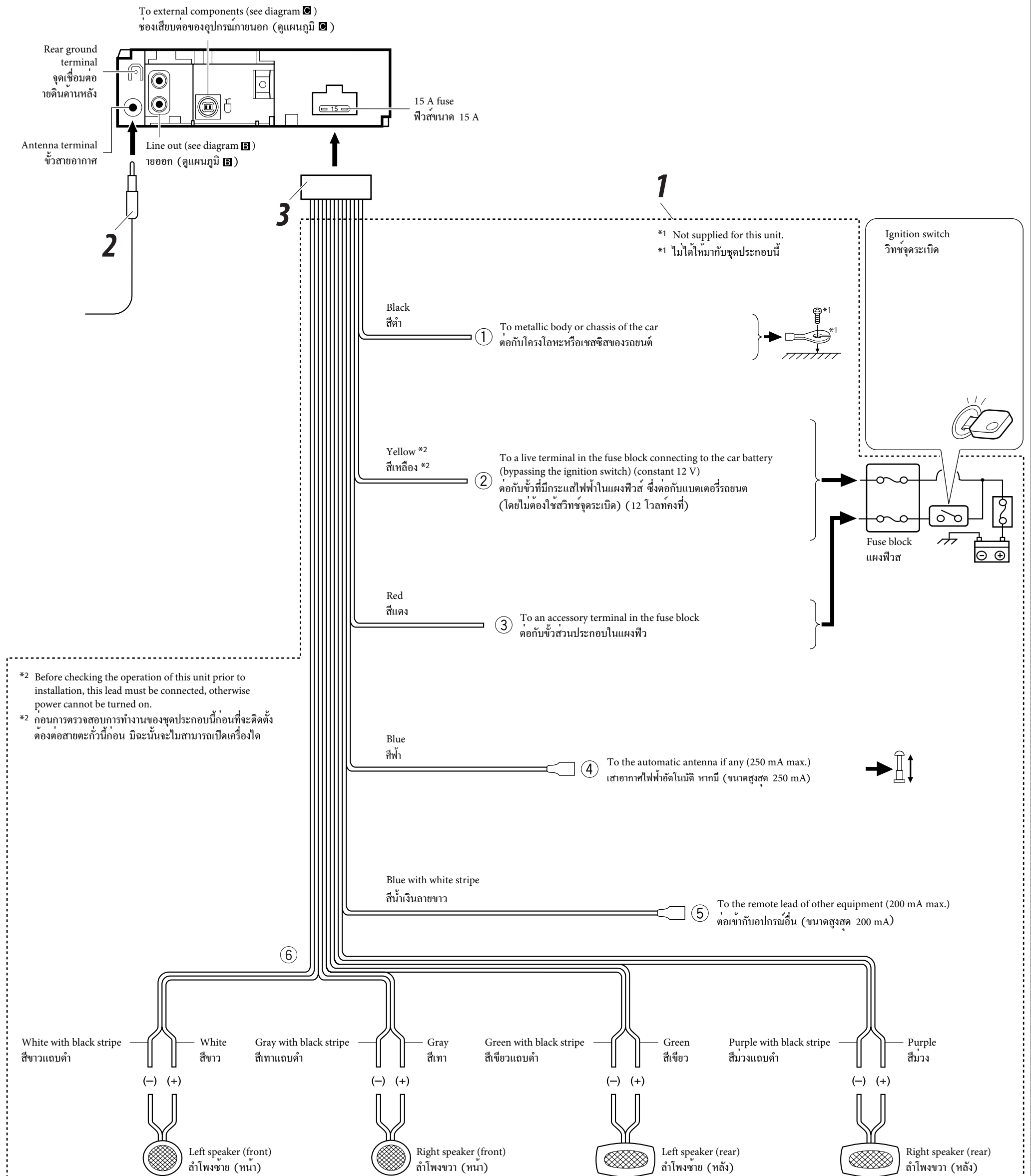
A Typical connections / การเชื่อมต่อแบบปกติ

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

ก่อนทำการเชื่อมต่อ: ตรวจสอบการเดินสายไฟในรถอย่างละเอียดอย่างระมัดระวังอย่าให้ผิดพลาดใด ๆ การเชื่อมต่อที่ผิดพลาดอาจก่อให้เกิดความเสียหายร้ายแรงแก่ชุดประกอบ
กอลดีได้นี้ได้ตัดสายไฟ และของอุปกรณ์ต่อเชื่อมจากตัวรถจลอาจมี ที่ไม่เหมือนกัน

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

- 1 ต่อสายไฟสีตามลำดับที่ระบุในรูปด้านล่าง
- 2 เชื่อมต่อกับสายอากาศ
- 3 สุดท้าย ต่อส่วนควบคุมการเดินสายไฟเข้ากับชุดประกอบชุดนี้



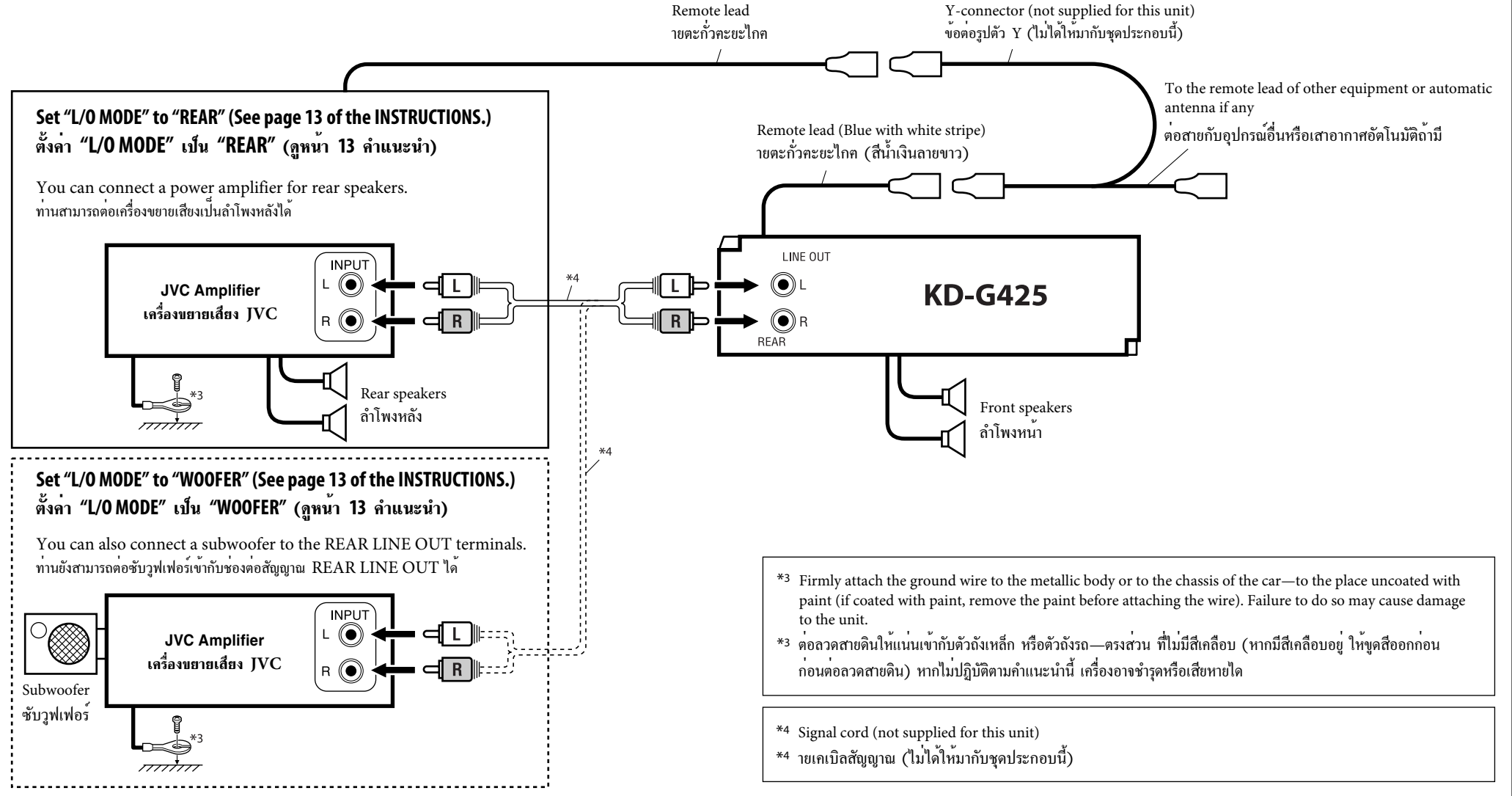
B Connecting the external amplifier or subwoofer / ต่อแอมพลิฟายเออร์หรือซับวูฟเฟอร์ภายนอก

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

คุณสามารถต่อกับแอมพลิฟายเออร์ เพื่อเพิ่มคุณภาพเสียงให้กับระบบสเตอริโอของรถยนต์

- ต่อสายตัวกระชาก (สีน้ำเงินลายขาว) เข้ากับสายตัวกระชากของอุปกรณ์อื่น ๆ เพื่อจะสามารถควบคุมโดยชุดประกอบนี้ได้
- ถอดลำโพงออกจากชุดประกอบนี้ แล้วต่อเข้ากับเครื่องขยาย ทั้งสายตัวกระชากลำโพงของชุดประกอบนี้ไว้



C Connecting the external components / การต่อเพิ่มเติมเข้ากับอุปกรณ์อื่นๆ

CD changer, Apple iPod®, or JVC D. player / CD เชนเจอร์, Apple iPod® หรือเครื่องเล่น JVC D.

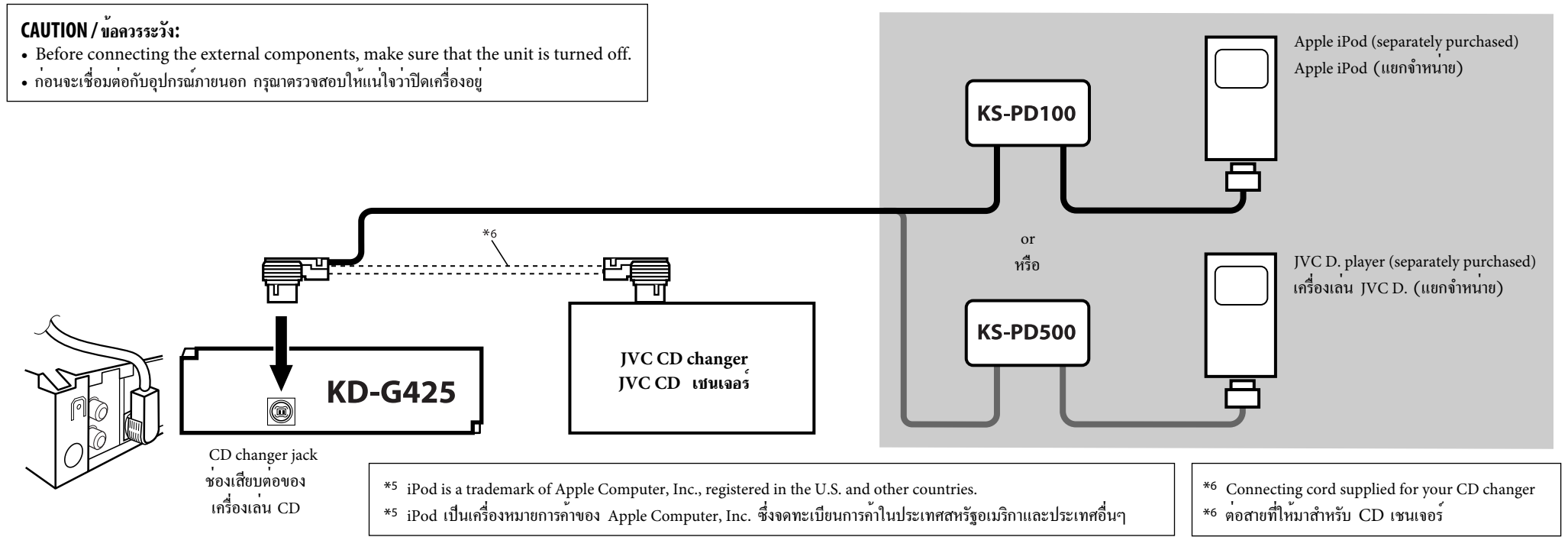
- Set "CHANGER" for the external input setting (See page 13 of the INSTRUCTIONS.) / ตั้งค่า "CHANGER" เป็นการตั้งค่ารับสัญญาณอุปกรณ์ภายนอก (ดูหน้า 13 คำแนะนำ)

You can connect these components as illustrated below.

The iPod®5 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).

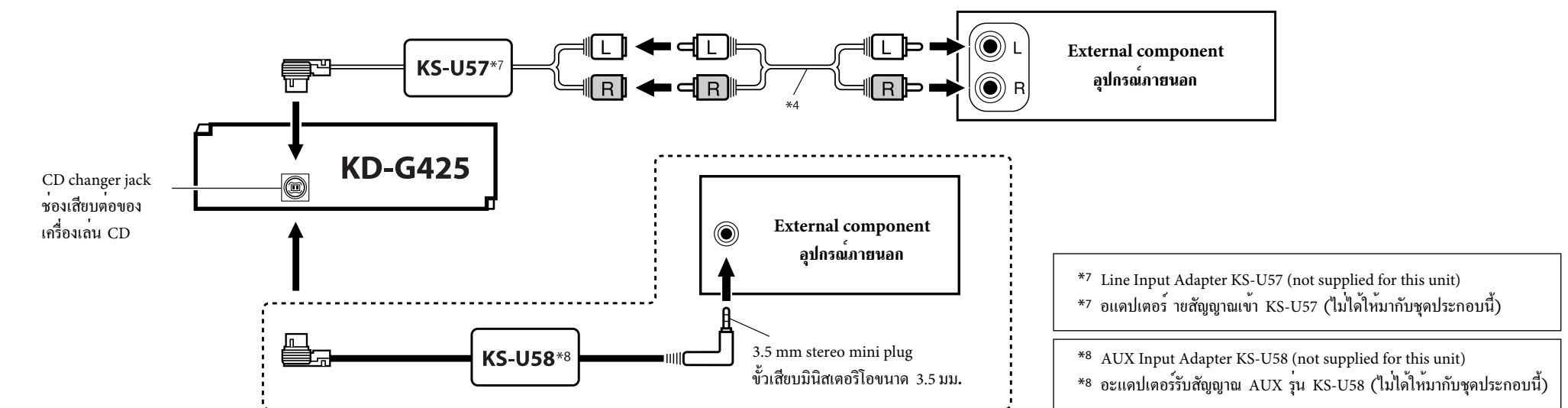
ท่านสามารถต่ออุปกรณ์ดังกล่าวตามภาพแสดงด้านล่าง

ท่านสามารถเชื่อมต่อกับ iPod®5 หรือเครื่องเล่น D. โดยใช้อินเทอร์เฟซอะแดปเตอร์ (ไม่มีมาให้)—KS-PD100 (สำหรับ iPod) หรือ KS-PD500 (สำหรับเครื่องเล่น D.)



Other external component / อุปกรณ์ภายนอกอื่นๆ

- Set "EXT IN" for the external input setting (See page 13 of the INSTRUCTIONS.) / ตั้งค่า "EXT IN" เป็นการตั้งค่ารับสัญญาณอุปกรณ์ภายนอก (ดูหน้า 13 คำแนะนำ)



JVC



ENGLISH

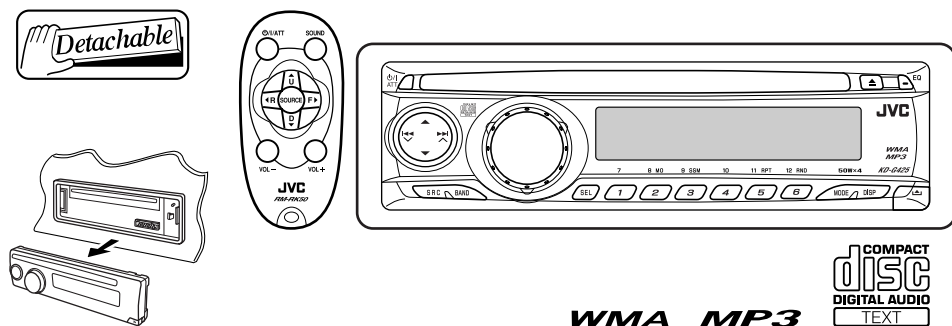
INDONESIA

CD RECEIVER

KD-G425

ALAT PENERIMA CD

KD-G425



For canceling the display demonstration, see page 6.
Untuk membatalkan tampilan demonstrasi, lihat halaman 6.

For installation and connections, refer to the separate manual.
Untuk instalasi dan penyambungan, lihat buku pedoman terpisah.

INSTRUCTIONS BUKU PETUNJUK

GET0350-004A
[UN]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åpen eller interlocken fejler. Unngå direkte eksponering til stråling. (e)	WARNING: Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (d)	VARO: Avattensa ja suojelehdus ohjeittuna tai viattaisena olet alittuna näkyväille ja näkymättömälle lasersäteilylle. Vältä säteen kohdistamista suoraan itseesi. (f)
--	---	--	--

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

How to reset your unit



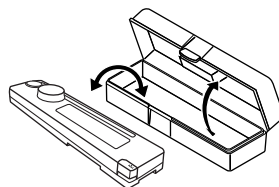
- Your preset adjustments will also be erased.
- If a disc is loaded, it will eject. Be careful not to drop the disc.

How to forcibly eject a disc

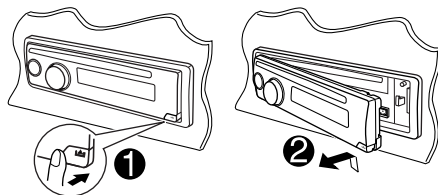


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

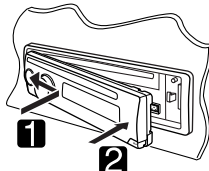
How to detach/attach the control panel



Detaching...




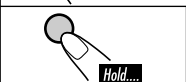
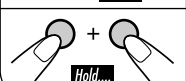


Attaching...






How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 17 – 19).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

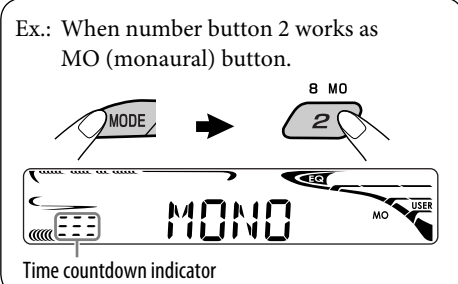
The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.



Time countdown indicator

To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

CONTENTS

Control panel	4
Remote controller — RM-RK50	5
Getting started	6
Basic operations	6
Radio operations	7
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For safety...

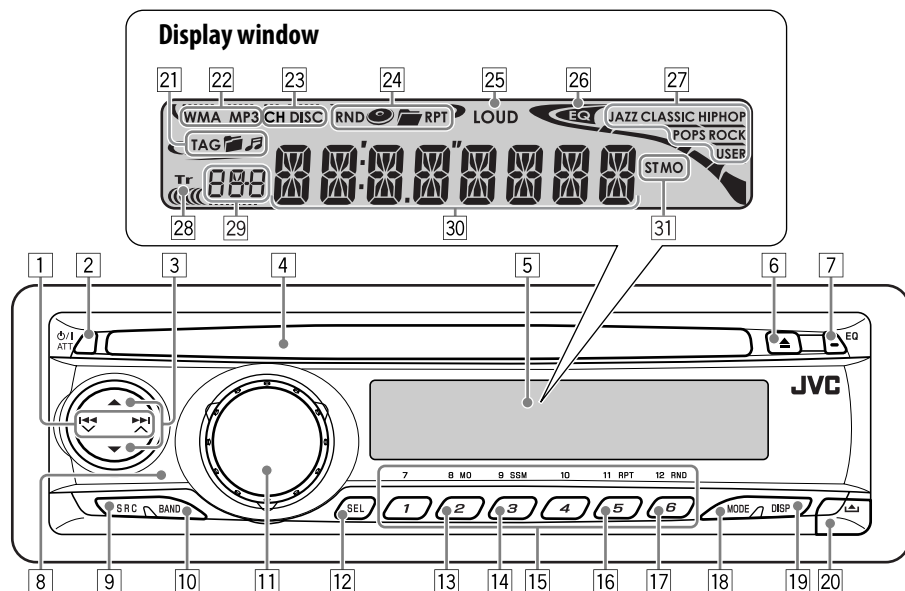
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification

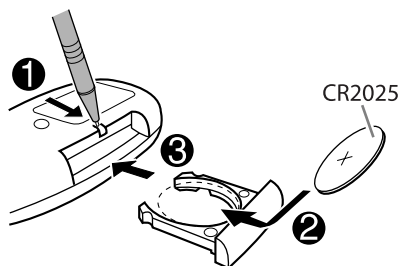


- 1 ◀◀ ◻ ▶▶ ▶▶ buttons
- 2 ⏻/ATT (standby/on attenuator) button
- 3 ▲ (up) / ▼ (down) buttons
- 4 Loading slot
- 5 Display window
- 6 ▲ (eject) button
- 7 EQ (equalizer) button
- 8 Remote sensor
DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 9 SRC (source) button
- 10 BAND button
- 11 Control dial
- 12 SEL (select) button
- 13 MO (monaural) button
- 14 SSM (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 MODE button
- 19 DISP (display) button
- 20 ◻ (control panel release) button

Display window

- 21 Disc information indicators—TAG (ID3 Tag), ◻ (folder), 🎵 (track/file)
- 22 Disc type indicators—WMA, MP3
- 23 Playback source indicators—
CH: *Lights up only when CD-CH is selected as the playback source.*
DISC: *Lights up for the built-in CD player.*
- 24 Playback mode / item indicators—
RND (random), 🎱 (disc), ◻ (folder), RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 28 Tr (track) indicator
- 29 Source display / Volume level indicator
- 30 Main display
- 31 Tuner reception indicators—ST (stereo), MO (monaural)

Installing the lithium coin battery (CR2025)

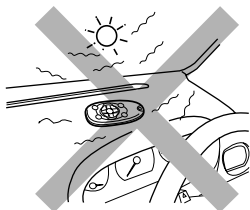


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

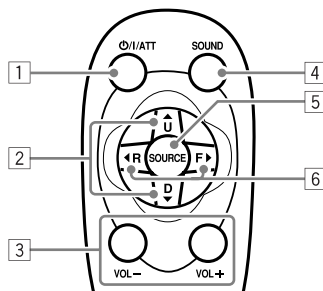
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



- 1 **⏻/⏻/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
- 2 **▲ U** (up) / **D** (down) **▼** buttons
 - Changes the FM/AM bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enters the main menu with **▲ U**. (Now **▲ U/D ▼/◀ R/F ▶** work as the menu selecting buttons.)*
- 3 **VOL - / VOL +** buttons
 - Adjusts the volume level.
- 4 **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
- 5 **SOURCE** button
 - Selects the source.

* **▲ U** : Returns to the previous menu.

D ▼ : Confirms the selection.

To be continued...

- 6 ◀ R (reverse) / F (forward) ▶ buttons
- Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

Getting started

Basic operations

- 1 Turn on the power.

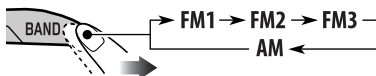


2

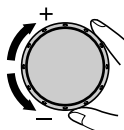


* You cannot select these sources if they are not ready or not connected.

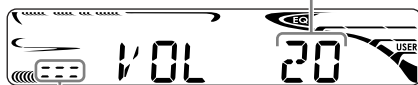
- 3 For FM/AM tuner



- 4 Adjust the volume.



Volume level appears.



Volume level indicator

- 5 Adjust the sound as you want. (See pages 11 and 12.)

To drop the volume in a moment (ATT)

To restore the sound, press it again.



To turn off the power



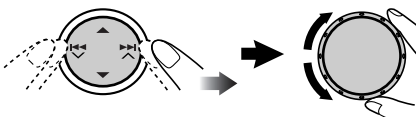
Basic settings

- See also “General settings — PSM” on pages 12 and 13.

1



2



- 1 Canceling the display demonstrations

Select “DEMO,” then “DEMO OFF.”

- 2 Setting the clock

Select “CLOCK H” (hour), then adjust the hour.

Select “CLOCK M” (minute), then adjust the minute.

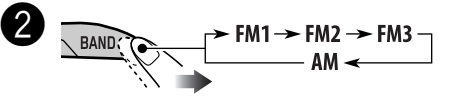
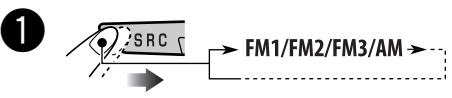
- 3 Finish the procedure.



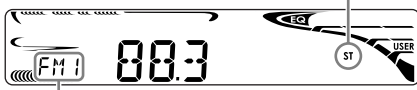
To check the current clock time when the power is turned off



Radio operations



Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

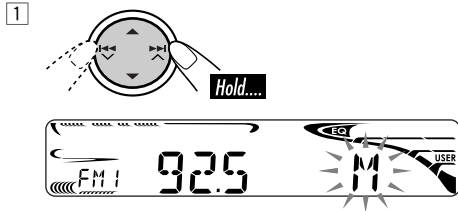
3 Start searching for a station.



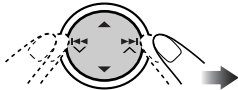
When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

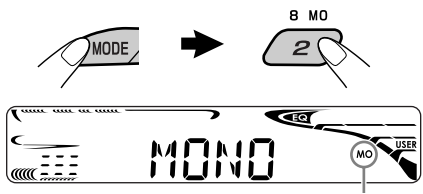
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.

Reception improves, but stereo effect will be lost.

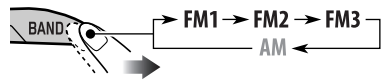
To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

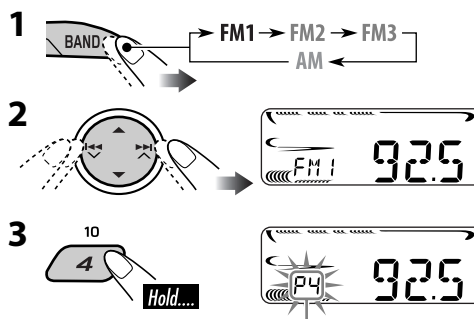


"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

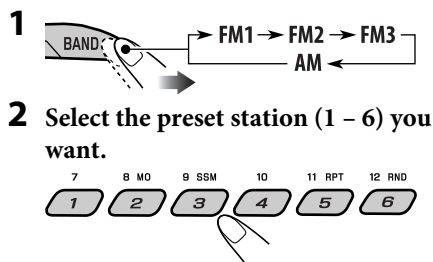
Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.



Preset number flashes for a while.

Listening to a preset station



or

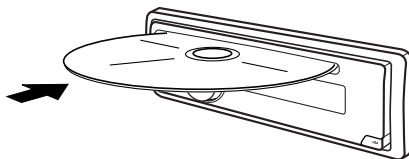


To check the other information while listening to an FM or AM station



Disc operations

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

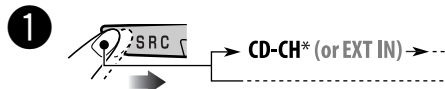
To stop play and eject the disc



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

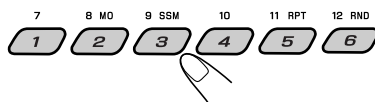
- Ejecting the magazine will also stop playing.



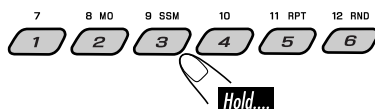
* If you have changed the external input setting to "EXT IN" (see page 13), you cannot select the CD changer.

2 Select a disc.

For disc number from 01 - 06:



For disc number from 07 - 12:



About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

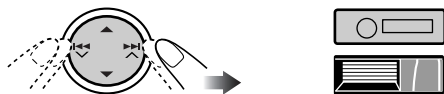
It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track




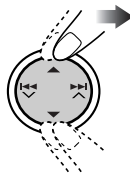
To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

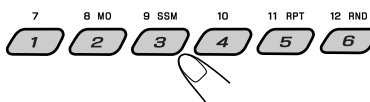
For MP3 discs:  

For WMA discs: 

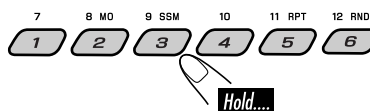


To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:




To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

■ Skipping tracks quickly during play



Only possible on JVC
MP3-compatible CD changer

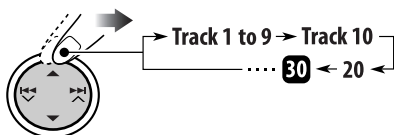
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1



2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

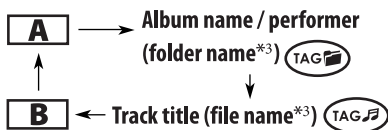


■ While playing an audio CD or a CD Text

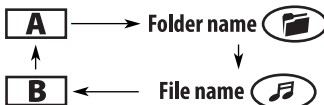


■ While playing an MP3 or a WMA*2 disc

- When "TAG DISP" is set to "TAG ON" (see page 13)



- When "TAG DISP" is set to "TAG OFF"



A : Clock with the current track number

B : Elapsed playing time with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

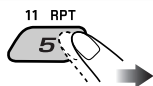
Selecting the playback modes

You can use only one of the following playback modes at a time.



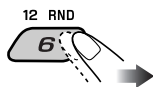
2 Select your desired playback mode.

Repeat play



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT *4	: All tracks of the current folder.
DISC RPT *5	: All tracks of the current disc.
RPT OFF	: Cancels.

Random play



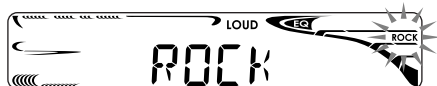
Mode	Plays at random
FLDR RND *4	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND *5	: All tracks of the inserted discs.
RND OFF	: Cancels.

*4 Only while playing an MP3 or a WMA disc.

*5 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).

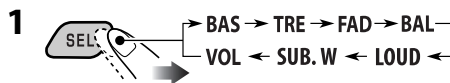


Ex.: When "ROCK" is selected

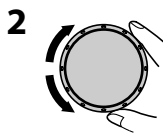
Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...



Indication [Range]

BAS*¹ (bass)

Adjust the bass. [-06 to +06]

TRE*¹ (treble)

Adjust the treble. [-06 to +06]

FAD*² (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL*³ (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*¹ (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

SUB.W*⁴ (subwoofer)

Adjust the subwoofer output level. [00 to 08]

VOL (volume)

Adjust the volume. [00 to 30 or 50*⁵]

*¹ When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*² If you are using a two-speaker system, set the fader level to "00."

*³ This adjustment cannot affect the subwoofer output.

*⁴ This takes effect only when a subwoofer is connected.

Displayed only when "L/O MODE" is set to "WOOFER" (see page 13).

*⁵ Depending on the amplifier gain control setting. (See page 13 for details.)

General settings — PSM

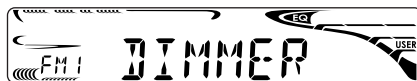
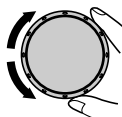
You can change PSM (Preferred Setting Mode) items listed in the table that follows.



2 Select a PSM item.



3 Adjust the PSM item selected.



Ex.: When "DIMMER" is selected

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	1 – 12, [6] [Initial: 1 (1:00)]
CLOCK M Minute adjustment	00 – 59, [6] [Initial: 00 (1:00)]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
SCROLL *6 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
WOOFER *7 Subwoofer cutoff frequency	LOW : Frequencies lower than 90 Hz are sent to the subwoofer. MID : [Initial]; Frequencies lower than 135 Hz are sent to the subwoofer. HIGH : Frequencies lower than 180 Hz are sent to the subwoofer.
EXT IN *8 External input	CHANGER : [Initial]; To use a JVC CD changer, [8], an Apple iPod or a JVC D. player, [14]. EXT IN : To use any other external component than the above, [16].
L/O MODE Line output mode	When connecting the amplifier or subwoofer, set this correctly. REAR : [Initial]; Select if the REAR LINE OUT terminals are used for connecting the speakers through an external amplifier. WOOFER : Select if the REAR LINE OUT terminals are used for connecting a subwoofer through an external amplifier.
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [10]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50

*6 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*7 Displayed only when “L/O MODE” is set to “WOOFER.”

*8 Displayed only when one of the following sources is selected—FM, AM, or DISC.

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player:
Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

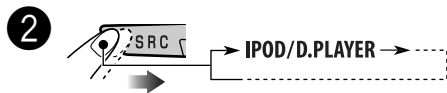
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

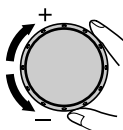
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 13.




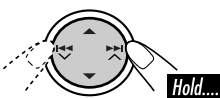
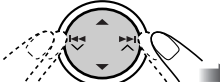
Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	 <p>Hold....</p>
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/◀/▶/⏪/⏩/⏮/⏭ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps **2** and **3** until the desired track is played.
- Holding |◀◀ ▼/▶▶| ▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

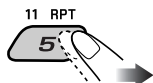
Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

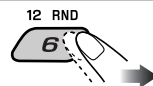
ALL RPT

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

■ Random play



ALBM RND*4

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check the other information while listening to an iPod or a D. player

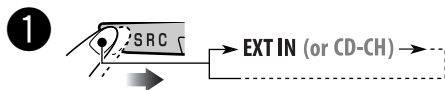


Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

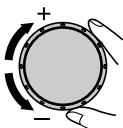
For listening to the iPod or D. player, refer to pages 14 and 15.



If “EXT IN” does not appear, see page 13 and select the external input (“EXT IN”).

- 2 Turn on the connected component and start playing the source.

- 3 Adjust the volume.



- 4 Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component



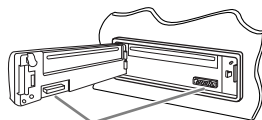
Clock ↔ EXT IN

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

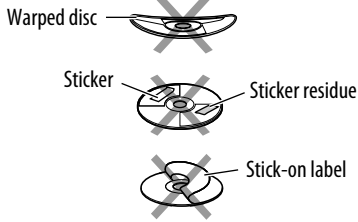
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Do not use the following discs:



More about this unit

Basic operations

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.

To be continued...

- CD-R/CD-RW on which the files are written with “Packet Write” method.
- There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters

- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 13). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections. Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• “NO DISC” appears on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

To be continued...

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 14).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Subwoofer-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: 531 kHz to 1 602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media[®] Audio) Decoding Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

**Ada MASALAH dengan cara
pengoperasian?**

Setel kembali unit Anda

Lihat halaman mengenai Bagaimana mereset unit anda

JVC



EN, IN

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1105DTSMDTJEIN

JVC KD-G425

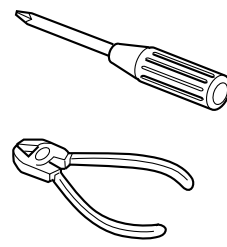
Installation/Connection Manual

Manual Pemasangan/Penyambungan

GET0350-009A
[UN]

1105DTSMDTJEIN
EN, IN

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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

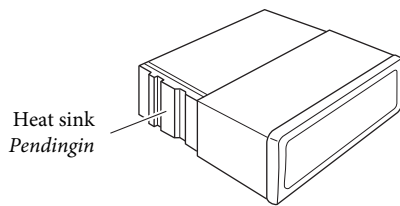
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



INDONESIA

Alat penerima ini didisain untuk beroperasi hanya pada **12 V DC, sistem listrik tanah NEGATIVE**. Jika kendaraan anda tidak memiliki sistem ini, sebuah pembalik tegangan diperlukan, yang mana dapat dibeli di penyalur-penyalur audio mobil JVC.

PERINGATAN

Untuk mencegah hubungan pendek, kami menyarankan anda memutuskan sambungan terminal negatif baterai dan membuat semua sambungan-sambungan listrik sebelum memasang alat penerima.

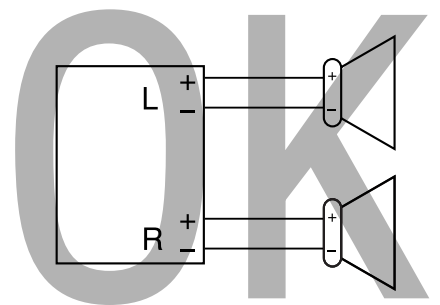
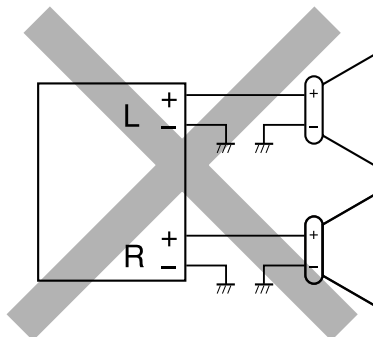
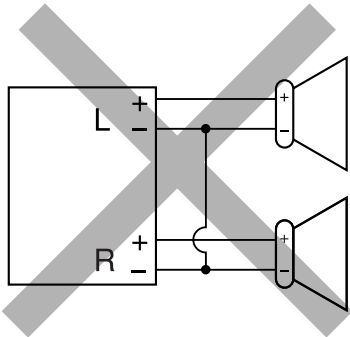
- **Pastikan untuk mentanahkan alat penerima ini ke casis mobil kembali setelah pemasangan.**

Catatan:

- Ganti sekering dengan voltase yang sudah ditetapkan. Jika sekering sering meledak, konsultasikan pada penyalur audio mobil JVC anda.
- Disarankan untuk menghubungkan speaker-speaker dengan maksimum power lebih dari 50 W (keduanya di belakang dan di depan, dengan sebuah impedansi **4 Ω sampai 8 Ω**). Jika maksimum power kurang dari 50 W, ganti pengaturan "AMP GAIN" ("PENAMBAH PENGUAT") untuk mencegah speaker-speaker dari kerusakan (lihat halaman 13 dari BUKU PETUNJUK).
- Untuk mencegah hubungan pendek, tutup ujung-ujung terminal-terminal TIDAK DIGUNAKAN dengan pita isolasi.
- Pendingin menjadi sangat panas setelah digunakan. Hati-hati untuk tidak menyentuhnya ketika memindahkan alat penerima ini.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

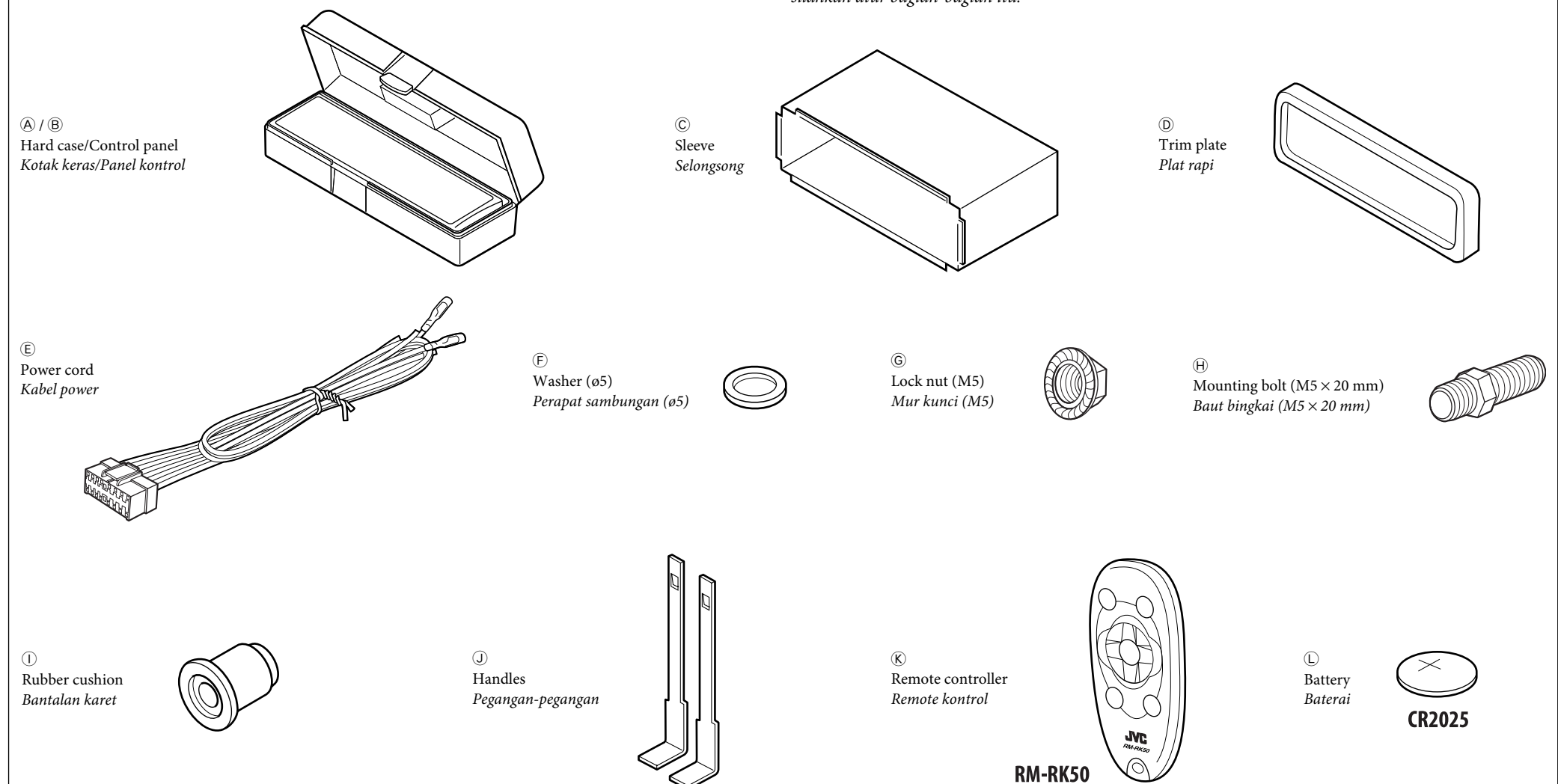


TINDAKAN-TINDAKAN PENCEGAHAN pada suplai power dan sambungan-sambungan speaker:

- **JANGAN sambungkan ujung-ujung speaker dari kabel power ke baterai mobil; sebaliknya, alat penerima tersebut akan secara serius rusak.**
- **SEBELUM menyambung ujung-ujung speaker dari kabel power ke speaker-speaker, cek perkabelan speaker dalam mobil anda.**

Parts list for installation and connection

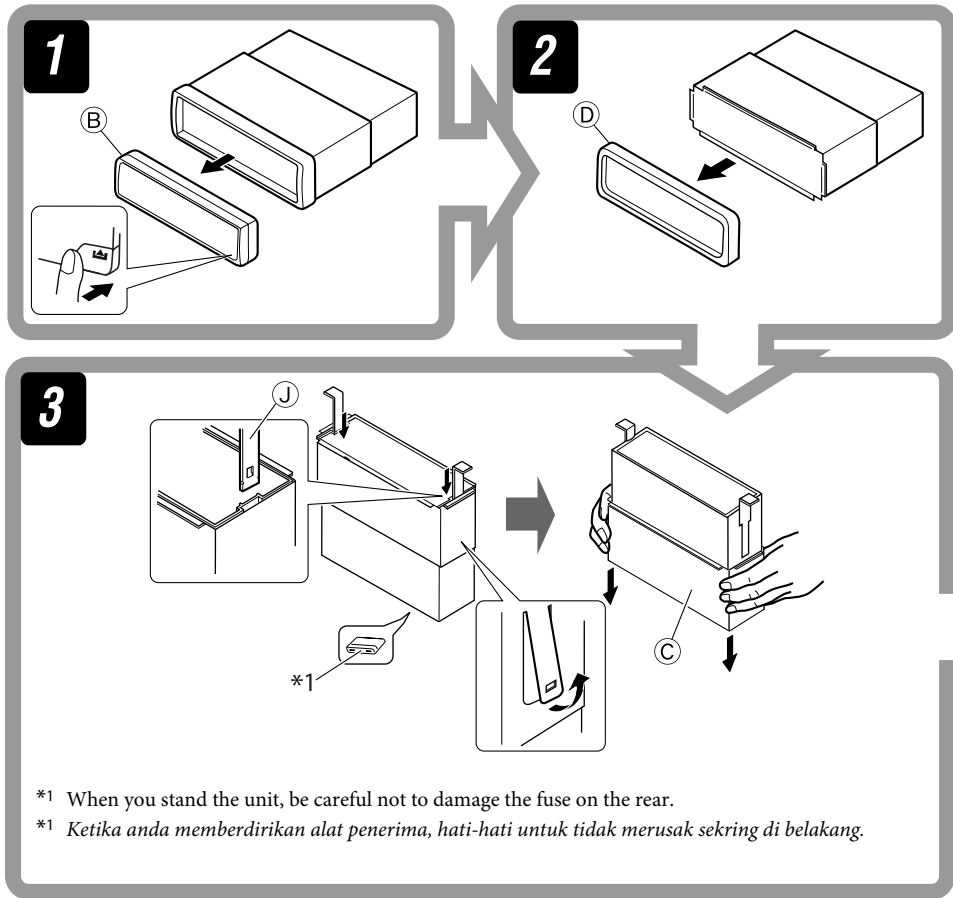
The following parts are provided for this unit. After checking them, please set them correctly.



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

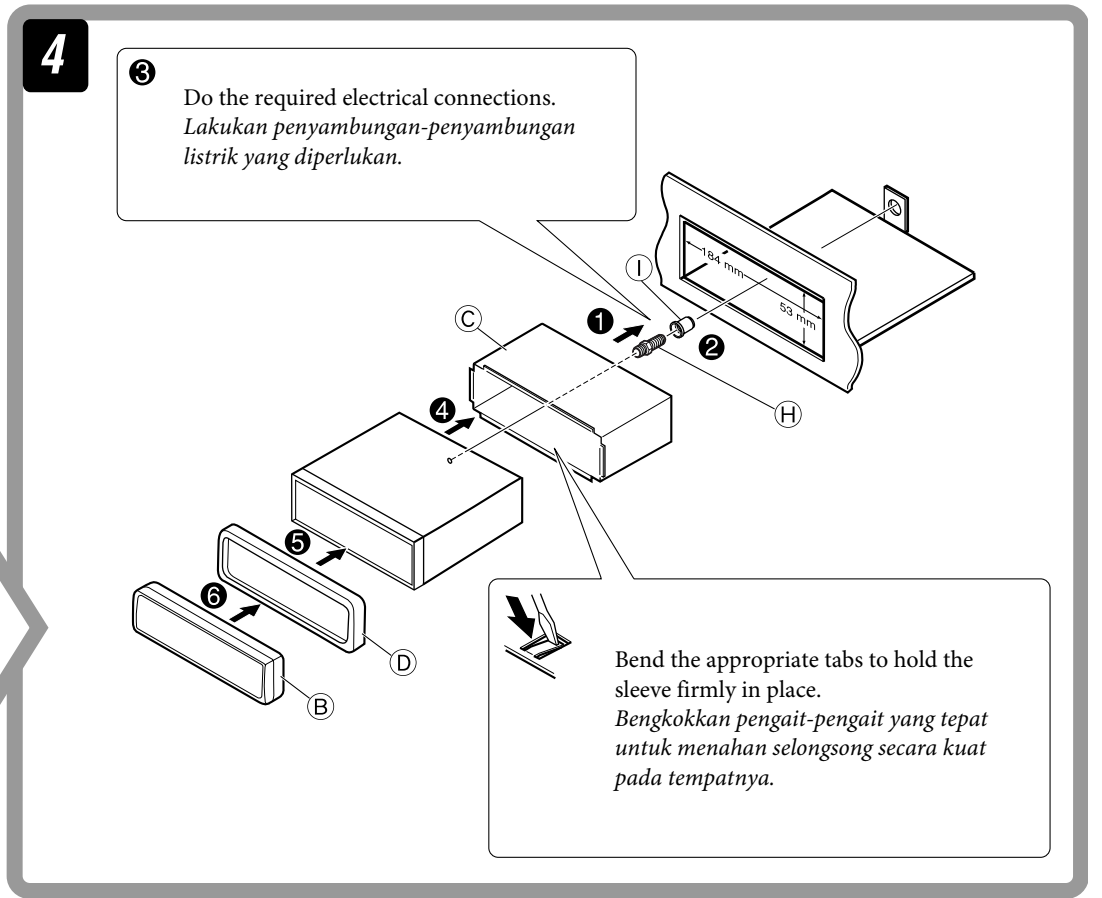
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



PEMASANGAN (BINGKAI-DALAM DASH)

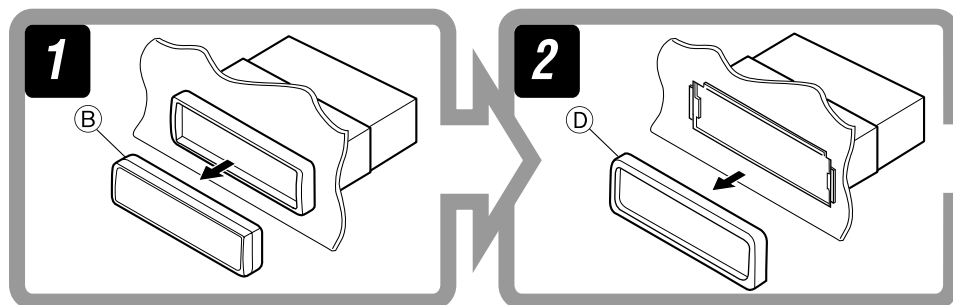
Ilustrasi berikut menunjukkan sebuah tipe pemasangan. Jika anda mempunyai suatu pertanyaan atau informasi yang diperlukan mengenai alat-alat pemasangan, konsultasikan pada penyalur audio mobil JVC atau sebuah perusahaan yang mensuplai alat-alat.

- Jika anda tidak yakin bagaimana memasang alat penerima ini dengan benar, biarkan dipasang dengan teknisi yang berkualitas.



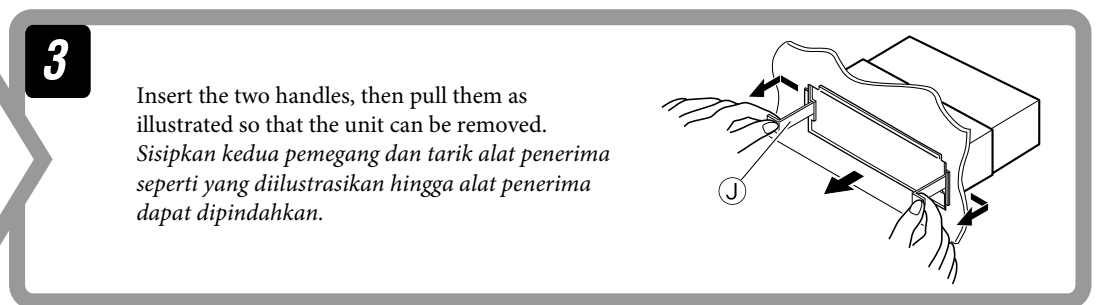
Removing the unit

Before removing the unit, release the rear section.

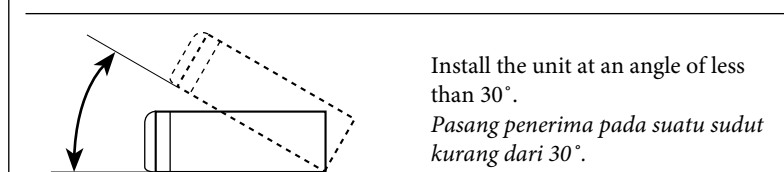
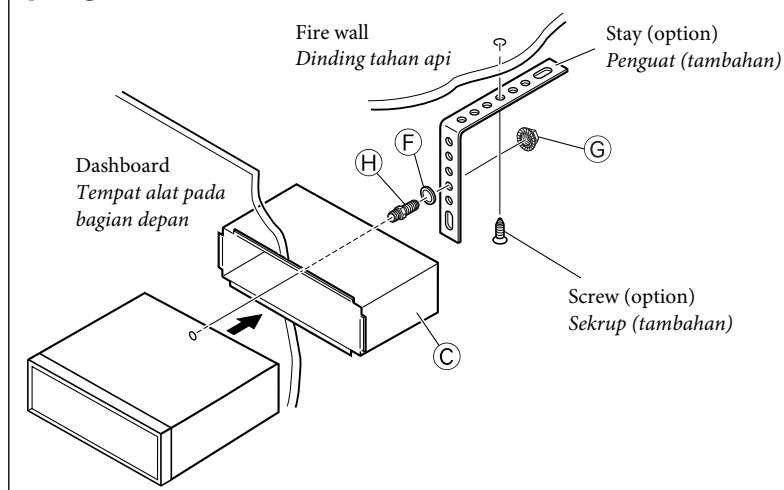


Memindahkan alat penerima

Sebelum memindahkan alat penerima, lepaskan seksi belakang.



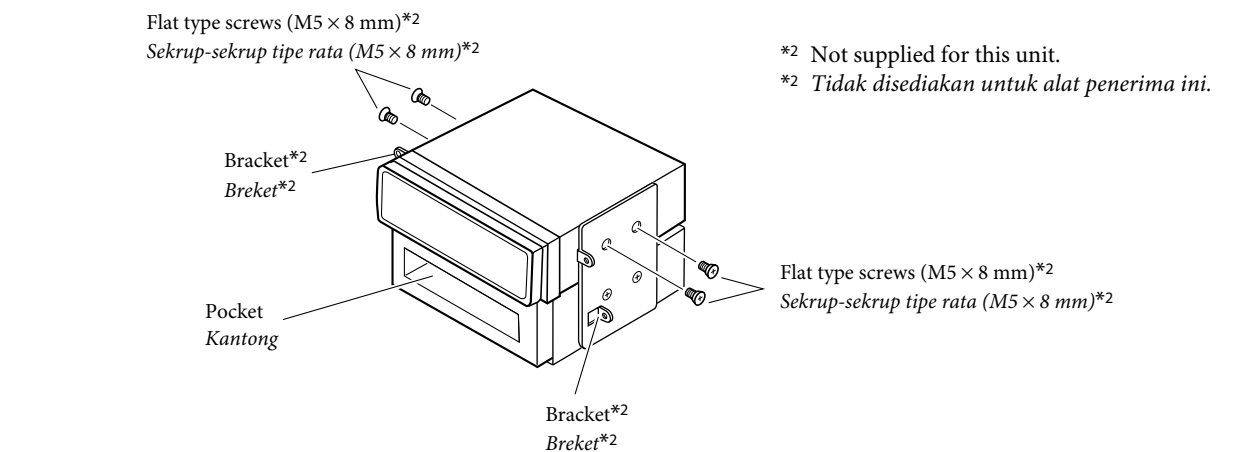
When using the optional stay / Ketika menggunakan penguat tambahan



When installing the unit without using the sleeve / Ketika memasang alat penerima tanpa menggunakan selongsong

In a Toyota car for example, first remove the car radio and install the unit in its place.

Dalam sebuah kereta Toyota misalnya, pertama pindahkan radio mobil dan pasang alat penerima tersebut ke dalam tempatnya.



*2 Not supplied for this unit.

*2 Tidak disediakan untuk alat penerima ini.

Note

• When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Catatan

• Ketika memasang alat penerima pada breket bingkai, pastikan untuk menggunakan sekrup-sekrup panjang-8 mm. Jika sekrup yang lebih panjang digunakan, maka dapat merusak alat penerima.

TROUBLESHOOTING

• The fuse blows.

* Are the red and black leads connected correctly?

• Power cannot be turned on.

* Is the yellow lead connected?

• No sound from the speakers.

* Is the speaker output lead short-circuited?

• Sound is distorted.

* Is the speaker output lead grounded?

* Are the “-” terminals of L and R speakers grounded in common?

• Noise interfere with sounds.

* Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?

• This unit becomes hot.

* Is the speaker output lead grounded?

* Are the “-” terminals of L and R speakers grounded in common?

• This unit does not work at all.

* Have you reset your unit?

PEMECAHAN MASALAH

• Sekring meledak.

* Apakah ujung-ujung merah dan hitam tersambung dengan benar?

• Power tidak dapat dihidupkan.

* Apakah ujung kuning sudah tersambung?

• Tidak ada suara dari speaker.

* Apakah ujung keluaran speaker terhubung pendek?

• Suara terdistorsi.

* Apakah ujung keluaran speaker sudah ditanahkan?

* Apakah terminal-terminal “-” dari speaker-speaker L dan R sudah ditanahkan secara umum?

• Berisik yang mengganggu suara-suara.

* Apakah terminal tanah belakang tersambung ke casing mobil menggunakan kabel-kabel terpendek dan tertebal?

• Alat penerima menjadi panas.

* Apakah ujung keluaran speaker sudah ditanahkan?

* Apakah terminal-terminal “-” dari speaker-speaker L dan R sudah ditanahkan secara umum?

• Alat penerima ini tidak bekerja secara keseluruhan.

* Apakah anda sudah reset (memasang kembali) alat penerima anda?

ELECTRICAL CONNECTIONS

SAMBUNGAN-SAMBUNGAN LISTRIK

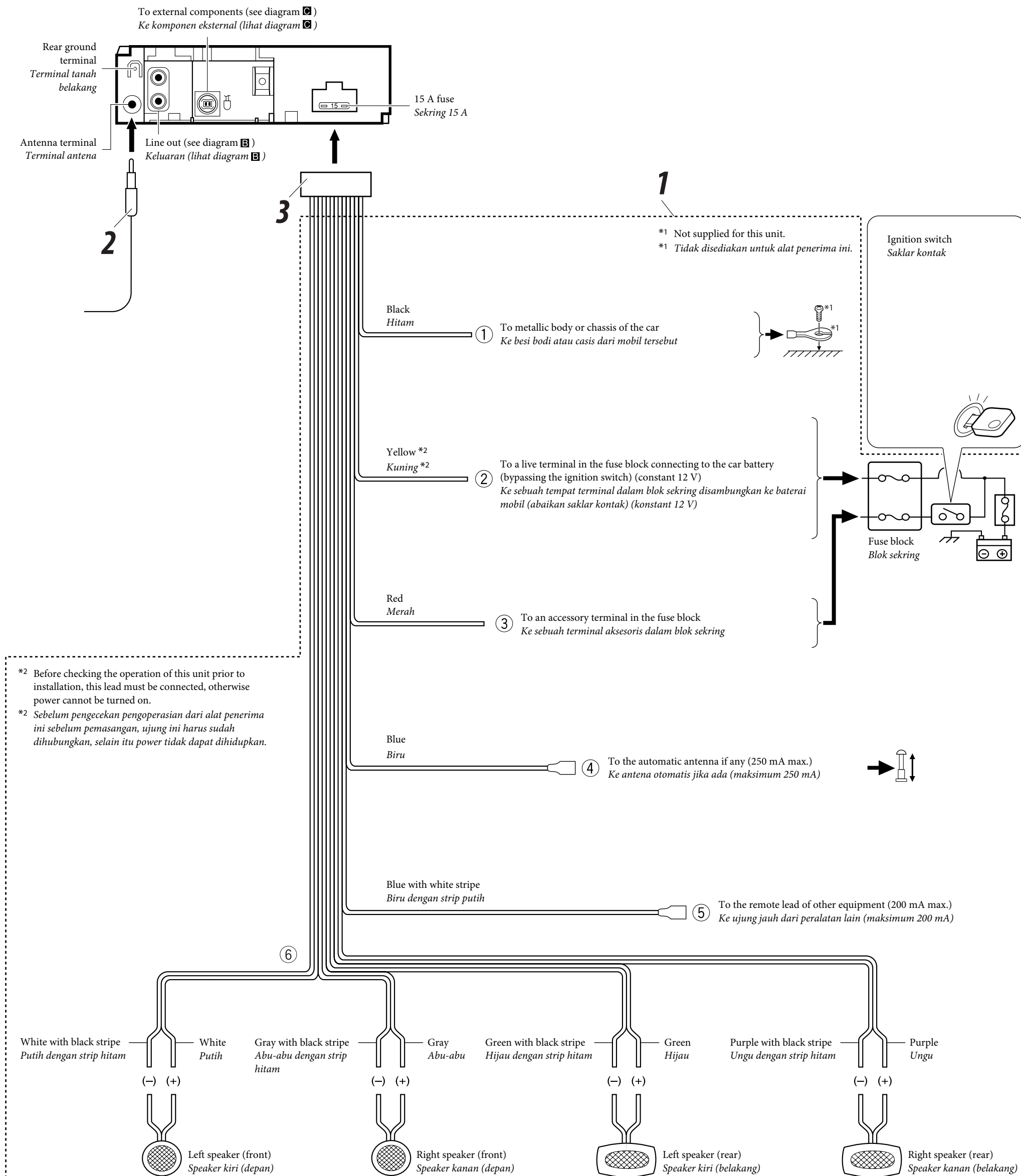
A Typical connections / Ciri khas sambungan-sambungan

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

Sebelum penyambungan: Cek perkabelan dalam mobil dengan hati-hati. Penyambungan yang tidak benar mungkin menyebabkan kerusakan serius pada alat penerima.
Ujung dari kabel power dan beberapa konektor dari bodi mobil mungkin berbeda dalam warna.

- 1 Sambungkan ujung berwarna dari kabel power dalam urutan spesifikasi pada ilustrasi di bawah.
- 2 Sambungkan kabel antenna.
- 3 Akhirnya sambungkan dudukan kabel ke alat penerima.



*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Sebelum pengecekan pengoperasian dari alat penerima ini sebelum pemasangan, ujung ini harus sudah dihubungkan, selain itu power tidak dapat dihidupkan.

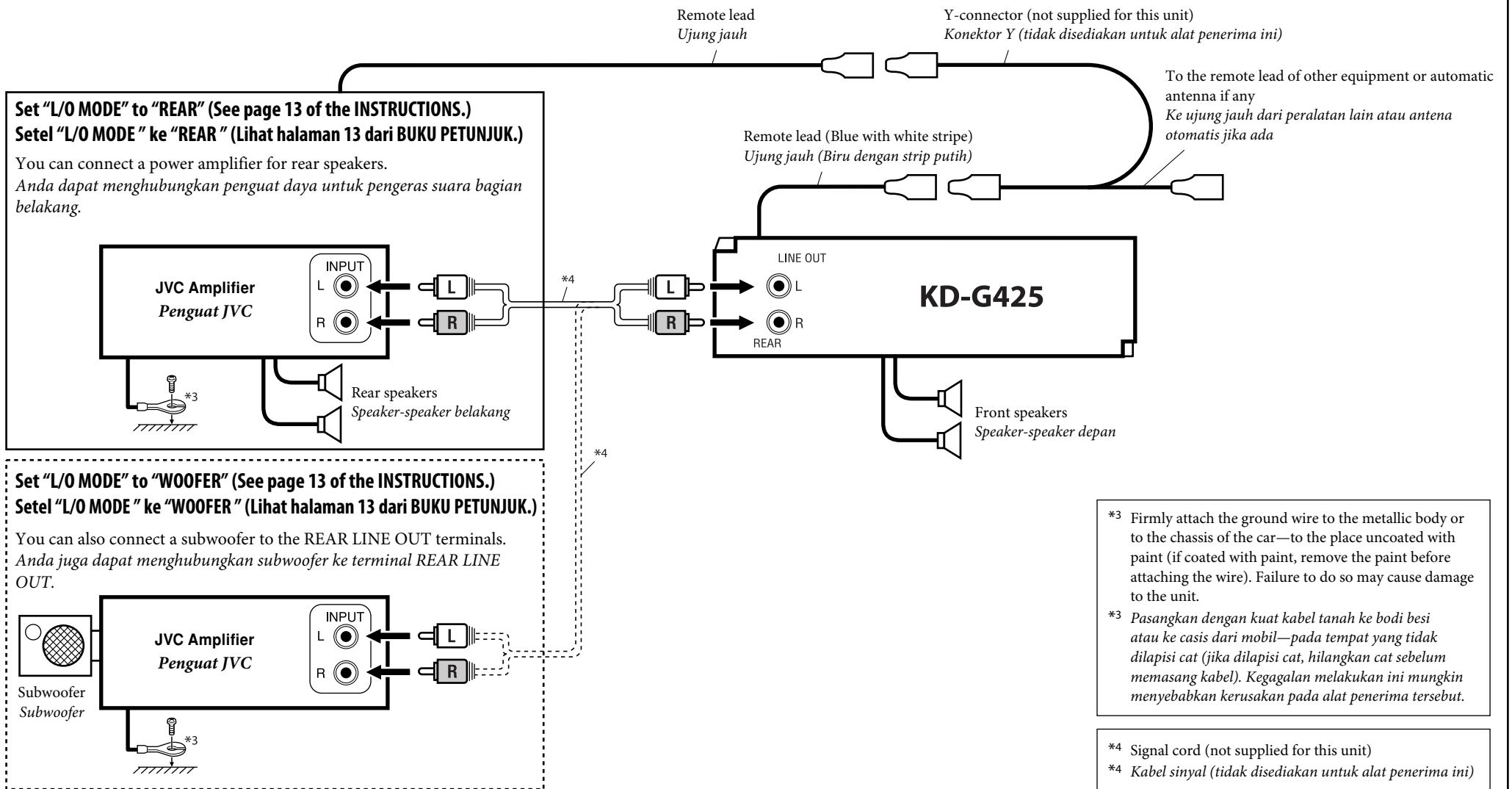
B Connecting the external amplifier or subwoofer / Penyelesaian penguat eksternal atau subwoofer

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Anda dapat menyambungkan penguat-penguat untuk meningkatkan sistem stereo mobil anda.

- Sambungkan ujung jauh (biru dengan strip putih) ke ujung jauh dari peralatan lain sehingga dapat dikontrol melalui alat penerima ini.
- **Putuskan sambungan speaker-speaker dari alat penerima ini, sambungkan ini ke penguat. Biarkan ujung speaker dari alat penerima ini tidak digunakan.**



C Connecting the external components / Menyambung komponen eksternal

CD changer, Apple iPod®, or JVC D. player / CD changer, Apple iPod® atau JVC D. player

- Set "CHANGER" for the external input setting (See page 13 of the INSTRUCTIONS.) / Aturlah "CHANGER" untuk pengaturan input eksternal (Lihat halaman 13 dari BUKU PETUNJUK.)

You can connect these components as illustrated below.

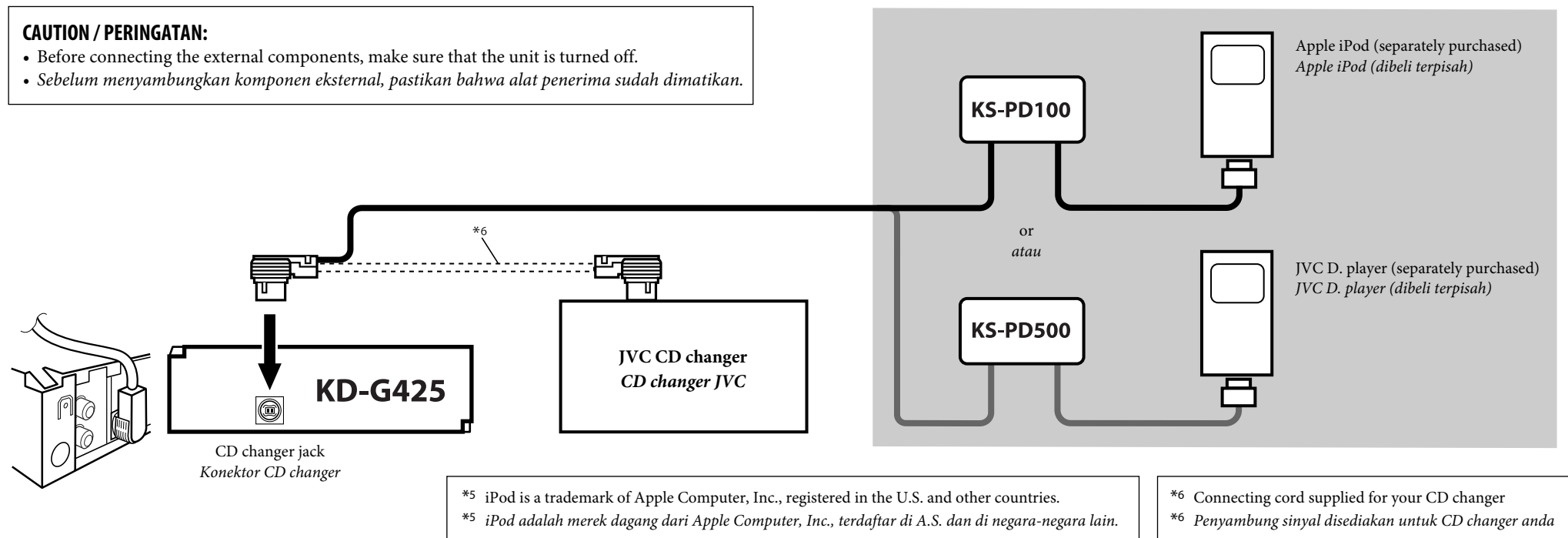
The iPod*5 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).

Anda bisa menyambungkan komponen-komponen ini seperti yang diilustrasikan di bawah.

iPod*5 atau D. player bisa disambungkan dengan menggunakan adaptor antarmuka (tidak disediakan)—KS-PD100 (untuk iPod) atau KS-PD500 (untuk D. player).

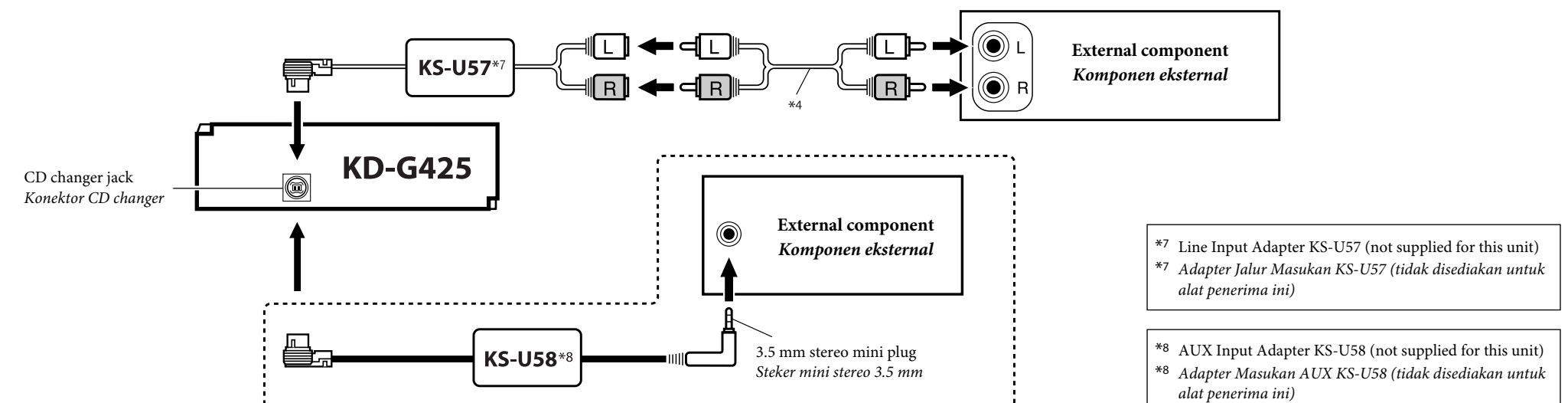
CAUTION / PERINGATAN:

- Before connecting the external components, make sure that the unit is turned off.
- Sebelum menyambungkan komponen eksternal, pastikan bahwa alat penerima sudah dimatikan.



Other external component / Komponen eksternal lainnya

- Set "EXT IN" for the external input setting (See page 13 of the INSTRUCTIONS.) / Aturlah "EXT IN" untuk pengaturan input eksternal (Lihat halaman 13 dari BUKU PETUNJUK.)



JVC



ENGLISH

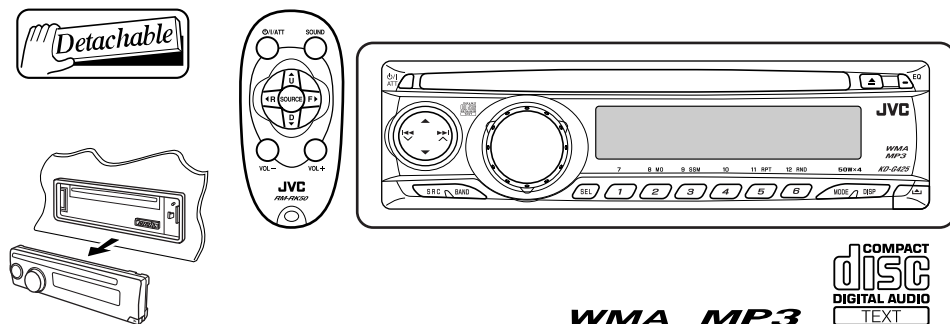
CD RECEIVER

KD-G425

中
文

CD 收音組合機

KD-G425



For canceling the display demonstration, see page 6.

取消屏幕演示功能，參閱第 6 頁。

For installation and connections, refer to the separate manual.

有關安裝和連接方法，分別參閱操作手冊。

INSTRUCTIONS

使用說明書

GET0350-005A
[UT]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING: Synlig och osynlig laserstråling när den öppnas och spärren är turkopplad. Beträkta ej strålen.	VARO: Avattassa ja suojalukitus ohjeltuna tai viallisena olet alltime näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteien kohdistumista suoraan iäsesi. (f)
--	--	---	---

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Caution on volume setting:

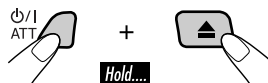
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

How to reset your unit



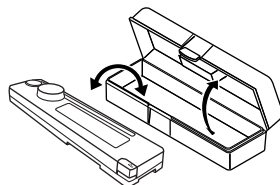
- Your preset adjustments will also be erased.
- If a disc is loaded, it will eject. Be careful not to drop the disc.

How to forcibly eject a disc

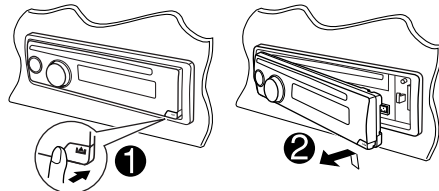


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

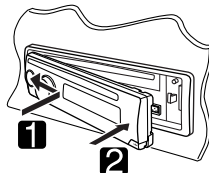
How to detach/attach the control panel



Detaching...








Attaching...






How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 17 – 19).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

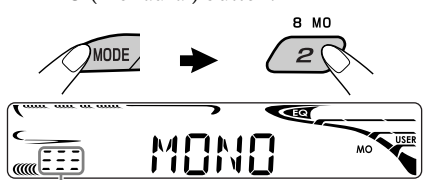
The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.



The diagram shows a hand pressing the MODE button. An arrow points to a hand pressing the '2' button, which is labeled '8 MO' above it. Below this, a car stereo display is shown with 'MONO' in large letters and 'MO' in smaller letters. A 'USER' button is also visible on the right side of the display. A 'Time countdown indicator' is shown on the left side of the display.

To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

CONTENTS

Control panel	4
Remote controller — RM-RK50	5
Getting started.....	6
Basic operations.....	6
Radio operations	7
Disc operations	8
Playing a disc in the unit	8
Playing discs in the CD changer	8
Sound adjustments.....	11
General settings — PSM	12
iPod®/D. player operations	14
Other external component operations...	16
Maintenance	16
More about this unit	17
Troubleshooting	19
Specifications	21

For safety...

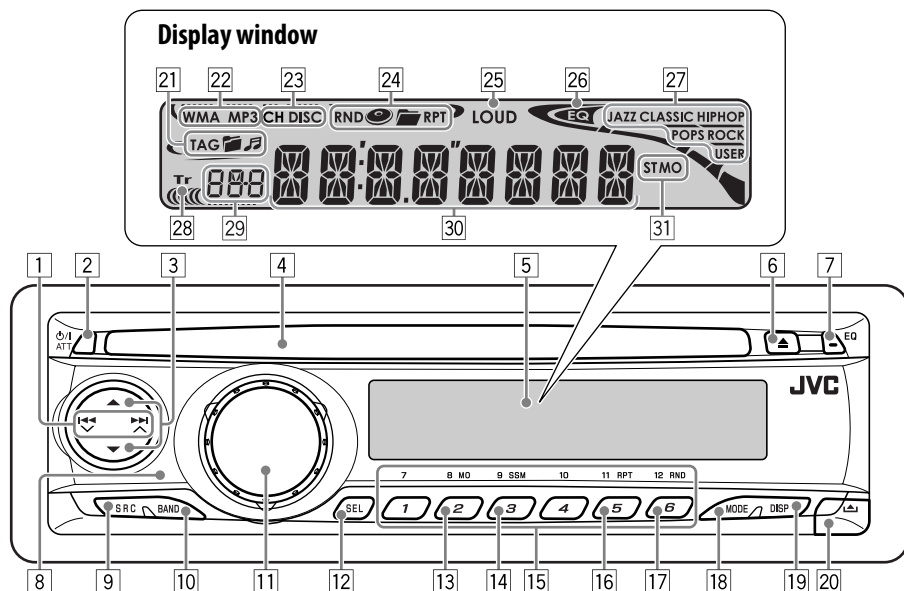
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification

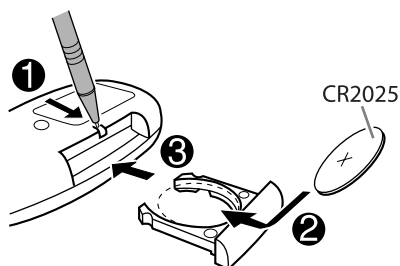


- 1 ◀◀ ▶▶ ▶▶ ▶▶ buttons
- 2 ⏻/ATT (standby/on attenuator) button
- 3 ▲ (up) / ▼ (down) buttons
- 4 Loading slot
- 5 Display window
- 6 ▲ (eject) button
- 7 EQ (equalizer) button
- 8 Remote sensor
DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 9 SRC (source) button
- 10 BAND button
- 11 Control dial
- 12 SEL (select) button
- 13 MO (monaural) button
- 14 SSM (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 MODE button
- 19 DISP (display) button
- 20 ⏻ (control panel release) button

Display window

- 21 Disc information indicators—TAG (ID3 Tag), 📁 (folder), 🎵 (track/file)
- 22 Disc type indicators—WMA, MP3
- 23 Playback source indicators—
CH: *Lights up only when CD-CH is selected as the playback source.*
DISC: *Lights up for the built-in CD player.*
- 24 Playback mode / item indicators—RND (random), 🎲 (disc), 📁 (folder), RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 28 Tr (track) indicator
- 29 Source display / Volume level indicator
- 30 Main display
- 31 Tuner reception indicators—ST (stereo), MO (monaural)

Installing the lithium coin battery (CR2025)

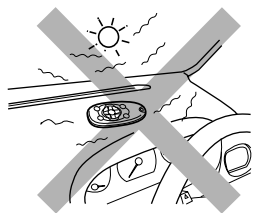


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

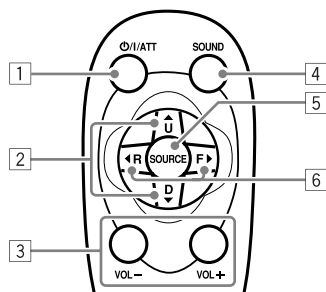
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



1. **⏻/I/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
2. **▲ U** (up) / **D** (down) **▼** buttons
 - Changes the FM/AM bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enters the main menu with **▲ U**. (Now **▲ U/D ▼/◀ R/F ▶** work as the menu selecting buttons.)*
3. **VOL - / VOL +** buttons
 - Adjusts the volume level.
4. **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
5. **SOURCE** button
 - Selects the source.

- * **▲ U** : Returns to the previous menu.
D ▼ : Confirms the selection.

- 6 ◀ R (reverse) / F (forward) ▶ buttons
- Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

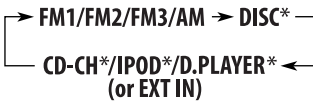
Getting started

Basic operations

- 1 Turn on the power.

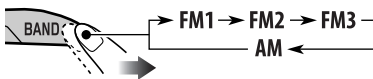


- 2

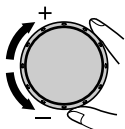


* You cannot select these sources if they are not ready or not connected.

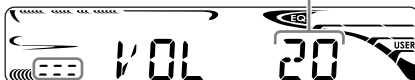
- 3 For FM/AM tuner



- 4 Adjust the volume.



Volume level appears.



Volume level indicator

- 5 Adjust the sound as you want. (See pages 11 and 12.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	

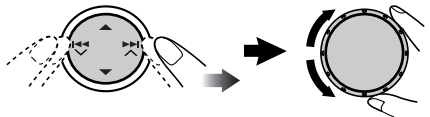
Basic settings

- See also “General settings — PSM” on pages 12 and 13.

- 1



- 2



- 1 Canceling the display demonstrations

Select “DEMO,” then “DEMO OFF.”

- 2 Setting the clock

Select “CLOCK H” (hour), then adjust the hour.

Select “CLOCK M” (minute), then adjust the minute.

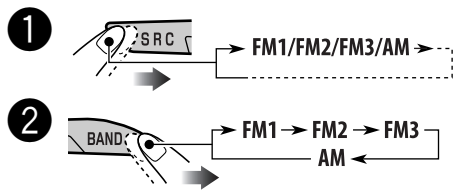
- 3 Finish the procedure.



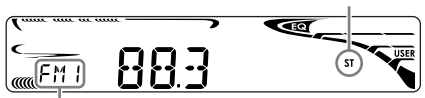
To check the current clock time when the power is turned off



Radio operations

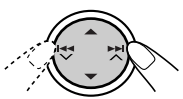


Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

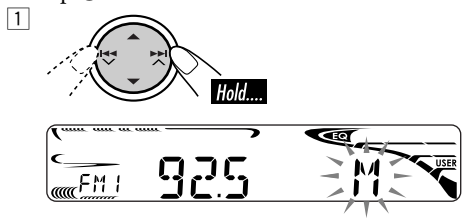
3 Start searching for a station.



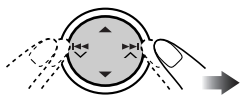
When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

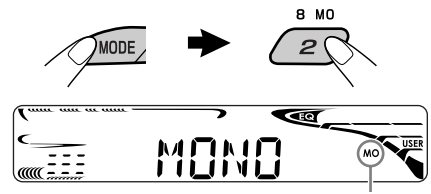
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.

Reception improves, but stereo effect will be lost.

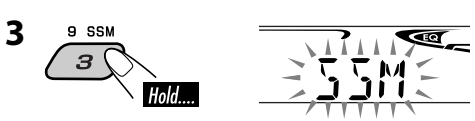
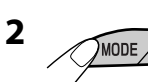
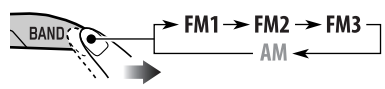
To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

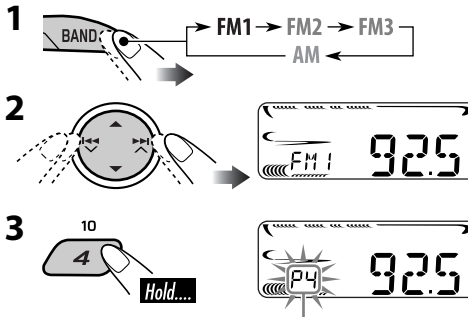


"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

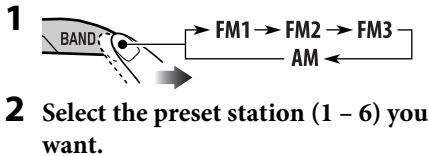
Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.

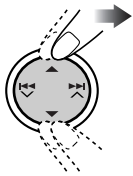


Preset number flashes for a while.

Listening to a preset station



or

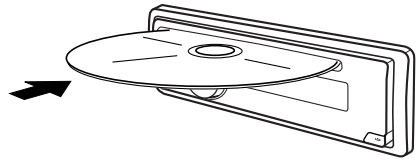


To check the other information while listening to an FM or AM station



Disc operations

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

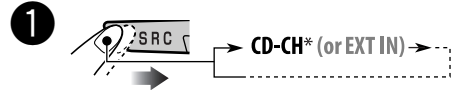
To stop play and eject the disc



Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

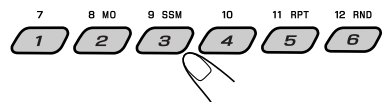
- Ejecting the magazine will also stop playing.



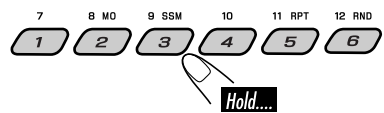
* If you have changed the external input setting to "EXT IN" (see page 13), you cannot select the CD changer.

2 Select a disc.

For disc number from 01 - 06:



For disc number from 07 - 12:



About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

About the CD changer

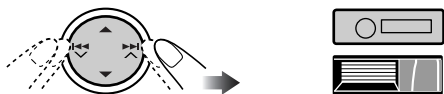
It is recommended to use a JVC MP3-compatible CD changer with your unit.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To fast-forward or reverse the track




To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

For MP3 discs:  

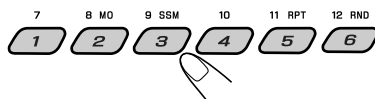
For WMA discs: 



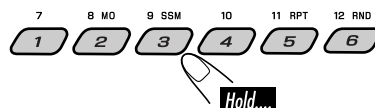
To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly



To select a number from 01 – 06:

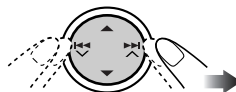


To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3 or WMA discs):



Other main functions

■ Skipping tracks quickly during play



Only possible on JVC
MP3-compatible CD changer

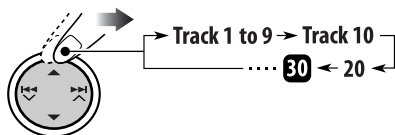
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1



2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

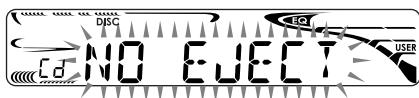
3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.

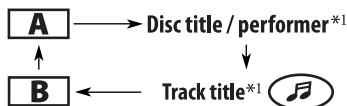


To cancel the prohibition, repeat the same procedure.

Changing the display information

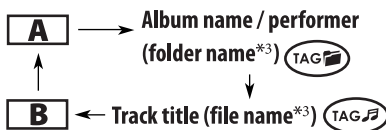


■ While playing an audio CD or a CD Text

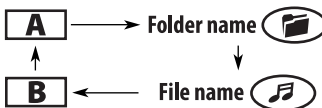


■ While playing an MP3 or a WMA*2 disc

- When "TAG DISP" is set to "TAG ON" (see page 13)



- When "TAG DISP" is set to "TAG OFF"



A : Clock with the current track number

B : Elapsed playing time with the current track number

*1 If the current disc is an audio CD, "NO NAME" appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

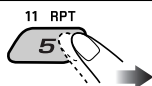
Selecting the playback modes

You can use only one of the following playback modes at a time.



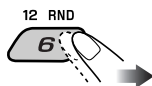
2 Select your desired playback mode.

■ Repeat play



Mode	Plays repeatedly
TRK RPT	: The current track.
FLDR RPT*4	: All tracks of the current folder.
DISC RPT*5	: All tracks of the current disc.
RPT OFF	: Cancels.

■ Random play



Mode	Plays at random
FLDR RND*4	: All tracks of the current folder, then tracks of the next folder and so on.
DISC RND	: All tracks of the current disc.
MAG RND*5	: All tracks of the inserted discs.
RND OFF	: Cancels.

*4 Only while playing an MP3 or a WMA disc.

*5 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).



Ex.: When "ROCK" is selected

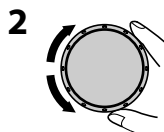
Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...



Indication [Range]

BAS*1 (bass)

Adjust the bass. [-06 to +06]

TRE*1 (treble)

Adjust the treble. [-06 to +06]

FAD*2 (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL*3 (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*1 (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

SUB.W*4 (subwoofer)

Adjust the subwoofer output level. [00 to 08]

VOL (volume)

Adjust the volume. [00 to 30 or 50*5]

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*2 If you are using a two-speaker system, set the fader level to "00."

*3 This adjustment cannot affect the subwoofer output.

*4 This takes effect only when a subwoofer is connected.

Displayed only when "L/O MODE" is set to "WOOFER" (see page 13).

*5 Depending on the amplifier gain control setting. (See page 13 for details.)

General settings — PSM

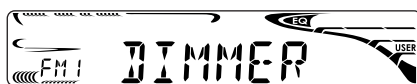
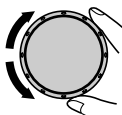
You can change PSM (Preferred Setting Mode) items listed in the table that follows.



2 Select a PSM item.



3 Adjust the PSM item selected.



Ex.: When "DIMMER" is selected

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	1 – 12, [6] [Initial: 1 (1:00)]
CLOCK M Minute adjustment	00 – 59, [6] [Initial: 00 (1:00)]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
SCROLL *6 Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
WOOFER *7 Subwoofer cutoff frequency	LOW : Frequencies lower than 90 Hz are sent to the subwoofer. MID : [Initial]; Frequencies lower than 135 Hz are sent to the subwoofer. HIGH : Frequencies lower than 180 Hz are sent to the subwoofer.
EXT IN *8 External input	CHANGER : [Initial]; To use a JVC CD changer, [8], an Apple iPod or a JVC D. player, [14]. EXT IN : To use any other external component than the above, [16].
L/O MODE Line output mode	When connecting the amplifier or subwoofer, set this correctly. REAR : [Initial]; Select if the REAR LINE OUT terminals are used for connecting the speakers through an external amplifier. WOOFER : Select if the REAR LINE OUT terminals are used for connecting a subwoofer through an external amplifier.
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [10]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50

*6 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*7 Displayed only when “L/O MODE” is set to “WOOFER.”

*8 Displayed only when one of the following sources is selected—FM, AM, or DISC.

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player:

Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.

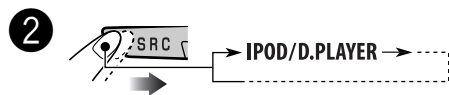
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

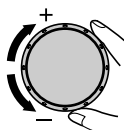
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 13.




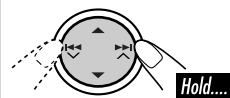
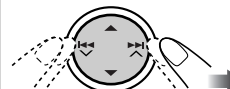
Playback starts automatically from where it has been paused*1 or stopped*2 previously.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/◀◀ ▼/▶▶ ▲ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.

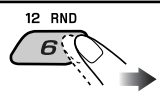


To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps **2** and **3** until the desired track is played.
- Holding |◀◀ ▼/▶▶| ▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:
 - If no operations are done for about 5 seconds.
 - When you confirm the selection of a track.

■ Random play



ALBM RND*4 (RND)

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON (RND)

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

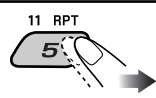
*4 For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

Selecting the playback modes



2 Select your desired playback mode.

■ Repeat play



ONE RPT (RPT)

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

ALL RPT (RPT)

Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

To check the other information while listening to an iPod or a D. player



Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

For listening to the iPod or D. player, refer to pages 14 and 15.

1



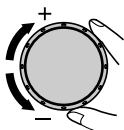
If “EXT IN” does not appear, see page 13 and select the external input (“EXT IN”).

2

Turn on the connected component and start playing the source.

3

Adjust the volume.



4

Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component



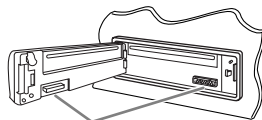
Clock ↔ EXT IN

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

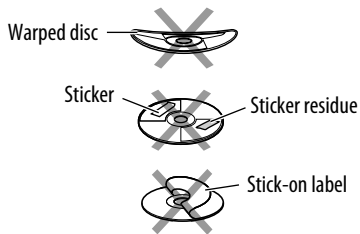
To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Do not use the following discs:



More about this unit

Basic operations

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.

To be continued...

- CD-R/CD-RW on which the files are written with “Packet Write” method.
- There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters

- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 13). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections. Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	• Unlock the disc (see page 10).
	• Disc sound is sometimes interrupted.	• Eject the disc forcibly (see page 2).
MP3/WMA playback	• "NO DISC" appears on the display.	• Stop playback while driving on rough roads.
	• Disc cannot be played back.	• Change the disc.
MP3/WMA playback	• Disc cannot be played back.	• Check the cords and connections.
	• Noise is generated.	• Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.
	• Noise is generated.	• Add the extension code <.mp3> or <.wma> to the file names.
		Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

To be continued...

	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 14).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.	

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Subwoofer-Out Level/Impedance:

2.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: 531 kHz to 1 602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media[®] Audio) Decoding

Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

在操作時遇到麻煩了？

請重設本機

參閱如何重設本機之頁

JVC



EN, CT

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1105DTSMDTJEIN

JVC KD-G425

Installation/Connection Manual

安裝/連接手冊

GET0350-010A
[UT]

1105DTSMDTJEIN
EN, CT

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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

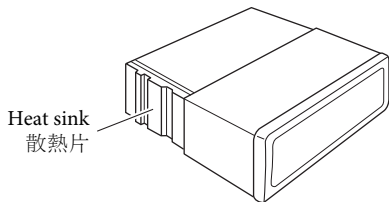
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



中文

本機僅可使用**直流 12 V、負極接地的電源系統**。如果您的車輛沒有這一電源系統，則需要一個電壓變換器，可以在 JVC 汽車音響分銷商處買到。

警告

為防止短路，建議在安裝本機之前，斷開電池的負極，並把所有電路都連接好。

- **安裝完畢後務必將本機的地線重新接至車身。**

注意:

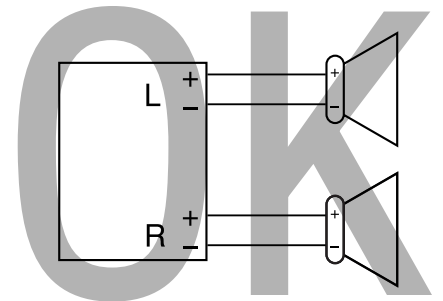
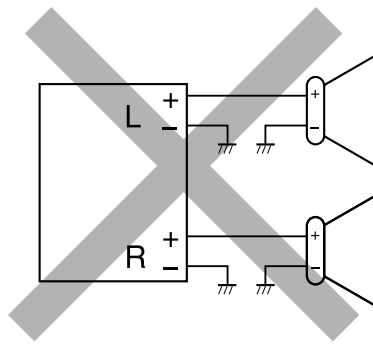
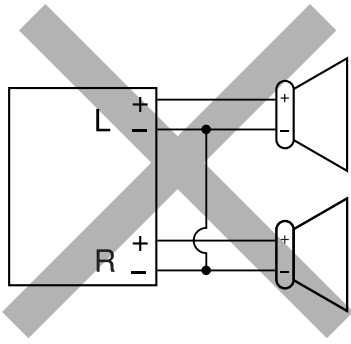
- 把保險絲更換為額定負荷值的保險絲。如果保險絲經常燒壞，請向 JVC 汽車音響分銷商詢問。
- 後置和前置揚聲器的最大輸入功率應大於 50 W，其阻抗為 **4 Ω - 8 Ω**。如果最大功率小於 50 W，請調校 "AMP GAIN" 設定值，以防止揚聲器損壞。(參閱使用說明書的第 13 頁。)
- 為防止電源短路，請用絕緣帶包住**未使用**電線的端子。
- 本機使用後，散熱片會很熱。因此，在移出本機時，小心不要觸摸散熱片。

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

電源和揚聲器接線注意事項:

- 切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。
- 在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路。

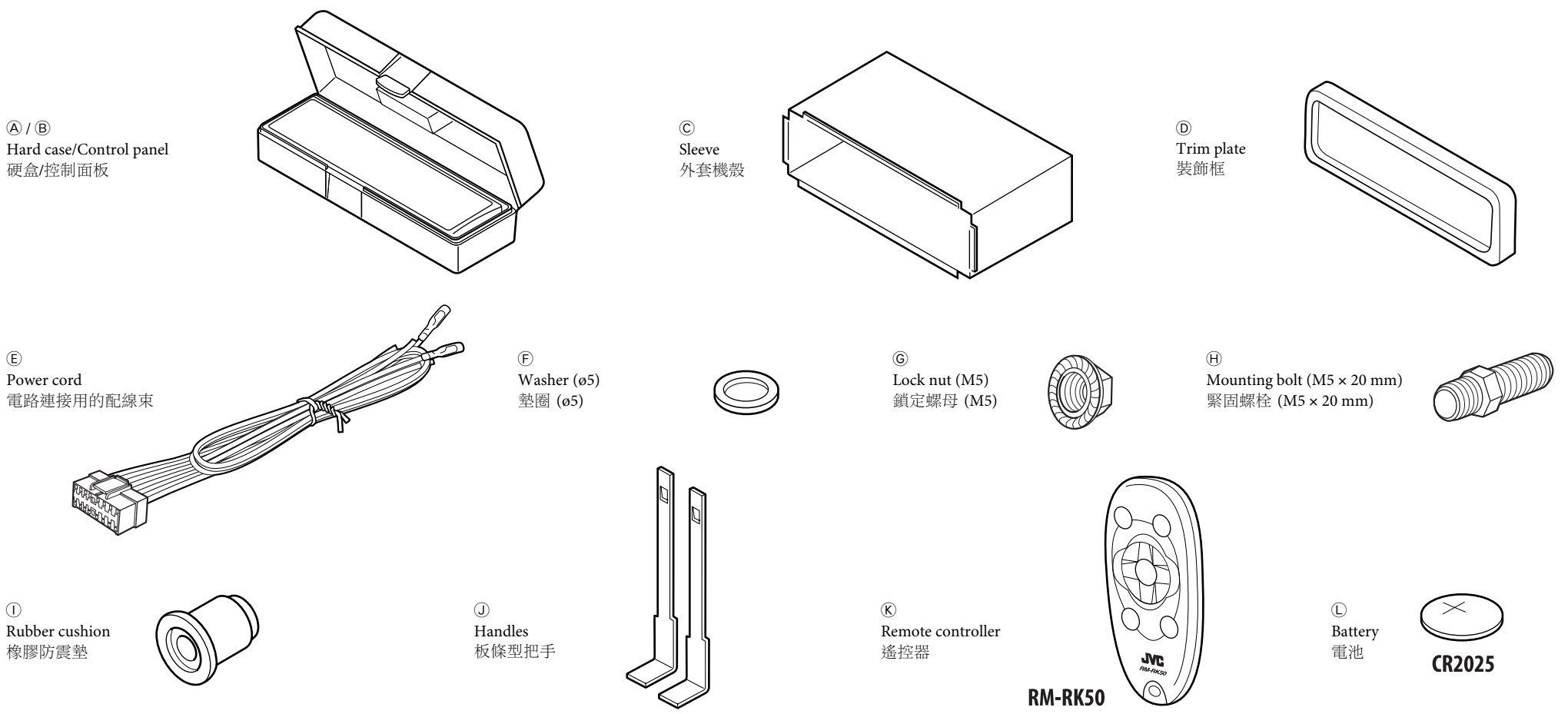


Parts list for installation and connection

The following parts are provided for this unit. After checking them, please set them correctly.

用於安裝和連接的零件裏

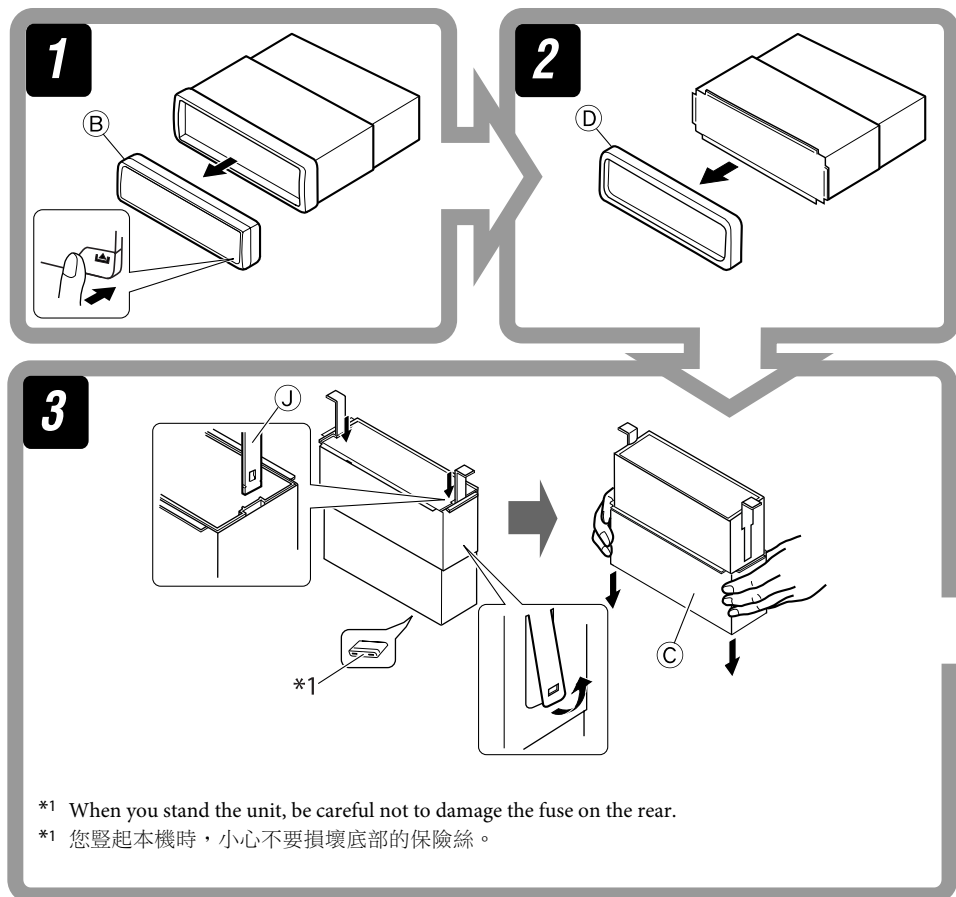
下列零件是隨本機提供的。清點以後，正確的將其裝配。



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

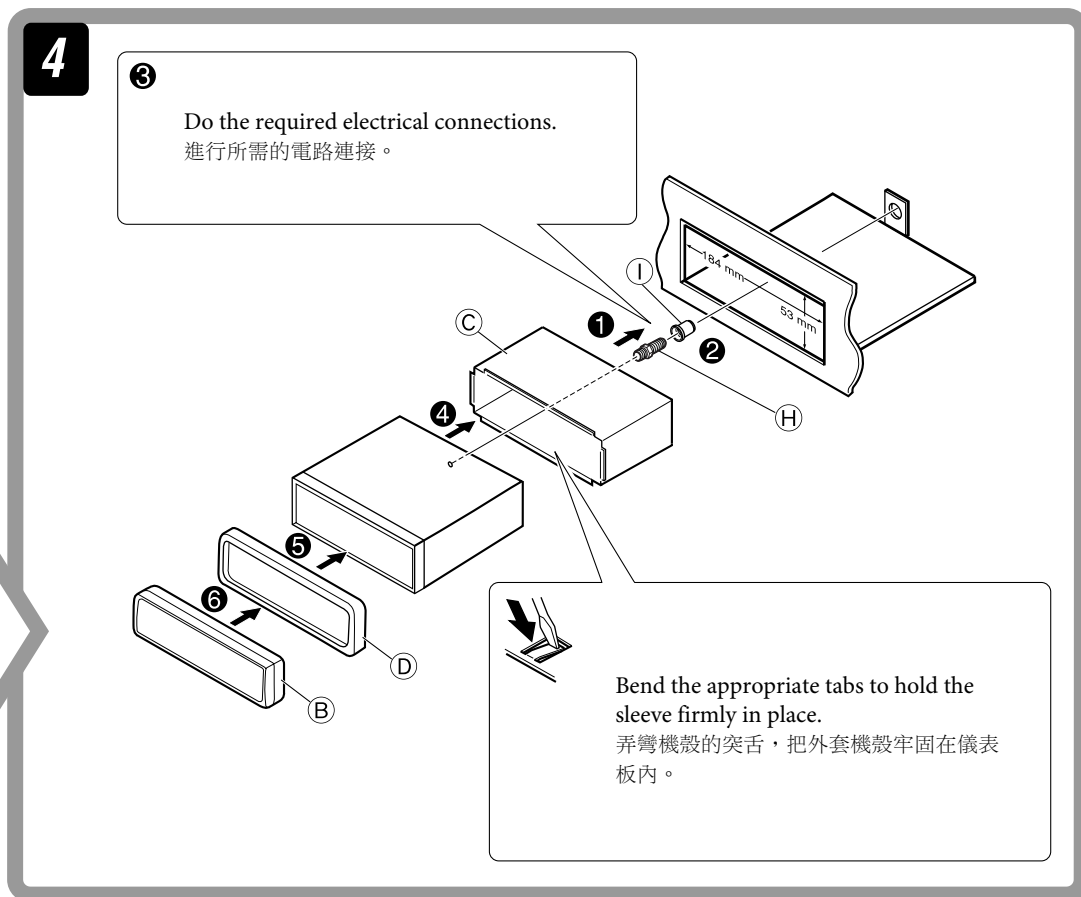
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



安裝 (裝設、固定在儀表板內)

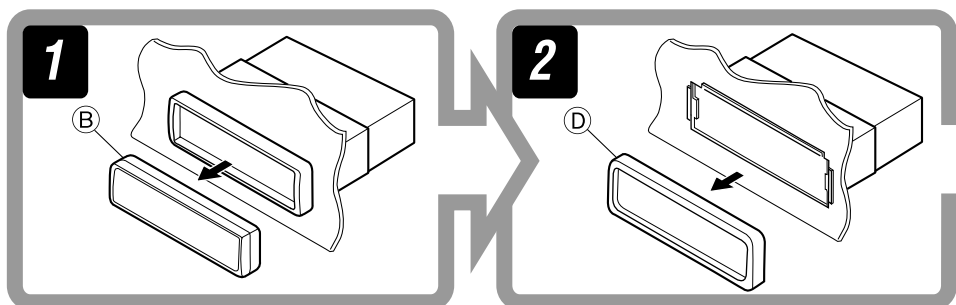
下面的圖解表示了典型的安裝程序。如果您有問題，或需要有關配套元件的資料，請向 JVC 汽車音響分銷商或配套元件供應公司詢問。

- 如果您不能確定如何正確地安裝本機，應請合格的技術人員來安裝。



Removing the unit

Before removing the unit, release the rear section.

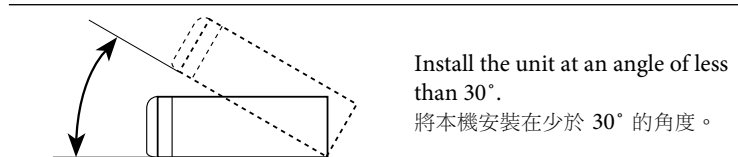
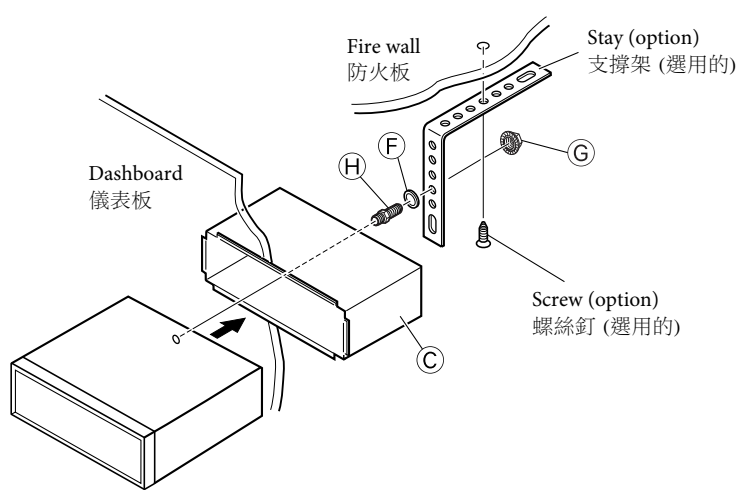


拆卸本機

在拆卸本機前，應將本機後部的固定和連接部分鬆開。

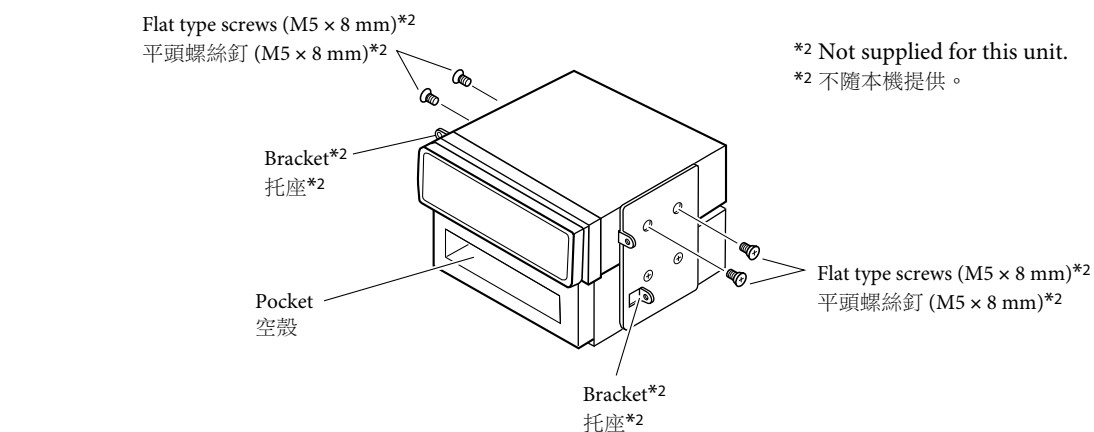


When using the optional stay / 若選用支撐架



When installing the unit without using the sleeve / 若不使用外套機殼安裝本機

In a Toyota car for example, first remove the car radio and install the unit in its place.
以豐田牌 (TOYOTA) 汽車為例：首先取出汽車收音機，然後將本機裝入其空出的位置。



Note

注意

• When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
• 把本機安裝在托座上時，務必使用 8 mm 長的螺絲釘。如使用過長的螺絲釘，會損壞本機。

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?
- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the “-” terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

故障排除

- **保險絲燒斷。**
* 檢查紅色導線接頭和黑色導線接頭是否接觸正確?
- **電源不能接通。**
* 檢查黃色導線接頭是否接上?
- **揚聲器沒有聲音。**
* 檢查揚聲器輸出導線接頭是否短路?
- **聲音失真。**
* 檢查揚聲器輸出端子是否接地?
* 檢查揚聲器的左 (L)、右 (R) 端子的負極 (-) 是否共同接地?
- **噪音干擾音響。**
* 後接地端子與車身是否使用較短和較厚的電線連接?
- **本機發熱。**
* 檢查揚聲器輸出端子是否接地?
* 檢查揚聲器的左 (L)、右 (R) 端子的負極 (-) 是否共同接地?
- **本機完全不能操作。**
* 您是否已經重置您的機組?

ELECTRICAL CONNECTIONS

電路連接

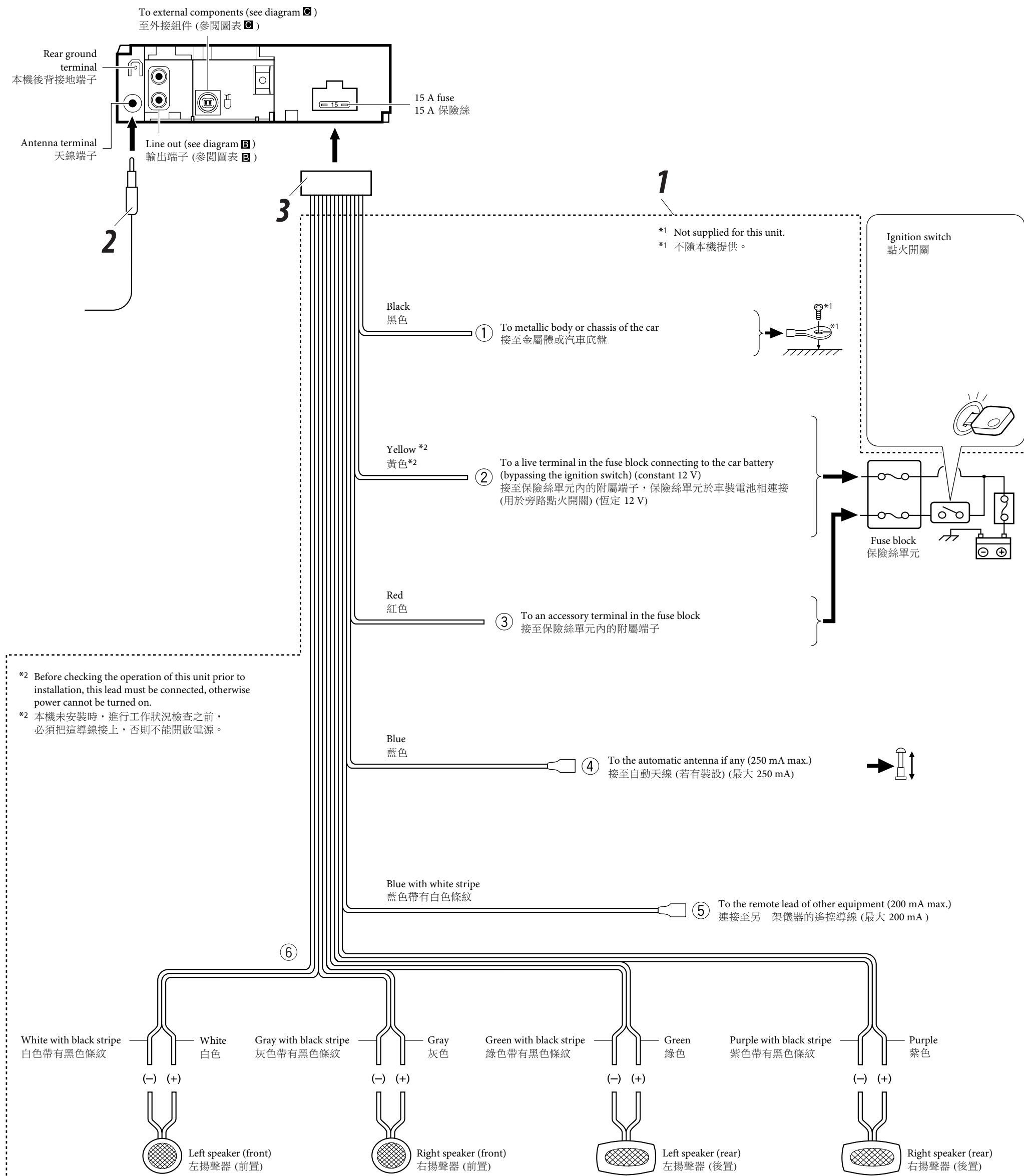
A Typical connections / 典型的接線方法

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

接線前: 仔細檢查汽車內的線路。不正確的接線會導致本機嚴重損壞。
電力線的引線和車身的連接器引線在顏色上可能有所不同。

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

- 1 依照下圖所示之次序連接電源線的顏色導線。
- 2 將天線的電線連接起來。
- 3 最後，把配線束的插頭插在本機上。



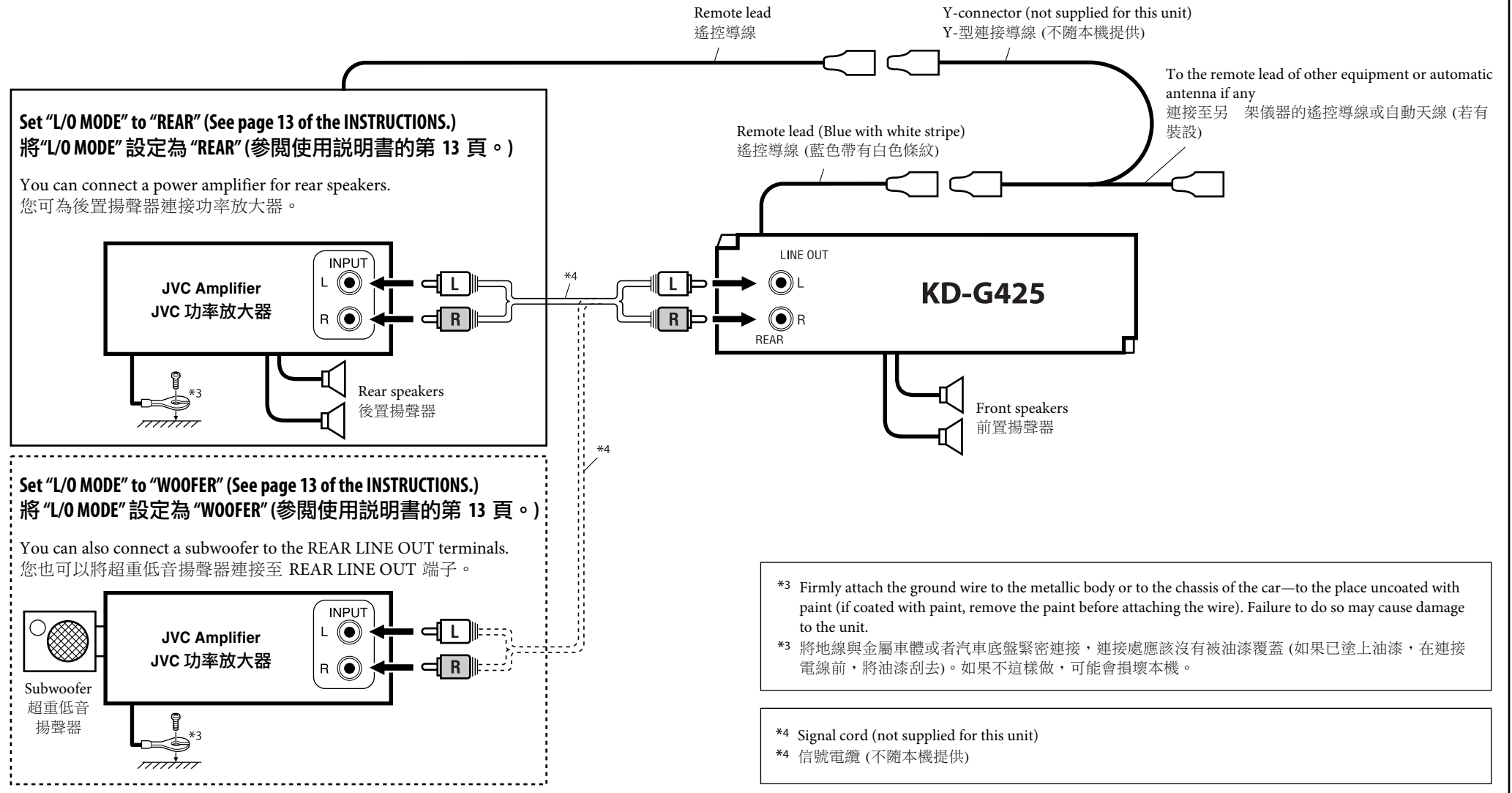
B Connecting the external amplifier or subwoofer / 連接至外部功率放大器或超重低音揚聲器

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

您可以連接功率放大器以提昇專車的音響系統。

- 將遙控導線 (藍色帶有白色條紋) 和其他裝置上的遙控導線連接起來，以便可以通過本機進行遙控。
- 將揚聲器和本機斷開，再接上功率放大器。將本機的揚聲器接線放置不用。



C Connecting the external components / 連接其他外部

CD changer, Apple iPod®, or JVC D. player / CD 換碟器、Apple iPod® 或 JVC D. player

- Set "CHANGER" for the external input setting (See page 13 of the INSTRUCTIONS.) / 將外部輸入設定設至 "CHANGER" (換碟器) (參閱使用說明書的第 13 頁。)

You can connect these components as illustrated below.

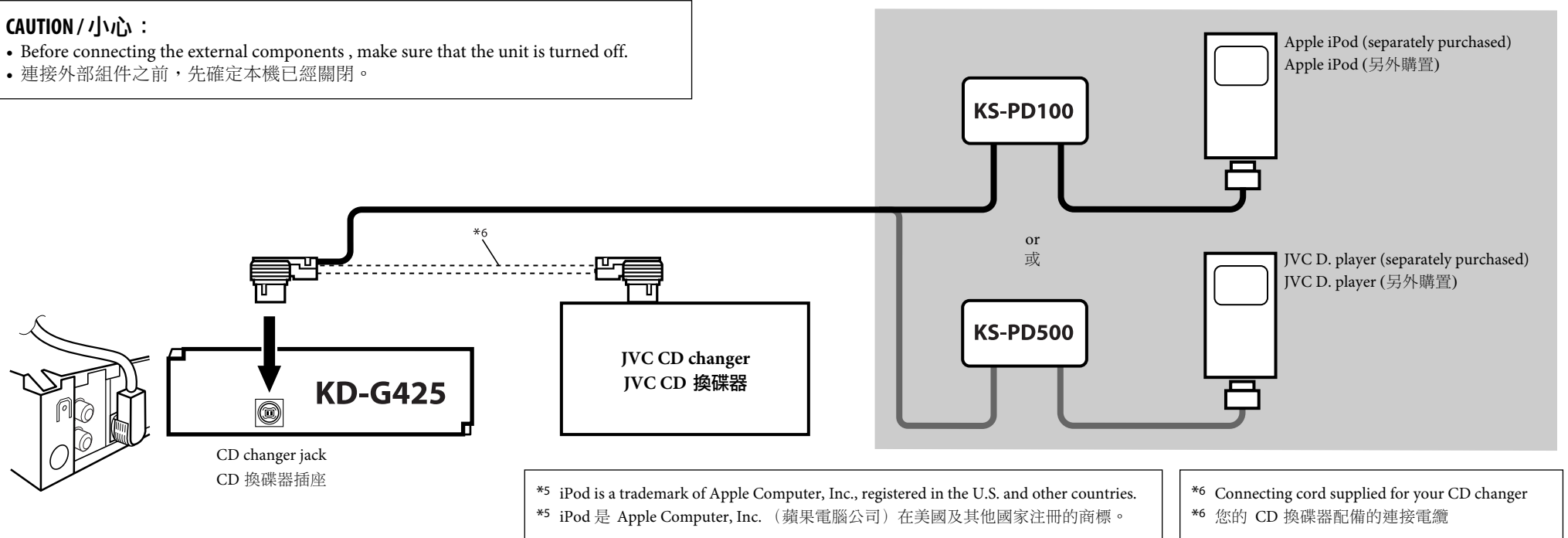
The iPod*5 or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).

您可以從下圖所示連接這些組件。

您可以使用界面適配器 (不配備) — KS-PD100 (iPod 用) 或 KS-PD500 (D. player 用) 連接 iPod*5 或 D. player。

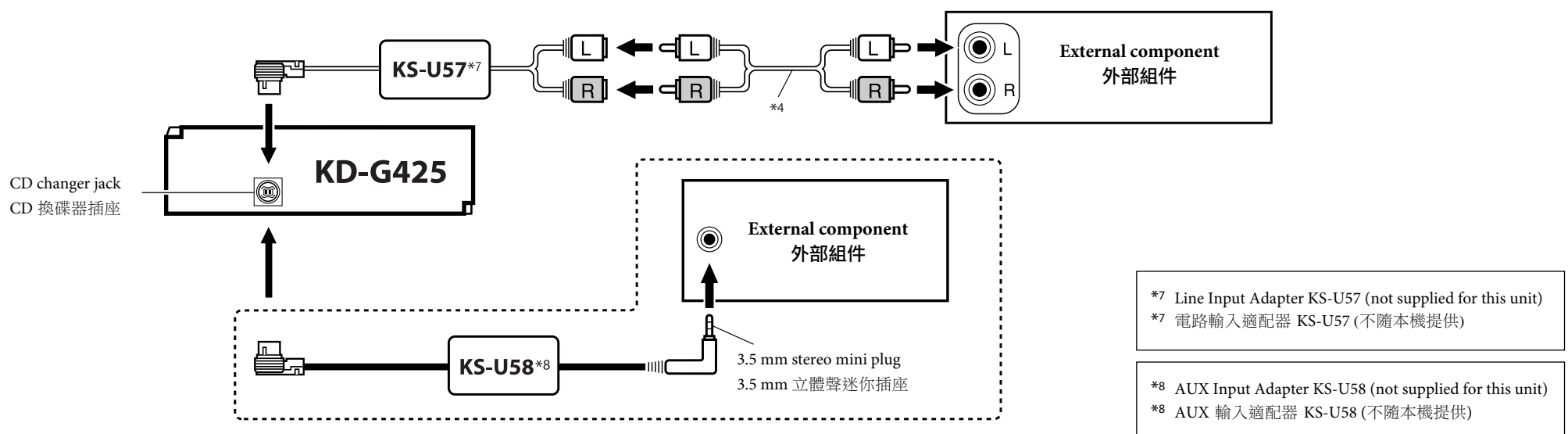
CAUTION / 小心 :

- Before connecting the external components, make sure that the unit is turned off.
- 連接外部組件之前，先確定本機已經關閉。



Other external component / 其他外接組件

- Set "EXT IN" for the external input setting (See page 13 of the INSTRUCTIONS.) / 將外部輸入設定設至 "EXT IN" (外部輸入) (參閱使用說明書的第 13 頁。)



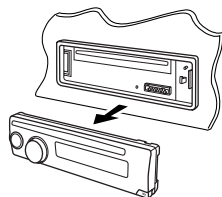
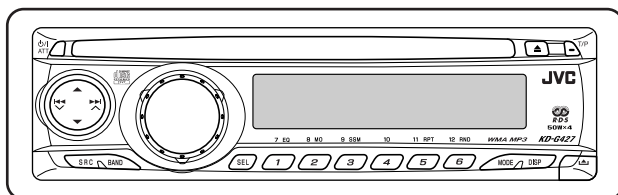
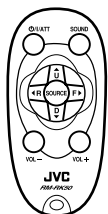
JVC



CD RECEIVER

РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-G427



WMA MP3



В соответствии с Законом Российской Федерации "О защите прав потребителей" срок службы (годности) данного товара "по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде" составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

Срок службы (годности), кроме срока хранения дополнительных косметических материалов, упомянутых в предыдущих двух пунктах, не затрагивает никаких других прав потребителя, в частности, гарантийного свидетельства JVC, которое он может получить в соответствии с законом о правах потребителя или других законов, связанных с ним.

For installation and connections, refer to the separate manual.

Указания по установке и выполнению соединений приводятся в отдельной инструкции.

For canceling the display demonstration, see page 6.

Информацию об отмене демонстрации функций дисплея см. на стр. 6.

INSTRUCTIONS

ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ



GET0353-001A

[EE]

ENGLISH

РУССКИЙ

Thank you for purchasing a JVC product.

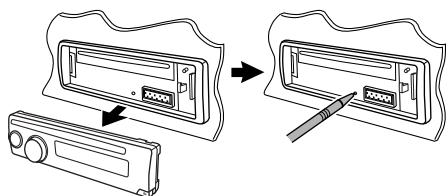
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synligt og usynligt laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til strålingen. (d)	WARNING: Synligt och osynligt laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO: Avarlause ja suojalettuks ohjettuna tai viallisena olet allittina näkyväille ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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How to reset your unit



- Your preset adjustments will also be erased.

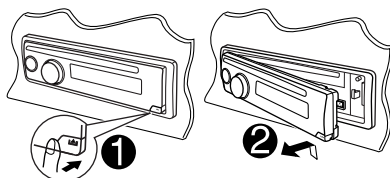
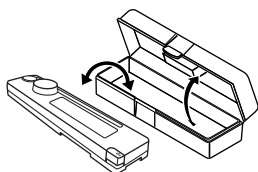
How to forcibly eject a disc



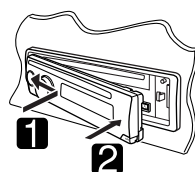
- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

How to detach/attach the control panel

Detaching...



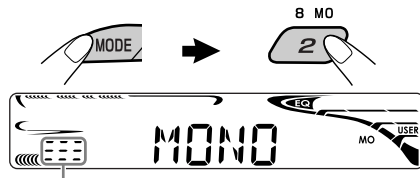
Attaching...



How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.





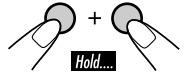


Time countdown indicator




To use these buttons for their original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press MODE again.

How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- Some related tips and notes are explained in “More about this unit” (see pages 21 – 23).

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

The following marks are used to indicate...

-  : Built-in CD player operations.
-  : External CD changer operations.
-  : Indicator displayed for the corresponding operation.

Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

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For safety...

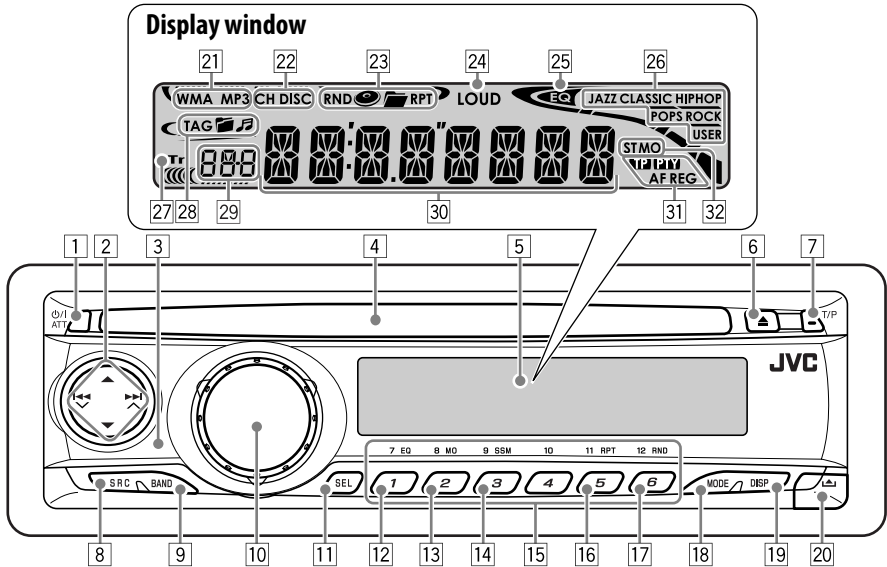
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

Parts identification

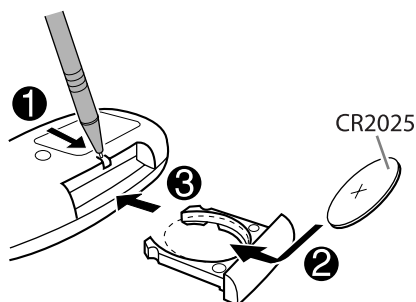


- 1 **⏻/ATT** (standby/on attenuator) button
- 2 **▲** (up) / **▼** (down) and **◀◀** / **▶▶** / **▶** / **▲** buttons
- 3 Remote sensor
 - *DO NOT* expose the remote sensor to strong light (direct sunlight or artificial lighting).
- 4 Loading slot
- 5 Display window
- 6 **▲** (eject) button
- 7 **T/P** (traffic programme/programme type) button
- 8 **SRC** (source) button
- 9 **BAND** button
- 10 Control dial
- 11 **SEL** (select) button
- 12 **EQ** (equalizer) button
- 13 **MO** (monaural) button
- 14 **SSM** (Strong-station Sequential Memory) button
- 15 Number buttons
- 16 **RPT** (repeat) button
- 17 **RND** (random) button
- 18 **MODE** button
- 19 **DISP** (display) button
- 20 **⏻** (control panel release) button

Display window

- 21 Disc type indicators—WMA, MP3
- 22 Playback source indicators—
CH: Lights up only when CD-CH is selected as the playback source.
DISC: Lights up for the built-in CD player.
- 23 Playback mode / item indicators—
RND (random), **🎵** (disc), **📁** (folder), **RPT** (repeat)
- 24 **LOUD** (loudness) indicator
- 25 **EQ** (equalizer) indicator
- 26 Sound mode (C-EQ: custom equalizer) indicators—**JAZZ**, **CLASSIC**, **HIP HOP**, **POPS**, **ROCK**, **USER**
- 27 **Tr** (track) indicator
- 28 Disc information indicators—**TAG** (ID3 Tag), **📁** (folder), **🎵** (track/file)
- 29 Source display / Volume level indicator
- 30 Main display
- 31 **RDS** indicators—**TP**, **PTY**, **AF**, **REG**
- 32 Tuner reception indicators—**ST** (stereo), **MO** (monaural)

Installing the lithium coin battery (CR2025)

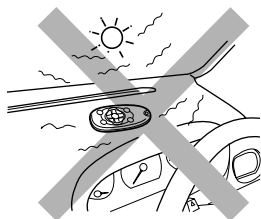


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

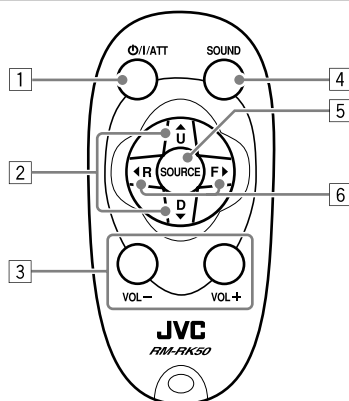
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



Main elements and features



- 1 **⏻/I/ATT** (standby/on/attenuator) button
 - Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
- 2 **▲ U** (up) / **D** (down) **▼** buttons
 - Changes the FM/AM/DAB bands with **▲ U**.
 - Changes the preset stations with **D ▼**.
 - Changes the folder of the MP3/WMA discs.
 - While playing an MP3 disc on an MP3-compatible CD changer:
 - Changes the disc if pressed briefly.
 - Changes the folder if pressed and held.
 - While listening to an Apple iPod® or a JVC D. player:
 - Pauses/stops or resumes playback with **D ▼**.
 - Enter the main menu with **▲ U**. (Now **▲ U/D ▼/◀ R/F ▶** work as the menu selecting buttons.)*
- 3 **VOL - / VOL +** buttons
 - Adjusts the volume level.
- 4 **SOUND** button
 - Selects the sound mode (C-EQ: custom equalizer).
- 5 **SOURCE** button
 - Selects the source.

- * **▲ U** : Returns to the previous menu.
D ▼ : Confirms the selection.

To be continued....

- 6 ◀ R (reverse) / F (forward) ▶ buttons
- Searches for stations (or services) if pressed briefly.
 - Searches for ensembles if pressed and held.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks of the disc if pressed briefly.
 - While listening to an iPod or a D. player (in menu selecting mode):
 - Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
 - Skips 10 items at a time if pressed and held.

Getting started

Basic operations

- 1 Turn on the power.



- 2



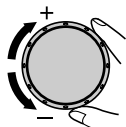
* You cannot select these sources if they are not ready or not connected.

- 3

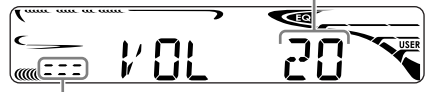


- For FM/AM tuner
 - FM1 → FM2 → FM3
 - AM ←
- For DAB tuner
 - DAB1 → DAB2
 - DAB3 ←

- 4 Adjust the volume.



Volume level appears.



Volume level indicator

- 5 Adjust the sound as you want. (See pages 13 and 14.)

<p>To drop the volume in a moment (ATT)</p> <p>To restore the sound, press it again.</p>	
<p>To turn off the power</p>	<p>Hold...</p>

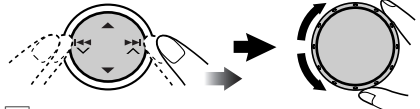
Basic settings

- See also “General settings — PSM” on pages 14 – 16.

- 1



- 2



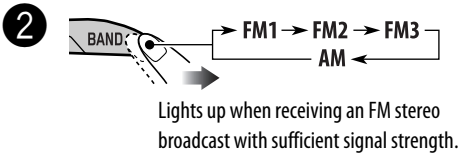
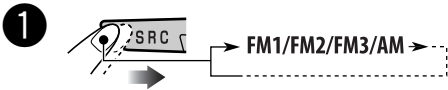
- 1 **Canceling the display demonstrations**
Select “DEMO,” then “DEMO OFF.”
- 2 **Setting the clock**
Select “CLOCK H” (hour), then adjust the hour.
Select “CLOCK M” (minute), then adjust the minute.
Select “24H/12H,” then “24H” (hour) or “12H” (hour).

- 3 Finish the procedure.



<p>To check the current clock time when the power is turned off</p>	
--	--

Radio operations



3 Start searching for a station.



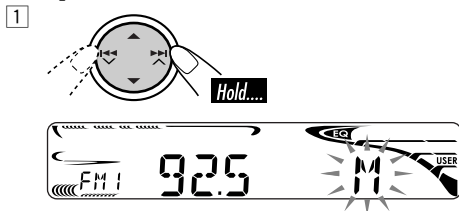
When a station is received, searching stops.
To stop searching, press the same button again.

Note:

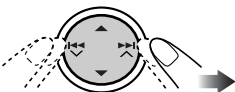
FM1 and FM2: 87.5 MHz – 108.0 MHz
 FM3: 65.00 MHz – 74.00 MHz

To tune in to a station manually

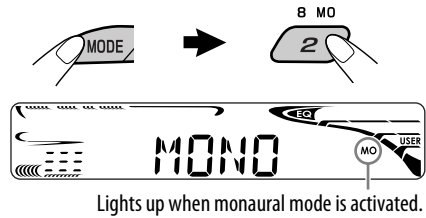
In step 3 above...



2 Select a desired station frequency.



When an FM stereo broadcast is hard to receive



Reception improves, but stereo effect will be lost.

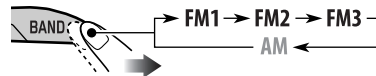
To restore the stereo effect, repeat the same procedure. “MONO OFF” appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.



2



3

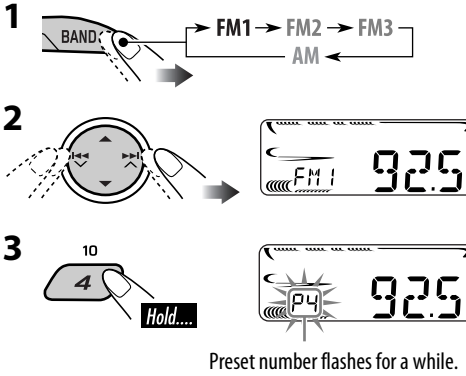


“SSM” flashes, then disappears when automatic presetting is over.

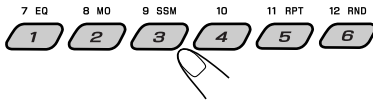
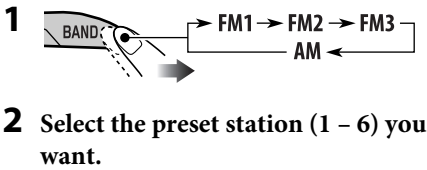
Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.



Listening to a preset station



To check the current clock time while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 10.



FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 9 and 15)
- Tracing the same programme automatically —Network-Tracking Reception (see page 10)
- Programme Search (see page 15)

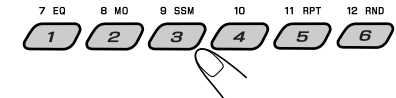
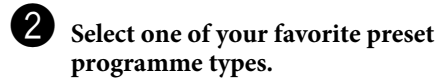
Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

- To store your favorite programme types, see page 9.

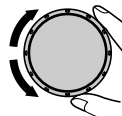


The last selected PTY code appears.

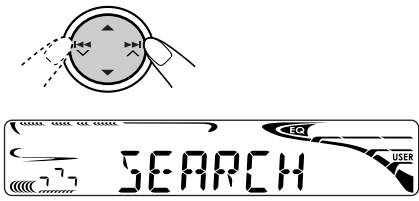


or

Select one of the PTY codes (see page 10).



3 Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

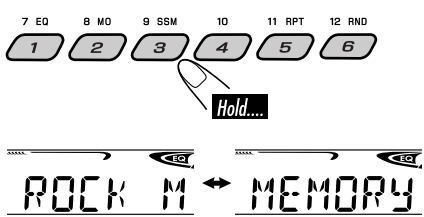
Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

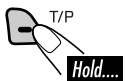
1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

- 1 Select a PTY code (see page 8).
- 2 Select the preset number (1 – 6) you want to store into.



Ex.: When "ROCK M" is selected

- 3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.
- 4 Finish the procedure.



Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM. The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 15).

To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
 - If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
- To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception



The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 15.

- The PTY indicator either lights up or flashes.
- If the PTY indicator lights up, PTY Standby Reception is activated.
 - If the PTY indicator flashes, PTY Standby Reception is not yet activated.
- To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

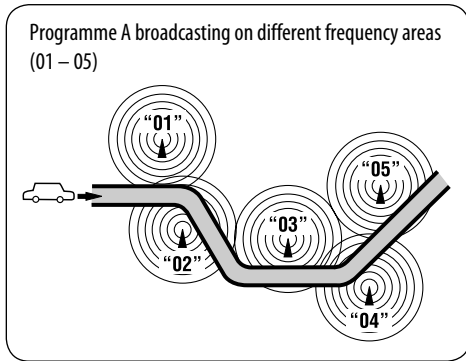
To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 15). The PTY indicator goes off.

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see “AF-REG” on page 15.



To check the current clock time while listening to an FM RDS station



Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

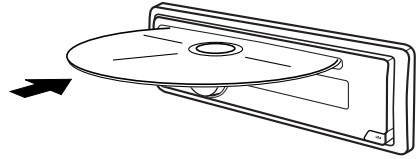
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc operations

Playing a disc in the unit

All tracks will be played repeatedly until you change the source or eject the disc.



To stop play and eject the disc

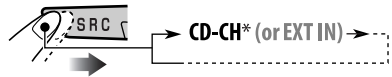


Playing discs in the CD changer

All discs in the magazine will be played repeatedly until you change the source.

- Ejecting the magazine will also stop playing.

1



* If you have changed the external input setting to “EXT IN” (see page 16), you cannot select the CD changer.

2

Select a disc.

For disc number from 01 – 06:



For disc number from 07 – 12:



About MP3 and WMA discs

MP3 and WMA “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

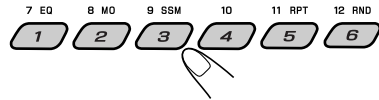
About the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit.

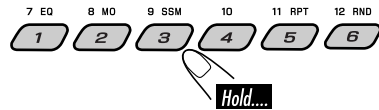
- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). These units are not compatible with MP3 discs.
- You cannot play any WMA disc in the CD changer.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.
- For connection, see Installation/Connection Manual (separate volume).

To locate a particular track (for CD) or folder (for MP3 or WMA discs) directly

To select a number from 01 – 06:



To select a number from 07 – 12:



- To use direct folder access on MP3/WMA discs, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To fast-forward or reverse the track




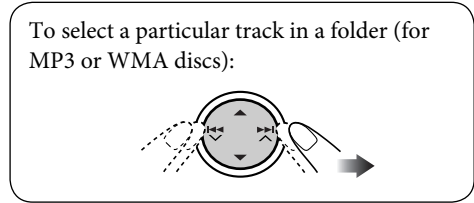
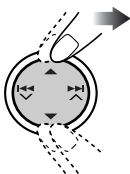
To go to the next or previous tracks



To go to the next or previous folders (only for MP3 or WMA discs)

For MP3 discs:  

For WMA discs: 



Other main functions

■ Skipping tracks quickly during play



Only possible on JVC
MP3-compatible CD changer

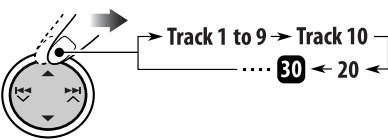
- For MP3 or WMA discs, you can skip tracks within the same folder.

Ex.: To select track 32 while playing a track whose number is a single digit (1 to 9)

1



2



Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



■ Prohibiting disc ejection



You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

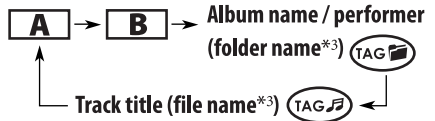


■ While playing an audio CD or a CD Text

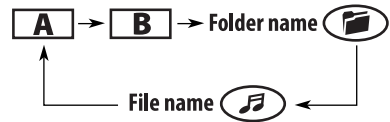


■ While playing an MP3 or a WMA *2 disc

- When “TAG DISP” is set to “TAG ON” (see page 16)



- When “TAG DISP” is set to “TAG OFF”



[A] : Elapsed playing time with the current track number

[B] : Clock with the current track number

*1 If the current disc is an audio CD, “NO NAME” appears.

*2 Only for the built-in CD player.

*3 If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.

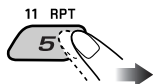
Selecting the playback modes

You can use only one of the following playback modes at a time.



2 Select your desired playback mode.

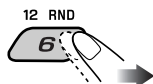
Repeat play



Mode	Plays repeatedly
------	------------------

- TRK RPT** : The current track.
- FLDR RPT*1** : All tracks of the current folder.
- DISC RPT*2** : All tracks of the current disc.
- RPT OFF** : Cancels.

Random play



Mode	Plays at random
------	-----------------

- FLDR RND*1** : All tracks of the current folder, then tracks of the next folder and so on.
- DISC RND** : All tracks of the current disc.
- MAG RND*2** : All tracks of the inserted discs.
- RND OFF** : Cancels.

*1 Only while playing an MP3 or a WMA disc.

*2 Only while playing discs in the CD changer.

Sound adjustments

You can select a preset sound mode suitable to the music genre (C-EQ: custom equalizer).



Preset values	BAS (bass)	TRE (treble)	LOUD (loudness)
USER (Flat sound)	00	00	OFF
ROCK (Rock or disco music)	+03	+01	ON
CLASSIC (Classical music)	+01	-02	OFF
POPS (Light music)	+04	+01	OFF
HIP HOP (Funk or rap music)	+02	00	ON
JAZZ (Jazz music)	+02	+03	OFF

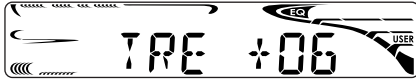
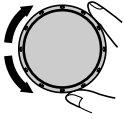
Adjusting the sound

You can adjust the sound characteristics to your preference.



To be continued...

2



Ex.: When "TRE" is selected

Indication [Range]

BAS*1 (bass)

Adjust the bass. [-06 to +06]

TRE*1 (treble)

Adjust the treble. [-06 to +06]

FAD*2 (fader)

Adjust the front and rear speaker balance.
[R06 to F06]

BAL (balance)

Adjust the left and right speaker balance.
[L06 to R06]

LOUD*1 (loudness)

Boost low and high frequencies to produce a well-balanced sound at low volume level.
[LOUD ON or LOUD OFF]

VOL (volume)

Adjust the volume. [00 to 30 or 50*3]

*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

*2 If you are using a two-speaker system, set the fader level to "00."

*3 Depending on the amplifier gain control setting. (See page 16 for details.)

General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table that follows.

1

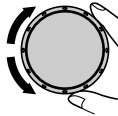


2 Select a PSM item.



Ex.: When "DIMMER" is selected

3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.

5 Finish the procedure.



Indications	Selectable settings, [reference page]
DEMO Display demonstration	DEMO ON : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. DEMO OFF : Cancels.
CLOCK H Hour adjustment	0 – 23 (1 – 12), [6] [Initial: 0 (0:00)]
CLOCK M Minute adjustment	00 – 59, [6] [Initial: 00 (0:00)]
24H/12H Time display mode	12H ⇄ 24H, [6] [Initial: 24H]
CLK ADJ *1 Clock adjustment	AUTO : [Initial]; The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. OFF : Cancels.
AF-REG *1 Alternative frequency/ regionalization reception	When the received signals from the current FM RDS station or DAB service become weak... AF : [Initial]; Switches to another station (or service) (the programme may differ from the one currently received), [10, 18]. • The AF indicator lights up. AF REG : Switches to another station broadcasting the same programme. • The AF and REG indicators light up. OFF : Cancels (not selectable when “DAB AF” is set to “AF ON”).
PTY-STBY *1 PTY standby	Activates PTY Standby Reception with one of the PTY codes, [9]. OFF [Initial] → PTY codes, [10] → (back to the beginning)
TA VOL *1 Traffic announcement volume	[Initial: VOL 15]; VOL 00 — VOL 30 or 50*2, [9, 21]
P-SEARCH *1 Programme search	ON : Using the AF data, the unit tunes in to another frequency broadcasting the same programme as the original preset RDS station is if the preset station signals are not sufficient. OFF : [Initial]; Cancels.

*1 Only for FM RDS stations.

*2 Depends on the amplifier gain control.

Indications	Selectable settings, [reference page]
DAB AF * ³ Alternative frequency reception	AF ON : [Initial]; Traces the programme among DAB services and FM RDS stations, [10, 18]. AF OFF : Cancels.
DAB VOL * ³ DAB volume adjustment	You can adjust the volume level (VOL -12 — VOL +12) of DAB tuner to match the FM sound level and store it in memory. [Initial: VOL 00]
DIMMER Dimmer	ON : Dims the display illumination of this unit. OFF : [Initial]; Cancels.
TEL Telephone muting	MUTING 1/MUTING 2 : Select either one which mutes the sounds while using a cellular phone. OFF : [Initial]; Cancels.
SCROLL * ⁴ Scroll	ONCE : [Initial]; Scrolls the disc information once. AUTO : Repeats scrolling (5-second intervals in between). OFF : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
EXT IN * ⁵ External input	CHANGER : [Initial]; To use a JVC CD changer, [10], an Apple iPod or a JVC D. player, [18]. EXT IN : To use any other external component than the above, [20].
TAG DISP Tag display	TAG ON : [Initial]; Shows the Tag information while playing MP3/WMA tracks, [12]. TAG OFF : Cancels.
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit. LOW PWR : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from being damaged.) HIGH PWR : [Initial]; VOL 00 – VOL 50
IF BAND Intermediate frequency filter	AUTO : [Initial]; Increases the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.) WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

*³ Displayed only when DAB tuner is connected.

*⁴ Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*⁵ Displayed only when one of the following sources is selected—FM, AM, or DISC.

DAB tuner operations

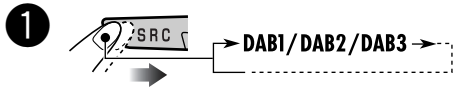
What is DAB system?

Digital Audio Broadcasting (DAB) can deliver digital quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. When transmitting, DAB combines several programmes (called “services”) to form one “ensemble.” In addition, each “service”—called “primary service”—can also be divided into its components (called “secondary service”). A typical ensemble has six or more programmes (services) broadcast at the same time. By connecting the DAB tuner, this unit can do the following:

- Tracing the same programme automatically —Alternative Frequency Reception (see “DAB AF” on page 16).

It is recommended to use DAB tuner KT-DB1000 with your unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied for your DAB tuner.

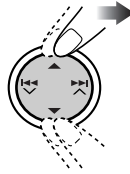


3 Start searching for an ensemble.



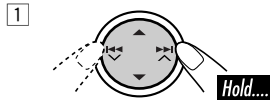
When an ensemble is received, searching stops.
To stop searching, press the same button again.

4 Select a service (either primary or secondary) to listen to.

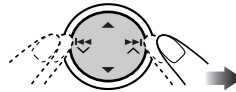


To tune in to an ensemble manually

Start searching for an ensemble, as in step **3** on the left column.



2 Select the desired ensemble frequencies.

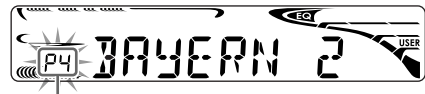
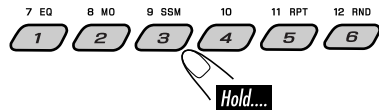


Storing DAB services in memory

You can preset six DAB services (primary) for each band.


1 Select a service you want (see steps 1 to 4 on the left column).

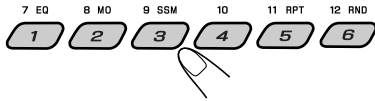
2 Select the preset number (1 – 6) you want to store into.



Preset number flashes for a while.

Tuning in to a preset DAB service

- 
- Select the preset DAB service (primary) number (1 – 6) you want.



If the selected primary service has some secondary services, pressing the same button again will tune in to the secondary services.

Tracing the same programme— Alternative Frequency Reception

You can keep listening to the same programme by activating the Alternative Frequency Reception.

- While receiving a DAB service:**
When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same programme.
- While receiving an FM RDS station:**
When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

When shipped from the factory, Alternative Frequency Reception is activated.

To deactivate the Alternative Frequency Reception, see page 15 and 16.

To change the display information while tuning to an ensemble



Service name → Ensemble name → Channel number → Frequency → Clock → (back to the beginning)

iPod®/D. player operations

This unit is ready for operating an Apple iPod or a JVC D. player from the control panel.

Before operating your iPod or D. player: Connect either one of the following (separately purchased) to the CD changer jack on the rear of this unit.


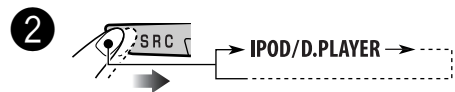
- **Interface adapter for iPod®**—KS-PD100 for controlling an iPod.
- **D. player interface adapter**—KS-PD500 for controlling a D. player.
- For connection, see Installation/Connection Manual (separate volume).
- For details, refer also to the manual supplied with the interface adapter.

Caution:

Make sure to turn off this unit or turn off the vehicle's ignition switch before connecting or disconnecting the iPod or D. player.

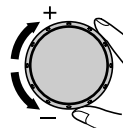
Preparations:

Make sure "CHANGER" is selected for the external input setting, see page 16.

- 
- 



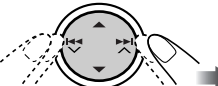
Playback starts automatically from where it has been paused*1 or stopped*2 previously.

- Adjust the volume.



4 Adjust the sound as you want. (See pages 13 and 14.)

- Make sure the equalizer on the iPod or D. player is deactivated.

<p>To pause*1 or stop*2 playback</p> <p>To resume playback, press it again.</p>	
<p>To fast-forward or reverse the track</p>	
<p>To go to the next or previous tracks</p>	

*1 For iPod

*2 For D. player

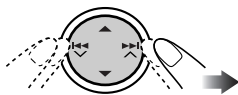
Selecting a track from the menu

1 Enter the main menu.



Now the ▲/▼/◀◀/▶▶/▲ buttons work as the menu selecting buttons*3.

2 Select the desired menu.



For iPod:

PLAYLIST ↔ ARTISTS ↔ ALBUMS ↔ SONGS
 ↔ GENRES ↔ COMPOSER ↔ (back to the beginning)

For D. player:

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE
 ↔ TRACK ↔ (back to the beginning)

3 Confirm the selection.



To move back to the previous menu, press ▲.

- If a track is selected, playback starts automatically.
- If the selected item has another layer, you will enter the layer. Repeat steps 2 and 3 until the desired track is played.
- Holding ◀◀/▶▶/▲ can skip 10 items at a time.

*3 The menu selecting mode will be canceled:

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

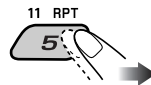
Selecting the playback modes

1



2 Select your desired playback mode.

■ Repeat play



ONE RPT 

Functions the same as “Repeat One” of the iPod or “Repeat Mode One” for the D. player.

ALL RPT  

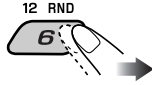
Functions the same as “Repeat All” of the iPod or “Repeat Mode All” for the D. player.

RPT OFF

Cancels.

To be continued....

■ Random play



ALBM RND*⁴

Functions the same as “Shuffle Albums” of the iPod.

SONG RND/RND ON

Functions the same as “Shuffle Songs” of the iPod or “Random Play On” of the D. player.

RND OFF

Cancels.

*⁴ For iPod: Only if you select “ALL” in “ALBUMS” of the main “MENU.”

To check other information while listening to an iPod or a D. player

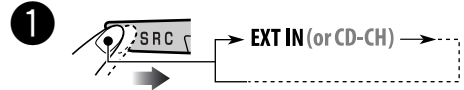


Other external component operations

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter—KS-U57 (not supplied) or AUX Input Adapter—KS-U58 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).

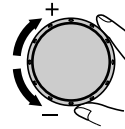
For listening to the iPod or D. player, refer to pages 18 – 20.



If “EXT IN” does not appear, see page 16 and select the external input (“EXT IN”).

- 2 Turn on the connected component and start playing the source.

- 3 Adjust the volume.



- 4 Adjust the sound as you want. (See pages 13 and 14.)

To check the clock time while listening to an external component



EXT IN ↔ Clock

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.

- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 15.)
- If you want to know more about RDS, visit «<http://www.rds.org.uk>».

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- When a disc had been loaded, selecting “DISC” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

Playing a disc

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

To be continued....

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only files of the same type which are first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can play back files recorded in VBR (variable bit rate).

Files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit can recognize a total of 512 files, of 200 folders, and of 8 hierarchies.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, AT3RAC, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts from where it has been stopped previously.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

General settings—PSM

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

DAB tuner operations

- Only primary DAB services can be presetted even when you store a secondary service.
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.

iPod® or D. player operations

- When you turn on this unit, the iPod or D. player is charged through this unit.
- While the iPod or D. player is connected, all operations from the iPod or D. player are disabled. Perform all operations from this unit.
- The text information may not be displayed correctly.
 - Some characters such as accented letters cannot be shown correctly on the display.
 - Depends on the condition of communication between the iPod or D. player and the unit.
- If the text information includes more than 8 characters, it scrolls on the display (see also page 16). This unit can display up to 40 characters.

Notice:

When operating an iPod or a D. player, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site:

For iPod users: <<http://www.jvc.co.jp/english/car/support/ks-pd100/index.html>>

For D. player users: <<http://www.jvc.co.jp/english/car/support/ks-pd500/index.html>>

Available characters on the display

Available characters

Display indications

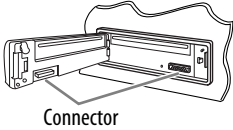
А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М
А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М
Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ
Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ
Ъ	Ы	Ь	Э	Ю	Я	Ё	А	В	С	Д	Е	Ф
Ъ	Ы	Ь	Э	Ю	Я	Ё	А	В	С	Д	Е	Ф
Г	Н	І	Ј	К	Л	М	Н	О	Р	Q	R	S
Г	Н	І	Ј	К	Л	М	Н	О	Р	Q	R	S
Т	U	V	W	X	Y	Z	0	1	2	3	4	5
Т	U	V	W	X	Y	Z	0	1	2	3	4	5
6	7	8	9	-	/	<	>	space				
6	7	8	9	-	/	<	>					

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Warped disc



Sticker



Sticker residue



Stick-on label

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level.
	• The unit does not work at all.	• Check the cords and connections.
FM/AM	• SSM automatic presetting does not work.	Reset the unit (see page 2).
	• Static noise while listening to the radio.	Store stations manually. Connect the aerial firmly.

	Symptoms	Remedies/Causes
Disc playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	Insert the disc correctly.
	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc can be neither played back nor ejected. 	<ul style="list-style-type: none"> • Unlock the disc (see page 12). • Eject the disc forcibly (see page 2).
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a playable disc into the loading slot.
MP3/WMA playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	<ul style="list-style-type: none"> • Noise is generated. 	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	Playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • “NO FILES” appears on the display. 	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
CD changer	<ul style="list-style-type: none"> • “NO DISC” appears on the display. 	Insert a disc into the magazine.
	<ul style="list-style-type: none"> • “NO MAG” appears on the display. 	Insert the magazine.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> • The CD changer does not work at all. 	Reset the unit (see page 2).

To be continued....

	Symptoms	Remedies/Causes
DAB	<ul style="list-style-type: none"> • “noSIGNAL” appears on the display. 	Move to an area with stronger signals.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Connect this unit and the DAB tuner correctly and reset the unit (see page 2).
	<ul style="list-style-type: none"> • “ANTENANG” appears on the display. 	Check the cords and connections.
	<ul style="list-style-type: none"> • The DAB tuner does not work at all. 	Reconnect this unit and the DAB tuner correctly and reset the unit (see page 2).
iPod/D. player playback	<ul style="list-style-type: none"> • The iPod or D. player does not turn on or does not work. 	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Change the battery.
	<ul style="list-style-type: none"> • Buttons do not work as intended. 	The functions of the buttons have been changed. Press MODE before performing the operation.
	<ul style="list-style-type: none"> • The sound is distorted. 	Deactivate the equalizer either on the unit or the iPod/D. player.
	<ul style="list-style-type: none"> • “NO IPOD” or “NO DP” appears on the display. 	Check the connecting cable and its connection.
	<ul style="list-style-type: none"> • Playback stops. 	The headphones are disconnected during playback. Restart the playback operation using the control panel (see page 19).
	<ul style="list-style-type: none"> • No sound can be heard when connecting an iPod nano. 	Disconnect the headphones from the iPod nano.
	<ul style="list-style-type: none"> • No sound can be heard. • “ERROR 01” appears on the display when connecting a D. player. 	Disconnect the adapter from the D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “NO FILES” or “NO TRACK” appears on the display. 	No tracks are stored. Import tracks to the iPod or D. player.
	<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	Disconnect the adapter from both the unit and iPod/D. player. Then, connect it again.
	<ul style="list-style-type: none"> • “RESET 8” appears on the display. 	Check the connection between the adapter and this unit.
	<ul style="list-style-type: none"> • The iPod’s or D. player’s controls do not work after disconnecting from this unit. 	Reset the iPod or D. player.

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.5 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Other Terminal: CD changer

TUNER SECTION

Frequency Range:

FM1/FM2: 87.5 MHz to 108.0 MHz

FM3: 65.00 MHz to 74.00 MHz

AM: (MW) 522 kHz to 1 620 kHz
(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB

Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 μ V

Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 μ V

CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of Channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

MP3 Decoding Format:

MPEG1/2 Audio Layer 3

Max. Bit Rate: 320 kbps

WMA (Windows Media[®] Audio) Decoding Format:

Max. Bit Rate: 192 kbps

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W \times H \times D):

Installation Size (approx.):

182 mm \times 52 mm \times 150 mm

Panel Size (approx.):

188 mm \times 58 mm \times 11 mm

Mass (approx.):

1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



**Having TROUBLE with operation?
Please reset your unit**

Refer to page of How to reset your unit

**Затруднения при эксплуатации?
Пожалуйста, перезагрузите Ваше устройство**

Для получения информации о перезагрузке Вашего устройства
обратитесь на соответствующую страницу

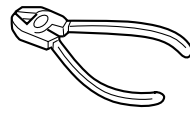
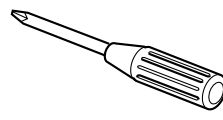
JVC



EN, RU

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1105DTSMMDTJEIN



ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

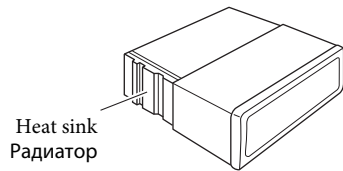
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 16 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобильного специалиста JVC.

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

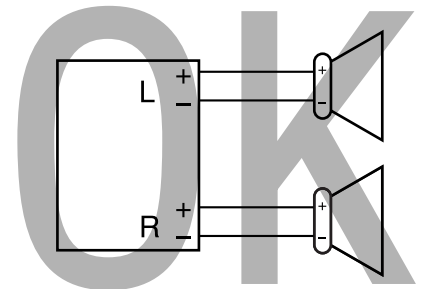
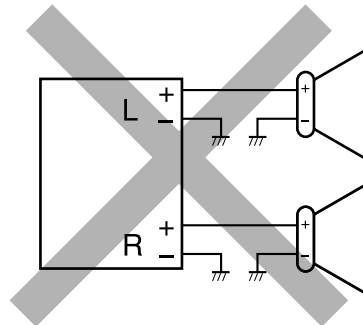
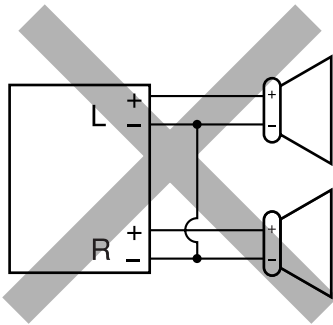
- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобильного специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 16).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению

громкоговорителей:

- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.

Parts list for installation and connection

The following parts are provided for this unit.

If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

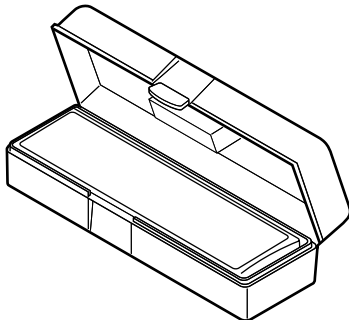
Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством.

При отсутствии какого-либо элемента немедленно свяжитесь с дилером автомобильного специалиста JVC.

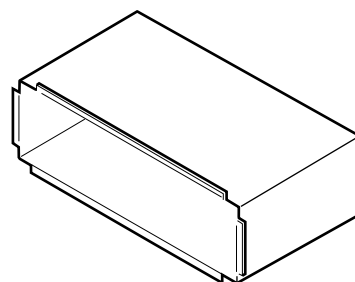
(A) / (B)

Hard case/Control panel
Жесткий футляр/панель управления



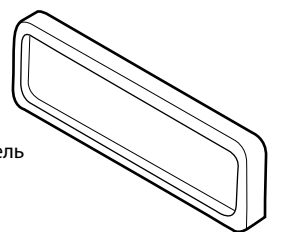
(C)

Sleeve
Муфта



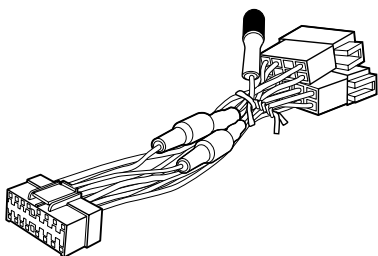
(D)

Trim plate
Декоративную панель



(E)

Power cord
Кабель питания



(F)

Washer (ø5)
Шайба (№5)



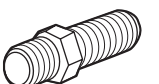
(G)

Lock nut (M5)
Фиксирующая гайка (M5)



(H)

Mounting bolt (M5 × 20 mm)
Крепежный болт (M5 × 20 мм)



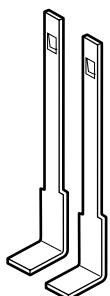
(I)

Rubber cushion
Резиновый чехол



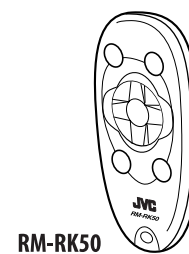
(J)

Handles
Рычаги



(K)

Remote controller
дистанционного управления



(L)

Battery
Батарейка

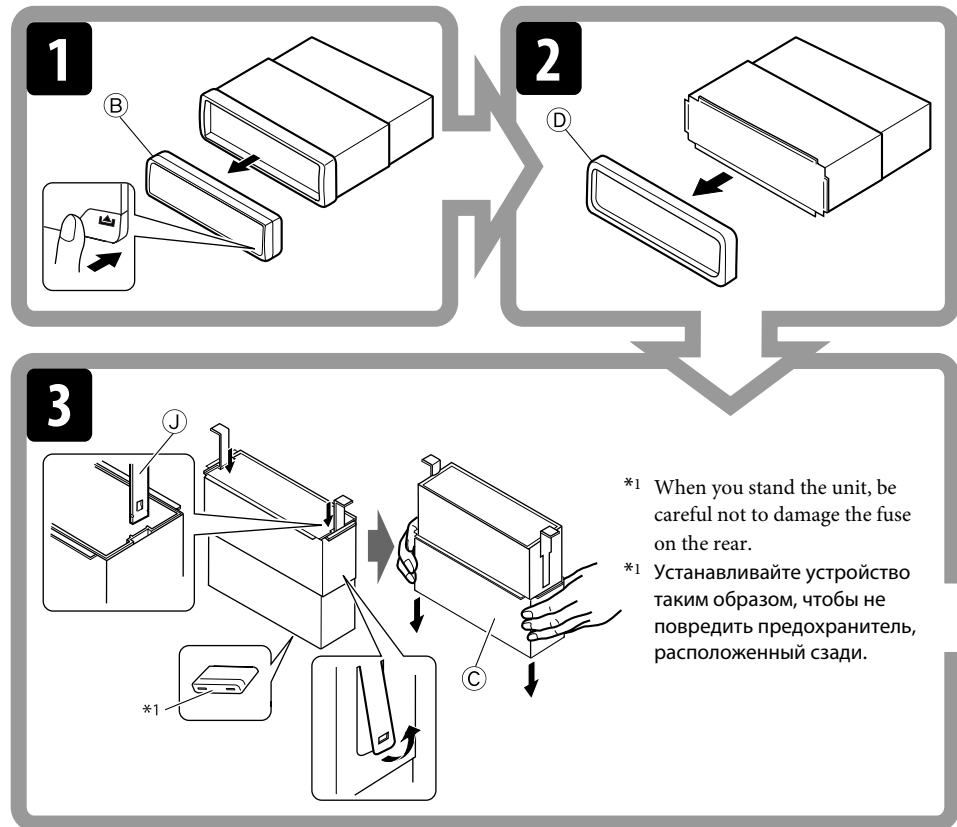


CR2025

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

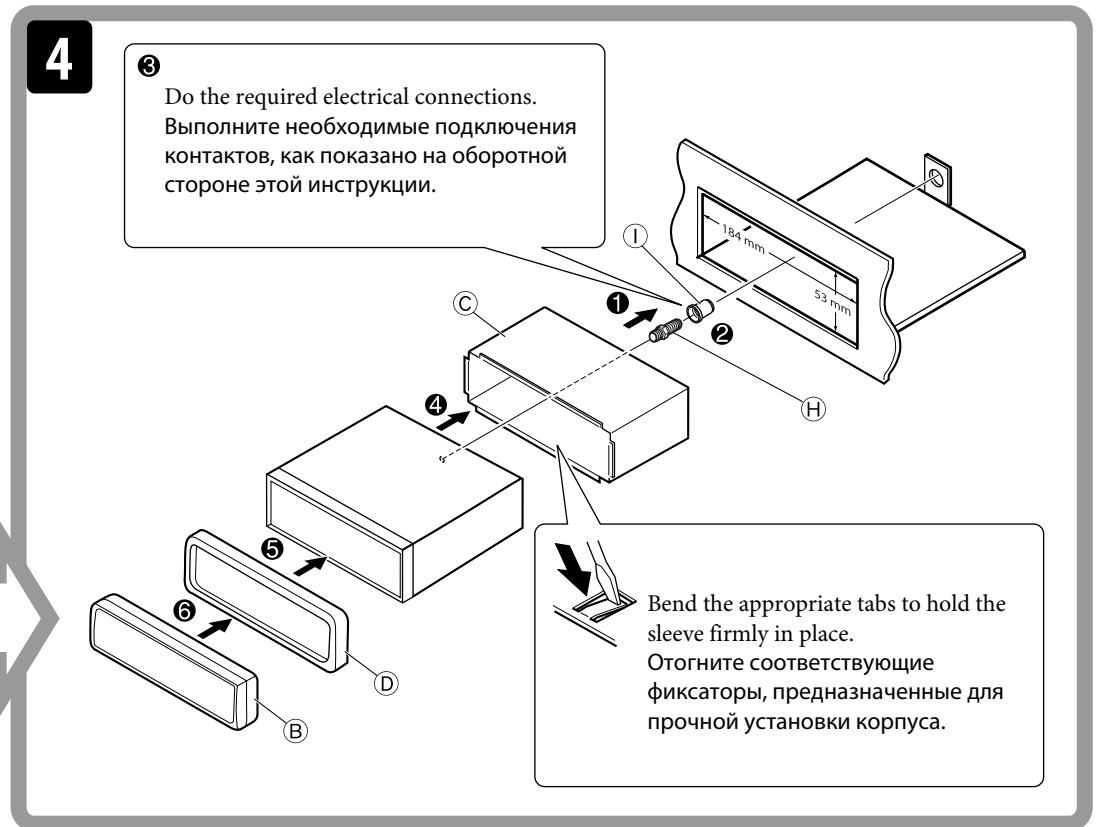
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

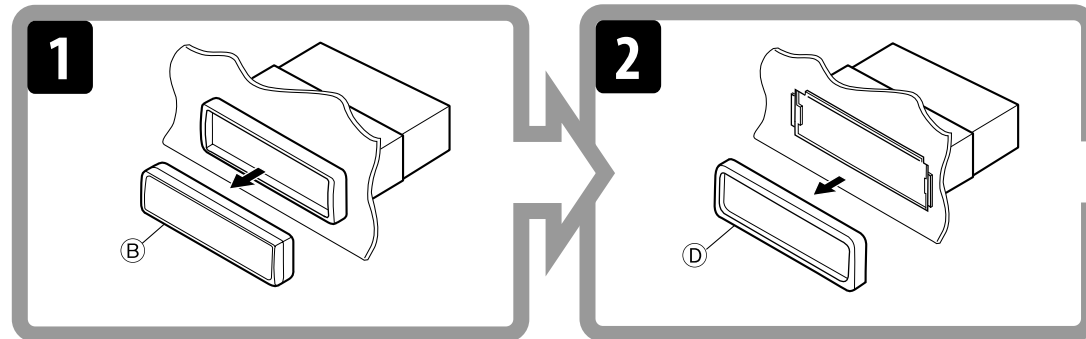
На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобильного специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.



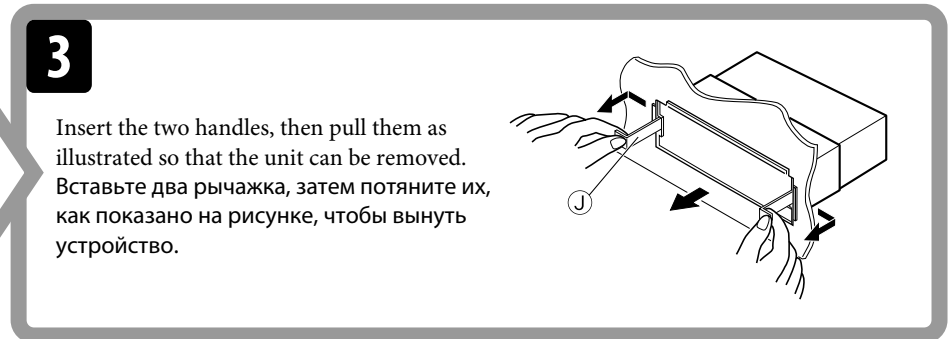
Removing the unit

Before removing the unit, release the rear section.

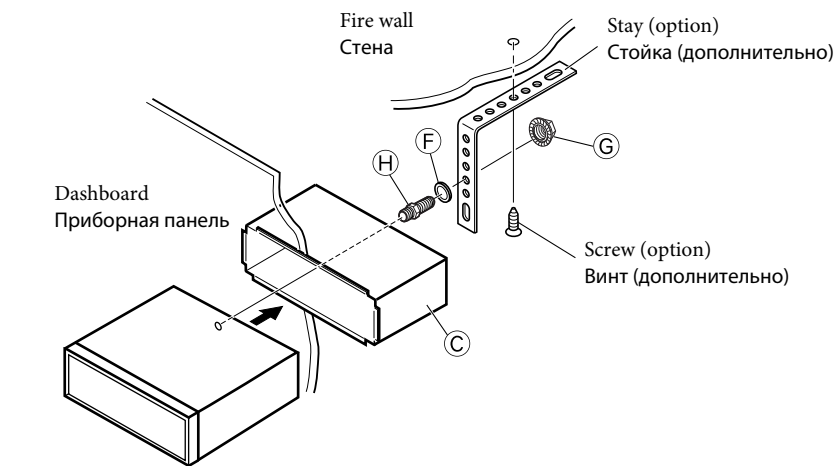


Удаление устройства

Перед удалением устройства освободите заднюю часть.



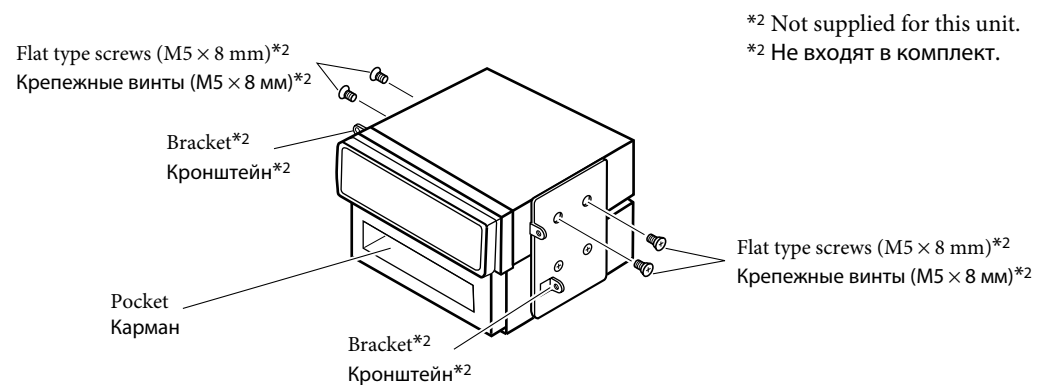
When using the optional stay / При использовании дополнительной стойки



Install the unit at an angle of less than 30°. Установите устройство под углом менее 30°.

When installing the unit without using the sleeve / При установке устройства без использования муфты

In a Toyota car for example, first remove the car radio and install the unit in its place. В автомобилях "Toyota", например, сначала удалите автомобильную магнитолу, затем установите на ее место это устройство.



*2 Not supplied for this unit. *2 Не входят в комплект.

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Примечание : При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **Unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

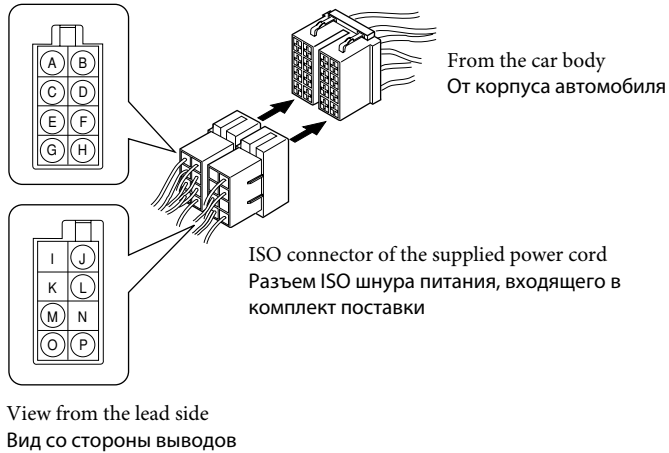
- **Сработал предохранитель.**
 - * Правильно ли подключены черный и красный провода?
- **Питание не включается.**
 - * Подключен ли желтый провод?
- **Звук не выводится через громкоговорители.**
 - * Нет ли короткого замыкания на кабеле выхода громкоговорителей?
- **Звук искажен.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы "-" правого (R) и левого (L) громкоговорителей?
- **Шум мешает звучанию.**
 - * Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнура?
- **Устройство нагревается.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы "-" правого (R) и левого (L) громкоговорителей?
- **Приемник не работает.**
 - * Выполнена ли перенастройка приемника?

ELECTRICAL CONNECTIONS

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

A If your car is equipped with the ISO connector / Если автомобиль оснащен разъемом ISO

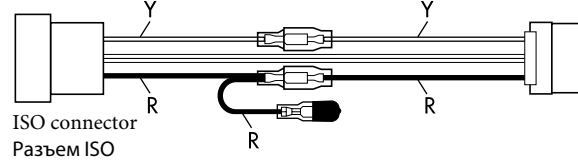
- Connect the ISO connectors as illustrated.
- Подключите разъемы ISO, как показано на рисунке.



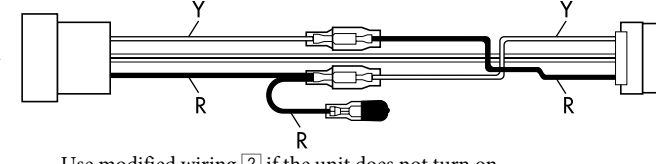
For some VW/Audi or Opel (Vauxhall) automobile / Для некоторых автомобилей VW/Audi или Opel (Vauxhall)

- You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.
 - Возможно, потребуется изменить схему соединений для прилагаемого шнура питания, как показано на рисунке.
 - Перед установкой приемника обратитесь к авторизованному агенту по продажам автомобильных систем.

Original wiring / Исходная схема соединений

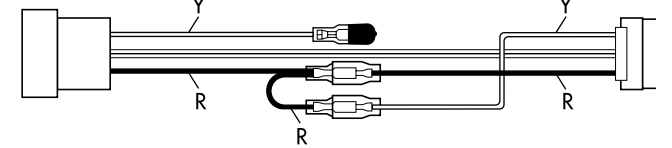


Modified wiring 1 / Преобразованная схема соединений 1



Use modified wiring 2 if the unit does not turn on. Если приемник не включается, используйте преобразованную схему соединений 2.

Modified wiring 2 / Преобразованная схема соединений 2



Y: Yellow / Желтый

R: Red / Красный

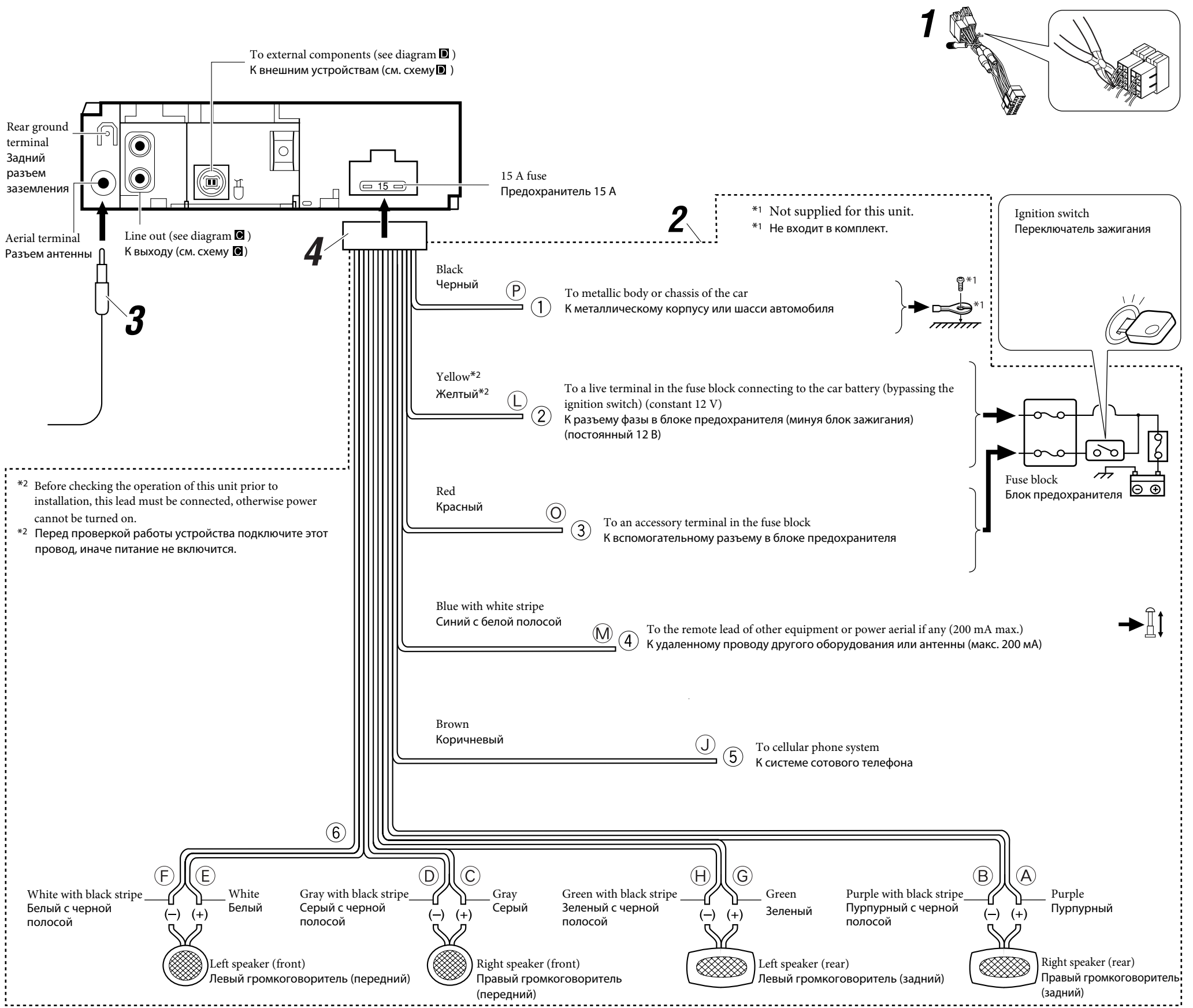
B Connections without using the ISO connectors / Подключение без использования разъемов ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

Перед началом подключений: Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства. Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.

- 1 Cut the ISO connector.
- 2 Connect the colored leads of the power cord in the order specified in the illustration below.
- 3 Connect the aerial cord.
- 4 Finally connect the wiring harness to the unit.

- 1 Обрежьте разъем ISO.
- 2 Подсоедините цветные провода шнура питания в указанном ниже порядке.
- 3 Подключите кабель антенны.
- 4 В последнюю очередь подключите электропроводку к устройству.



*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Перед проверкой работы устройства подключите этот провод, иначе питание не включится.

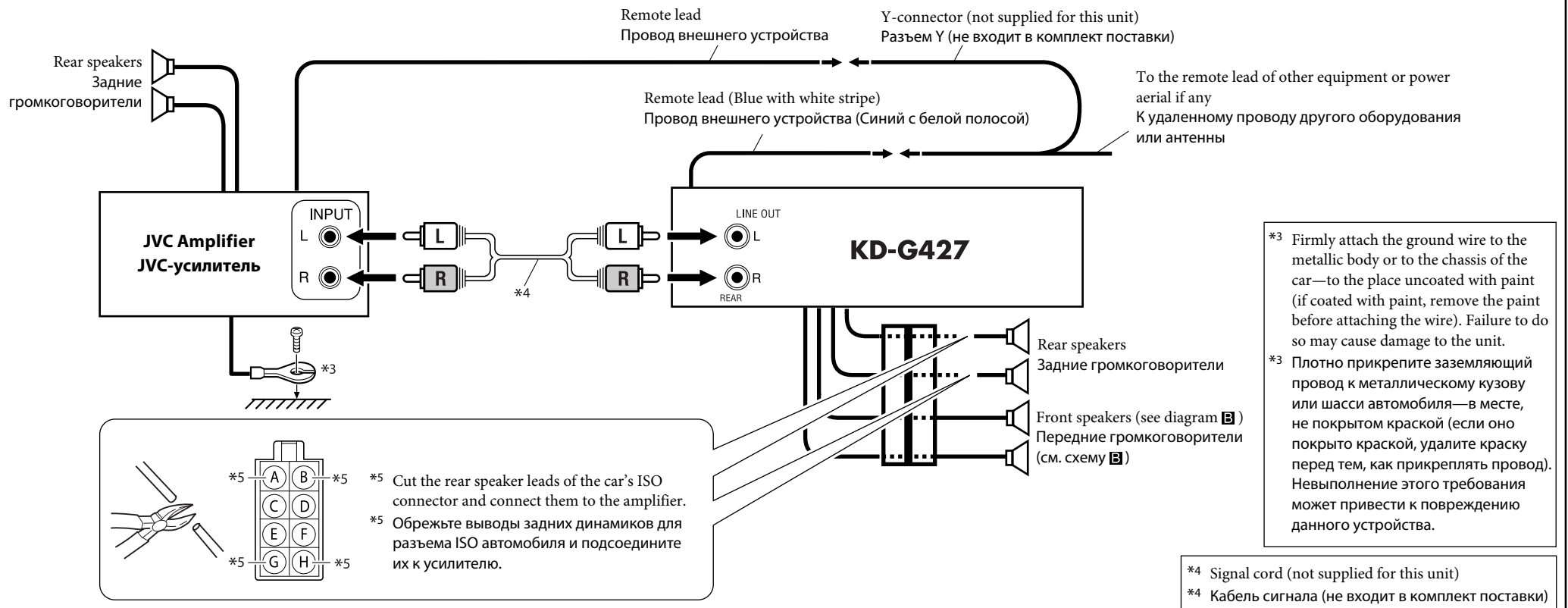
C Connecting the external amplifier / Подключение внешних усилителей

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Можно подключить усилители для обновления автомобильной стереосистемы.

- Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего устройства другого оборудования так, чтобы им можно было управлять с этого устройства.
- **Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользуемыми.**

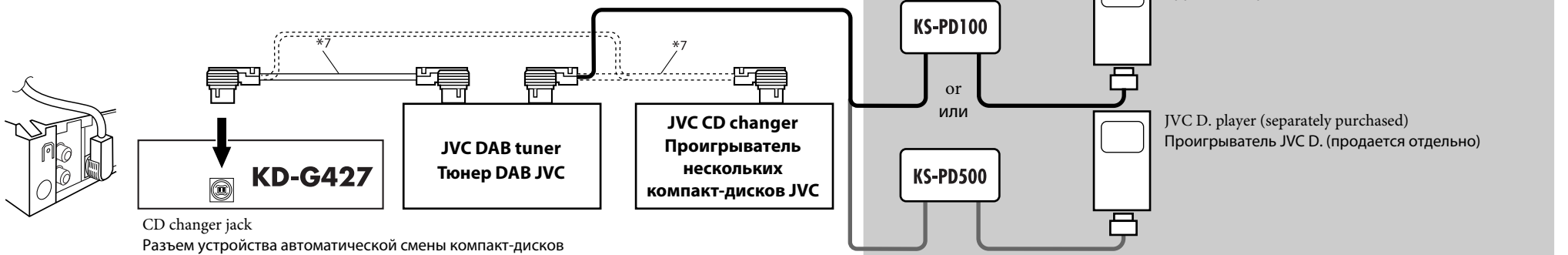


D Connecting the external components / Подключение внешних устройств

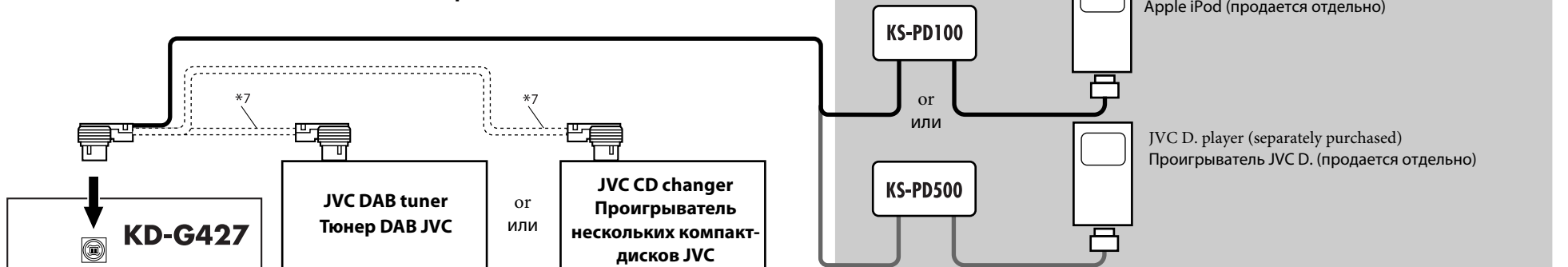
CD changer, DAB tuner, Apple iPod®, or JVC D. player / Устройство автоматической смены компакт-дисков, тюнер DAB, проигрыватель Apple iPod® или JVC D.

- Set "CHANGER" for the external input setting (See page 16 of the INSTRUCTIONS.) / Установите для внешнего входа значение "CHANGER" (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 16.)
- You can connect both components in series as illustrated below. The iPod® or D. player can be connected using an interface adapter (not supplied)—KS-PD100 (for iPod) or KS-PD500 (for D. player).
- Эти внешние устройства можно подключать параллельно, как показано на рисунке. Проигрыватель iPod® или D. можно подключить с помощью интерфейсного адаптера (не входит в комплект поставки)—KS-PD100 (для iPod) или KS-PD500 (для проигрывателя D.).

Connection 1 (integrated connection) / Соединение 1 (интегрированное соединение)



Connection 2 (alternative connection) / Соединение 2 (альтернативное соединение)



CAUTION / ПРЕДОСТЕРЕЖЕНИЕ:

- Before connecting the external components, make sure that the unit is turned off.
- Перед подключением внешних компонентов убедитесь в том, что устройство выключено.

*6 iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

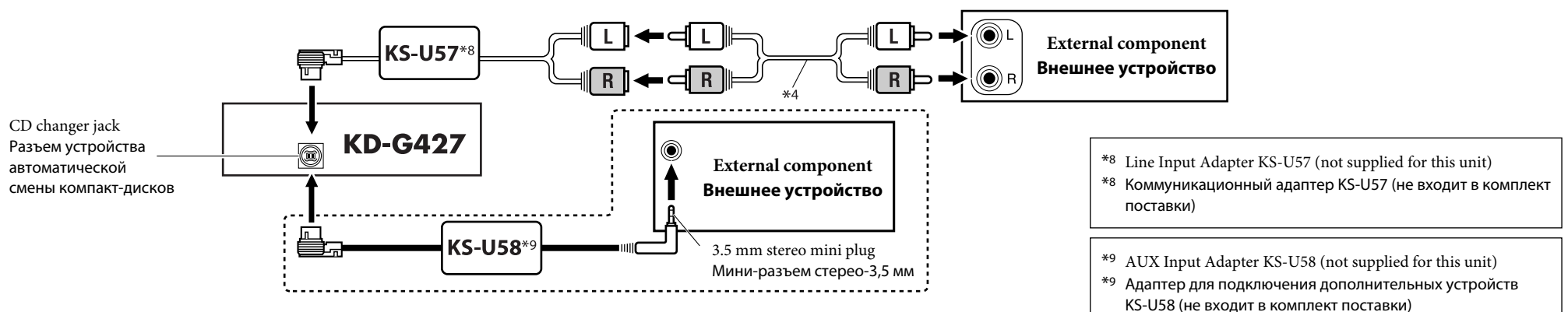
*6 iPod является торговой маркой Apple Computer, Inc., зарегистрированной в США и других странах.

*7 Connecting cord supplied for your CD changer or DAB tuner

*7 Подключение кабеля, входящего в комплект поставки устройства автоматической смены компакт-дисков или тюнера DAB

Other external component / Другое внешнее устройство

- Set "EXT IN" for the external input setting (See page 16 of the INSTRUCTIONS.) / Установите для внешнего входа значение "EXT IN" (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 16.)



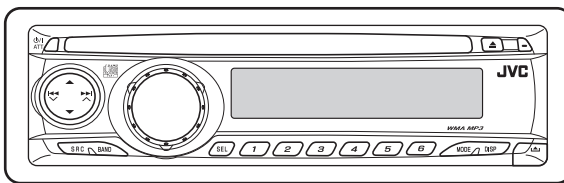
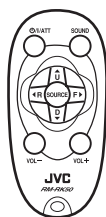
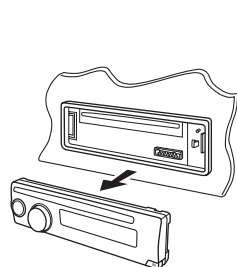
JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

**KD-AR370J, KD-G320J, KD-G421E
KD-G421EX, KD-G421EY, KD-G421EU
KD-G424UI, KD-G425UT, KD-G425UH
KD-G425UN, KD-G425U, KD-G427EE**

CD-ROM No.SML200601



**WMA
MP3**



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

Block diagram	2-1
Standard schematic diagrams	2-5
Printed circuit boards	2-29 to 31

Safety precaution

 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

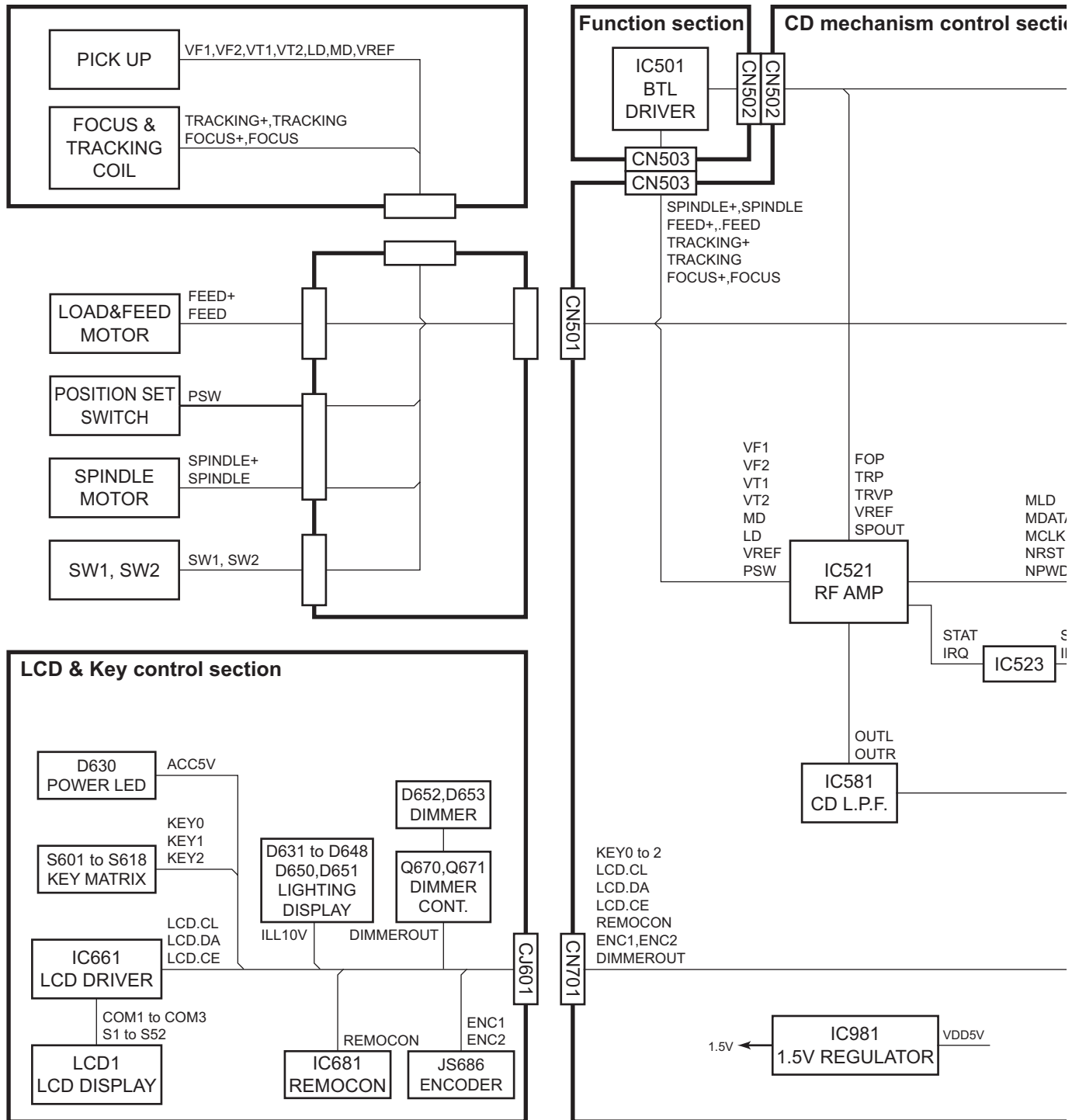
 **CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

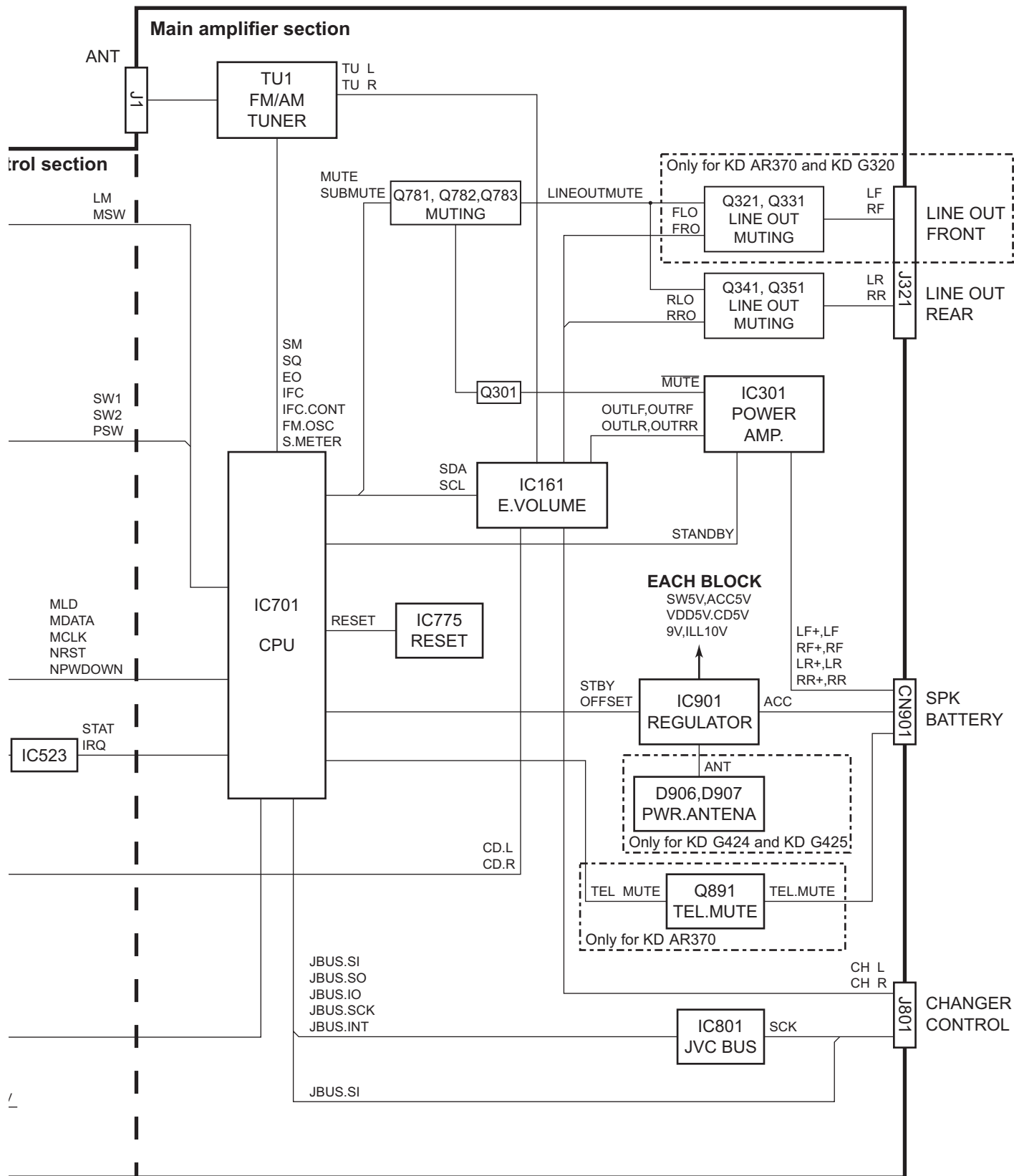
DIFFERENT POINT

	KD-AR370	KD-G320	KD-G421	KD-G424	KD-G425	KD-G427
	YES	YES	NO	NO	NO	NO
	YES	YES	NO	NO	NO	NO
	NO	NO	YES	NO	NO	YES
REMOTE CONTROLLER	YES	YES	NO	YES	YES	YES

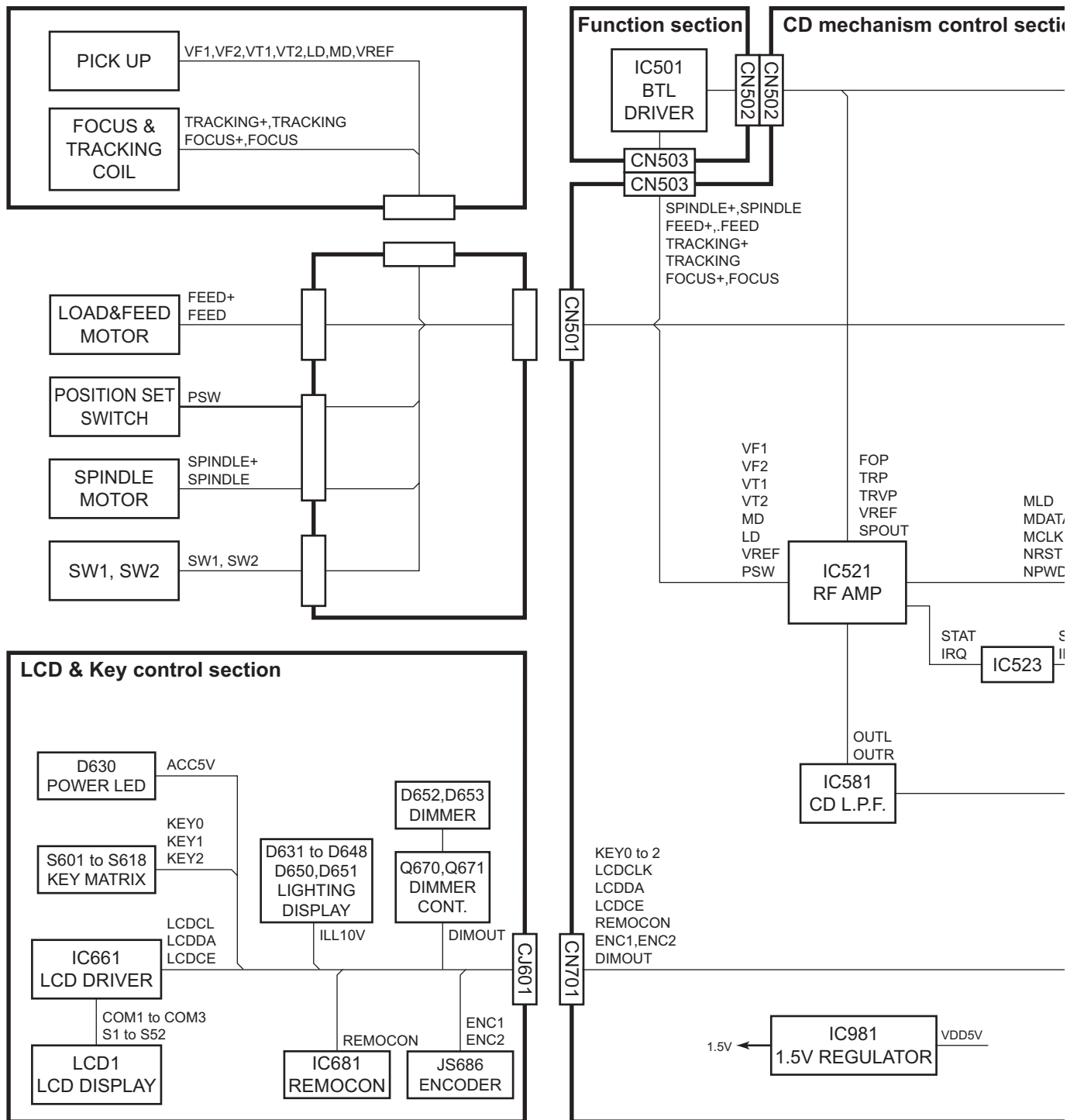
< MEMO >

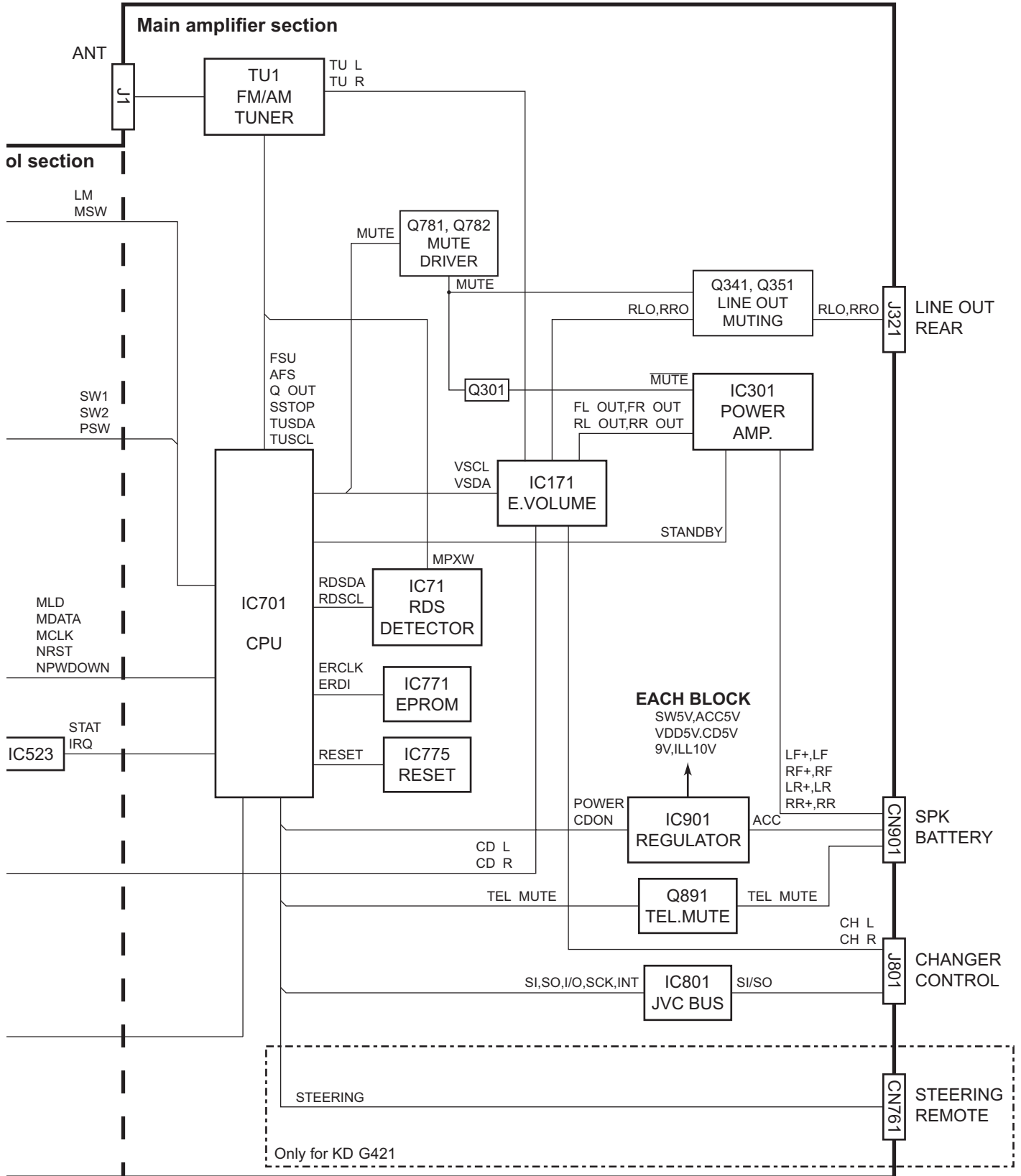
Block diagram (For KD-AR370,KD-G320,KD-G424 and KD-G425)





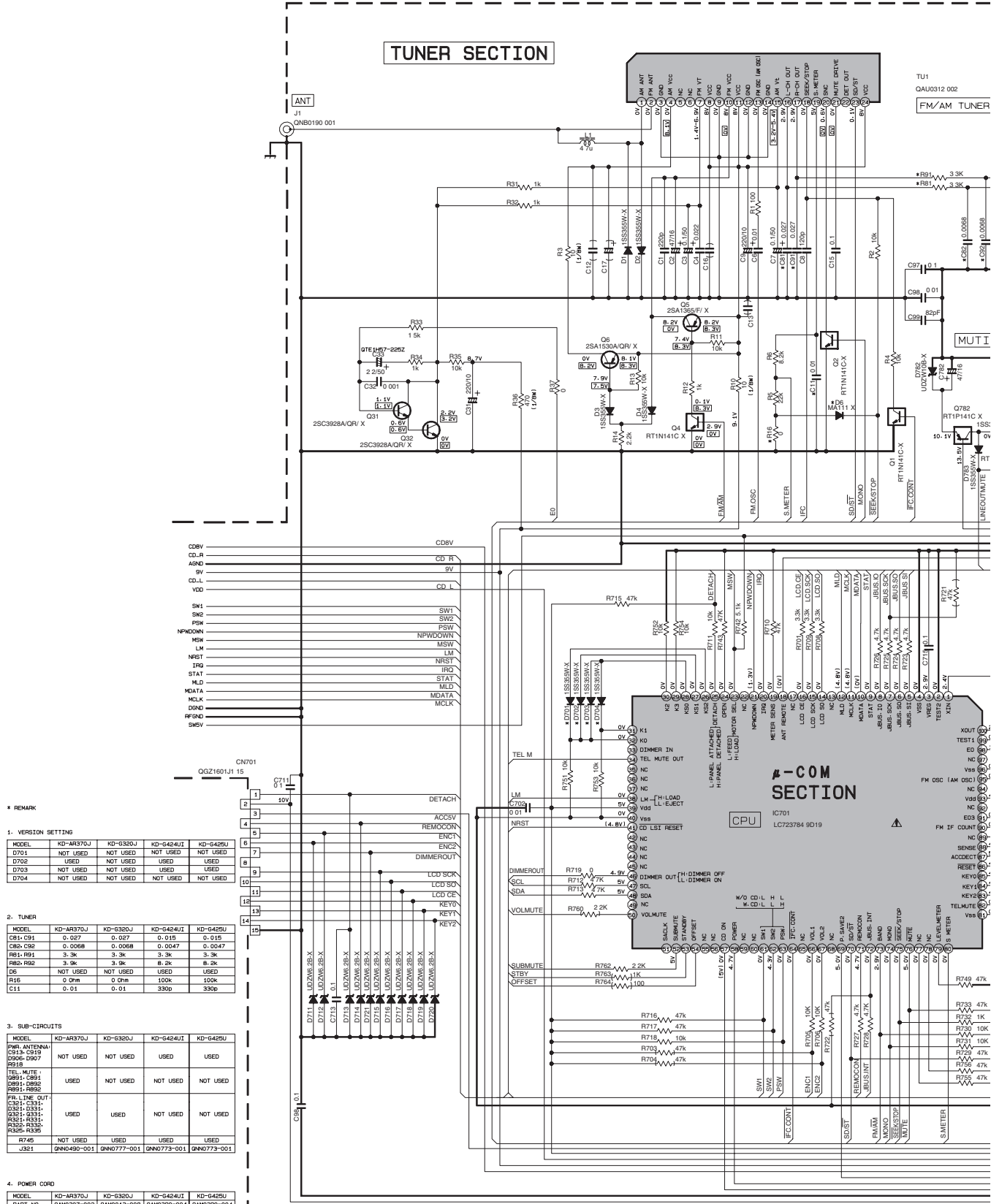
Block diagram (For KD-G421 and KD-G427)





Standard schematic diagrams

■ Main section (for KD-AR370, KD-G320, KD-G424, KD-G425)



* REMARK

1. VERSION SETTING

MODEL	KD-AR370J	KD-G320J	KD-G424UJ	KD-G425U
D701	NOT USED	NOT USED	NOT USED	NOT USED
D702	USED	NOT USED	USED	USED
D703	NOT USED	NOT USED	USED	USED
D704	NOT USED	NOT USED	NOT USED	NOT USED

2. TUNER

MODEL	KD-AR370J	KD-G320J	KD-G424UJ	KD-G425U
CB1-C91	0.027	0.027	0.015	0.015
CB2-C92	0.0068	0.0068	0.0047	0.0047
RB1-R91	3.3k	3.3k	3.3k	3.3k
RB2-R92	3.9k	3.9k	8.2k	8.2k
D6	NOT USED	NOT USED	USED	USED
R15	0 Ohm	0 Ohm	100k	100k
C11	0.01	0.01	390p	390p

3. SUB-CIRCUITS

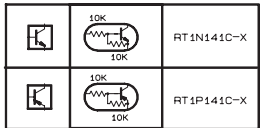
MODEL	KD-AR370J	KD-G320J	KD-G424UJ	KD-G425U
PRM. ANTENNA	NOT USED	NOT USED	USED	USED
TEL. MUTE	USED	NOT USED	NOT USED	NOT USED
FIL. LINE. OUT	USED	USED	NOT USED	NOT USED
R745	NOT USED	USED	USED	USED
J321	GN00490-001	GN00777-001	GN00773-001	GN00773-001

4. POWER CORD

MODEL	KD-AR370J	KD-G320J	KD-G424UJ	KD-G425U
PART NO.	QAM0307-002	QAM0013-008	QAM0390-004	QAM0390-004

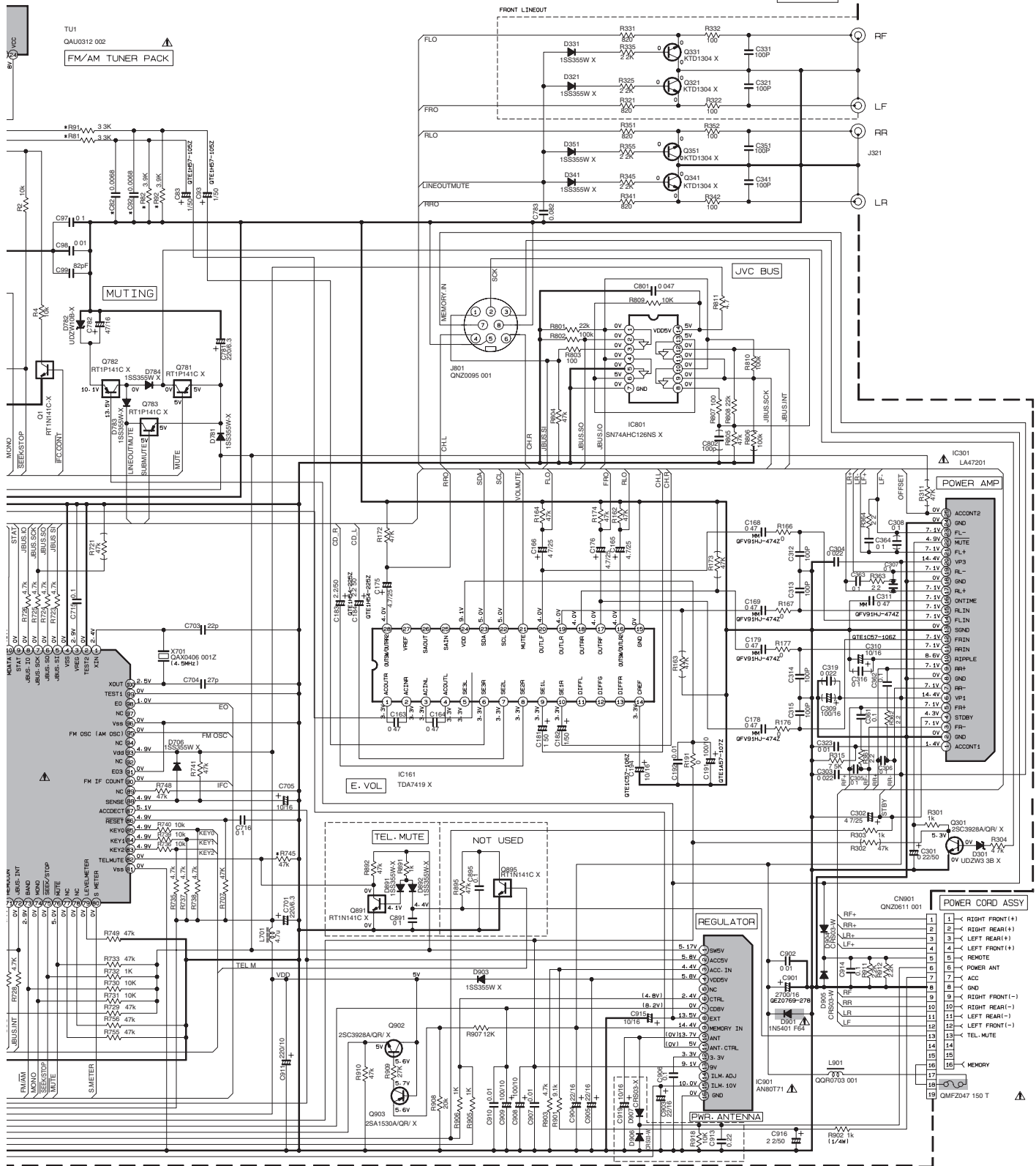
NOTES:

- VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLT-METER WITHOUT INPUT SIGNAL CONDITION
---FM/AM MODE: () CD MODE
- UNLESS OTHERWISE SPECIFIED:
ALL RESISTOR ARE 1/16W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN (UF/PPF).
ALL INDUCTANCE VALUES ARE IN μH.
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (UF)/RATED VOLTAGE (V)



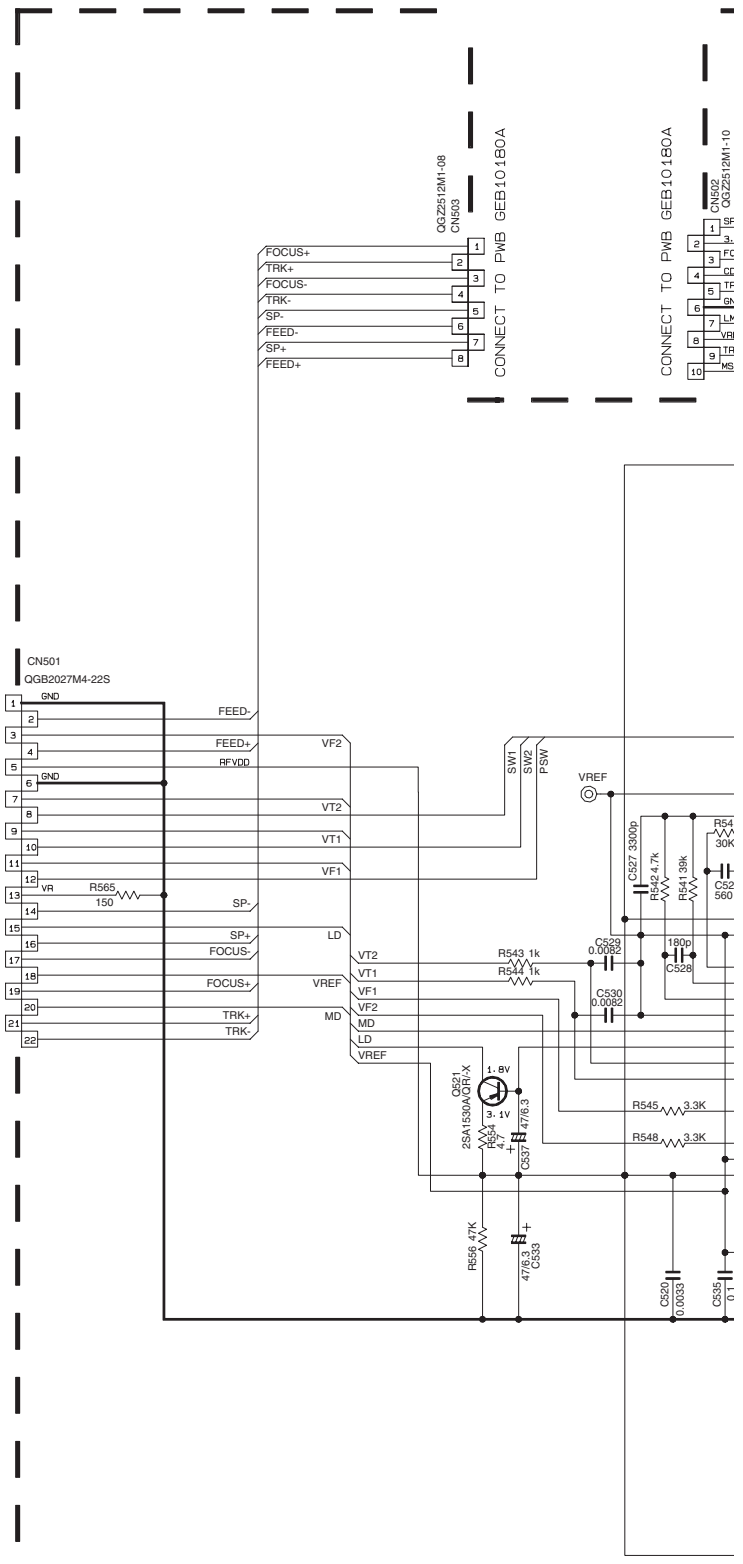
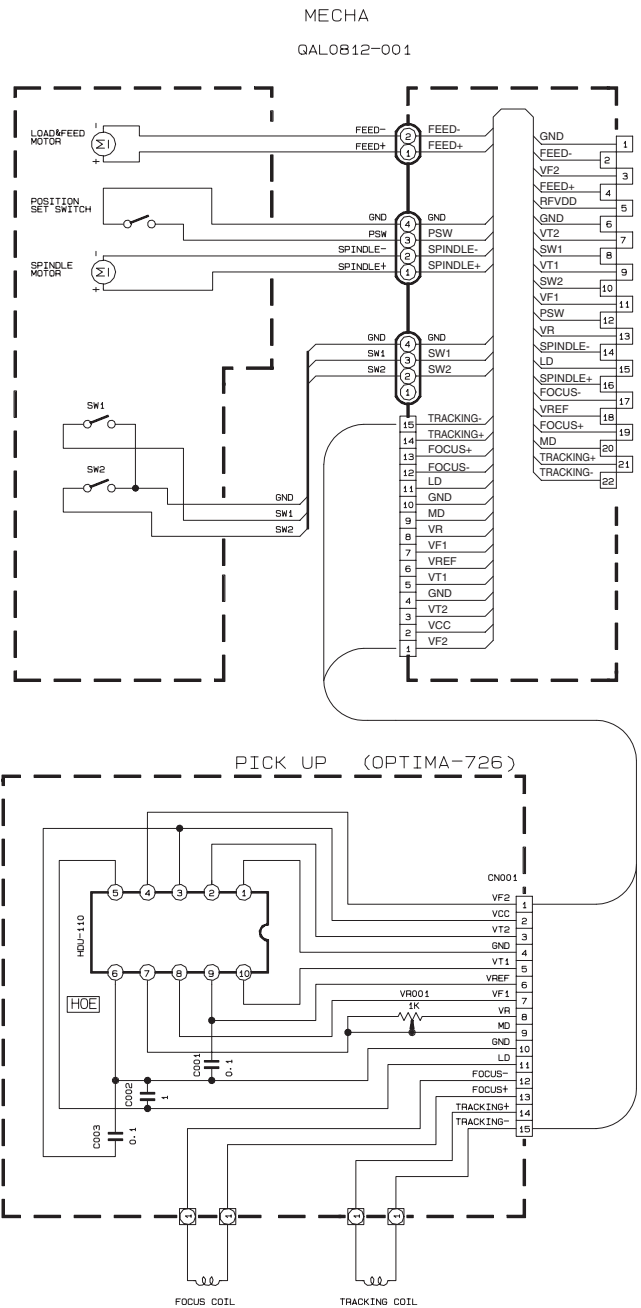
MAIN PWB: GEB10186A

LINEOUT

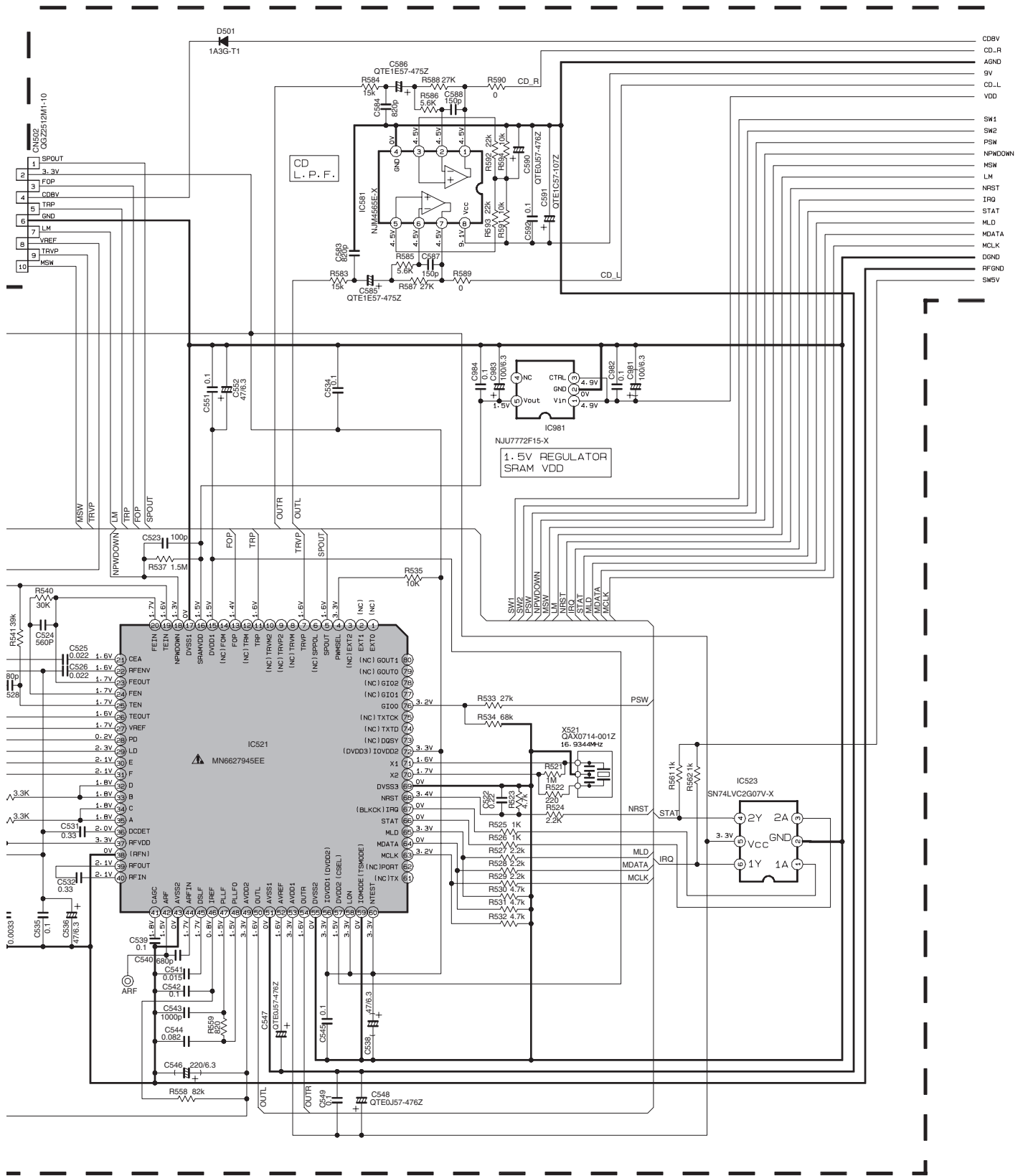


⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

■ CD servo control section (for KD-AR370,KD-G320,KD-G424,KD-G425)



- NOTES:
- VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION --- CD MODE.
 - UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ±5%METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM
ALL CAPACITANCE VALUES ARE IN uF(p=pF).
ALL INDUCTANCE VALUES ARE IN uH
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANK

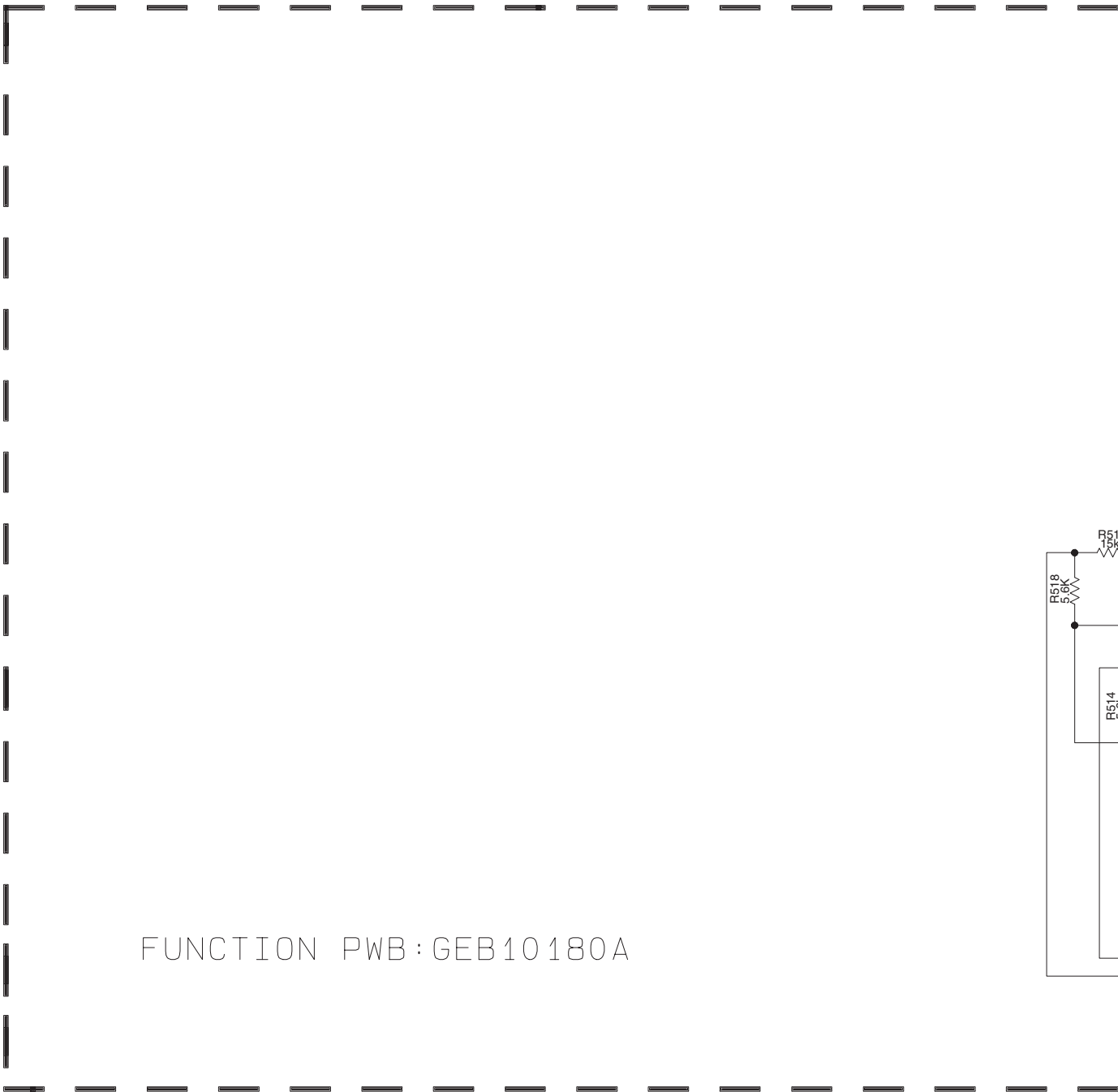


⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

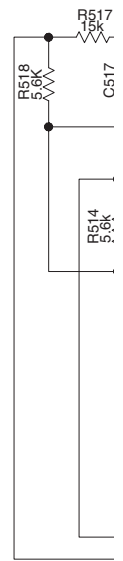
STOR.
:TOR.

CAPACITANCE (uF)/RATED VOLTAGE (V)

■ Function section (for KD-AR370,KD-G320,KD-G424,KD-G425)



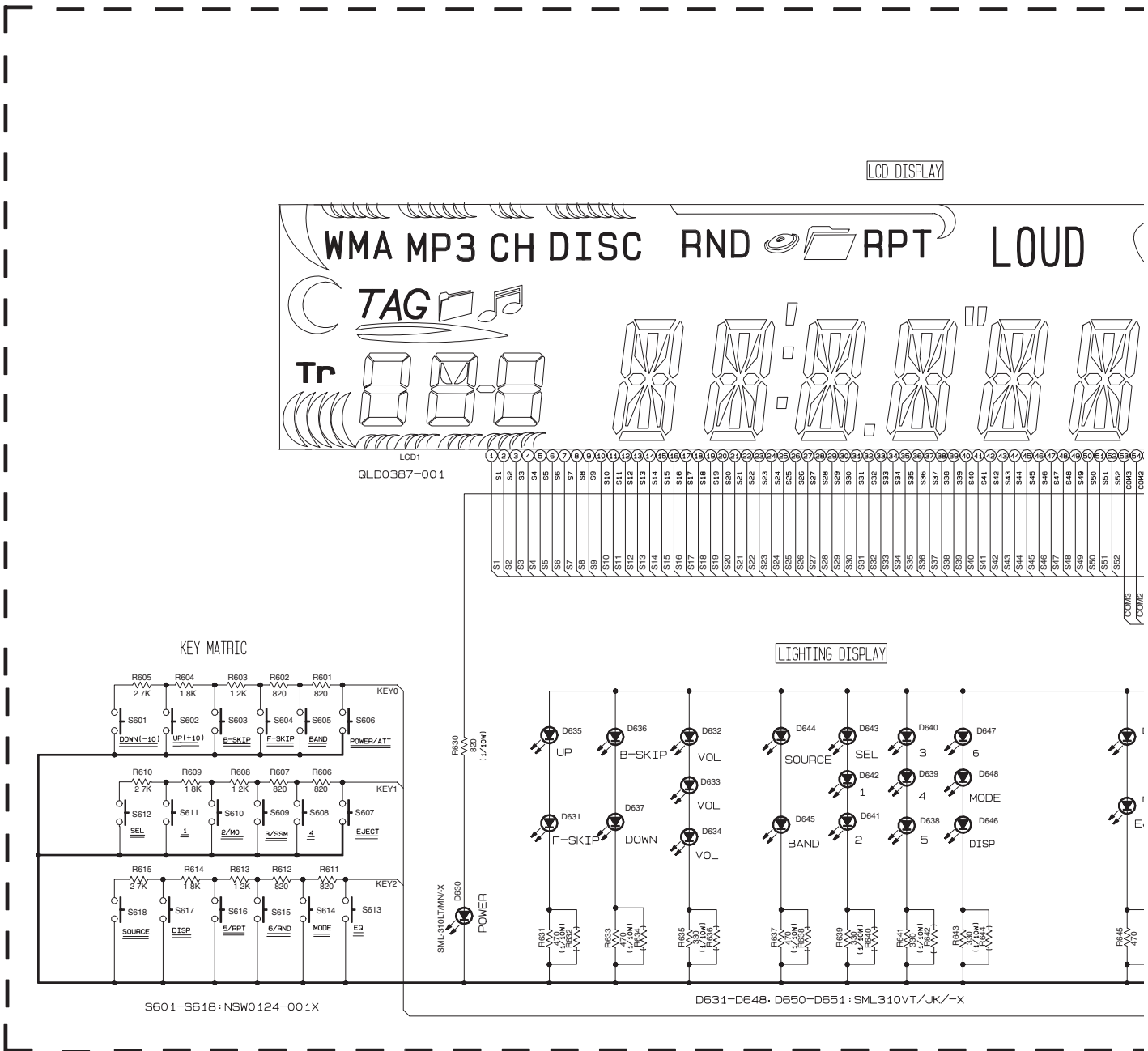
FUNCTION PWB : GEB10180A



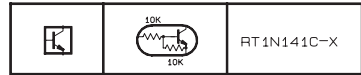
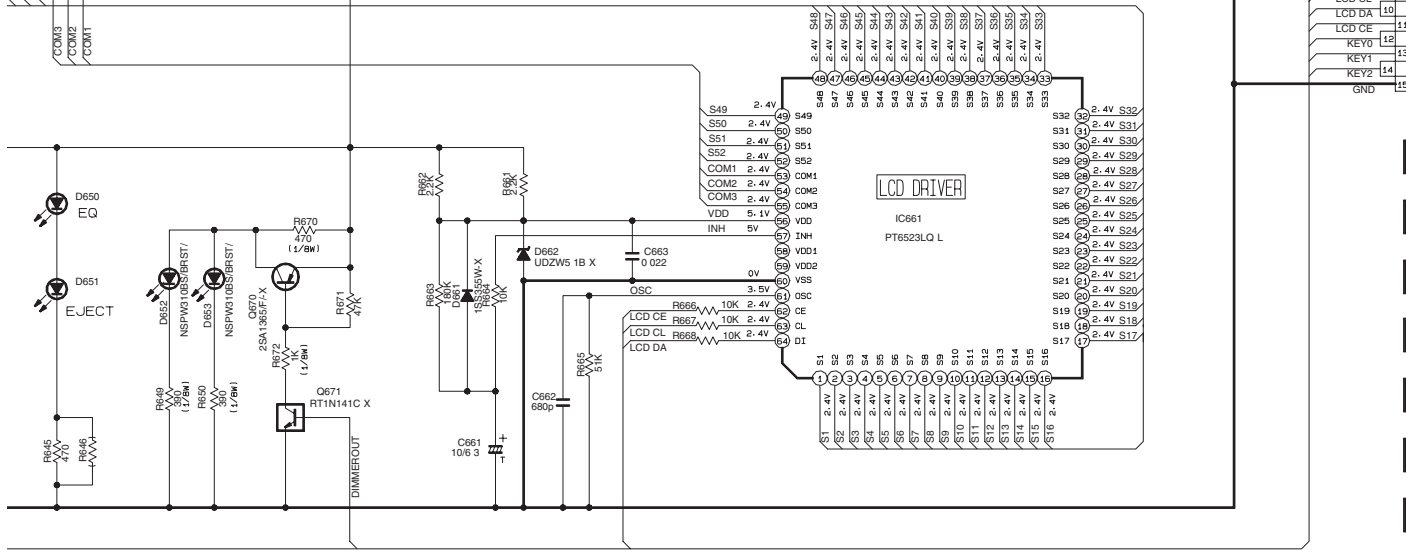
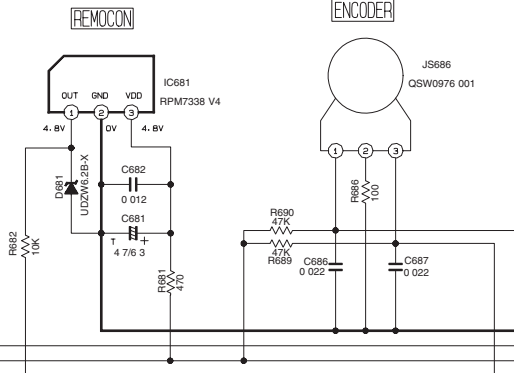
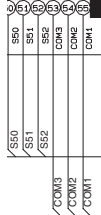
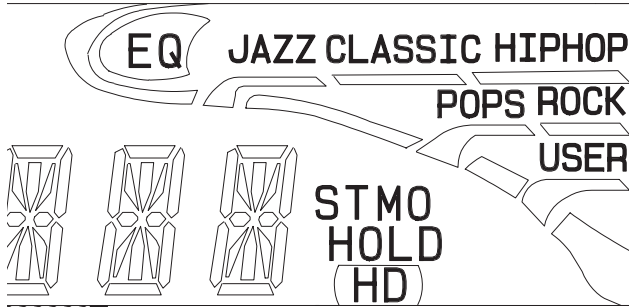
NOTES:

1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ± 5%METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM
ALL CAPACITANCE VALUES ARE IN uF(p=pF).
ALL INDUCTANCE VALUES ARE IN uH
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

■ LCD & Key control section (for KD-AR370,KD-G320,KD-G424,KD-G425)

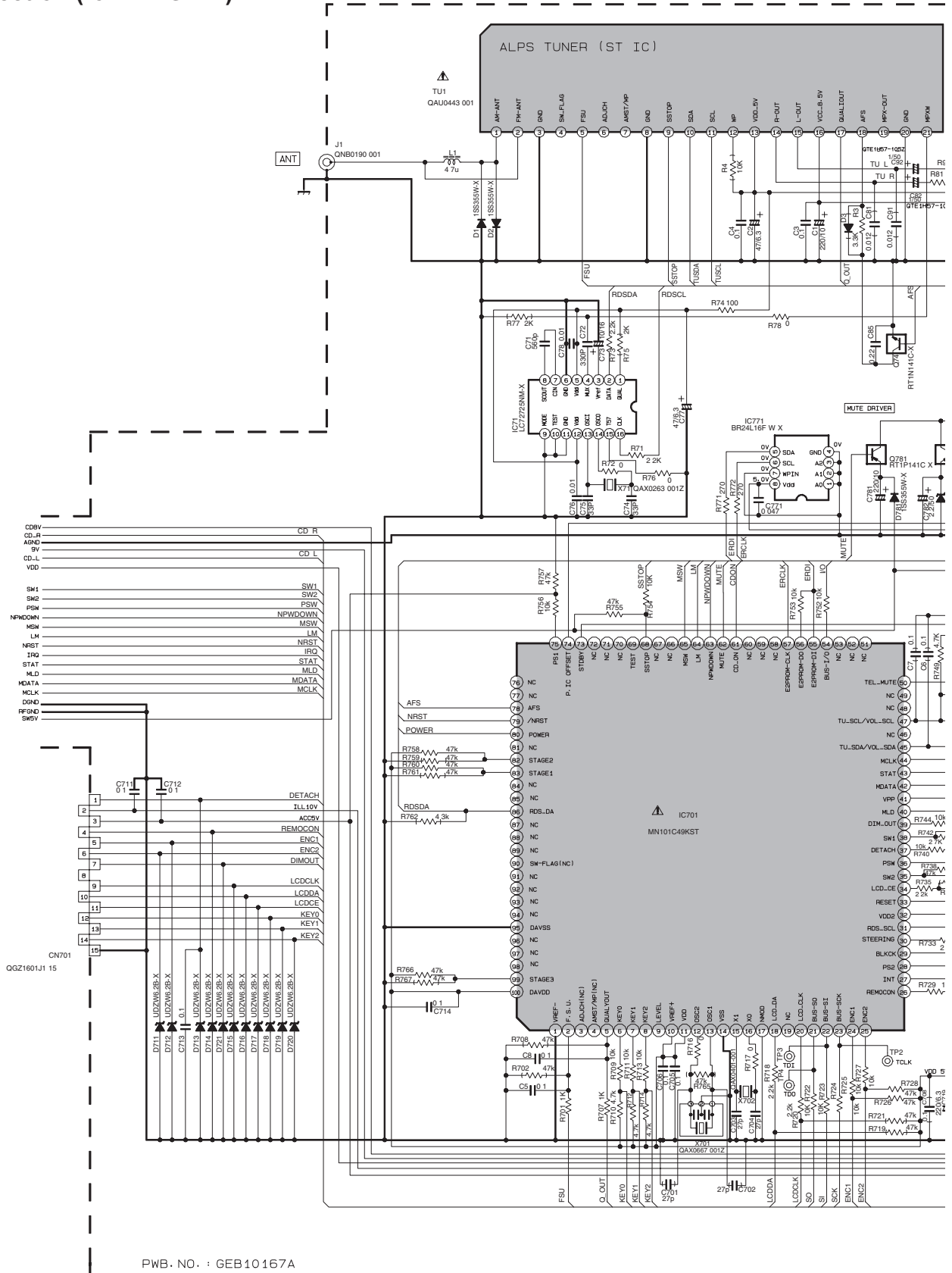


SW PWB : GEB10175A



- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
 - UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W 45% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF (P=pF)
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
T --- TANTALUM CAPACITOR.
 - COMPONENTS IN () INDICATE NOT USE.

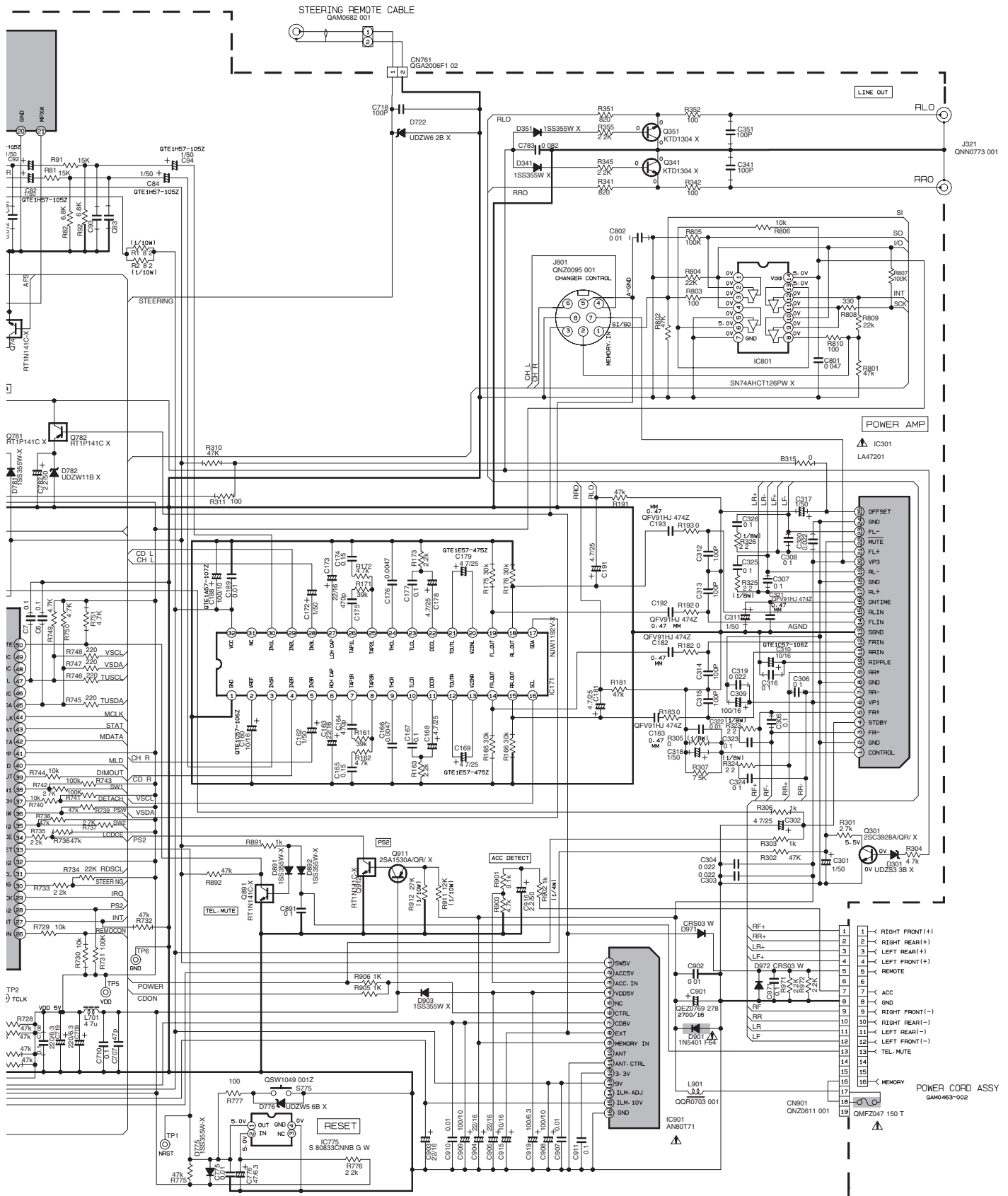
■ Main section (for KD-G421)



PWB. NO. : GEB10167A

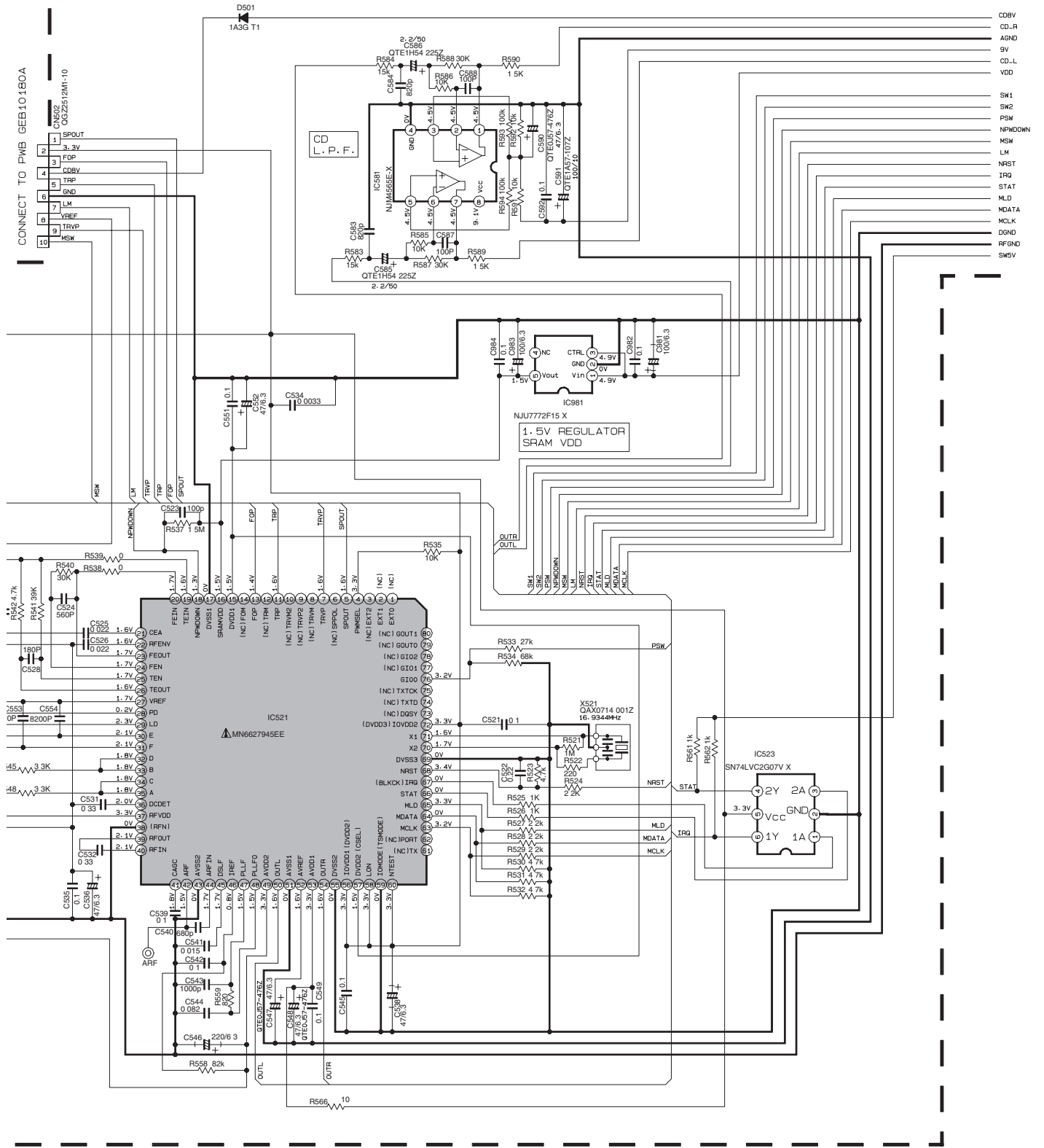
	10K	RT1N141C-X
	10K	RT1P141C-X

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION---FM MODE. () CD MODE.
 2. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 1/16W +/- 5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM.
 ALL CAPACITANCE VALUES ARE IN uF(P=PF)
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
 TF --- T. F. CAPACITOR
 3. COMPONENTS IN () INDICATE NOT USE.

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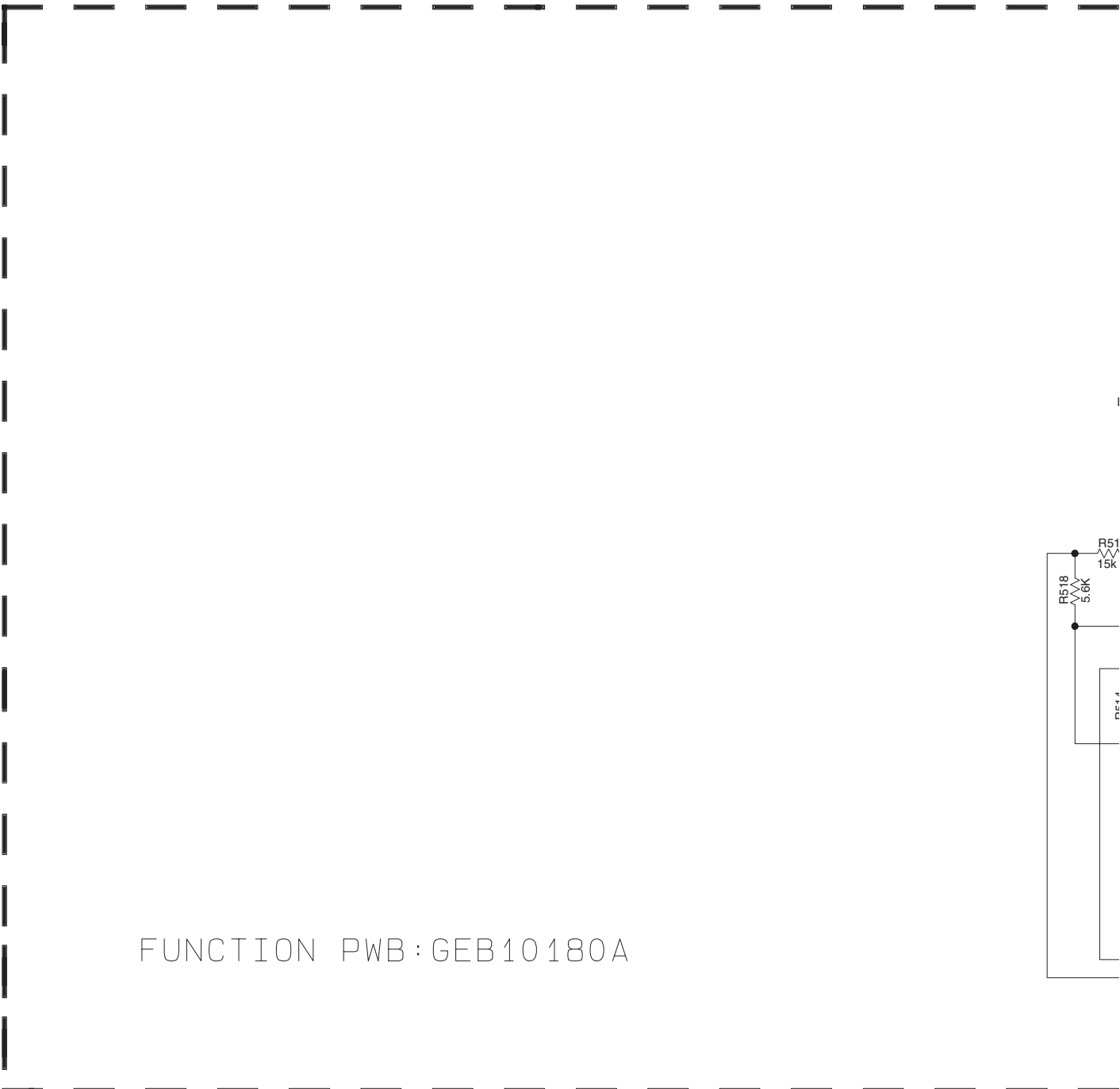
ON

⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

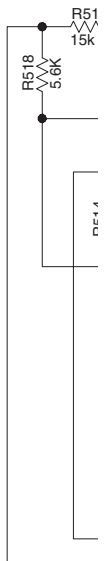
RESISTOR:
CAPACITOR:

μ OF CAPACITANCE (μF)/RATED VOLTAGE (V)

■ Function section (for KD-G421)



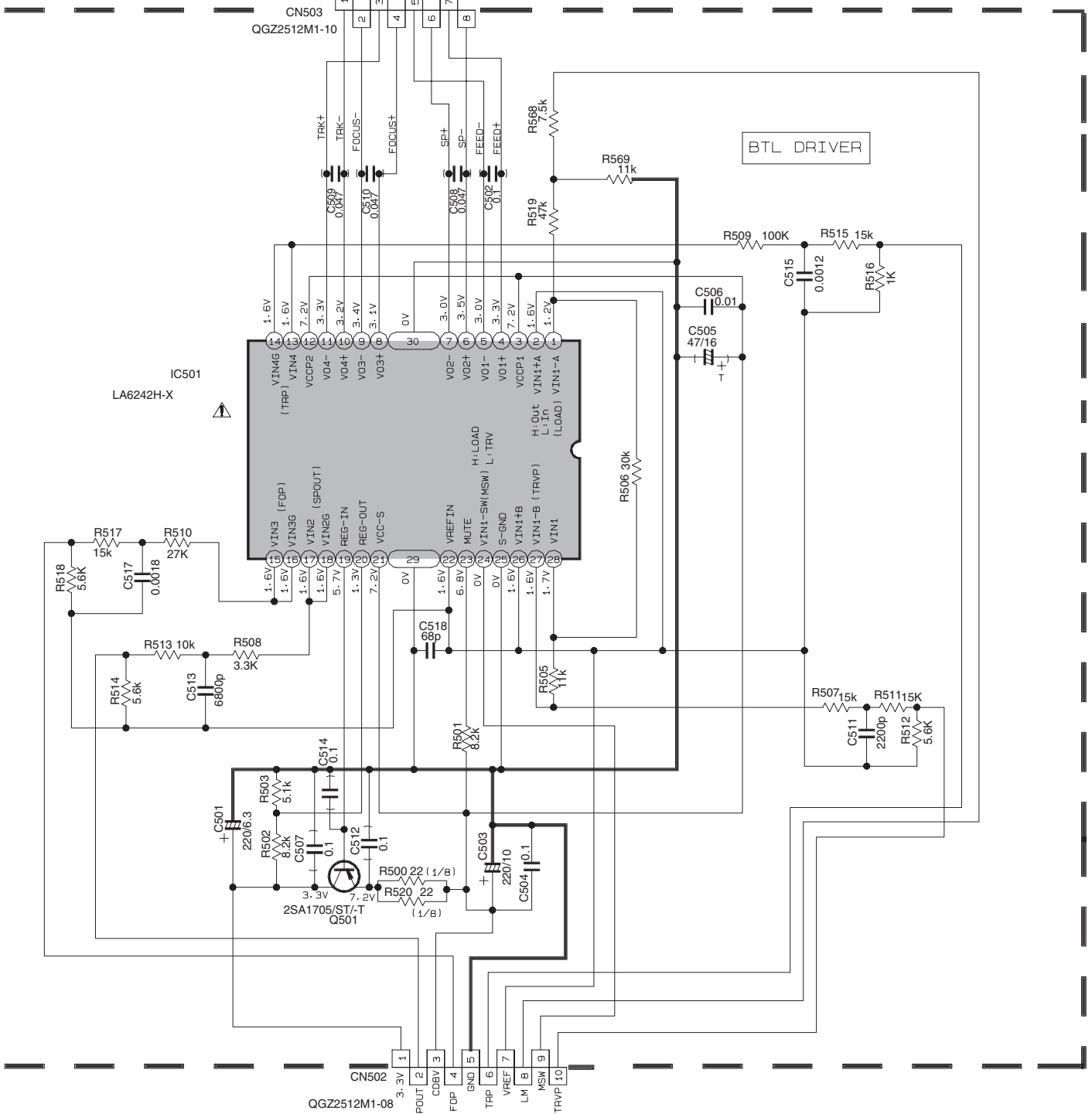
FUNCTION PWB:GEB10180A



NOTES:

1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ±5%METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM
ALL CAPACITANCE VALUES ARE IN uF(p=pF).
ALL INDUCTANCE VALUES ARE IN uH
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

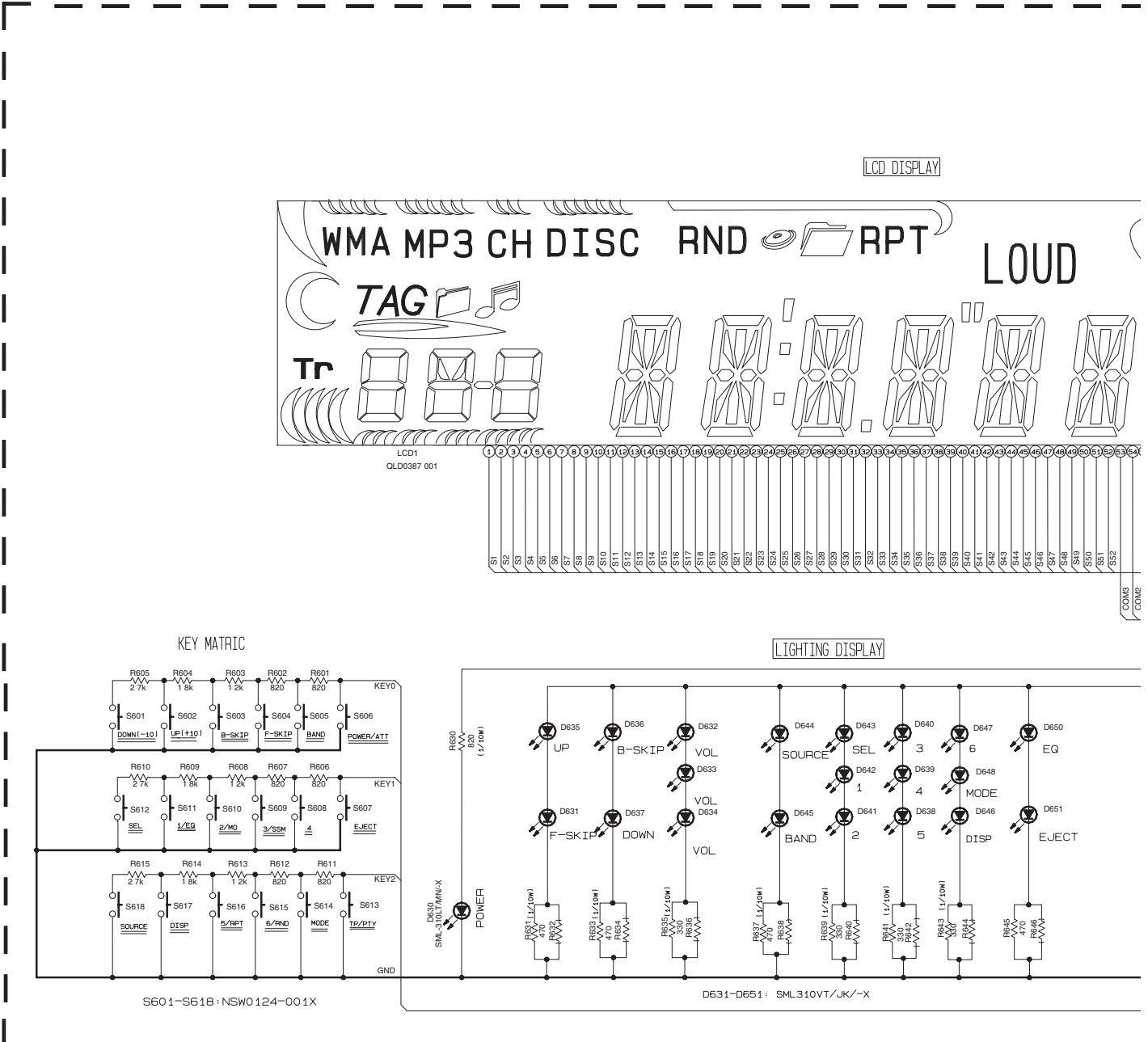
TO MAIN PCB: GEB10167A



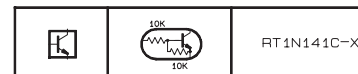
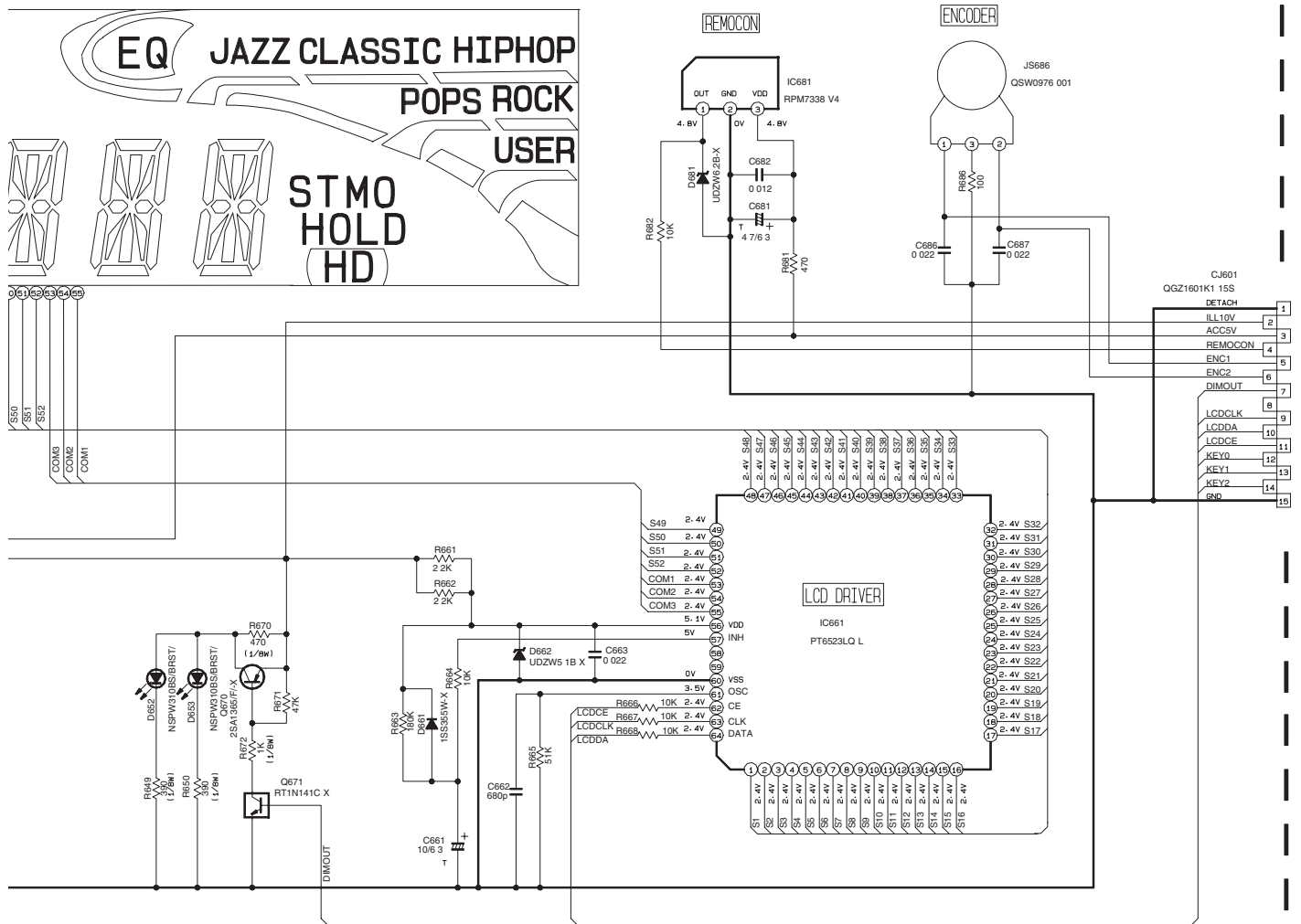
TO MAIN PCB: GEB10167A

▲ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

■ LCD & Key control section (for KD-G421)

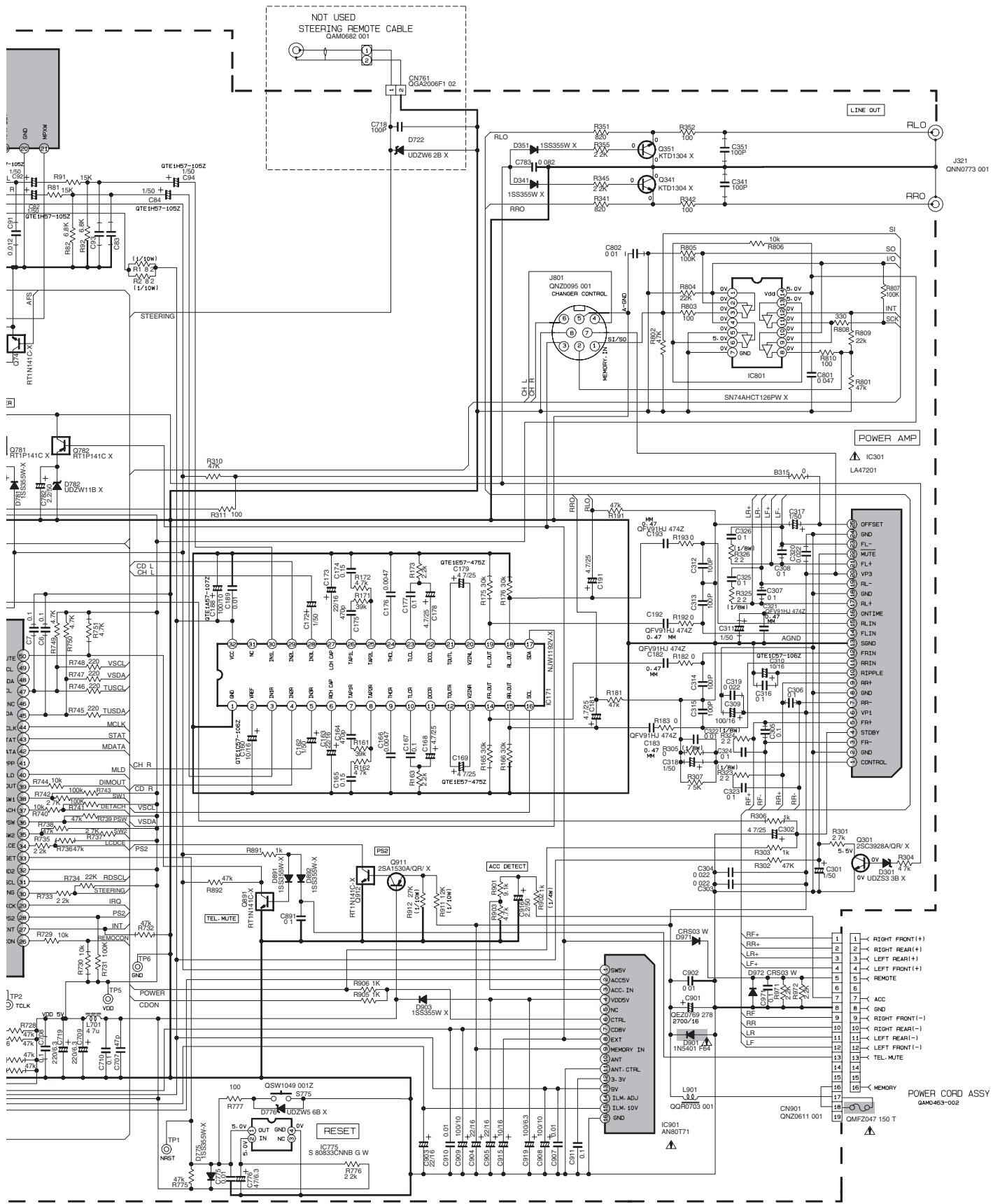


SW PWB : GEB10175A



NOTES

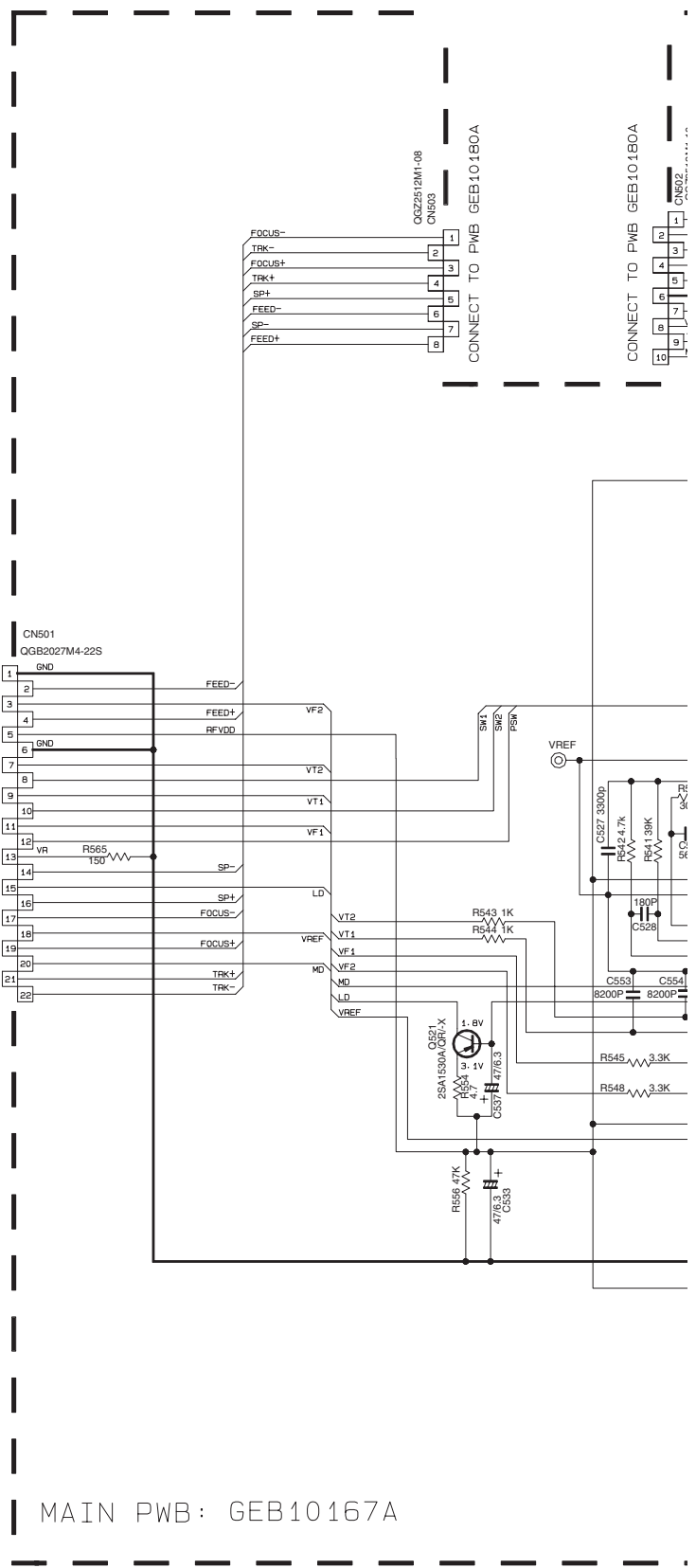
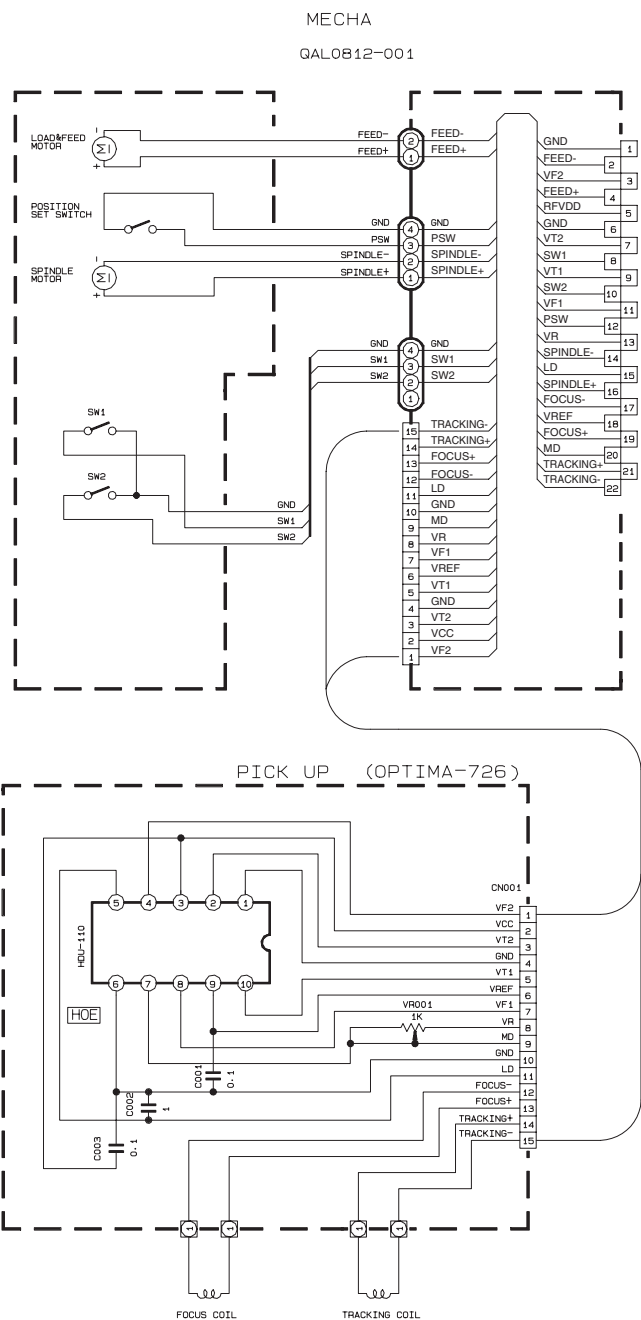
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF (P=pF)
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
T --- TANTAL CAPACITOR.
- COMPONENTS IN () INDICATE NOT USE.



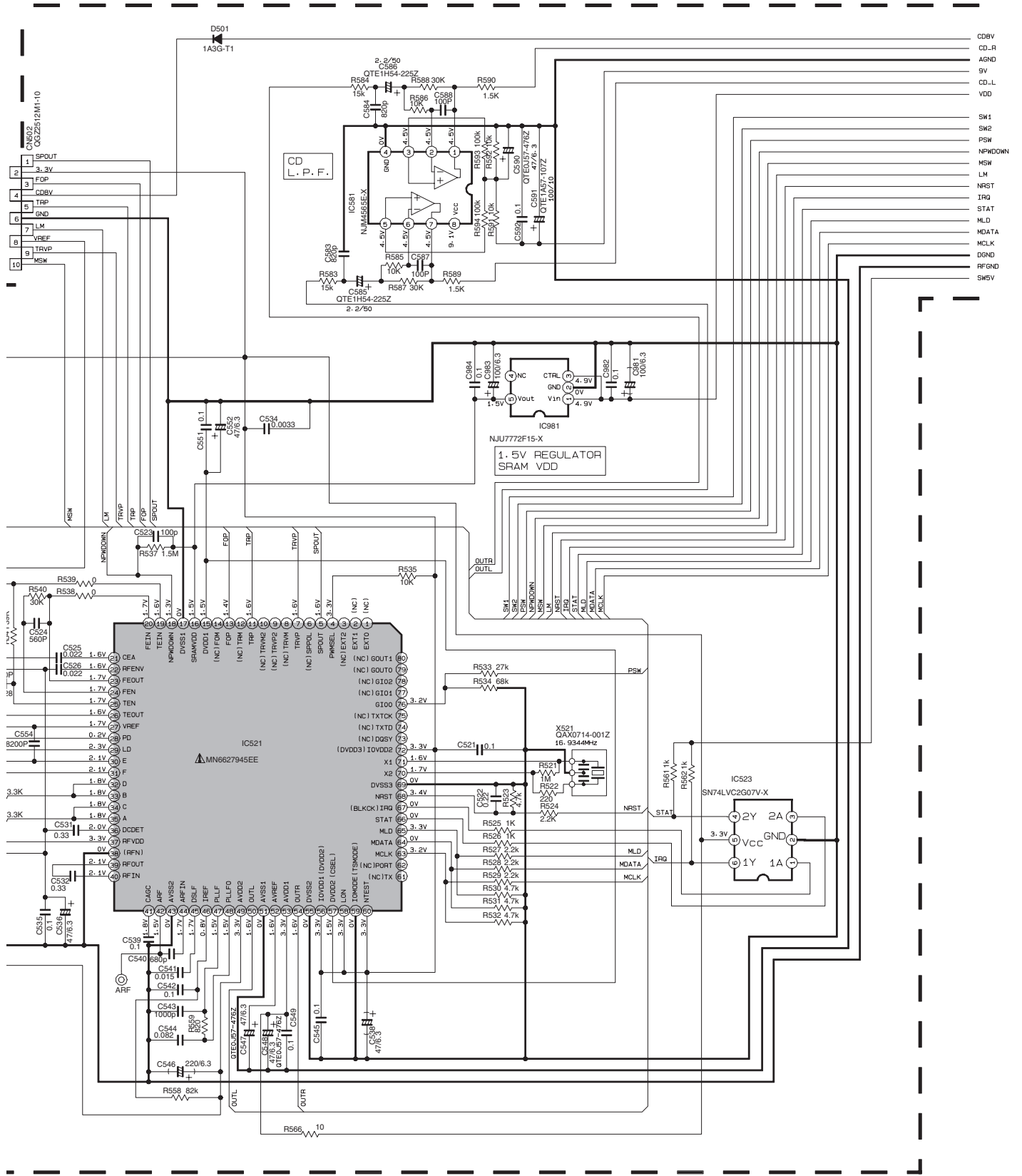
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION—FM MODE. () AM MODE. () CD MODE.
 2. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM.
 ALL CAPACITANCE VALUES ARE IN uF (P=PF)
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
 TF --- T. F. CAPACITOR
 3. COMPONENTS IN () INDICATE NOT USED.

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CD servo control section (for KD-G427)



- NOTES:
- VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE.
 - UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM
ALL CAPACITANCE VALUES ARE IN uF(D=PF).
ALL INDUCTANCE VALUES ARE IN uH
ALL E- CAPACITORS ARE SHOWN IN THE FORM OF CAPACIT



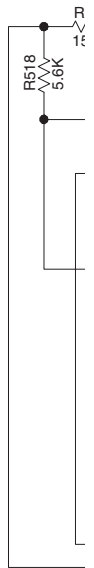
⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

OR.
OR.

APACITANCE (uF)/RATED VOLTAGE (V)

■ Function section (for KD-G427)

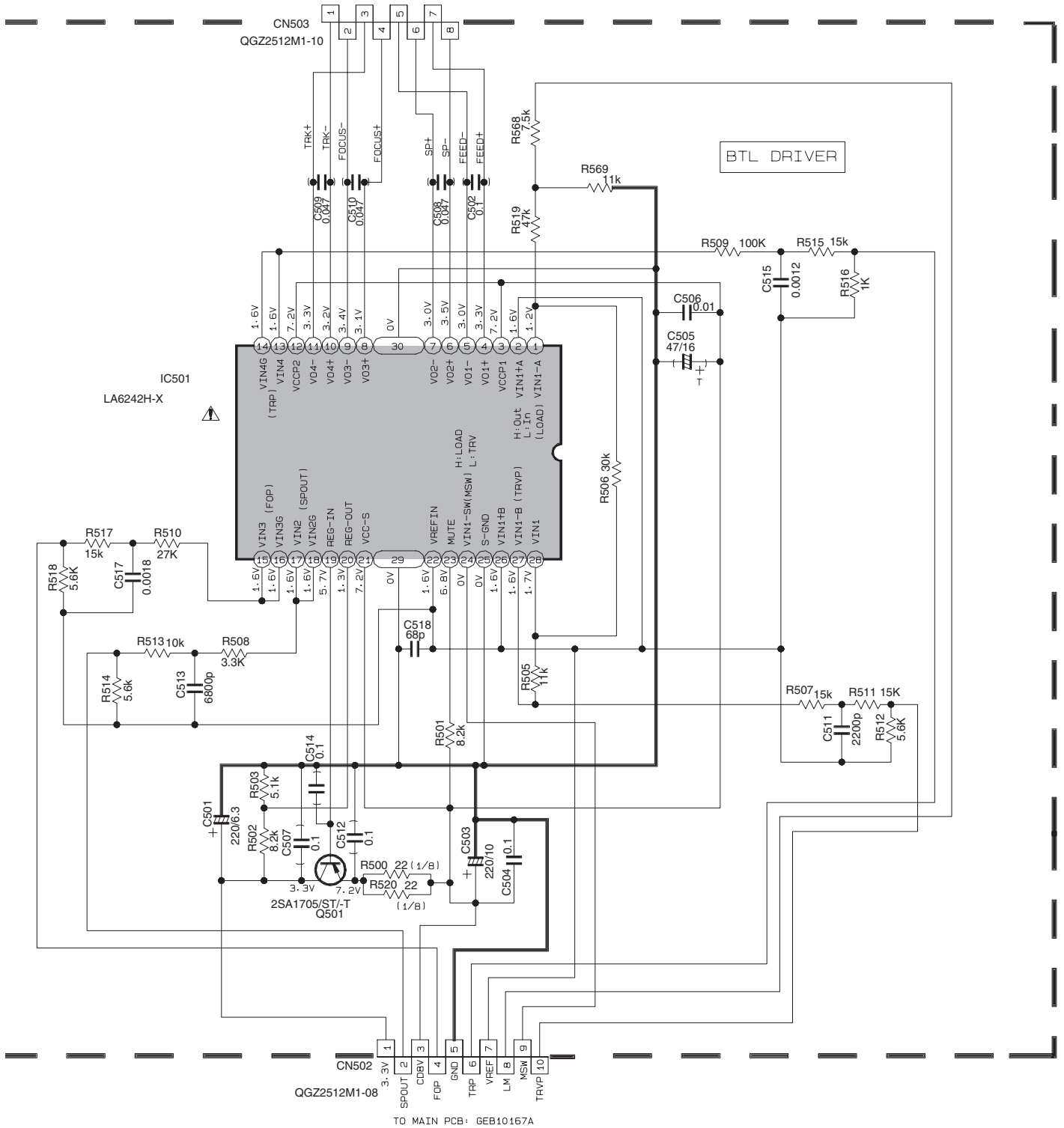
FUNCTION PWB: GEB10180A



NOTES:

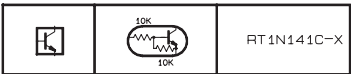
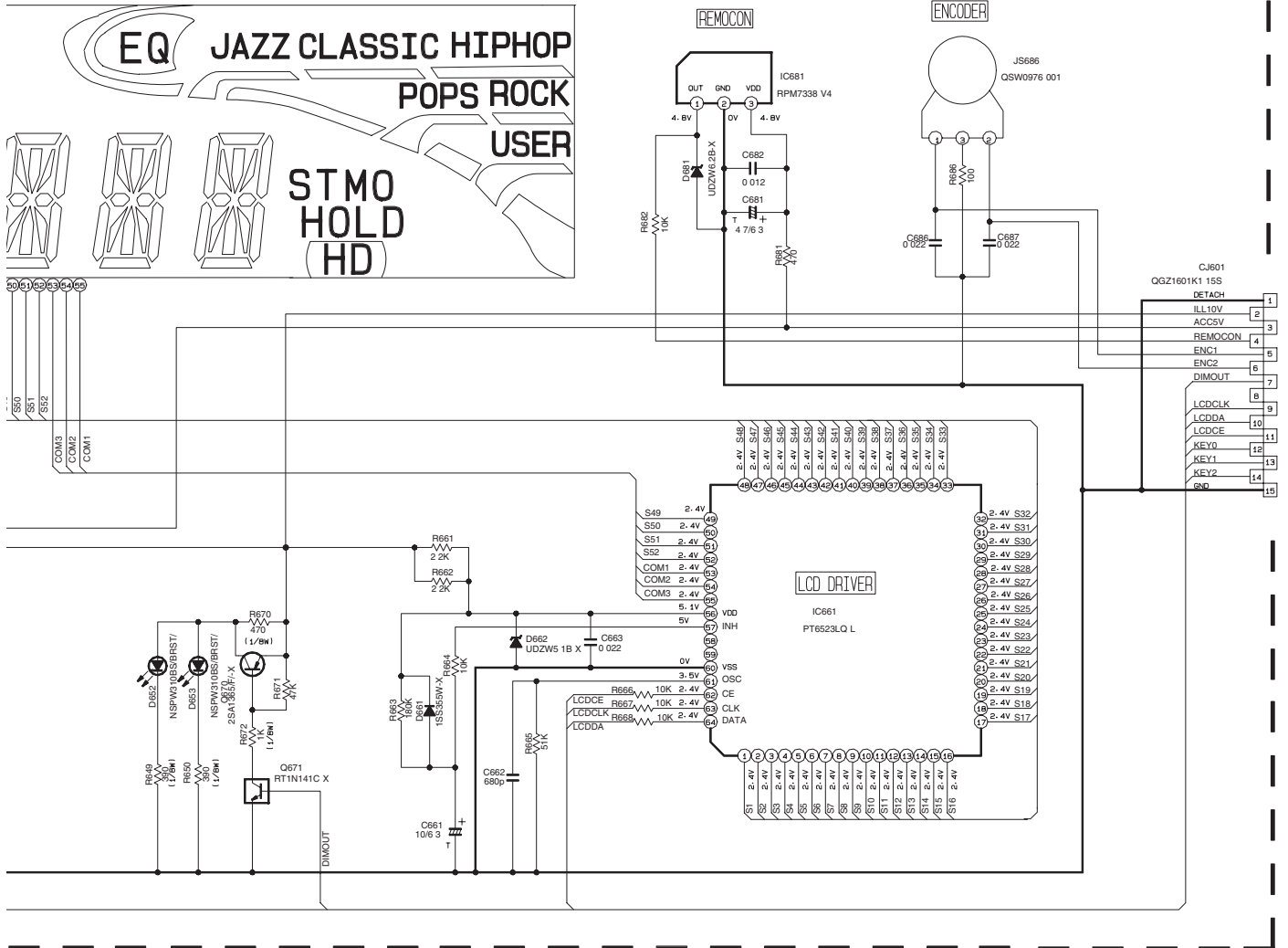
1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM
ALL CAPACITANCE VALUES ARE IN uF (p=pF).
ALL INDUCTANCE VALUES ARE IN uH
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

TO MAIN PCB: GEB10167A



⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

SW PWB : GEB10175A

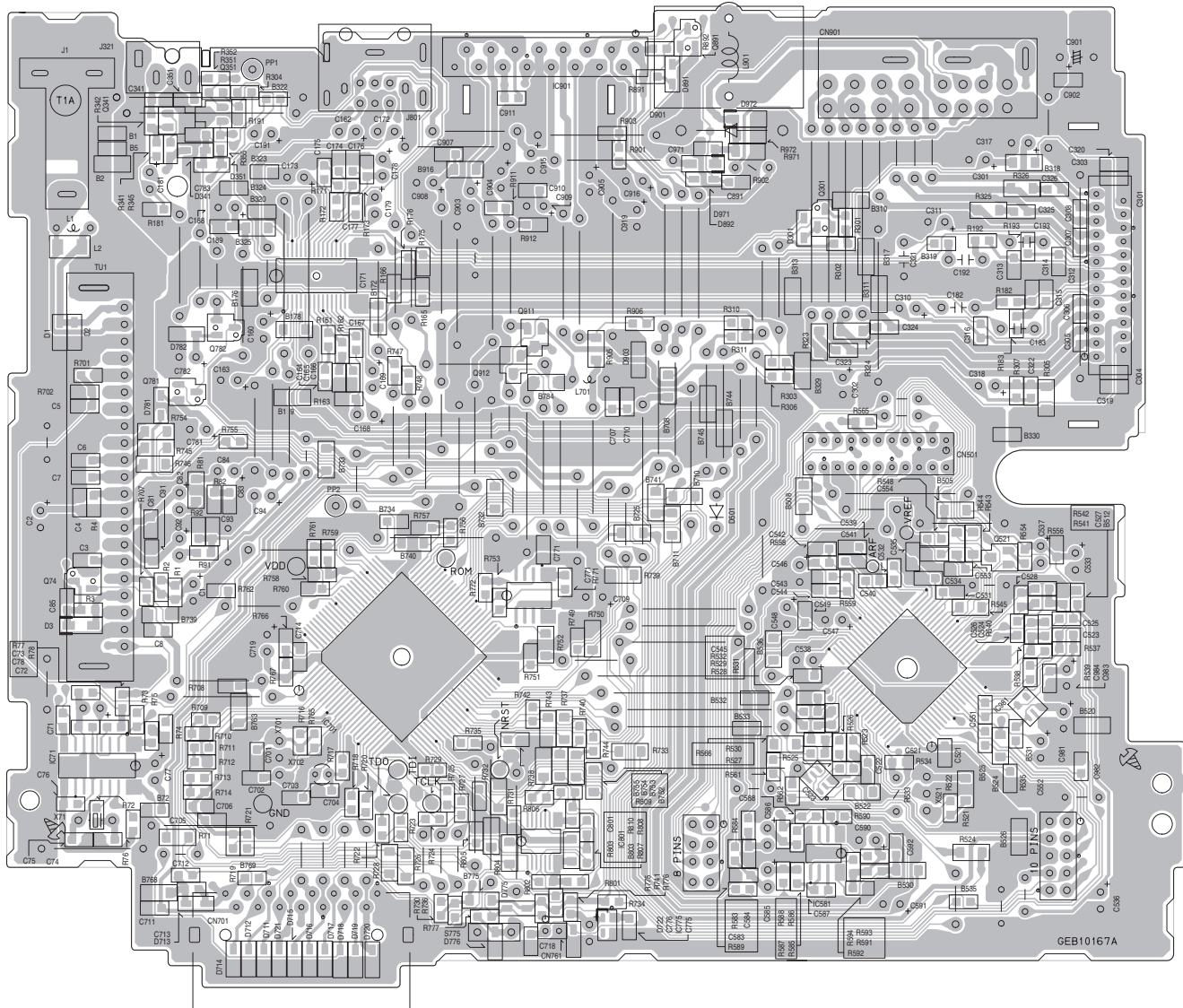


NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W 15% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
T --- TANTAL CAPACITOR.
- COMPONENTS IN () INDICATE NOT USE.

■ Main board (for KD-G421,KD-G427)

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



< MEMO >

JVC

Victor Company of Japan, Limited

Mobile Entertainment Business Group Mobile Entertainment Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MA245SCH)



Printed in Japan
VPT

PARTS LIST

KD-AR370J,KD-G320J,KD-G421E,KD-G421EX
KD-G421EY,KD-G421EU,KD-G424UI,KD-G425U
KD-G425UN,KD-G425UT,KD-G425UH,KD-G427EE

* All printed circuit boards and its assemblies are not available as service parts.

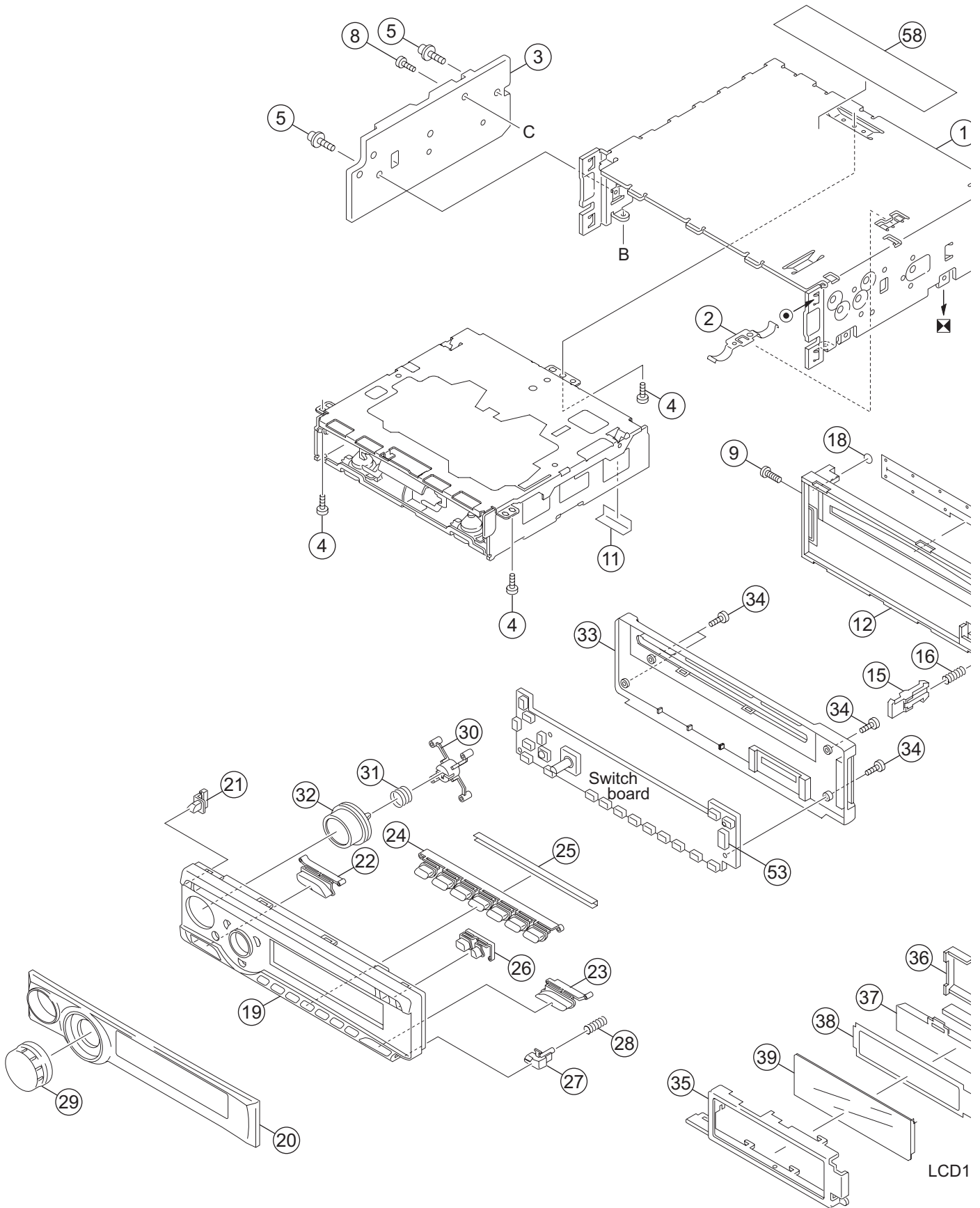
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3-2
Electrical parts list (Block No.01~09)	3-6
Packing materials and accessories parts list (Block No.M3)	3-18

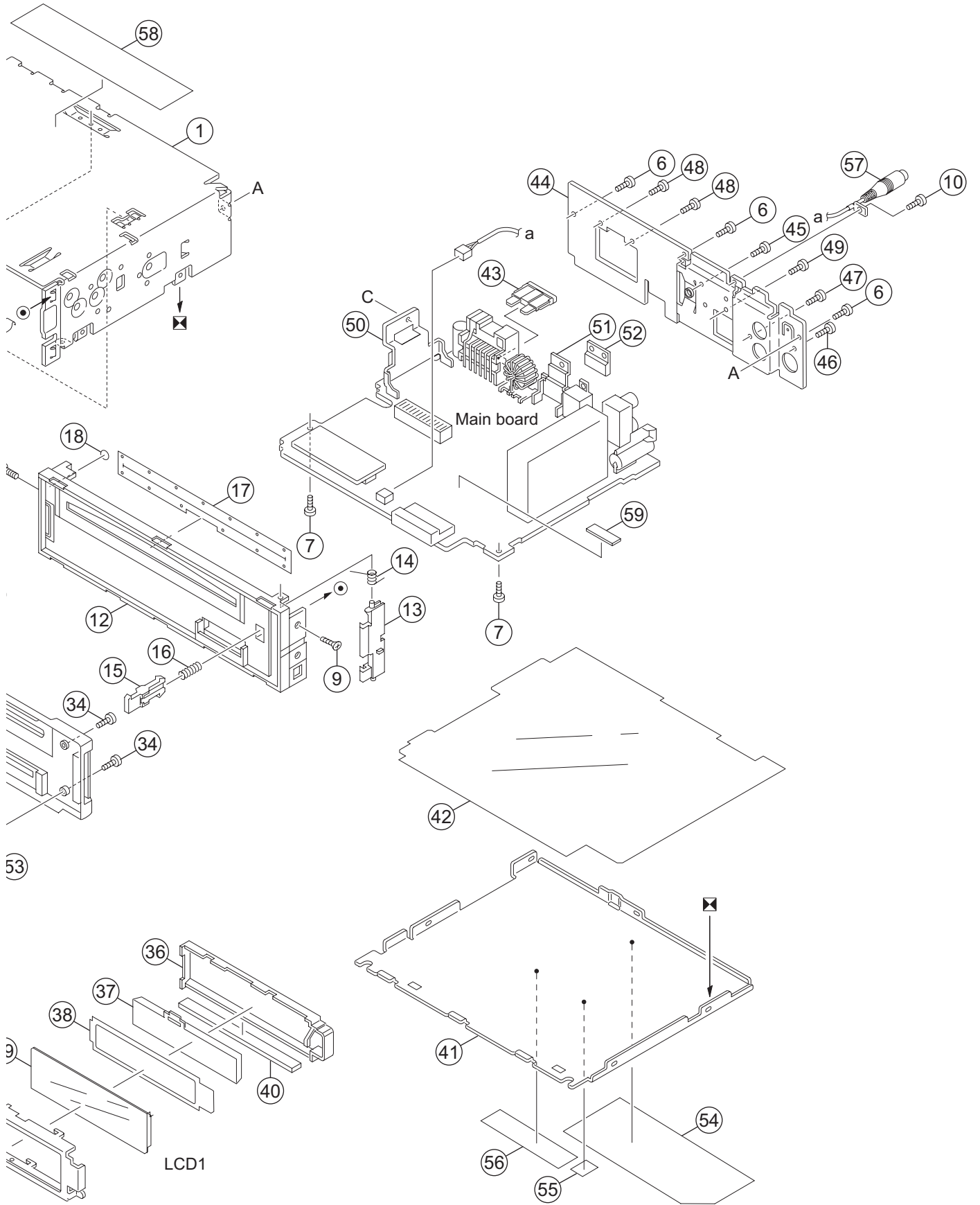
Exploded view of general assembly and parts list

Block No.

M	1	M	M
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M M



General Assembly

Block No. [M][1][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10136-001A	TOP CHASSIS		
	2	GE40135-001A	EARTH PLATE		
	3	GE31894-001A	HEAT SINK		
	4	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	5	GE40235-001A	SCREW	(x2)	
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40235-004A	SCREW	(x2)	
	8	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	9	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	10	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	G421E, G421EU, G421EX, G421EY
	11	FSYH4036-100	SHEET		G421E, G421EU, G421EX, G421EY
	12	GE10137-001A	FRONT CHASSIS		
	13	GE31569-002A	LOCK LEVER		
	14	GE40269-001A	TORSION SPRING		
	15	GE31978-001A	RLS KNOB		
	16	GE40202-011A	COMP.SPRING		
	17	GE40294-002A	BLIND		
	18	FSYH4036-098	SHEET		
	19	GE10143-001A	FRONT PANEL		AR370J
	19	GE10143-008A	FRONT PANEL		G421E, G421EU, G421EX, G421EY
	19	GE10143-003A	FRONT PANEL		G320J, G424UI, G425U, G425UH, G425UN, G425UT
	19	GE10143-007A	FRONT PANEL		G427EE
	20	GE31985-004A	FINDER ASSY		AR370J
	20	GE31985-003A	FINDER ASSY		G320J
	20	GE31985-005A	FINDER ASSY		G421E, G421EU, G421EX, G421EY
	20	GE31985-006A	FINDER ASSY		G424UI
	20	GE31985-007A	FINDER ASSY		G425U, G425UH, G425UN, G425UT
	20	GE31985-008A	FINDER ASSY		G427EE
	21	GE31968-002A	POWER BUTTON		
	22	GE31993-004A	SRC BUTTON		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	22	GE31993-001A	SRC BUTTON		AR370J, G427EE
	23	GE32000-004A	DISP BUTTON		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	23	GE32000-001A	DISP BUTTON		AR370J, G427EE
	24	GE20191-004A	PRESET BUTTON		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	24	GE20191-001A	PRESET BUTTON		AR370J, G427EE
	25	GE40218-046A	SHEET		
	26	GE31991-005A	EJECT BUTTON		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	26	GE31991-001A	EJECT BUTTON		AR370J, G427EE
	27	GE31990-002A	DETACH BUTTON		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	27	GE31990-001A	DETACH BUTTON		AR370J, G427EE
	28	GE40202-017A	COMP.SPRING		
	29	GE40315-002A	VOL KNOB ASSY		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	29	GE40315-001A	VOL KNOB ASSY		AR370J, G427EE
	30	GE31989-001A	NAVI BASE		
	31	GE40127-002A	COMP.SPRING		
	32	GE40316-004A	NAVI BTN ASSY		G320J, G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT
	32	GE40316-003A	NAVI BTN ASSY		AR370J, G427EE
	33	GE10145-001A	REAR COVER		
	34	VKZ4777-010	M NI SCREW	(x4)	
	35	GE31995-001A	LCD CASE		
	36	GE31997-001A	LENS CASE		
	37	GE31999-001A	LCD LENS		
	38	GE40299-001A	LIGHTING SHEET		
	39	QLD0387-001	LCD MODULE		
	40	QNZ0823-001	LCD CONNECTOR		
	41	GE31895-001A	BOTTOM COVER		
	42	GE31984-001A	INSULATOR		
△	43	QMFZ047-150-T	FUSE	15A	
	44	GE31571-001A	REAR BRACKET		AR370J, G320J
	44	GE31571-007A	REAR BRACKET		G421E, G421EU, G421EX, G421EY, G424UI, G425U, G425UH, G425UN, G425UT, G427EE
	45	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	46	GE40235-004A	SCREW		AR370J, G320J, G424UI, G425U, G425UH, G425UN, G425UT
	46	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	G421E, G421EU, G421EX, G421EY, G427EE
	47	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	48	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm(x2)	

△ Symbol No.	Part No.	Part Name	Description	Local
49	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
50	GE40172-004A	IC BRACKET		
51	GE40103-003A	REG BRACKET		
52	GE40107-002A	HEAT SINK		
53	GE30854-001A	LED HOLDER		
54	GE31873-001A	NAME PLATE		AR370J
54	GE32189-001A	NAME PLATE		G320J
54	GE31882-001A	NAME PLATE		G421E,G421EU,G421EX,G421EY
54	GE32035-001A	NAME PLATE		G424UI
54	GE31879-001A	NAME PLATE		G425U,G425UH,G425UN,G425UT
54	GE31885-001A	NAME PLATE		G427EE
55	LV44385-001A	RECYCLE LABEL		G421E,G421EU,G421EX,G421EY
56	LV41843-002A	LASER CAUTION		G421E,G421EU,G421EX,G421EY,G424UI, G425U,G425UH,G425UN,G425UT,G427EE
57	QAM0682-001	STEERING REMOTE		G421E,G421EU,G421EX,G421EY
58	GE31574-027A	UT LABEL		G425UT
59	FSYH4036-100	SHEET		AR370J,G320J,G424UI,G425U,G425UH, G425UN,G425UT

Electrical parts list

Main board

(KD-AR370J,KD-G320J,KD-G424UI,
KD-G425U,KD-G425UH,KD-G425UN,
KD-G425UT)

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
IC161	TDA7419-X	IC		
△ IC301	LA47201	POWER AMP IC		
△ IC521	MN6627945EE	IC		
IC523	SN74LVC2G07V-X	LOGIC IC		
IC581	NJM4565E-X	IC		
△ IC701	LC723784-9D19	IC		
IC801	SN74AHC126NS-X	IC		
△ IC901	AN80T71	REGULATOR IC		
IC981	NJU772F15-X	IC		
Q1	RT1N141C-X	DIGI TRANSISTOR		
Q2	RT1N141C-X	DIGI TRANSISTOR		
Q4	RT1N141C-X	DIGI TRANSISTOR		
Q5	2SA1365/F-X	TRANSISTOR		
Q6	2SA1530A/QR/-X	TRANSISTOR		
Q31	2SC3928A/QR/-X	TRANSISTOR		
Q32	2SC3928A/QR/-X	TRANSISTOR		
Q301	2SC3928A/QR/-X	TRANSISTOR		
Q321	KTD1304-X	TRANSISTOR		AR370J, G320J
Q331	KTD1304-X	TRANSISTOR		AR370J, G320J
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q521	2SA1530A/QR/-X	TRANSISTOR		
Q781	RT1P141C-X	DIGI TRANSISTOR		
Q782	RT1P141C-X	DIGI TRANSISTOR		
Q783	RT1P141C-X	DIGI TRANSISTOR		
Q891	RT1N141C-X	DIGI TRANSISTOR		AR370J
Q902	2SC3928A/QR/-X	TRANSISTOR		
Q903	2SA1530A/QR/-X	TRANSISTOR		
D1	1SS355W-X	DIODE C.M		
D2	1SS355W-X	DIODE C.M		
D3	1SS355W-X	DIODE C.M		
D4	1SS355W-X	DIODE C.M		
D6	1SS355W-X	DIODE C.M		G424UI, G425U, G425UH, G425UN, G425UT
D301	UDZW3.3B-X	Z DIODE		
D321	1SS355W-X	DIODE C.M		AR370J, G320J
D331	1SS355W-X	DIODE C.M		AR370J, G320J
D341	1SS355W-X	DIODE C.M		
D351	1SS355W-X	DIODE C.M		
D501	1A3G-T1	SI DIODE		
D702	1SS355W-X	DIODE C.M		AR370J, G424UI, G425U, G425UH, G425UN, G425UT
D703	1SS355W-X	DIODE C.M		G424UI, G425U, G425UH, G425UN, G425UT
D706	1SS355W-X	DIODE C.M		
D781	1SS355W-X	DIODE C.M		
D782	UDZW10B-X	Z DIODE		
D783	1SS355W-X	DIODE C.M		
D784	1SS355W-X	DIODE C.M		
D891	1SS355W-X	DIODE C.M		
D892	1SS355W-X	DIODE C.M		AR370J
△ D901	1N5401-F64	DIODE		AR370J
D903	1SS355W-X	DIODE C.M		
D904	CRS03-W	SB DIODE		
D905	CRS03-W	SB DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D906	CRS03-W	SB DIODE		G424UI, G425U, G425UH, G425UN, G425UT
D907	CRS03-W	SB DIODE		G424UI, G425U, G425UH, G425UN, G425UT
C1	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C2	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C4	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C6	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C8	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C9	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C11	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C11	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C31	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C32	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C33	QTE1H57-225Z	E CAPACITOR	2.2uF 50V	
C81	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	AR370J, G320J, G424UI, G425U, G425UH, G425UN, G425UT
C81	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C82	NCB31HK-682X	C CAPACITOR	6800pF 50V K	AR370J, G320J, G424UI, G425U, G425UH, G425UN, G425UT
C82	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C83	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C91	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	AR370J, G320J, G424UI, G425U, G425UH, G425UN, G425UT
C91	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C92	NCB31HK-682X	C CAPACITOR	6800pF 50V K	AR370J, G320J, G424UI, G425U, G425UH, G425UN, G425UT
C92	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C93	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C97	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C98	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C99	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C163	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C164	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C165	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C166	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C168	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C169	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C175	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C176	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C178	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C179	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C181	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C182	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C183	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C184	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C191	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C192	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C194	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C301	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C302	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C303	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C304	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C310	QTE1C57-106Z	E CAPACITOR	10uF 16V		C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C311	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C312	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C911	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J						
C315	NDC31HJ-101X	C CAPACITOR	100pF 50V J						
C316	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C913	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	G424UI, G425UJ, G425UH, G425UN, G425UT
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	AR370J, G320J					
C323	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C914	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C331	NDC31HJ-101X	C CAPACITOR	100pF 50V J	AR370J, G320J	C915	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J						
C361	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C919	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	G424UI, G425UJ, G425UH, G425UN, G425UT
C362	NCB31EK-104X	C CAPACITOR	0.1uF 25V K						
C363	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C982	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C364	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C983	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C520	NCB31HK-332X	C CAPACITOR	3300pF 50V K		C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C522	NCB31CK-224X	C CAPACITOR	0.22uF 16V K						
C523	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R1	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C524	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R2	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C525	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		R3	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J	
C526	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		R4	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C527	NCB31EK-332X	C CAPACITOR	3300pF 25V K		R5	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C528	NDC31HJ-181X	C CAPACITOR	180pF 50V J		R6	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C529	NCB31HK-822X	C CAPACITOR	8200pF 50V K		R10	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
C530	NCB31HK-822X	C CAPACITOR	8200pF 50V K		R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C531	NCB31AK-334X	C CAPACITOR	0.33uF 10V K		R12	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C532	NCB31AK-334X	C CAPACITOR	0.33uF 10V K		R13	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C533	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R14	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C534	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	AR370J, G320J, G424UI, G425UJ, G425UH, G425UN, G425UT
C535	NCB31EK-104X	C CAPACITOR	0.1uF 25V K						
C536	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R16	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C537	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M						
C538	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M						
C539	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R31	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
C540	NCS31HJ-681X	C CAPACITOR	680pF 50V J		R32	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
C541	NCB31EK-153X	C CAPACITOR	0.015uF 25V K		R33	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	
C542	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R34	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C543	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R35	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C544	NCB31EK-823X	C CAPACITOR	0.082uF 25V K		R36	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
C545	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R37	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
C546	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R81	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C547	QTE0J57-476Z	E CAPACITOR	47uF 6.3V		R82	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	AR370J, G320J, G424UI, G425UJ, G425UH, G425UN, G425UT
C548	QTE0J57-476Z	E CAPACITOR	47uF 6.3V						
C549	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R82	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C551	NCB31EK-104X	C CAPACITOR	0.1uF 25V K						
C552	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M						
C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J		R91	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J		R92	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	AR370J, G320J, G424UI, G425UJ, G425UH, G425UN, G425UT
C585	QTE1E57-475Z	E CAPACITOR	4.7uF 25V						
C586	QTE1E57-475Z	E CAPACITOR	4.7uF 25V						
C587	NDC31HJ-151X	C CAPACITOR	150pF 50V J		R92	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C588	NDC31HJ-151X	C CAPACITOR	150pF 50V J						
C590	QTE0J57-476Z	E CAPACITOR	47uF 6.3V						
C591	QTE1C57-107Z	E CAPACITOR	100uF 16V						
C592	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R162	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C701	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R164	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C702	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R166	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C703	NDC31HJ-220X	C CAPACITOR	22pF 50V J		R167	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C704	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R172	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C705	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		R174	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R176	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C713	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R177	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C715	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R191	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
C716	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C781	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R303	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C782	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C783	NCB31EK-823X	C CAPACITOR	0.082uF 25V K		R315	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
C801	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R321	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	AR370J, G320J, AR370J, G320J
C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	AR370J	R322	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	AR370J, G320J
C901	QEZ0769-278	E CAPACITOR	2700uF		R325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	AR370J, G320J
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R331	NRS181J-821X	MG RESISTOR	820Ω 1/8W J	AR370J, G320J
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R332	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	AR370J, G320J
C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R335	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	AR370J, G320J
C905	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M						
C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K						
C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R735	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R342	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R736	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R345	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R737	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R351	NRS181J-821X	MG RESISTOR	820Ω 1/8W J		R738	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R739	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R355	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R740	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R361	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R741	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R362	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R742	NRS181J-512X	MG RESISTOR	5.1kΩ 1/8W J	
R363	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R743	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R364	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J						G320J, G424UI, G425U, G425U H,G425 UN, G425UT
R521	NRS181J-105X	MG RESISTOR	1MΩ 1/8W J		R745	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J						
R523	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R748	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R524	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J		R749	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R752	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R527	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R528	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R754	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R529	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R755	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R530	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R756	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R762	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R532	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R801	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R533	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J		R802	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R534	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J		R803	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R804	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R537	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J		R805	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R540	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R807	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R541	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R808	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R543	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R810	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R544	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R811	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R545	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J		R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	AR370J
R548	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	AR370J
R554	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J		R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R556	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R902	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R558	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R559	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R905	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R906	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R907	NRS181J-123X	MG RESISTOR	12kΩ 1/8W J	
R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R908	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R909	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R910	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R585	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R911	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R586	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R912	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R587	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						G424UI, G425U, G425U H,G425 UN, G425UT
R588	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R918	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R589	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J						
R590	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L1	QQL244J-4R7Z	COIL	4.7uH J	
R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L701	QQL244K-4R7Z	COIL	4.7uH K	
R592	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		L901	QQR0703-001	CHOKE COIL		
R593	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
R594	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
R701	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		CN901	QNZ0611-001	16P CONNECTOR		
R705	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J		J1	QNB0190-001	ANTENNA JACK		
R706	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J321	QNN0490-001	PIN JACK		AR370J
R707	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		J321	QNN0777-001	PIN JACK		G320J G424UI, G425U, G425U H,G425 UN, G425UT
R708	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		J321	QNN0773-001	PIN JACK		
R709	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		J801	QNZ0095-001	CONNECTOR		
R710	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J		△ TU1	QAU00312-002	TUNER PACK		
R711	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		X521	QAX0714-001Z	C RESONATOR	16.000MHz	
R712	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J		X701	QAX0406-001Z	CRYSTAL	4.500MHz	
R713	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J						
R715	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R716	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R717	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R723	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R724	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J						
R725	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R726	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J						
R727	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R728	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J						
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R731	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						

Switch board

(KD-AR370J,KD-G320J,KD-G424UI,
KD-G425U,KD-G425UH,KD-G425UN,
KD-G425UT)

Block No. [0][2]

Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	IC		
IC681	RPM7338-V4	RM RECEIVER		
Q670	2SA1365/F/-X	TRANSISTOR		
Q671	RT1N141C-X	DIGI TRANSISTOR		
D630	SML-310LT/MN/-X	LED		
D631	SML-310VT/JK/-X	LED		
D632	SML-310VT/JK/-X	LED		
D633	SML-310VT/JK/-X	LED		
D634	SML-310VT/JK/-X	LED		
D635	SML-310VT/JK/-X	LED		
D636	SML-310VT/JK/-X	LED		
D637	SML-310VT/JK/-X	LED		
D638	SML-310VT/JK/-X	LED		
D639	SML-310VT/JK/-X	LED		
D640	SML-310VT/JK/-X	LED		
D641	SML-310VT/JK/-X	LED		
D642	SML-310VT/JK/-X	LED		
D643	SML-310VT/JK/-X	LED		
D644	SML-310VT/JK/-X	LED		
D645	SML-310VT/JK/-X	LED		
D646	SML-310VT/JK/-X	LED		
D647	SML-310VT/JK/-X	LED		
D648	SML-310VT/JK/-X	LED		
D650	SML-310VT/JK/-X	LED		
D651	SML-310VT/JK/-X	LED		
D652	NSPW310BS/BRST/	LED		
D653	NSPW310BS/BRST/	LED		
D661	1SS355W-X	DIODE C.M		
D662	UDZW5.1B-X	SI DIODE		
D681	UDZW6.2B-X	DIODE		
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
C682	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R611	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R612	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R613	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R614	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R615	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R630	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R631	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R635	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R637	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R639	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R641	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R643	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R645	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R672	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R689	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R690	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
JS686	QSW0976-001	ROTARY ENCODER		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S607	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		
S617	NSW0124-001X	TACT SW		
S618	NSW0124-001X	TACT SW		

Func board

(KD-AR370J,KD-G320J,KD-G424UI,
KD-G425U,KD-G425UH,KD-G425UN,
KD-G425UT)

Block No. [0][3]

Symbol No.	Part No.	Part Name	Description	Local
△ IC501	LA6242H-X	IC		
Q501	2SA1705/ST/-T	TRANSISTOR		
C501	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C503	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C504	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C513	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C515	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C517	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C518	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
R500	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R505	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R506	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R507	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R510	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R511	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R512	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R514	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R515	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R518	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R519	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R520	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R568	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R569	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
CN502	QGZ2512M1-10	CONNECTOR	(1-10)	
CN503	QGZ2512M1-08	CONNECTOR	(1-8)	

△ Symbol No.	Part No.	Part Name	Description	Local
D972	CRS03-W	SB DIODE		
C1	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C2	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C5	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C8	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C71	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C72	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C73	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C74	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C75	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C77	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C82	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C84	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C85	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C92	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C94	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C160	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C162	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C163	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C164	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C165	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C166	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C167	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C168	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C169	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C172	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C173	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C174	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C175	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C176	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C177	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C178	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C179	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C181	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C182	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C183	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C188	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C189	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C191	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C192	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C193	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C301	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C302	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C303	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C304	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C310	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C312	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C315	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C321	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C323	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C324	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C325	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C326	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C521	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C522	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C523	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C524	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C525	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C526	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C527	NCB31EK-332X	C CAPACITOR	3300pF 25V K	
C528	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C529	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C530	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C531	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C532	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C533	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C534	NCB31EK-332X	C CAPACITOR	3300pF 25V K	

Main board (KD-G421E,KD-G421EX,KD-G421EY, KD-G421EU)

Block No. [0][4]

△ Symbol No.	Part No.	Part Name	Description	Local
IC71	LC72725NM-X	IC		
IC171	NJW1192V-X	IC		
△ IC301	LA47201	POWER AMP IC		
△ IC521	MN6627945EE	IC		
IC523	SN74LVC2G07V-X	LOGIC IC		
IC581	NJM4565E-X	IC		
△ IC701	MN101C49KST	IC		
IC771	BR24L16F-W-X	IC		
IC775	S-80833CNNB-G-W	IC		
IC801	SN74AHCT126PW-X	IC(DIGITAL)		
△ IC901	AN80T71	REGULATOR IC		
IC981	NJU772F15-X	IC		
Q74	RT1N141C-X	DIGI TRANSISTOR		
Q301	2SC3928A/QR/-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q521	2SA1530A/QR/-X	TRANSISTOR		
Q781	RT1P141C-X	DIGI TRANSISTOR		
Q782	RT1P141C-X	DIGI TRANSISTOR		
Q891	RT1N141C-X	DIGI TRANSISTOR		
Q911	2SA1530A/QR/-X	TRANSISTOR		
Q912	RT1N141C-X	DIGI TRANSISTOR		
D1	1SS355W-X	DIODE C.M		
D2	1SS355W-X	DIODE C.M		
D301	UDZS3.3B-X	Z DIODE		
D341	1SS355W-X	DIODE C.M		
D351	1SS355W-X	DIODE C.M		
D501	1A3G-T1	SI DIODE		
D711	UDZW6.2B-X	DIODE		
D712	UDZW6.2B-X	DIODE		
D713	UDZW6.2B-X	DIODE		
D714	UDZW6.2B-X	DIODE		
D715	UDZW6.2B-X	DIODE		
D716	UDZW6.2B-X	DIODE		
D717	UDZW6.2B-X	DIODE		
D718	UDZW6.2B-X	DIODE		
D719	UDZW6.2B-X	DIODE		
D720	UDZW6.2B-X	DIODE		
D721	UDZW6.2B-X	DIODE		
D722	UDZW6.2B-X	DIODE		
D775	1SS355W-X	DIODE C.M		
D776	UDZW5.6B-X	Z DIODE		
D781	1SS355W-X	DIODE C.M		
D782	UDZW11B-X	Z DIODE		
D891	1SS355W-X	DIODE C.M		
D892	1SS355W-X	DIODE C.M		
△ D901	1N5401-F64	DIODE		
D903	1SS355W-X	DIODE C.M		
D971	CRS03-W	SB DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C535	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R163	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C536	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R171	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C537	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R172	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C539	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R173	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C540	NCS31HJ-681X	C CAPACITOR	680pF 50V J		R181	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C541	NCB31EK-153X	C CAPACITOR	0.015uF 25V K		R182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C542	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R183	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C543	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R191	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C544	NCB31EK-823X	C CAPACITOR	0.082uF 25V K		R192	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C545	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R193	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C547	QTE0J57-476Z	E CAPACITOR	47uF 6.3V		R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C548	QTE0J57-476Z	E CAPACITOR	47uF 6.3V		R303	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C549	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C551	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R307	NRSA63J-752X	MG RESISTOR	7 5kΩ 1/16W J	
C552	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R323	NRS181J-2R2X	MG RESISTOR	2 2Ω 1/8W J	
C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J		R324	NRS181J-2R2X	MG RESISTOR	2 2Ω 1/8W J	
C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J		R325	NRS181J-2R2X	MG RESISTOR	2 2Ω 1/8W J	
C585	QTE1H54-225Z	E CAPACITOR	2.2uF 50V		R326	NRS181J-2R2X	MG RESISTOR	2 2Ω 1/8W J	
C586	QTE1H54-225Z	E CAPACITOR	2.2uF 50V		R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C587	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R342	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C588	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R345	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C590	QTE0J57-476Z	E CAPACITOR	47uF 6.3V		R351	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C591	QTE1A57-107Z	E CAPACITOR	100uF 10V		R352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C592	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R355	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C703	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R521	NRS181J-105X	MG RESISTOR	1MΩ 1/8W J	
C704	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C705	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R523	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C706	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R524	NRS181J-222X	MG RESISTOR	2 2kΩ 1/8W J	
C707	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C709	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C710	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R527	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R528	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R529	NRSA63J-222X	MG RESISTOR	2 2kΩ 1/16W J	
C713	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R530	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C714	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C718	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R532	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C719	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R533	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
C771	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R534	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
C775	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C776	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R537	NRSA63J-155X	MG RESISTOR	1 5MΩ 1/16W J	
C781	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M		R538	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C782	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M		R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C783	NCB31EK-823X	C CAPACITOR	0.082uF 25V K		R540	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C801	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R541	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C901	QEZ0769-278	E CAPACITOR	2700uF		R543	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R544	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R545	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R548	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C905	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R554	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R556	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M		R558	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M		R559	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C911	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C915	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M		R566	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
C919	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C982	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C983	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R587	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
					R588	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R1	NRSA02J-8R2X	MG RESISTOR	8.2Ω 1/10W J		R589	NRSA63J-152X	MG RESISTOR	1 5kΩ 1/16W J	
R2	NRSA02J-8R2X	MG RESISTOR	8.2Ω 1/10W J		R590	NRSA63J-152X	MG RESISTOR	1 5kΩ 1/16W J	
R3	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R71	NRS181J-222X	MG RESISTOR	2.2kΩ 1/16W J		R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R72	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R593	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R594	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J		R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R76	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R707	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R78	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R81	NRS181J-153X	MG RESISTOR	15kΩ 1/8W J		R710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R82	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R91	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R712	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R92	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R161	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R162	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R716	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
R717	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R720	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R726	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R729	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R731	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R733	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R734	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R735	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R737	NRS181J-272X	MG RESISTOR	2.7kΩ 1/8W J	
R738	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R739	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R740	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R741	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R742	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R743	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R745	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R746	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R747	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R748	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R749	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R750	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R752	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R754	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R755	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R757	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R767	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R775	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R776	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R801	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R802	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R803	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R804	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R805	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R806	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R807	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R808	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R809	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R810	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R902	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R905	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R906	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R911	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
R912	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL801K-4R7Y	COIL	4.7uH K	
L701	QQL801K-4R7Y	COIL	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
CN761	QGA2006F1-02	CONNECTOR	W-B (1-2)	
CN901	QNZ0611-001	16P CONNECTOR		
J1	QNB0190-001	ANTENNA JACK		
J321	QNN0773-001	P N JACK		
J801	QNZ0095-001	CONNECTOR		
PP1	QZW0010-001	STYLE P N		
PP2	QZW0010-001	STYLE P N		

Symbol No.	Part No.	Part Name	Description	Local
S775	QSW1049-001Z	TACT SW		
TU1	QAU0443-001	TUNER		
X71	QAX0263-001Z	CRYSTAL	4.332MHz	
X521	QAX0714-001Z	C RESONATOR	16.000MHz	
X701	QAX0667-001Z	C RESONATOR	8.000MHz	
X702	QAX0401-001	CRYSTAL	32.768KHz	

Switch board (KD-G421E,KD-G421EX,KD-G421EY, KD-G421EU)

Block No. [0][5]

Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	IC		
IC681	RPM7338-V4	RM.RECEIVER		
Q670	2SA1365/F-X	TRANSISTOR		
Q671	RT1N141C-X	DIGI TRANSISTOR		
D630	SML-310LT/MN-X	LED		
D631	SML-310VT/JK-X	LED		
D632	SML-310VT/JK-X	LED		
D633	SML-310VT/JK-X	LED		
D634	SML-310VT/JK-X	LED		
D635	SML-310VT/JK-X	LED		
D636	SML-310VT/JK-X	LED		
D637	SML-310VT/JK-X	LED		
D638	SML-310VT/JK-X	LED		
D639	SML-310VT/JK-X	LED		
D640	SML-310VT/JK-X	LED		
D641	SML-310VT/JK-X	LED		
D642	SML-310VT/JK-X	LED		
D643	SML-310VT/JK-X	LED		
D644	SML-310VT/JK-X	LED		
D645	SML-310VT/JK-X	LED		
D646	SML-310VT/JK-X	LED		
D647	SML-310VT/JK-X	LED		
D648	SML-310VT/JK-X	LED		
D650	SML-310VT/JK-X	LED		
D651	SML-310VT/JK-X	LED		
D652	NSPW310BS/BRST/	LED		
D653	NSPW310BS/BRST/	LED		
D661	1SS355W-X	DIODE C.M		
D662	UDZW5.1B-X	SI DIODE		
D681	UDZW6.2B-X	DIODE		
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
C682	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R611	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R612	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R613	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R614	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R615	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R630	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R631	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R635	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R637	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R639	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R641	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R643	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R645	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R672	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R507	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R510	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R511	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R512	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R514	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R515	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R518	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R519	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R520	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R568	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R569	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
CN502	QGZ2512M1-10	CONNECTOR	(1-10)	
CN503	QGZ2512M1-08	CONNECTOR	(1-8)	

Main board (KD-G427_EE)

Block No. [0][7]

△ Symbol No.	Part No.	Part Name	Description	Local
IC71	LC72725NM-X	IC		
IC171	NJW1192V-X	IC		
△ IC301	LA47201	POWER AMP IC		
△ IC521	MN6627945EE	IC		
IC523	SN74LVC2G07V-X	LOGIC IC		
IC581	NJM4565E-X	IC		
△ IC701	MN101C49KST	IC		
IC771	BR24L16F-W-X	IC		
IC775	S-80833CNNB-G-W	IC		
IC801	SN74AHCT126PW-X	IC(DIGITAL)		
△ IC901	AN80T71	REGULATOR IC		
IC981	NJU7772F15-X	IC		
Q74	RT1N141C-X	DIGI TRANSISTOR		
Q301	2SC3928A/QR/-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q521	2SA1530A/QR/-X	TRANSISTOR		
Q781	RT1P141C-X	DIGI TRANSISTOR		
Q782	RT1P141C-X	DIGI TRANSISTOR		
Q891	RT1N141C-X	DIGI TRANSISTOR		
Q911	2SA1530A/QR/-X	TRANSISTOR		
Q912	RT1N141C-X	DIGI TRANSISTOR		

Func board (KD-G421E,KD-G421EX,KD-G421EY, KD-G421EU)

Block No. [0][6]

△ Symbol No.	Part No.	Part Name	Description	Local
△ IC501	LA6242H-X	IC		
Q501	2SA1705/ST/-T	TRANSISTOR		
C501	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C503	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C504	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C513	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C515	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C517	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C518	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
R500	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R505	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R506	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	

D1	1SS355W-X	DIODE C.M		
D2	1SS355W-X	DIODE C.M		
D301	UDZS3.3B-X	Z DIODE		
D341	1SS355W-X	DIODE C.M		
D351	1SS355W-X	DIODE C.M		
D501	1A3G-T1	SI DIODE		
D711	UDZW6.2B-X	DIODE		
D712	UDZW6.2B-X	DIODE		
D713	UDZW6.2B-X	DIODE		
D714	UDZW6.2B-X	DIODE		
D715	UDZW6.2B-X	DIODE		
D716	UDZW6.2B-X	DIODE		
D717	UDZW6.2B-X	DIODE		
D718	UDZW6.2B-X	DIODE		
D719	UDZW6.2B-X	DIODE		
D720	UDZW6.2B-X	DIODE		
D721	UDZW6.2B-X	DIODE		
D775	1SS355W-X	DIODE C.M		
D776	UDZW5.6B-X	Z DIODE		
D781	1SS355W-X	DIODE C.M		
D782	UDZW11B-X	Z DIODE		
D891	1SS355W-X	DIODE C.M		
D892	1SS355W-X	DIODE C.M		
△ D901	1N5401-F64	DIODE		
D903	1SS355W-X	DIODE C.M		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
D971	CRS03-W	SB DIODE			C533	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
D972	CRS03-W	SB DIODE			C534	NCB31EK-332X	C CAPACITOR	3300pF 25V K	
C1	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M		C535	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C2	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C536	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C537	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C539	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C5	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C540	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C8	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C541	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C9	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J		C542	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C71	NDC31HJ-561X	C CAPACITOR	560pF 50V J		C543	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C72	NDC31HJ-331X	C CAPACITOR	330pF 50V J		C544	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C73	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		C545	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C74	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C547	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C75	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C548	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C549	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C77	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C551	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C552	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C82	QTE1H57-105Z	E CAPACITOR	1uF 50V		C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C84	QTE1H57-105Z	E CAPACITOR	1uF 50V		C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C85	NCB31AK-224X	C CAPACITOR	0.22uF 10V K		C585	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C92	QTE1H57-105Z	E CAPACITOR	1uF 50V		C586	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C94	QTE1H57-105Z	E CAPACITOR	1uF 50V		C587	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C160	QTE1C57-106Z	E CAPACITOR	10uF 16V		C588	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C162	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C590	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C163	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		C591	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C164	NCB31HK-471X	C CAPACITOR	470pF 50V K		C592	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C165	NCB31AK-154X	C CAPACITOR	0.15uF 10V K		C703	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C166	NCB31HK-472X	C CAPACITOR	4700pF 50V K		C704	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C167	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C705	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C168	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C706	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C169	QTE1E57-475Z	E CAPACITOR	4.7uF 25V		C707	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C172	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C709	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C173	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		C710	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C174	NCB31AK-154X	C CAPACITOR	0.15uF 10V K		C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C175	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C176	NCB31HK-472X	C CAPACITOR	4700pF 50V K		C713	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C177	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C714	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C178	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C719	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C179	QTE1E57-475Z	E CAPACITOR	4.7uF 25V		C771	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C181	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C775	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C182	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C776	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C183	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C781	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C188	QTE1A57-107Z	E CAPACITOR	100uF 10V		C782	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C189	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C783	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C191	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C801	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C192	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C193	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C901	QEZ0769-278	E CAPACITOR	2700uF	
C301	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M		C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C302	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C303	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C304	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		C905	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C310	QTE1C57-106Z	E CAPACITOR	10uF 16V		C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C312	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C315	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C911	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		C915	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C321	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C919	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C323	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C324	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C982	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C325	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C983	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C326	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R1	NRSA02J-8R2X	MG RESISTOR	8.2Ω 1/10W J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R2	NRSA02J-8R2X	MG RESISTOR	8.2Ω 1/10W J	
C521	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R3	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C522	NCB31CK-224X	C CAPACITOR	0.22uF 16V K		R71	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
C523	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R72	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C524	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C525	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
C526	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		R76	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C527	NCB31EK-332X	C CAPACITOR	3300pF 25V K		R78	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C528	NDC31HJ-181X	C CAPACITOR	180pF 50V J		R81	NRS181J-153X	MG RESISTOR	15kΩ 1/8W J	
C529	NCB31HK-822X	C CAPACITOR	8200pF 50V K		R82	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C530	NCB31HK-822X	C CAPACITOR	8200pF 50V K		R91	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C531	NCB31AK-334X	C CAPACITOR	0.33uF 10V K		R92	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C532	NCB31AK-334X	C CAPACITOR	0.33uF 10V K		R161	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R162	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R716	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R717	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R171	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R172	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R720	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R181	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R183	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R191	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R726	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R192	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R193	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R728	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R729	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R303	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R731	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R734	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R307	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J		R735	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R323	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R737	NRS181J-272X	MG RESISTOR	2.7kΩ 1/8W J	
R324	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R738	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R325	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R739	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R326	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J		R740	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R741	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R342	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R742	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R345	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R743	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R351	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R745	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R355	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R746	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R521	NRS181J-105X	MG RESISTOR	1MΩ 1/8W J		R747	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R748	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R523	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R749	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R524	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J		R750	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R752	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R527	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R754	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R528	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R755	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R529	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R530	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R757	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R532	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R761	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R533	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J		R767	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R534	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J		R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R537	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J		R775	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R538	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R776	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R540	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R801	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R541	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R802	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R803	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R543	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R804	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R544	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R805	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R545	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J		R806	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R548	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R807	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R554	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J		R808	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R556	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R809	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R558	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R810	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R559	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R902	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R566	NRS181J-100X	MG RESISTOR	10Ω 1/8W J		R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R905	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R906	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R911	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R912	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R587	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R588	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R589	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J						
R590	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		L1	QQL801K-4R7Y	COIL	4.7uH K	
R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L2	NQL093K-R22X	COIL	0.22uH K	
R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L701	QQL801K-4R7Y	COIL	4.7uH K	
R593	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		L901	QQR0703-001	CHOKE COIL		
R594	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
R707	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
R709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN901	QNZ0611-001	16P CONNECTOR		
R710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		J1	QNB0190-001	ANTENNA JACK		
R711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J321	QNN0773-001	PIN JACK		
R712	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		J801	QNZ0095-001	CONNECTOR		
R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S775	QSW1049-001Z	TACT SW		
R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		△ TU1	QAU0453-001	TUNER PACK		

Symbol No.	Part No.	Part Name	Description	Local
X71	QAX0263-001Z	CRYSTAL	4.332MHz	
X521	QAX0714-001Z	C RESONATOR	16 000MHz	
X701	QAX0667-001Z	C RESONATOR	8.000MHz	
X702	QAX0401-001	CRYSTAL	32.768KHz	

Switch board (KD-G427_EE)

Block No. [0][8]

Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	IC		
IC681	RPM7338-V4	RM.RECEIVER		
Q670	2SA1365/F-X	TRANSISTOR		
Q671	RT1N141C-X	DIGI TRANSISTOR		
D630	SML-310LT/MN/-X	LED		
D631	SML-310VT/JK/-X	LED		
D632	SML-310VT/JK/-X	LED		
D633	SML-310VT/JK/-X	LED		
D634	SML-310VT/JK/-X	LED		
D635	SML-310VT/JK/-X	LED		
D636	SML-310VT/JK/-X	LED		
D637	SML-310VT/JK/-X	LED		
D638	SML-310VT/JK/-X	LED		
D639	SML-310VT/JK/-X	LED		
D640	SML-310VT/JK/-X	LED		
D641	SML-310VT/JK/-X	LED		
D642	SML-310VT/JK/-X	LED		
D643	SML-310VT/JK/-X	LED		
D644	SML-310VT/JK/-X	LED		
D645	SML-310VT/JK/-X	LED		
D646	SML-310VT/JK/-X	LED		
D647	SML-310VT/JK/-X	LED		
D648	SML-310VT/JK/-X	LED		
D650	SML-310VT/JK/-X	LED		
D651	SML-310VT/JK/-X	LED		
D652	NSPW310BS/BRST/	LED		
D653	NSPW310BS/BRST/	LED		
D661	1SS355W-X	DIODE C.M		
D662	UDZW5.1B-X	SI DIODE		
D681	UDZW6.2B-X	DIODE		
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
C682	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R611	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R612	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R613	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R614	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R615	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R630	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R631	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R635	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R637	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R639	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R641	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R643	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
R645	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R672	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
JS686	QSW0976-001	ROTARY ENCODER		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S607	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		
S617	NSW0124-001X	TACT SW		
S618	NSW0124-001X	TACT SW		

Func board (KD-G427_EE)

Block No. [0][9]

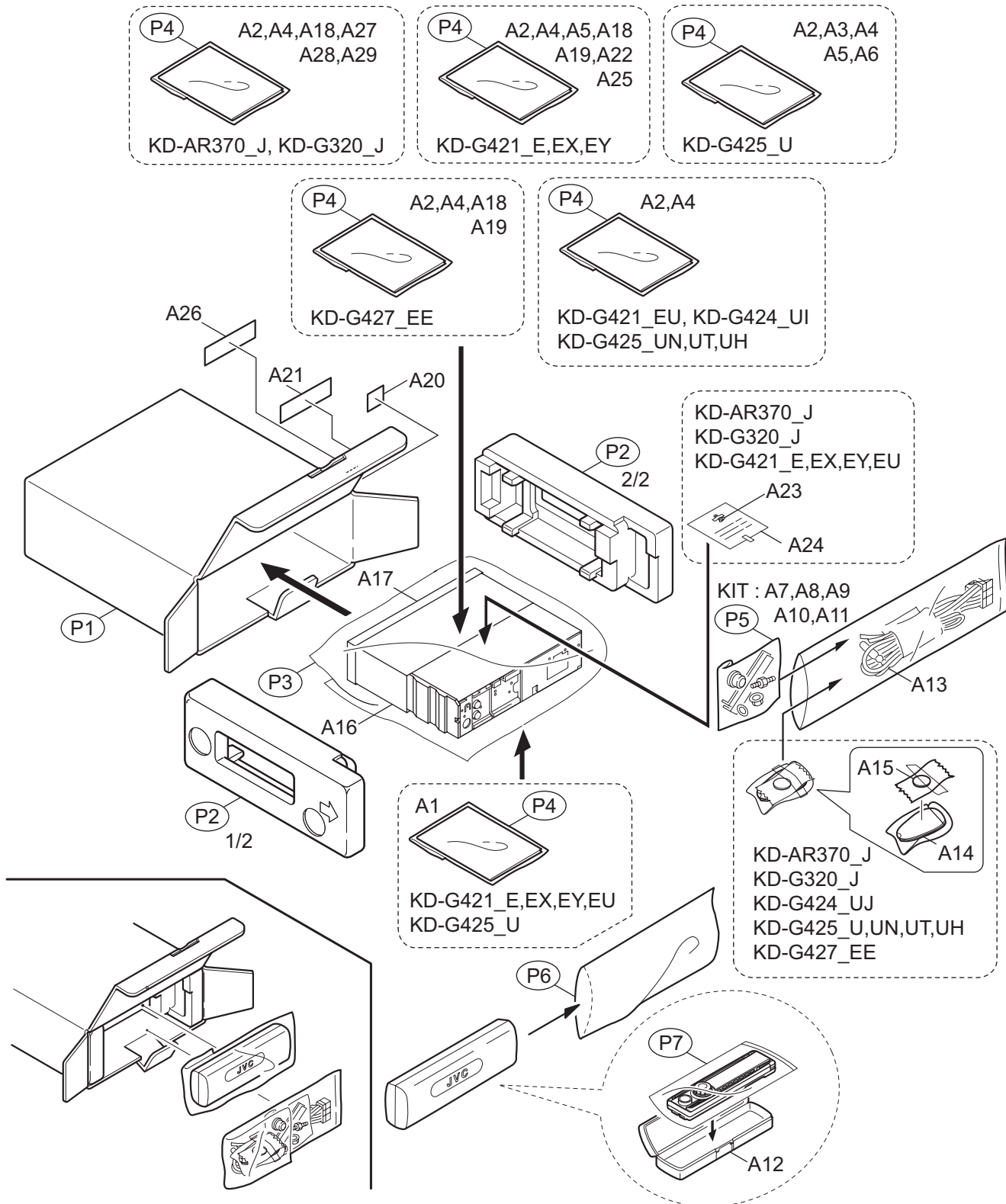
Symbol No.	Part No.	Part Name	Description	Local
△ IC501	LA6242H-X	IC		
Q501	2SA1705/ST-T	TRANSISTOR		
C501	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C503	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C504	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C513	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C515	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C517	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C518	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
R500	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R505	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R506	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R507	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R510	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R511	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R512	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R514	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R515	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R517	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R518	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R519	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R520	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R568	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R569	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
CN502	QGZ2512M1-10	CONNECTOR	(1-10)	
CN503	QGZ2512M1-08	CONNECTOR	(1-8)	

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available.



Packing and Accessories

Block No. [M][3][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	GET0352-001A	INST BOOK	GER FRE ITA	G421E
A 1	GET0352-005A	INST BOOK	SPA TUR PER	G421EU
A 1	GET0352-004A	INST BOOK	DUT SWE DAN FIN	G421EX
A 1	GET0352-006A	INST BOOK	ENG GER RUS	G421EY
A 1	GET0350-001A	INST BOOK	ENG THA	G425U
A 2	GET0349-001A	INST BOOK	ENG SPA FRE	AR370J,G320J
A 2	GET0352-002A	INST BOOK	SPA GRE POR	G421E
A 2	GET0352-003A	INST BOOK	ENG FRE	G421EU,G421EX
A 2	GET0352-007A	INST BOOK	POL CZE HUN	G421EY
A 2	GET0351-001A	INST BOOK	ENG	G424UI
A 2	GET0350-002A	INST BOOK	KOR CHI(TAIWAN) ARA PER	G425U
A 2	GET0350-001A	INST BOOK	ENG THA	G425UH
A 2	GET0350-004A	INST BOOK	ENG INA	G425UN
A 2	GET0350-005A	INST BOOK	ENG CHI(TAIWAN)	G425UT
A 2	GET0353-001A	INST BOOK	ENG RUS	G427EE
A 3	GET0350-003A	INST BOOK	RUS	G425U
A 4	GET0349-002A	INSTALL MANUAL		AR370J,G320J
A 4	GET0352-008A	INSTALL MANUAL		G421E
A 4	GET0352-012A	INSTALL MANUAL		G421EU
A 4	GET0352-011A	INSTALL MANUAL		G421EX
A 4	GET0352-013A	INSTALL MANUAL		G421EY
A 4	GET0351-002A	INSTALL MANUAL		G424UI
A 4	GET0350-006A	INSTALL MANUAL		G425U,G425UH
A 4	GET0350-009A	INSTALL MANUAL		G425UN
A 4	GET0350-010A	INSTALL MANUAL		G425UT
A 4	GET0353-002A	INSTALL MANUAL		G427EE
A 5	GET0352-009A	INSTALL MANUAL		G421E
A 5	GET0352-010A	INSTALL MANUAL		G421EU,G421EX
A 5	GET0352-014A	INSTALL MANUAL		G421EY
A 5	GET0350-007A	INSTALL MANUAL		G425U
A 6	GET0350-008A	INSTALL MANUAL		G425U
A 7	VKZ4027-202	PLUG NUT		
A 8	VKH4871-003	MOUNT BOLT		
A 9	VKZ4328-003	LOCK NUT		
A 10	QYWWS53A008ZA	WASHER	0mm/5.3mm x	
A 11	GE40130-002A	HOOK	(x2)	
A 12	FSJB3002-30C	HARD CASE		AR370J,G320J,G424UI,G425U,G425UH,G425UN,G425UT
A 12	FSJB3002-00C	HARD CASE		G421E,G421EU,G421EX,G421EY,G427EE
A 13	QAM0307-002	16P CORD ASSY		AR370J
A 13	QAM0013-008	16P CORD ASSY		G320J
A 13	QAM0390-004	16P CORD ASSY		G424UI,G425U,G425UH,G425UN,G425UT
A 13	QAM0463-002	ISO ADAPTER		G421E,G421EU,G421EX,G421EY,G427EE
A 14	RM-RK50C	REMOCON		AR370J,G320J,G424UI,G425U,G425UH,G425UN,G425UT,G427EE
A 15	-----	BATTERY		AR370J,G320J,G424UI,G425U,G425UH,G425UN,G425UT,G427EE
A 16	GE20137-003A	MOUNTING SLEEVE		
A 17	GE20135-010A	TRIM PLATE		G320J,G421E,G421EU,G421EX,G421EY,G424UI,G425U,G425UH,G425UN,G425UT
A 17	GE20135-007A	TRIM PLATE		AR370J,G427EE
A 18	-----	WARRANTY CARD	BT-51029-2	AR370J
A 18	-----	WARRANTY CARD	BT-51018-4	G320J
A 18	-----	WARRANTY CARD	BT-54027-1	G421E,G421EX,G421EY,G427EE
A 19	VND3046-001	SERIAL TICKET		G421E,G421EX,G421EY,G427EE
A 20	LV44438-002A	LABEL(WEEE)		G421E,G421EU,G421EX,G421EY
A 21	LV33728-001A	CARTON LABEL		
A 22	VND3050-002	IDENTITY CARD		G421E,G421EX,G421EY
A 23	VKZ4777-010	MINI SCREW		AR370J,G320J,G421E,G421EU,G421EX,G421EY,G427EE
A 24	FSYA4001-001	SHEET		AR370J,G320J,G421E,G421EU,G421EX,G421EY,G427EE
A 25	LVT1435-001A	INST SHEET		G421E,G421EU,G421EX,G421EY
A 26	GE31574-027A	UT LABEL		G425UT
A 27	LVT0717-001B	TROUBLE SHEET(C		AR370J,G320J
A 28	-----	WARRANTY CARD	BT-52006-2	AR370J,G320J
A 29	BT-51034-2	REGISTRATION CARD		AR370J,G320J
KIT	SRW-385U	SCREW PARTS KIT	A7 A8 A9 A10 A11	
P 1	GE31874-002A	CARTON		AR370J
P 1	GE32190-001A	CARTON		G320J
P 1	GE31883-002A	CARTON		G421E,G421EU,G421EX,G421EY
P 1	GE32036-002A	CARTON		G424UI
P 1	GE31880-002A	CARTON		G425U,G425UH,G425UN,G425UT
P 1	GE31886-002A	CARTON		G427EE
P 2	GE10070-003A	EPS CUSHION		

Symbol No.	Part No.	Part Name	Description	Local
P 3	QPC03004315P	POLY BAG	30cm x 43cm	
P 4	FSPG4002-001	POLY BAG	(x2)	G421E,G421EU,G421EX,G421EY,G425U
P 4	FSPG4002-001	POLY BAG		AR370J,G320J,G424UI,G425UH,G425UN, G425UT,G427EE
P 5	QPA00801205	POLY BAG	8cm x 12cm	
P 6	QPA01003003	POLY BAG	10cm x 30cm	
P 7	QPC01002515	POLY BAG	10cm x 25cm	

<MEMO>