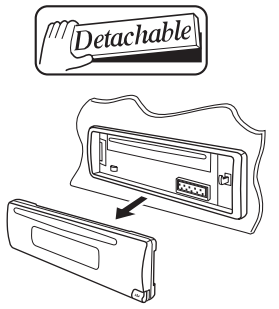
JVC

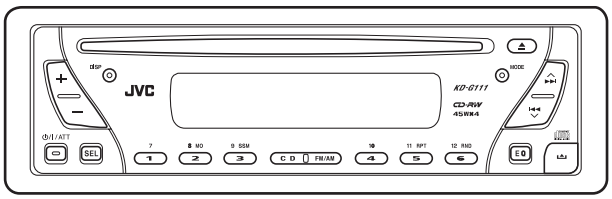
SERVICE MANUAL

CD RECEIVER

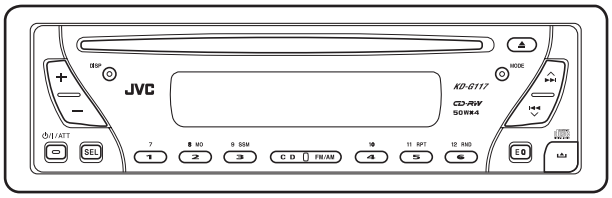
KD-G111,KD-G117



KD-G111



KD-G117



KD-G111
Area suffix
E ---------- Southern Europe
EX ---------- Northern Europe
EY ---------- Eastern Europe
EU ---------- Turkey

KD-G117
Area suffix
EE -------- Russian Federation

	KD-G111	KD-G117
Maximum Power Output	45 W	50 W
Continuous Power Output	17 W	19 W
FM Band Cover	87.5 MHz to 108.0 MHz	FM1/FM2 : 87.5 MHz to 108.0 MHz
		FM3 : 65.00 MHz to 74.00 MHz

TABLE OF CONTENTS

COPYRIGHT © 2005 Victor Company of Japan, Limited

No.MA125
2005/2

SPECIFICATION

AUDIO AMPLIFIER SECTION			
Maximum Power Output	Front	KD-G111	45 W per channel
		KD-G117	50 W per channel
	Rear	KD-G111	45 W per channel
		KD-G117	50 W per channel
Continuous Power Output (RMS)	Front	KD-G111	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
		KD-G117	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	KD-G111	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
		KD-G117	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			2.0 V/20 kΩ load (full scale)
Output Impedance			1 kΩ
TUNER SECTION			
Frequency Range	FM	KD-G111	87.5 MHz to 108.0 MHz
		KD-G117	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 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
[MW Tuner]	Sensitivity		20 μV
	Selectivity		35 dB
[LW Tuner]	Selectivity		50 μV
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
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.)			1.3 kg (excluding accessories)

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 preforming 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

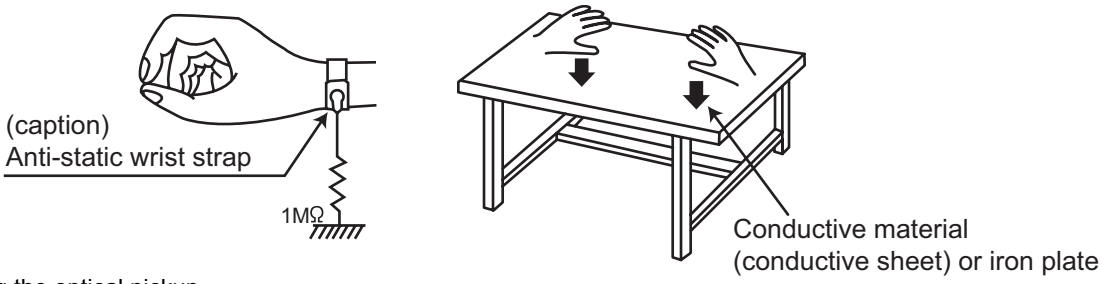
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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.

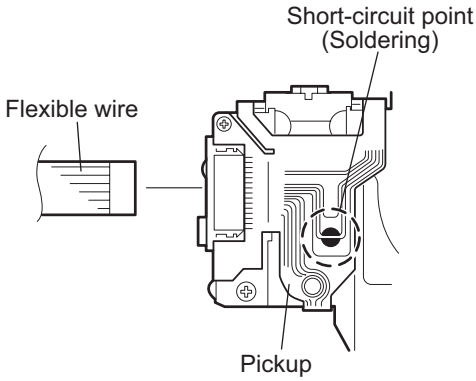
1.3 Handling the traverse unit (optical pickup)

(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 inter lock 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.

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

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSUREBTO BEAM.	**VARNING :** Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymätttömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

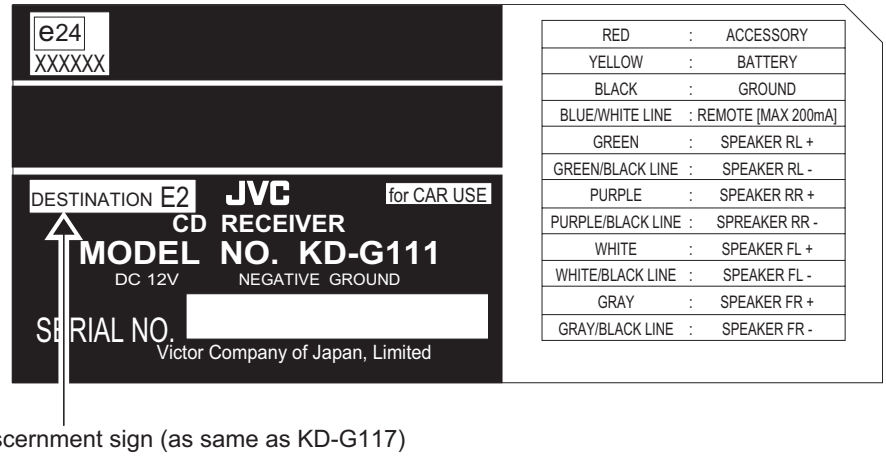
CLASS 1
LASER PRODUCT

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 fejeler. Undgå direkte eksponering til stråling. (d)	**VARNING** : Synlig och osynling laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO**: Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 HOW TO IDENTIFY MODELS

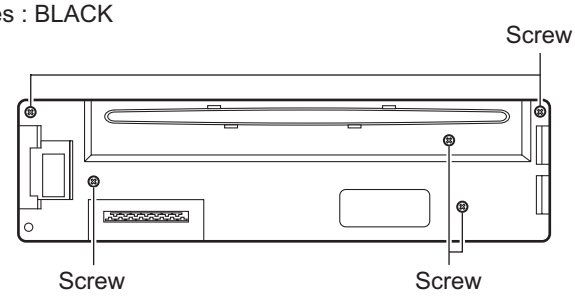
2.1.1 NAME PLATE



Discernment sign (as same as KD-G117)

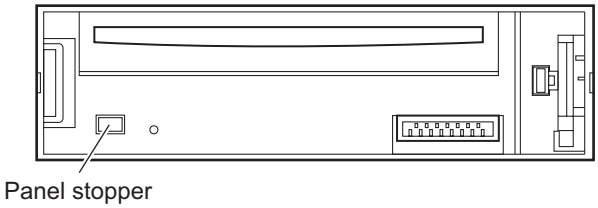
2.1.2 FRONT PANEL BACK SIDE (except KD-G117)

Screw color
E series : SILVER
E2 series : BLACK



2.1.3 FRONT CHASSIS ASSEMBLY (except KD-G117)

Panel stopper color
E series : SILVER
E2 series : BLACK



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.

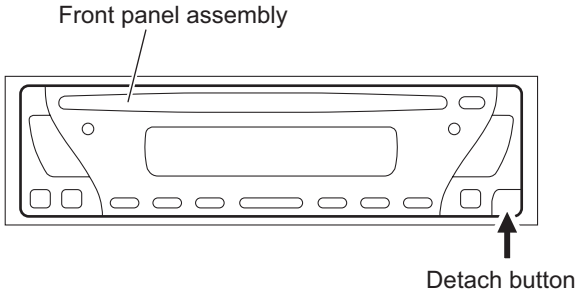


Fig.1

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.

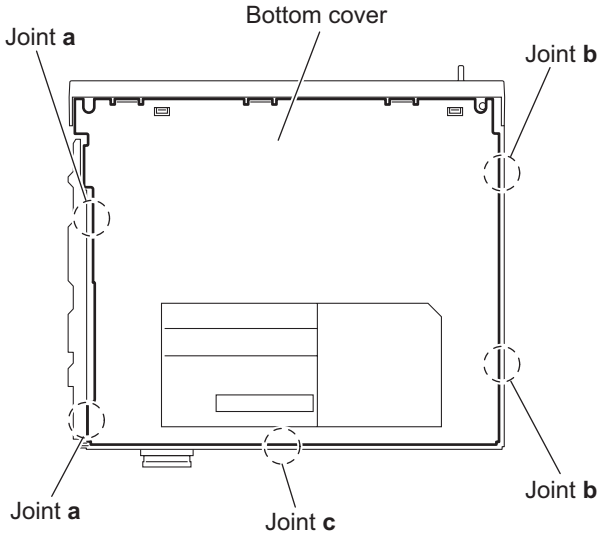


Fig.2

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 two joints **d** and two joints **e** on the both sides of the main body, then remove the front chassis assembly toward the front.

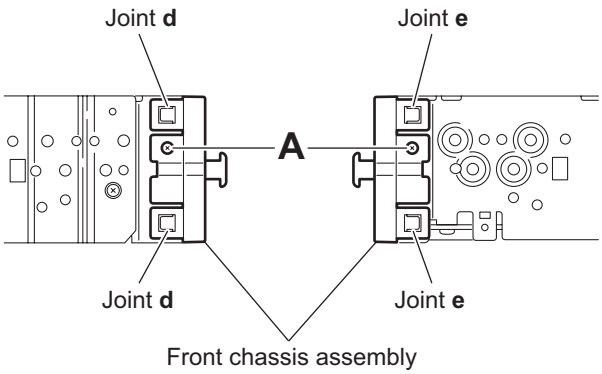


Fig.3

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.

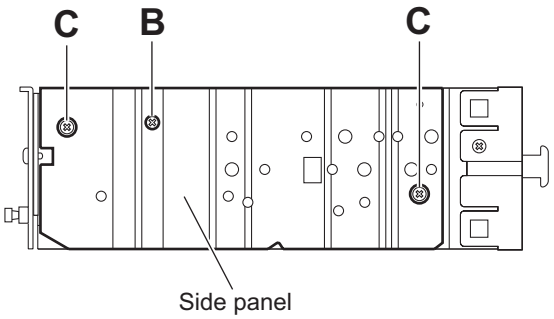


Fig.4

3.1.5 Removing the rear bracket (See Fig.5)

- Remove the bottom cover.

(1) For KD-G111, remove the three screws **D**, three screws **E** and two screws **F** attaching the rear bracket on the back side of the main body.

(2) For KD-G117, remove the three screws **D**, screw **E** and two screws **F** attaching the rear bracket on the back side of the main body.

(3) Remove the rear bracket.

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. (See Fig.5.)

(2) Remove the two screws **G** attaching the main board. (See Fig.6.)

(3) 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".)

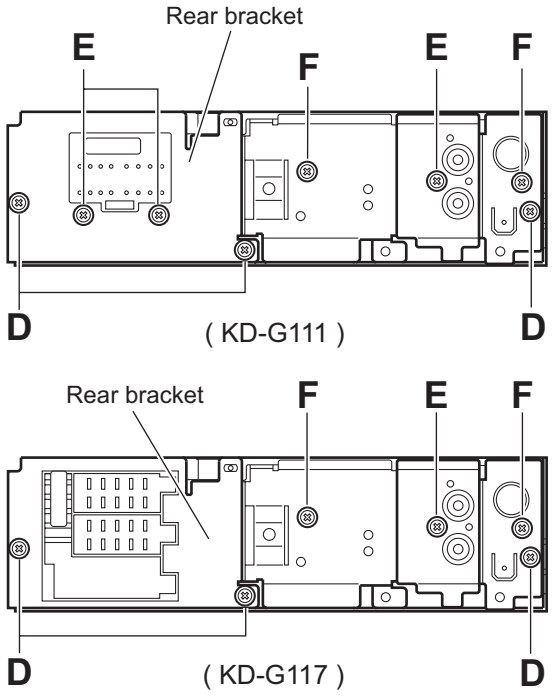


Fig.5

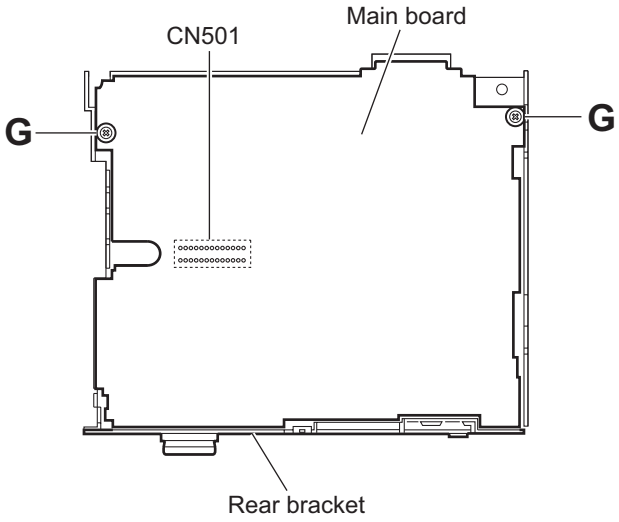


Fig.6

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.

(1) Remove the three screws **H** attaching the CD mechanism assembly on the top chassis.

(2) Take out the CD mechanism assembly.

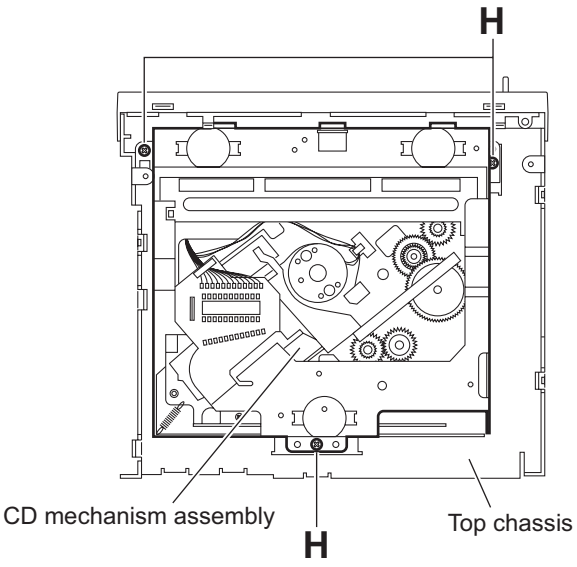


Fig.7

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

- Remove the front panel assembly.

(1) Remove the five screws **J** on the back side of the front panel assembly. (See Fig.8.)

(2) Release the twelve joints **f** and remove the rear cover. (See Fig.9.)

(3) Release the joint **g** and take out the front board from the front panel assembly. (See Fig.10.)

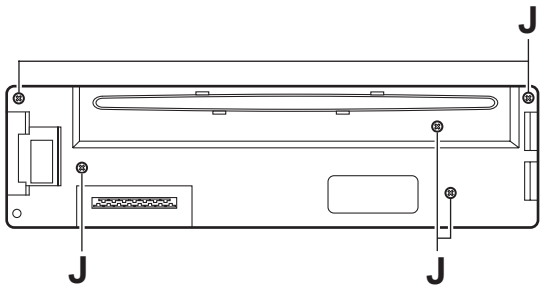


Fig.8

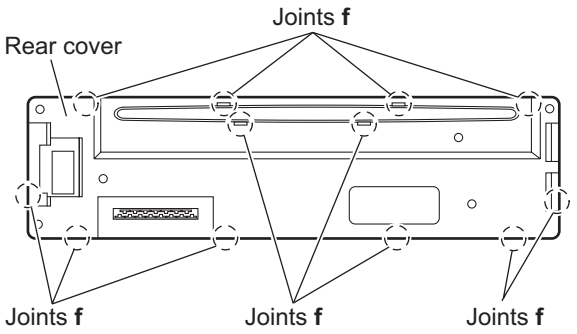


Fig.9

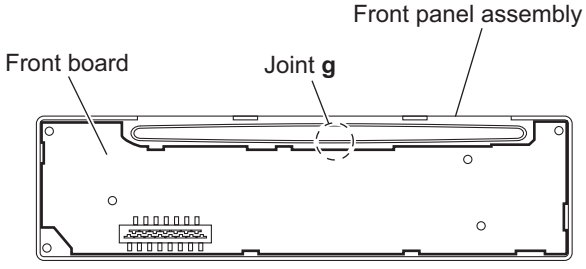


Fig.10

3.2 CD Mechanism Assembly

3.2.1 Removing the top cover (See Figs.1 and 2)

(1) Remove the two screws **A** on the both side of the body.
(2) Lift the front side of the top cover and move the top cover backward to release the two joints **a**.

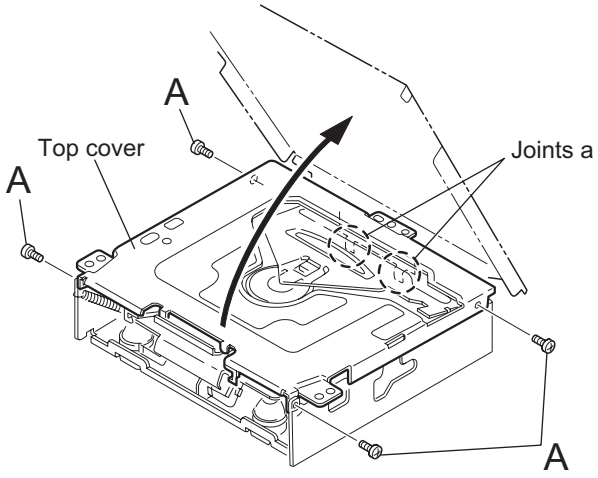


Fig.1

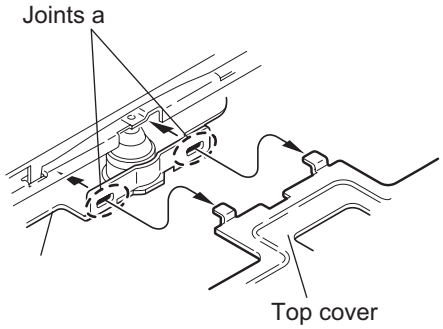


Fig.2

3.2.2 Removing the connector board (See Figs.3 to 5)

CAUTION:

Before disconnecting the flexible wire from the pickup, solder the short-circuit point on the pickup. No observance of this instruction may cause damage of the pickup.

(1) Remove the screw **B** fixing the connector board.
(2) Solder the short-circuit point on the connector board.
(3) Disconnect the flexible wire from the pickup.
(4) Move the connector board in the direction of the arrow to release the two joints **b**.
(5) Unsolder the wire on the connector board if necessary.

CAUTION:

Unsolder the short-circuit point after reassembling.

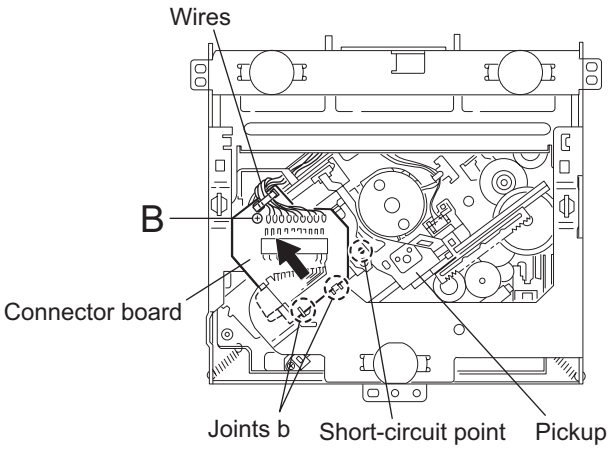


Fig.3

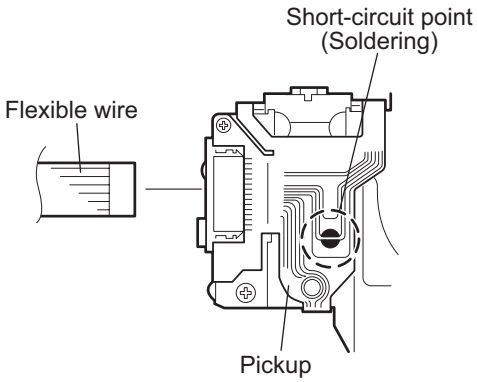


Fig.4

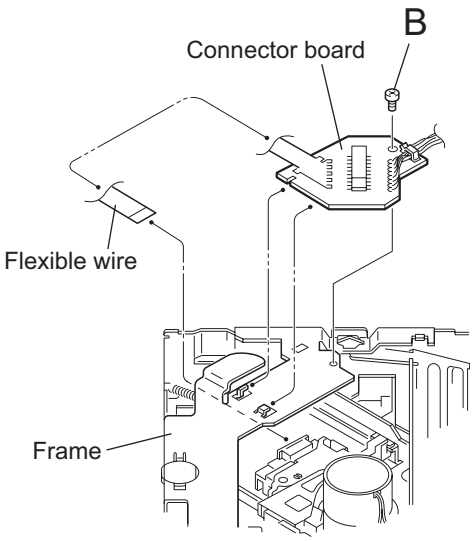


Fig.5

3.2.3 Removing the DET switch (See Figs.6 and 7)

(1) Extend the two tabs **c** of the feed sw. holder and pull out the switch.
(2) Unsolder the DET switch wire if necessary.

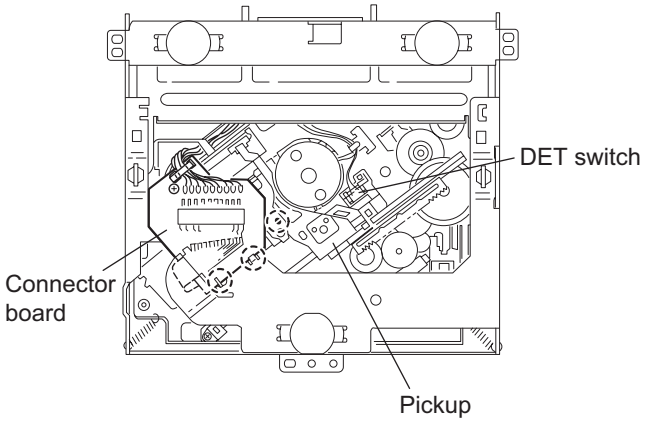


Fig.6

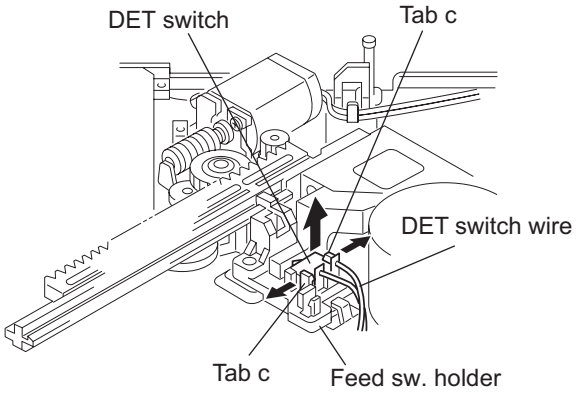


Fig.7

3.2.4 Removing the chassis unit (See Figs.8 and 9)

- Prior to performing the following procedure, remove the top cover and connector board.
  (1) Remove the two suspension springs (L) and (R) attaching the chassis unit to the frame.

  CAUTION:
  - The shape of the suspension spring (L) and (R) are different. Handle them with care.
  - When reassembling, make sure that the three shafts on the underside of the chassis unit are inserted to the dampers certainly.

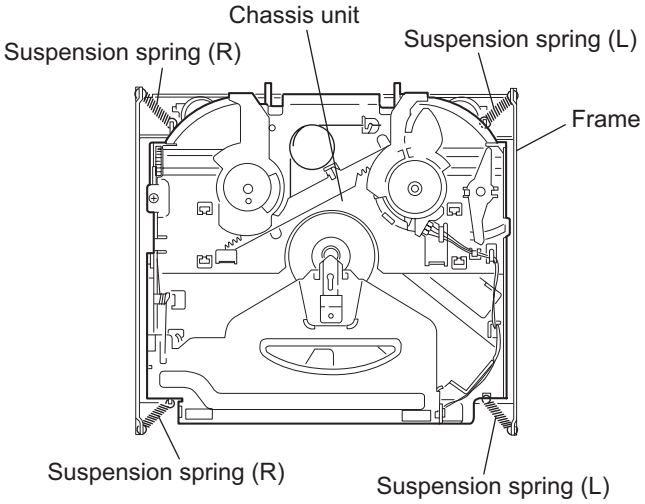


Fig.8

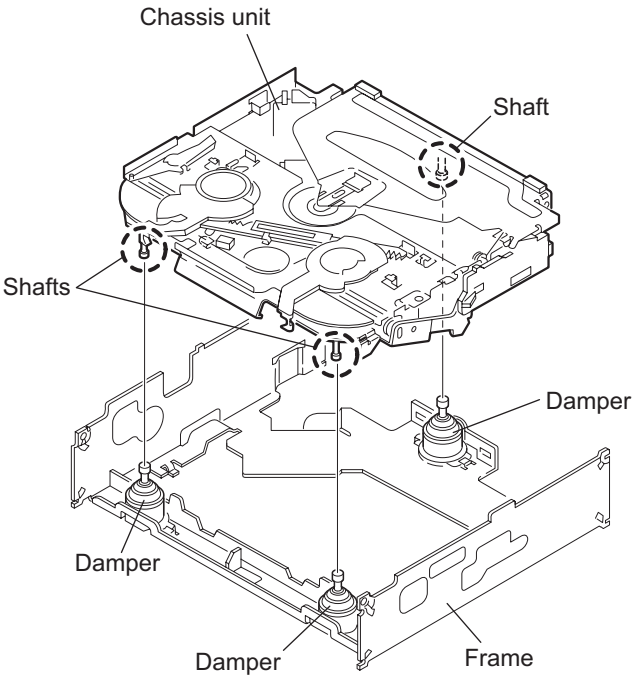


Fig.9

3.2.5 Removing the clamper assembly (See Figs.10 and 11)

- Prior to performing the following procedure, remove the top cover.
  (1) Remove the clamper arm spring.
  (2) Move the clamper assembly in the direction of the arrow to release the two joints **d**.

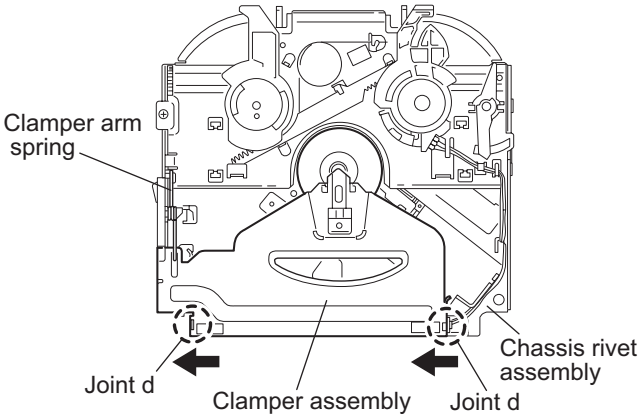


Fig.10

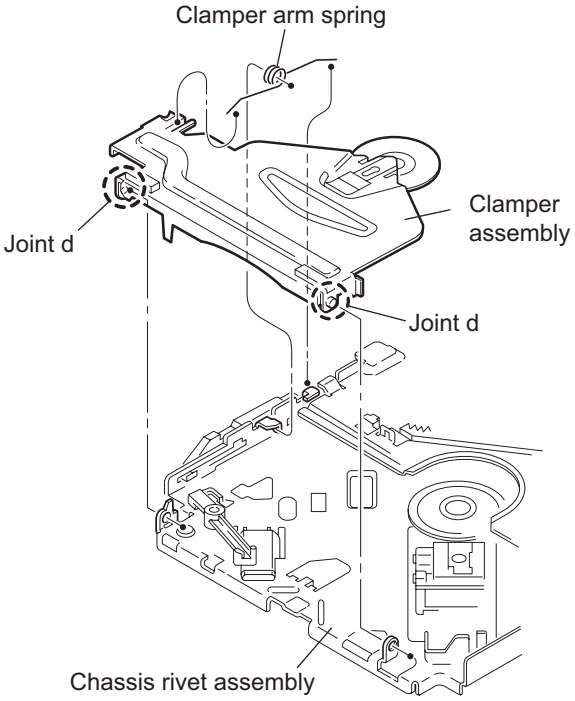


Fig.11

3.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **C** and move the loading / feed motor assembly in the direction of the arrow to remove it from the chassis rivet assembly.
  (2) Disconnect the wire from the loading / feed motor assembly if necessary.

  CAUTION:
  When reassembling, connect the wire from the loading / feed motor assembly to the flame as shown in Fig.12.

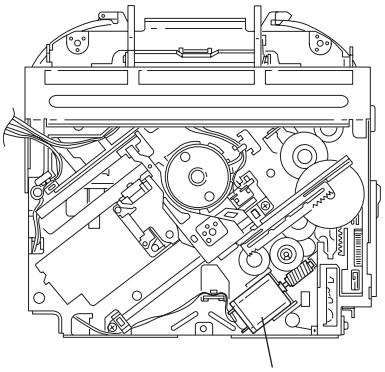


Fig.12

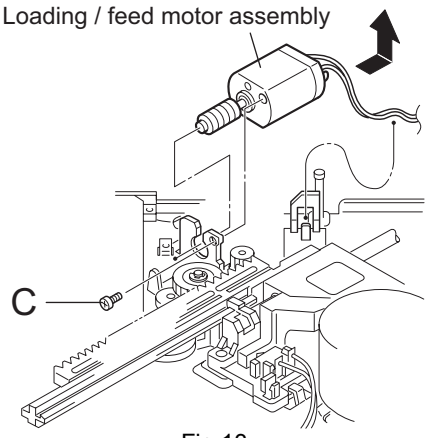


Fig.13

3.2.7 Removing the pickup unit (See Figs.14 to 18)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **D** and pull out the pu. shaft holder from the pu. shaft.
  (2) Remove the screw **E** attaching the feed sw. holder.
  (3) Move the part **e** of the pickup unit upward with the pu. shaft and the feed sw. holder, then release the joint f of the feed sw. holder in the direction of the arrow. The joint **g** of the pickup unit and the feed rack is released, and the feed sw. holder comes off.
  (4) Remove the pu. shaft from the pickup unit.
  (5) Remove the screw **F** attaching the feed rack to the pickup unit.

3.2.8 Reattaching the pickup unit (See Figs.14 to 17)

(1) Reattach the feed rack to the pickup unit using the screw **F**.
(2) Reattach the feed sw. holder to the feed rack while setting the joint g to the slot of the feed rack and setting the part f of the feed rack to the switch of the feed sw. holder correctly.
(3) As the feed sw. holder is temporarily attached to the pickup unit, set to the gear of the joint g and to the bending part of the chassis (joint **h**) at a time.

CAUTION:

Make sure that the part i on the underside of the feed rack is certainly inserted to the slot j of the change lock lever.

(4) Reattach the feed sw. holder using the screw **E**.
(5) Reattach the pu. shaft to the pickup unit. Reattach the pu. shaft holder to the pu. shaft using the screw **D**.

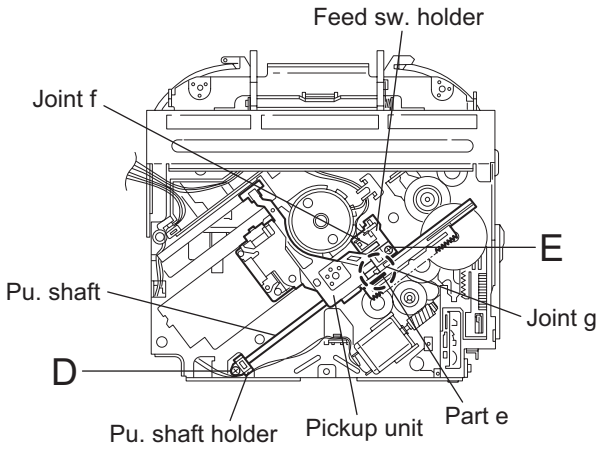


Fig.14

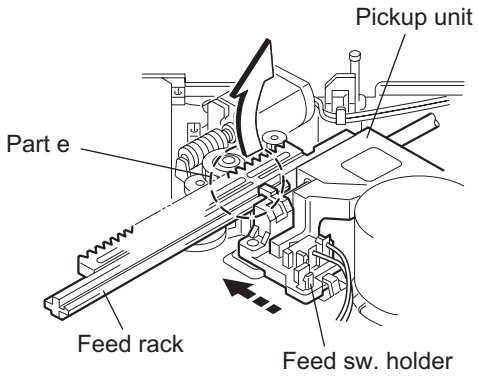


Fig.15

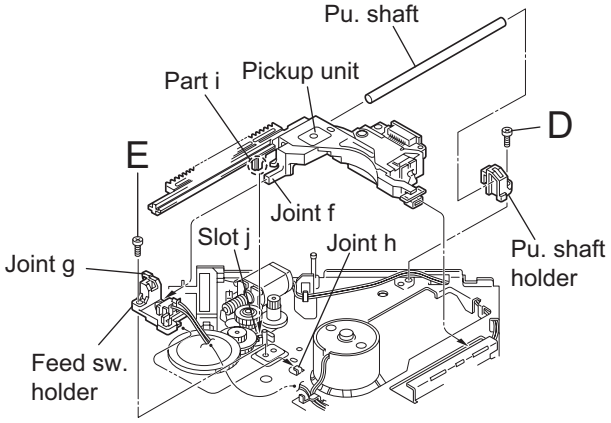


Fig.16

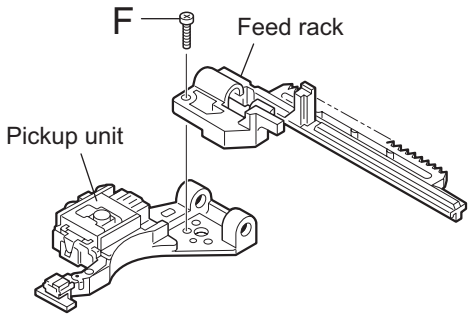


Fig.17

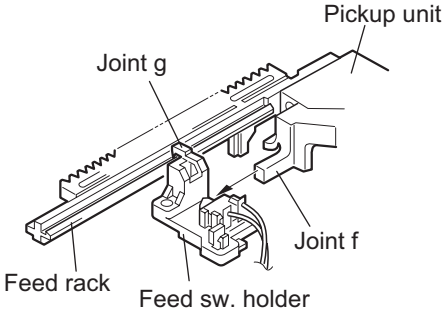


Fig.18

3.2.9 Removing the trigger arm (See Figs.19 and 20)

- Prior to performing the following procedure, remove the top cover, connector board and clamper unit.
  (1) Turn the trigger arm in the direction of the arrow to release the joint **k** and pull out upward.

  CAUTION:

  When reassembling, insert the part m and n of the trigger arm into the part **p** and **q** at the slot of the chassis rivet assembly respectively and join the joint k at a time.

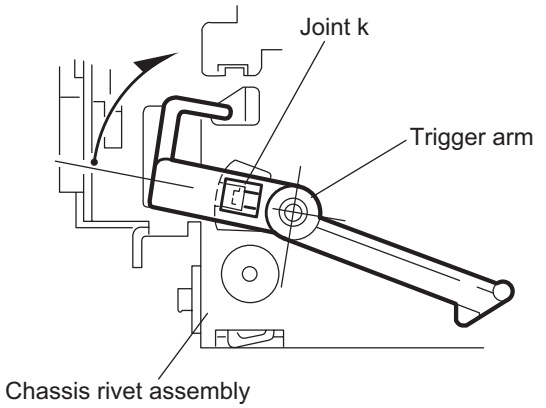


Fig.19

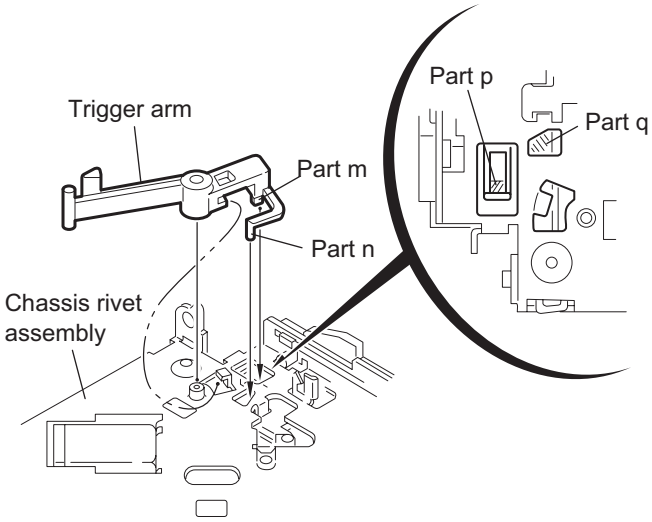


Fig.20

3.2.10 Removing the top plate assembly (See Fig.21)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit, and clamper assembly.
  (1) Remove the screw **H**.
  (2) Move the top plate assembly in the direction of the arrow to release the two joints r.
  (3) Unsolder the wire marked s if necessary.

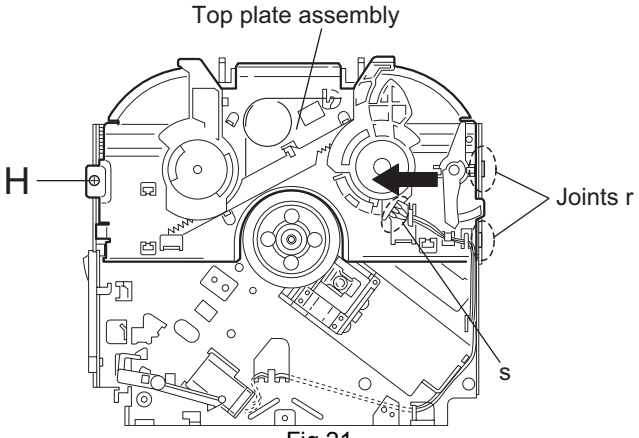


Fig.21

3.2.11 Removing the mode sw. / select lock arm (See Figs.22 and 23)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the mode sw. to release from the link plate (joint **t**) and turn in the direction of the arrow to release the joint **u**.
  (2) Unsolder the wire of the mode sw. marked s if necessary.
  (3) Turn the select lock arm in the direction of the arrow to release the two joints **v**.
  (4) The select lock arm spring comes off the select lock arm at the same time.

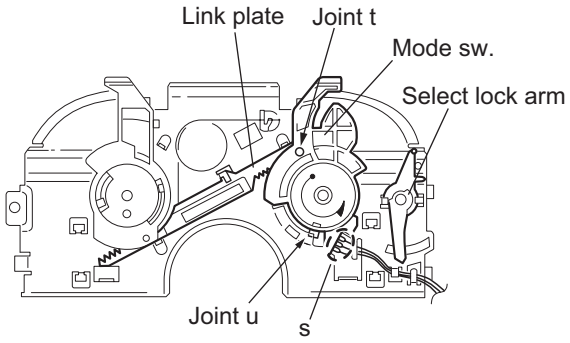


Fig.22

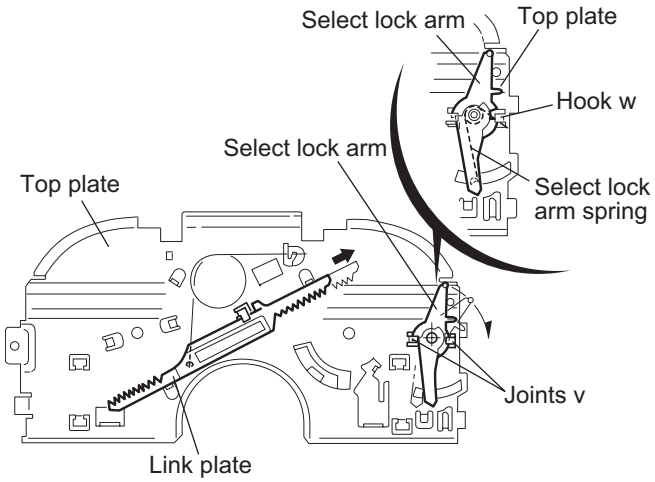


Fig.23

3.2.12 Reassembling the mode sw. / select lock arm (See Figs.24 to 26)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook w on the top plate.

(2) Set the other longer end of the select lock arm spring to the boss x on the underside of the select lock arm, and join the select lock arm to the slots (joint **v**). Turn the select lock arm as shown in the figure.

(3) Reattach the mode sw. while setting the part t to the first peak of the link plate gear, and join the joint **u**.

CAUTION:

When reattaching the mode sw., check if the points y and z are correctly fitted and if each part operates properly.

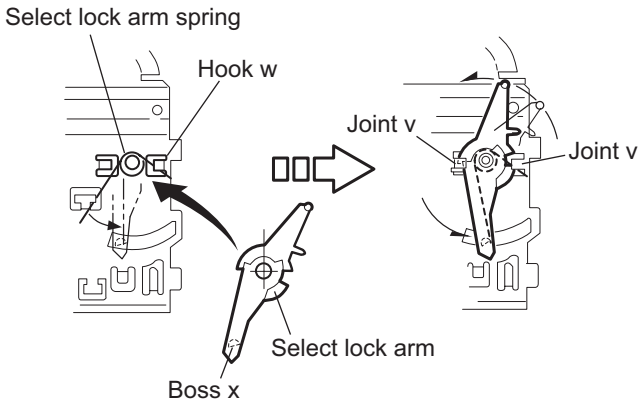


Fig.24

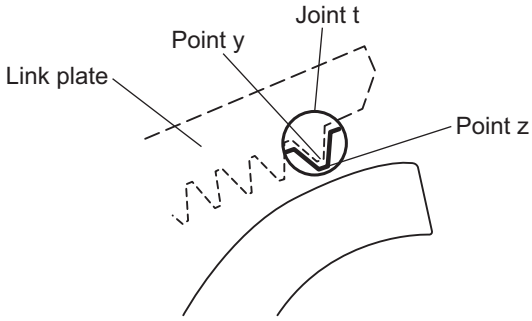


Fig.25

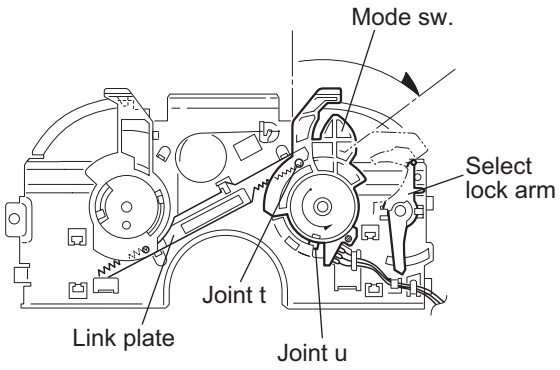


Fig.26

3.2.13 Removing the select arm R / link plate (See Figs.27 and 28)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the select arm R to release from the link plate (joint a') and turn as shown in the figure to release the two joints **b'** and joint **c'**.
  (2) Move the link plate in the direction of the arrow to release the joint d'. Remove the link plate spring at the same time.

REFERENCE:

Before removing the link plate, remove the mode sw..

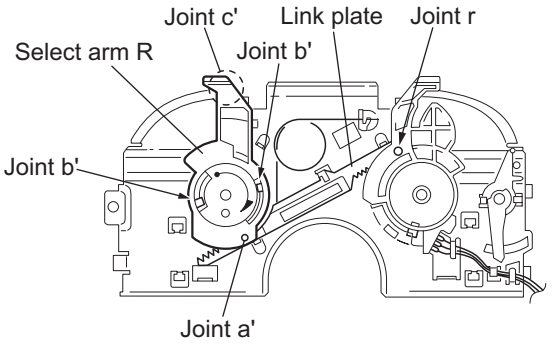


Fig.27

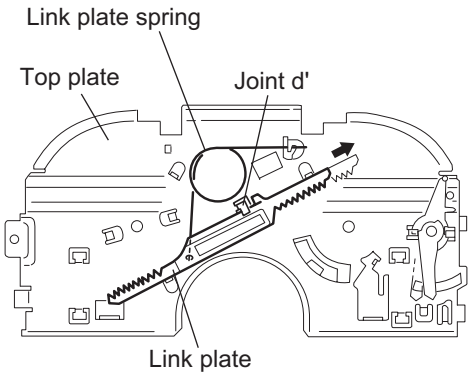


Fig.28

3.2.14 Reattaching the Select arm R / link plate (See Figs.29 and 30)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the link plate spring.
(2) Reattach the link plate to the link plate spring while joining them at joint **d'**.
(3) Reattach the joint a' of the select arm **R** to the first peak of the link plate while joining the two joints **b'** with the slots. Then turn the select arm R as shown in the figure. The top plate is joined to the joint **c'**.

CAUTION:

When reattaching the select arm **R**, check if the points **e'** and **f'** are correctly fitted and if each part operates properly.

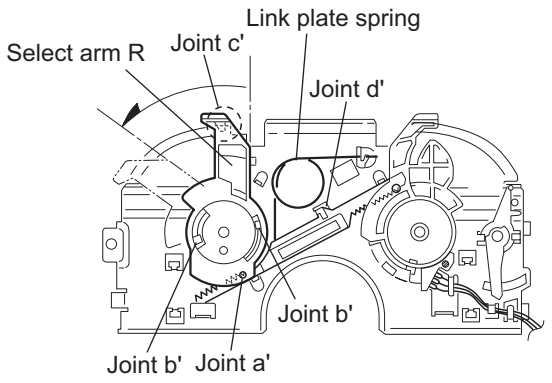


Fig.29

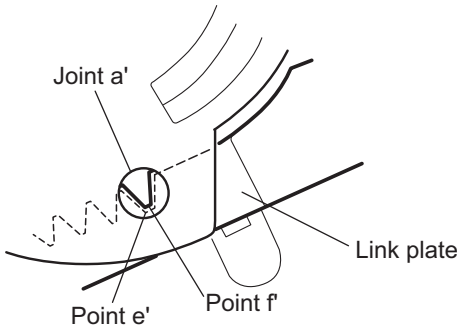


Fig.30

3.2.15 Removing the loading roller assembly (See Figs.31 to 33)

- Prior to performing the following procedure, remove the clamper assembly and top plate assembly.
  (1) Push inward the loading roller assembly on the gear side and detach it upward from the slot of the joint **g'** of the lock arm rivet assembly.
  (2) Detach the loading roller assembly from the slot of the joint **h'** of the lock arm rivet assembly.

      The roller guide comes off the gear section of the loading roller assembly.

      Remove the roller guide and the HL washer from the shaft of the loading roller assembly.
  (3) Remove the screw **J** attaching the lock arm rivet assembly.
  (4) Push the shaft at the joint **i'** of the lock arm rivet assembly inward to release the lock arm rivet assembly from the slot of the **L** side plate.
  (5) Extend the lock arm rivet assembly outward and release the joint **j'** from the boss of the chassis rivet assembly. The roller guide springs on both sides come off at the same time.

      CAUTION:

      When reassembling, reattach the left and right roller guide springs to the lock arm rivet assembly before reattaching the lock arm rivet assembly to the chassis rivet assembly. Make sure to fit the part **k'** of the roller guide spring inside of the roller guide. (Refer to Fig.34.)

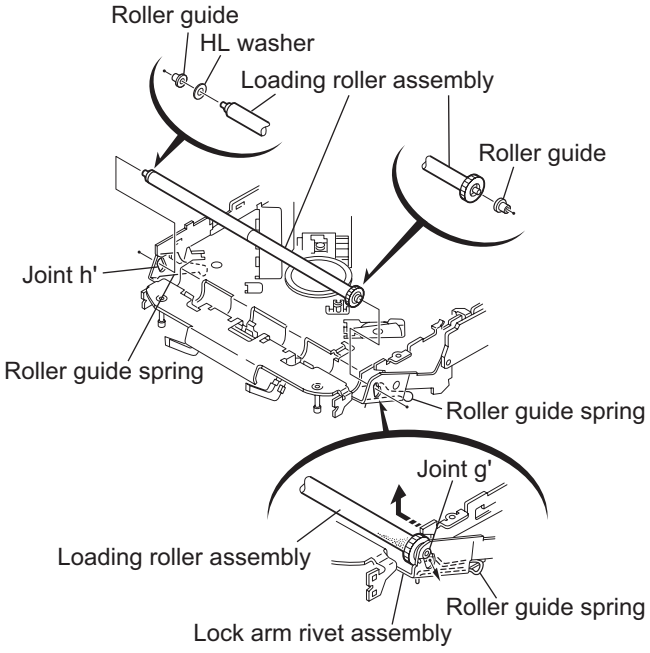


Fig.31

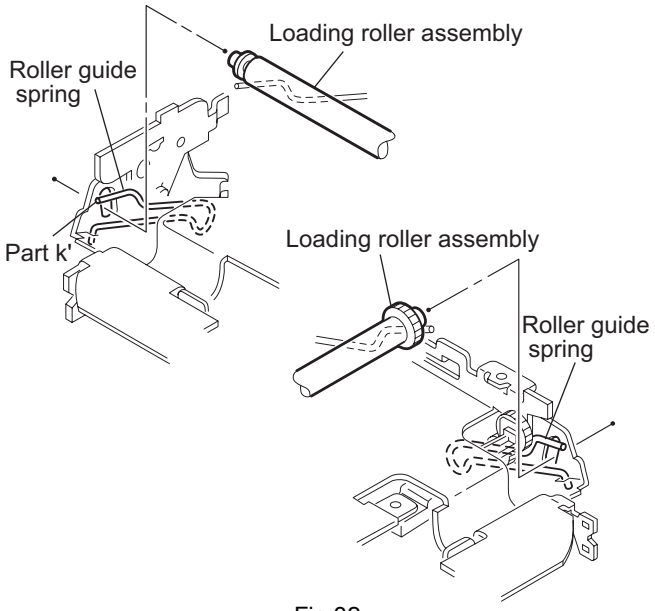


Fig.32

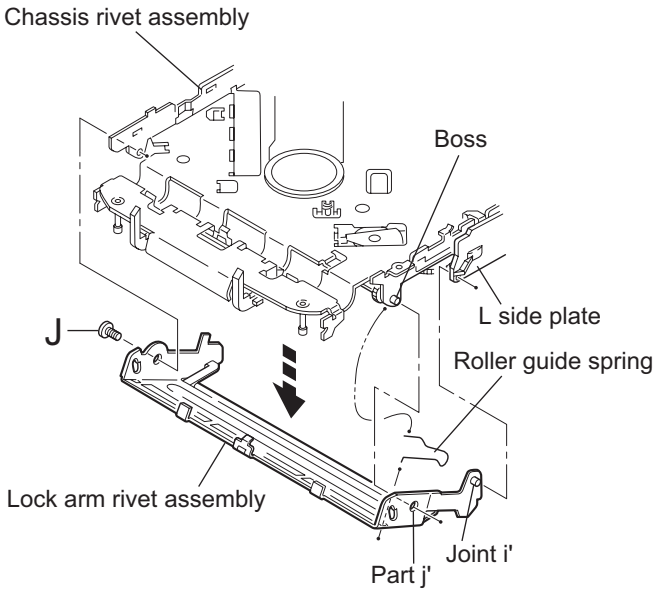


Fig.33

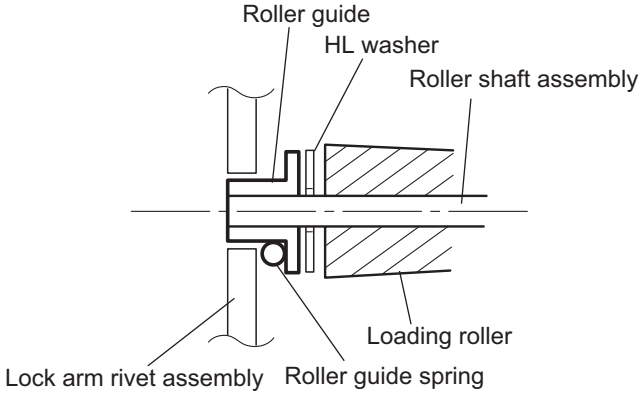


Fig.34

3.2.16 Removing the loading gear 5, 6 and 7 (See Figs.35 and 36)

- Prior to performing the following procedure, remove the top cover, chassis unit, pickup unit and top plate assembly.
  (1) Remove the screw **K** attaching the loading gear bracket. The loading gear 6 and 7 come off the loading gear bracket.
  (2) Pull out the loading gear 5.

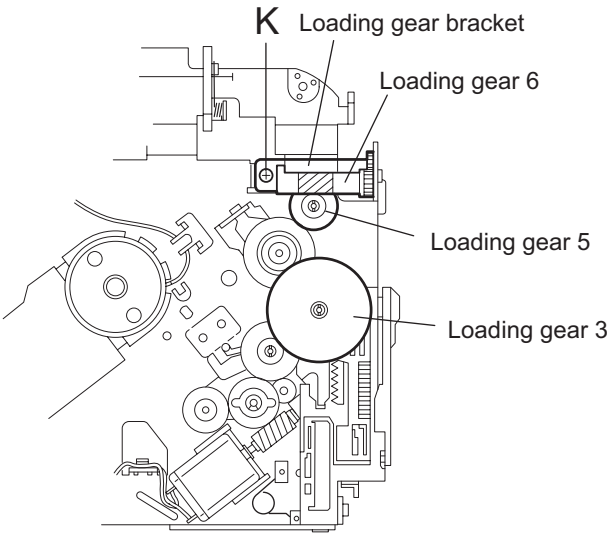


Fig.35

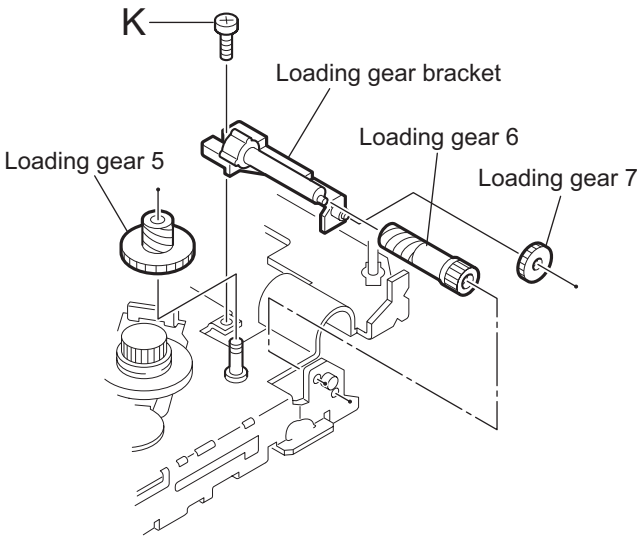


Fig.36

3.2.17 Removing the gears
(See Figs.37 to 40)

- Prior to performing the following procedure, remove the top cover, chassis unit, top plate assembly and pickup unit.
- Pull out the loading gear 3. (See Fig.35.)
  (1) Pull out the feed gear.
  (2) Move the loading plate assembly in the direction of the arrow to release the L side plate from the two slots m' of the chassis rivet assembly. (See Fig.37.)
  (3) Detach the loading plate assembly upward from the chassis rivet assembly while releasing the joint **n'**. Remove the slide hook and loading plate spring from the loading plate assembly.
  (4) Pull out the loading gear 2 and remove the change lock lever.
  (5) Remove the E ring and washer attaching the changer gear 2.
  (6) The changer gear 2, change gear spring and adjusting washer come off.
  (7) Remove the loading gear 1.
  (8) Move the change plate rivet assembly in the direction of the arrow to release from the three shafts of the chassis rivet assembly upward. (See Fig.38.)
  (9) Detach the loading gear plate rivet assembly from the shaft of the chassis rivet assembly upward while releasing the joint p'. (See Figs.38 and 40.)
  (10) Pull out the loading gear 4.

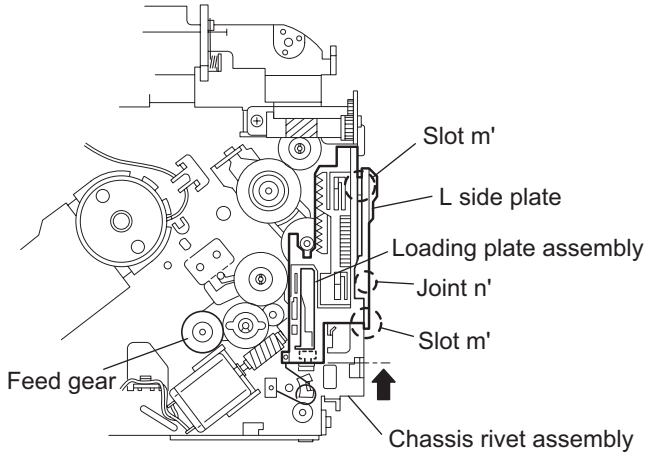


Fig.37

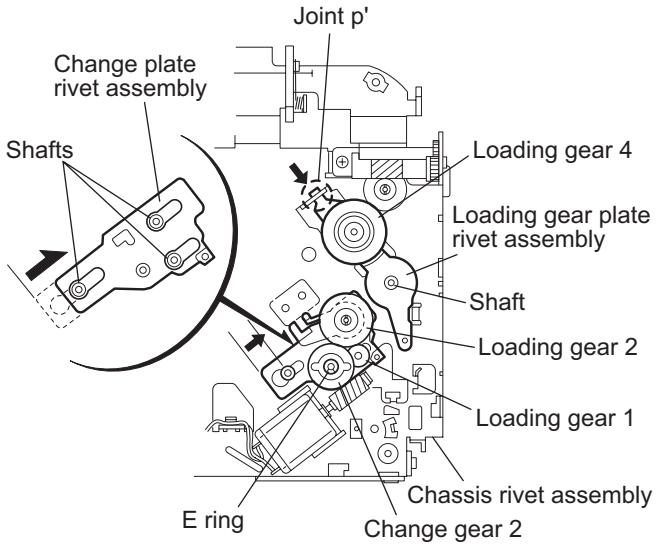


Fig.38

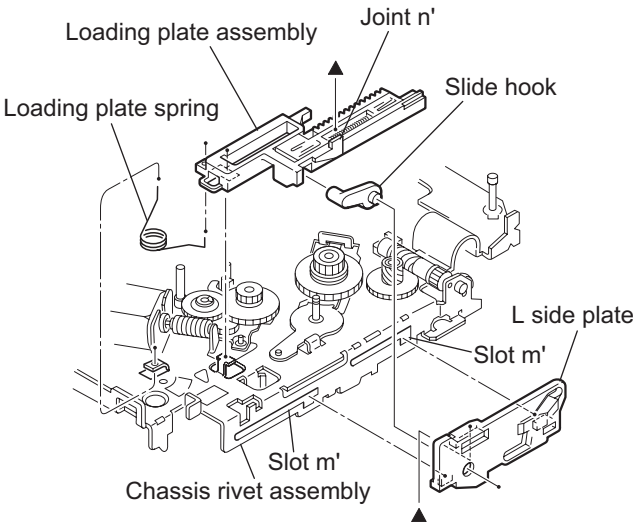


Fig.39

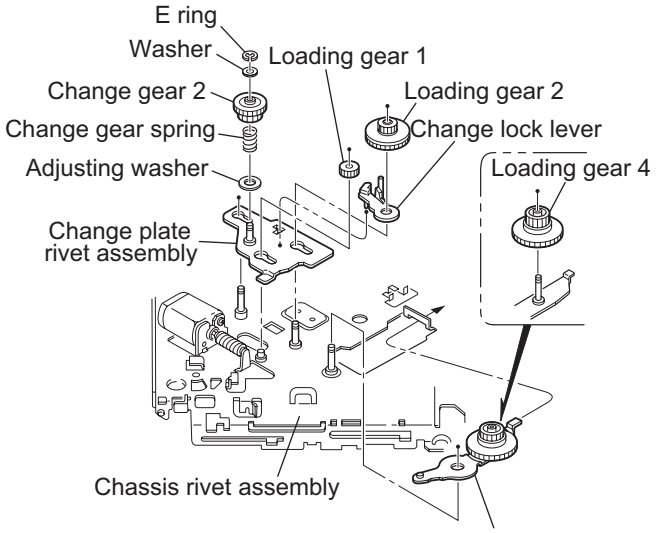


Fig.40

3.2.18 Removing the turn table / spindle motor (See Figs.41 and 42)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and clamper assembly.
  (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
  (2) Unsolder the wire on the connector board if necessary.

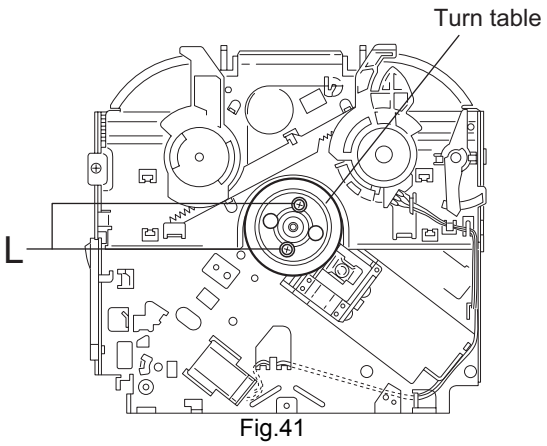


Fig.41

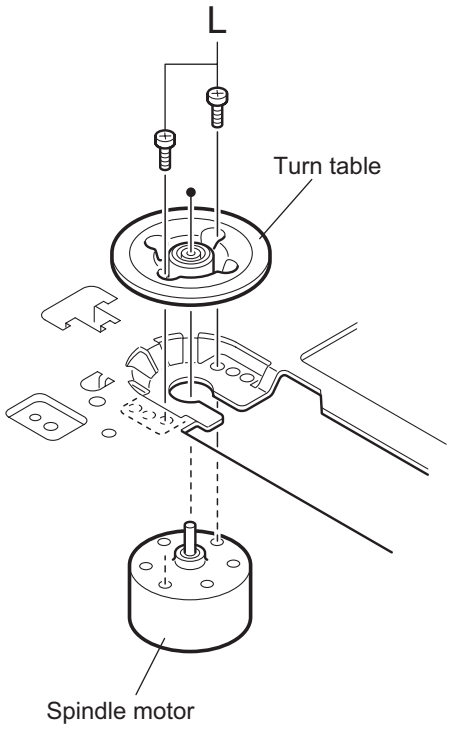


Fig.42

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

■ **Standard measuring conditions**

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

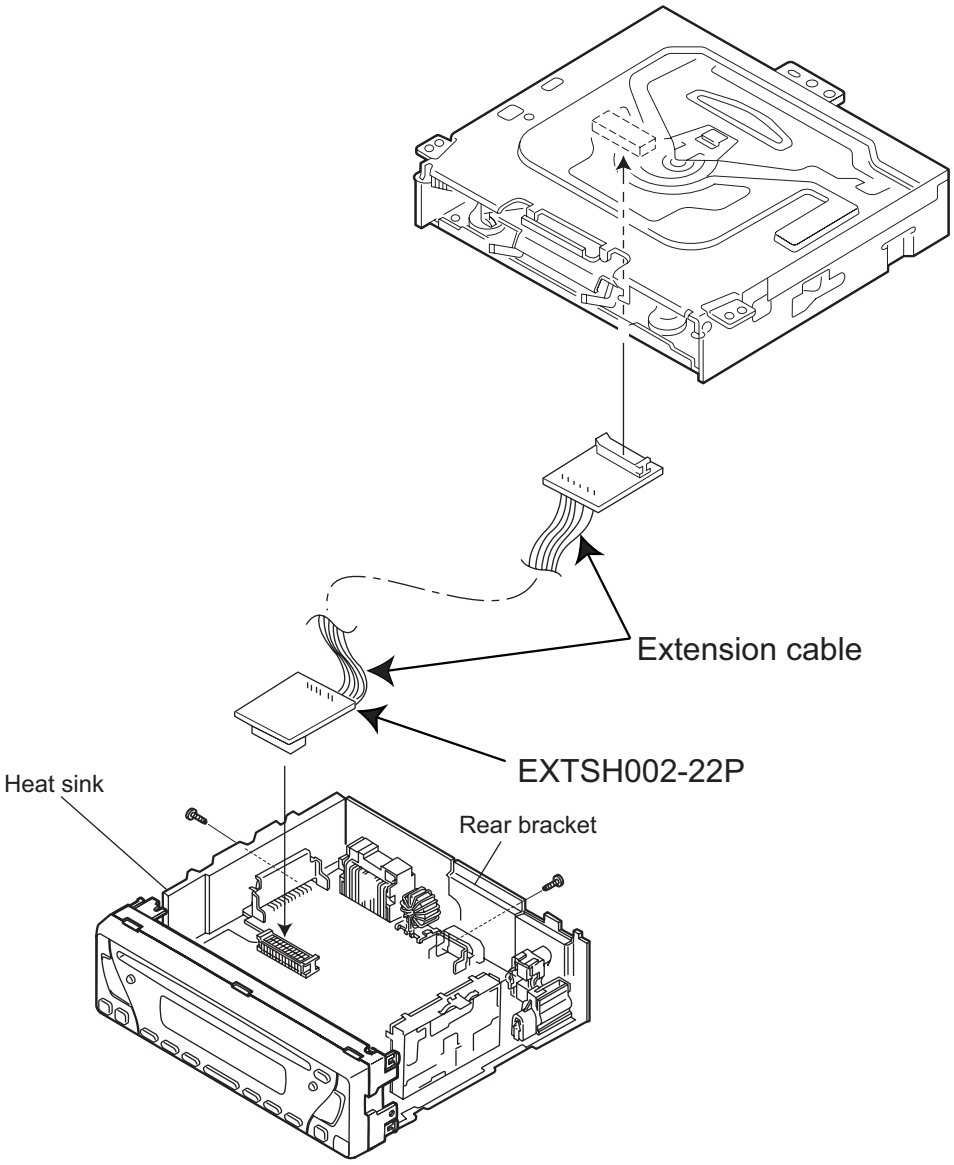
■ **Dummy load**

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.

■ **How to connect the extension cable for adjusting**

Caution:

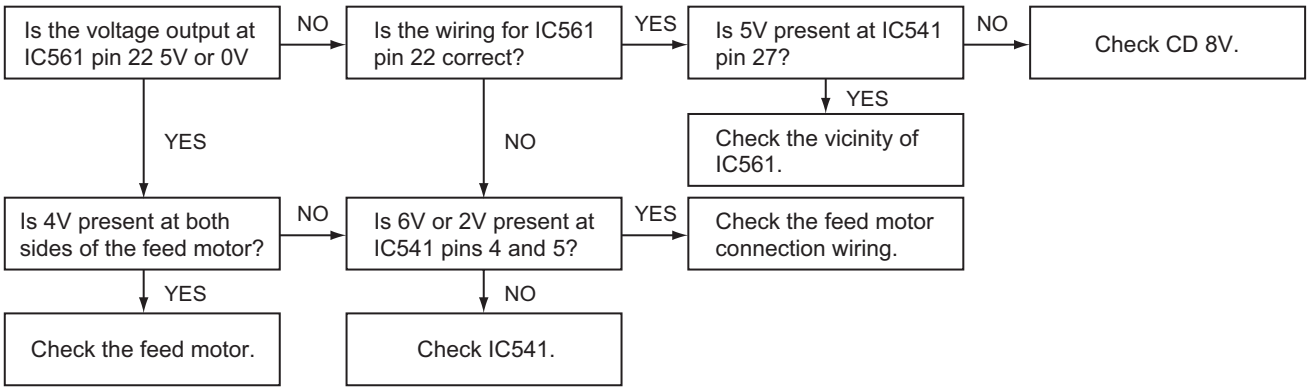
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.



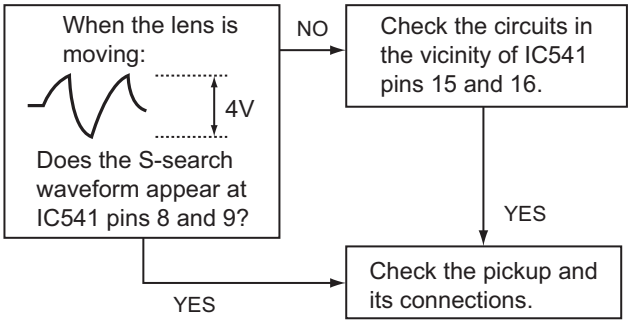
SECTION 5
TROUBLESHOOTING

5.1 KD-G111 E,EX,EY,EU version model

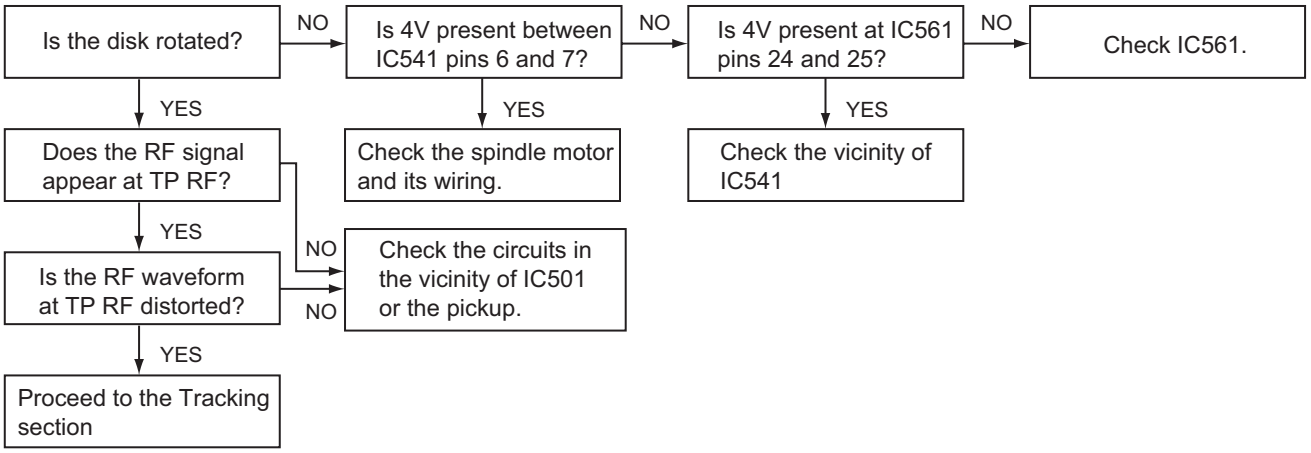
5.1.1 Feed section



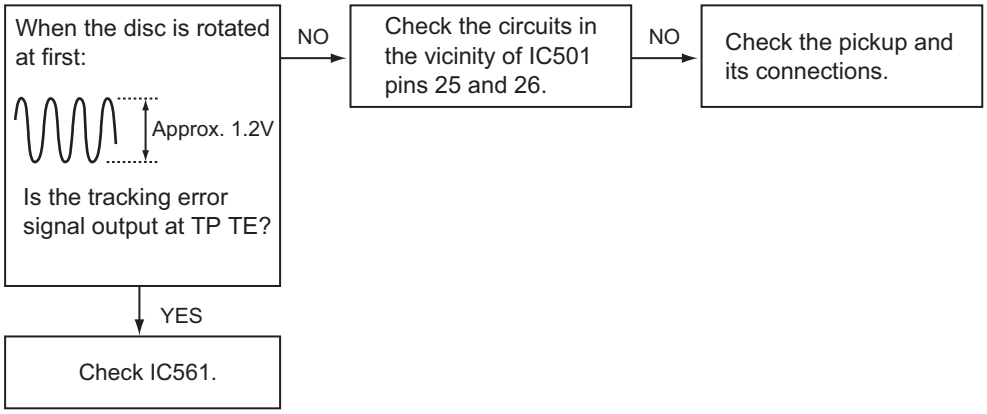
5.1.2 Focus section



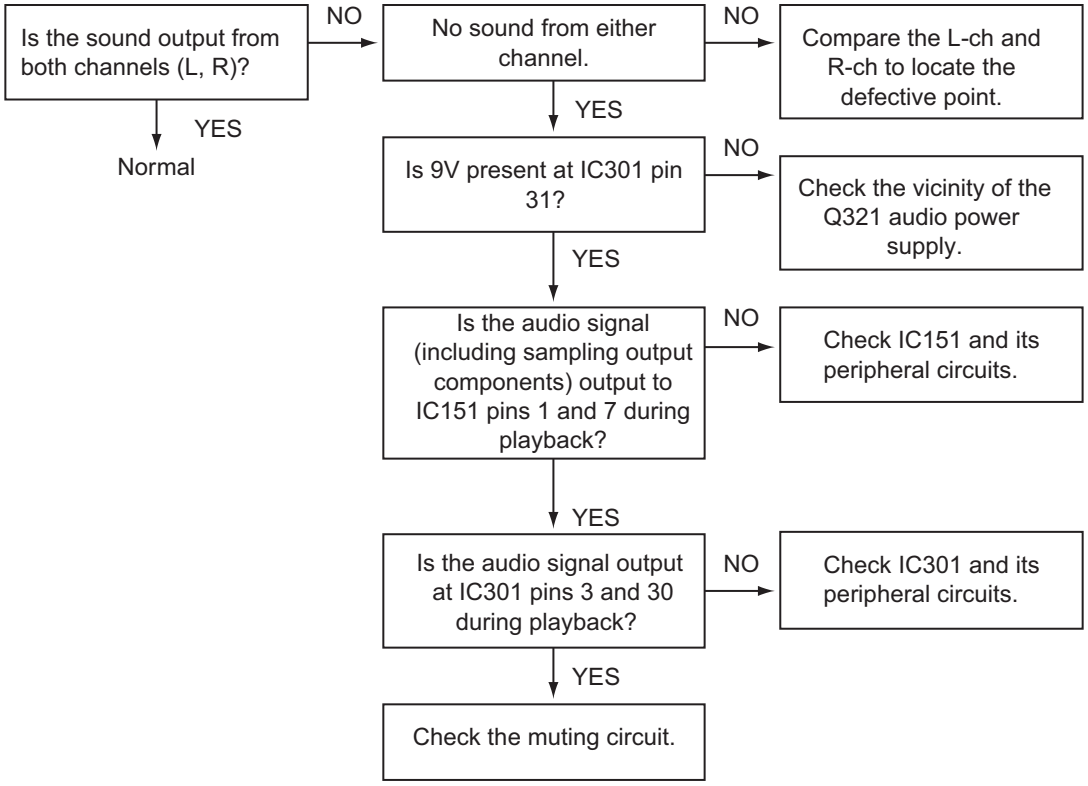
5.1.3 Spindle section



5.1.4 Tracking section

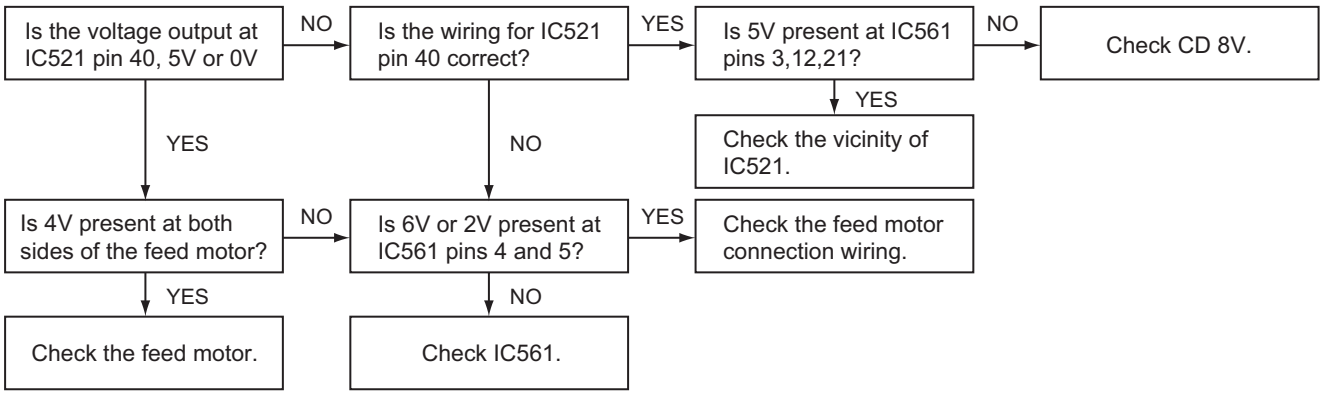


5.1.5 Signal processing section

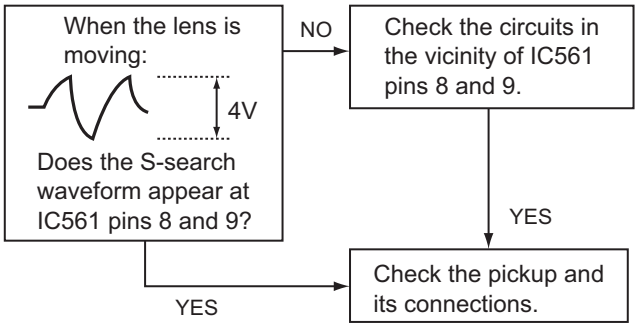


5.2 KD-G111 E2,EX2,EY2,EU2 and KD-G117 EE,EE2 version model

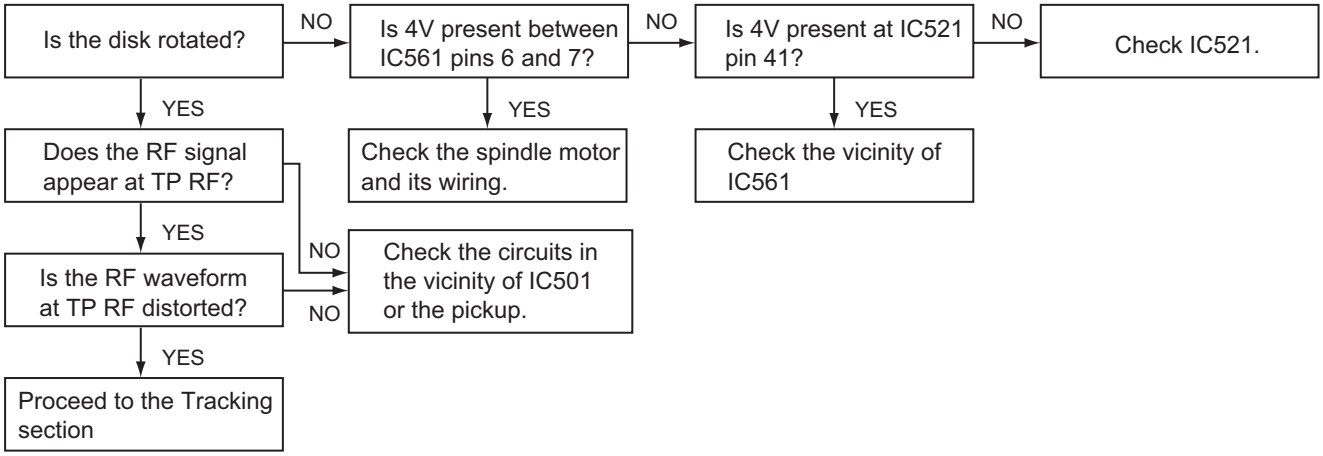
5.2.1 Feed section



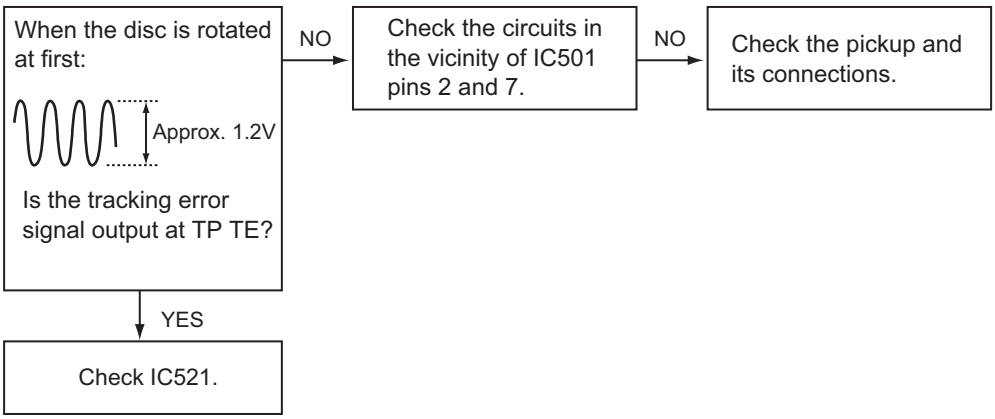
5.2.2 Focus section



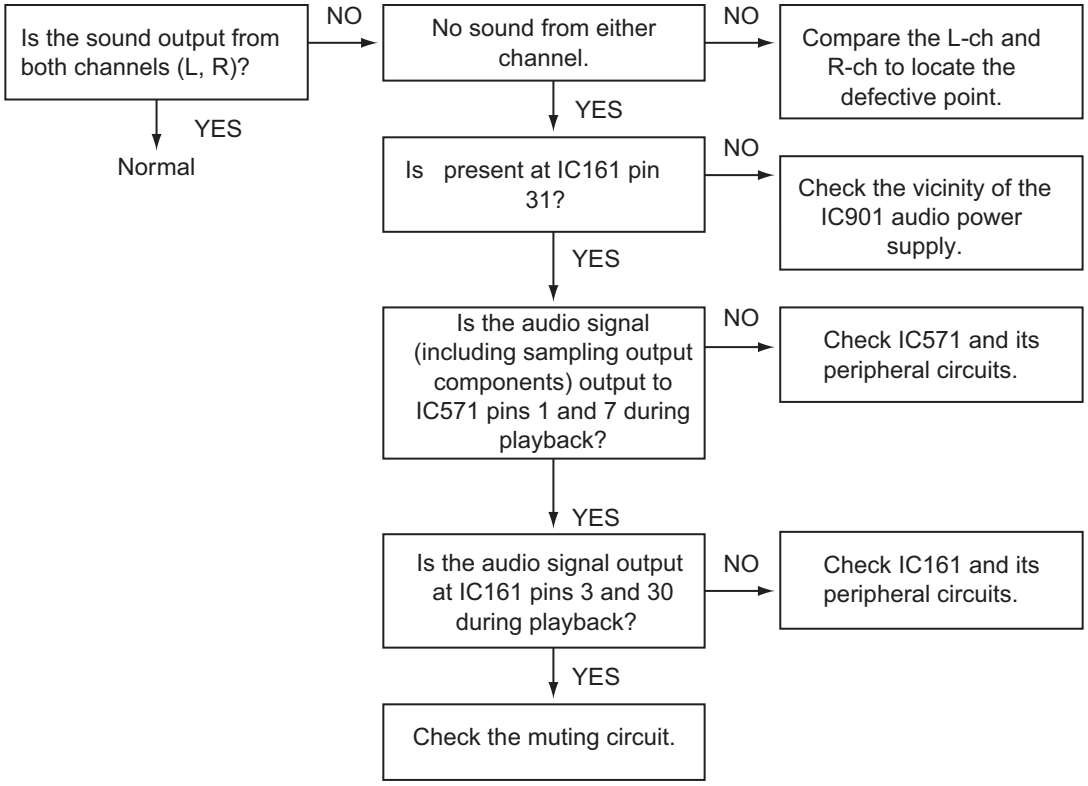
5.2.3 Spindle section



5.2.4 Tracking section



5.2.5 Signal processing section

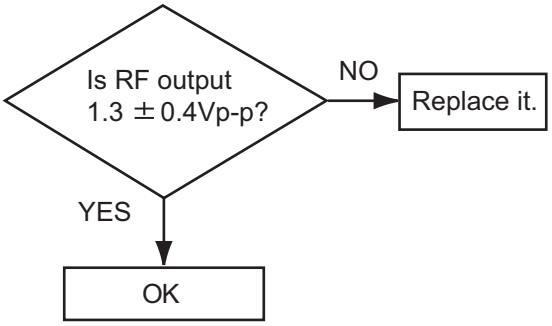


5.3 Maintenance of laser pickup

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

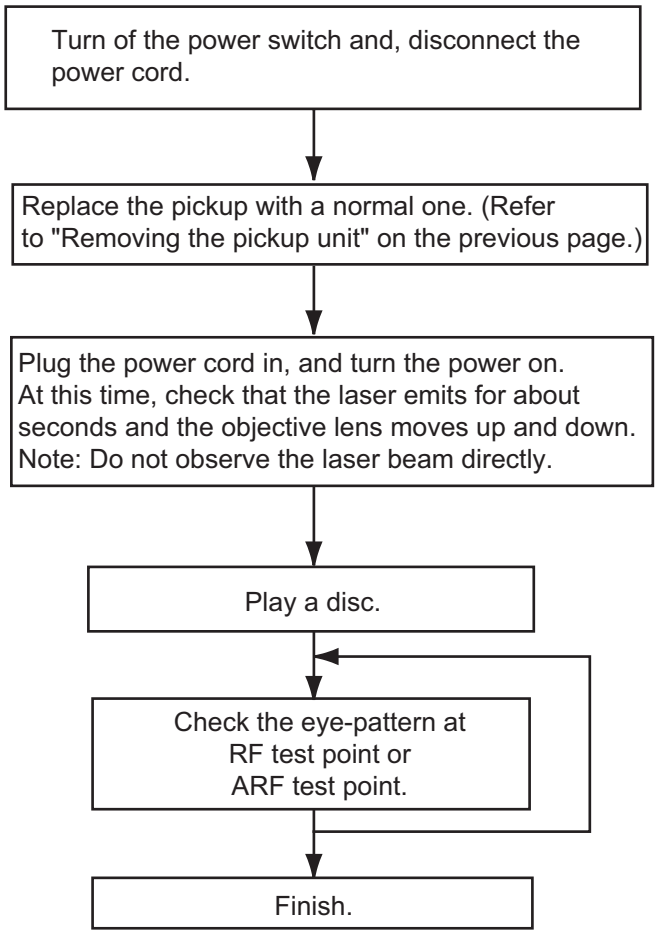
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

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

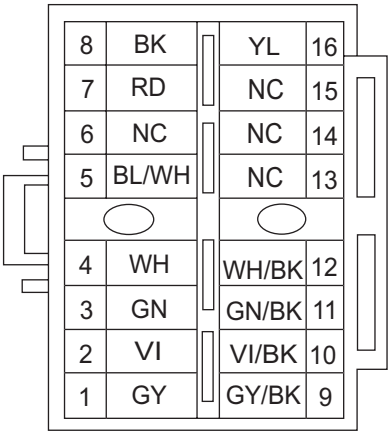


(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.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

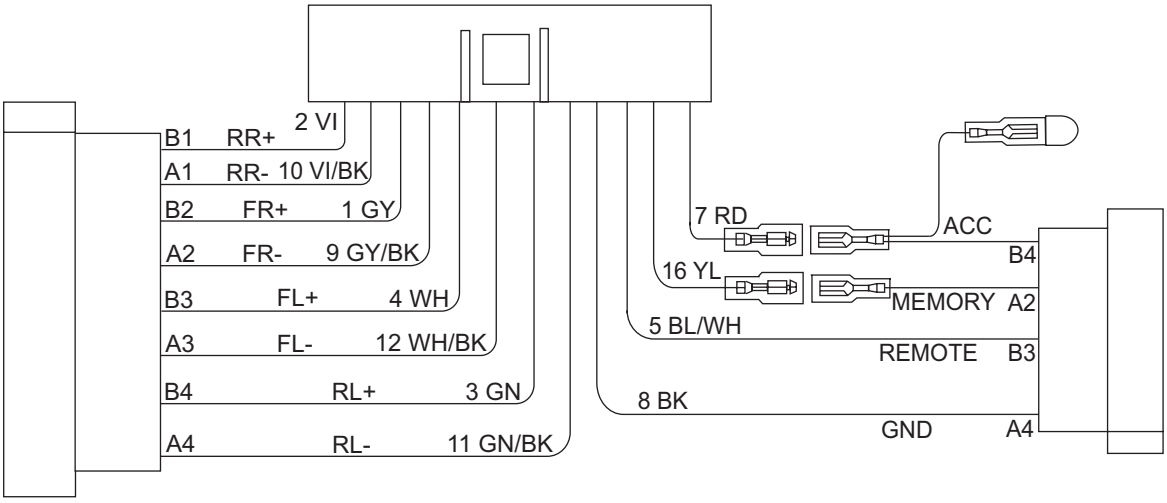
5.4 Replacement of laser pickup

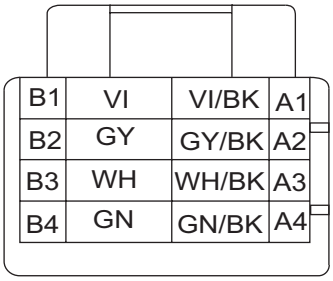


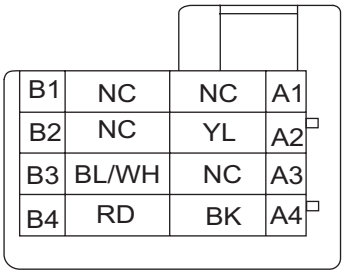
5.5 16 PIN CORD DIAGRAM (KD-G111)



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

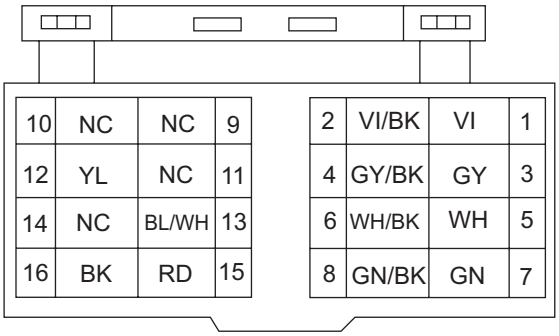






RR	Rear Right	REMOTE	Remote out
FR	Front Right	ACC	ACC Line
FL	Front Left	MEMORY	Memory Backup Battery+
RL	Rear Left	GND	Ground

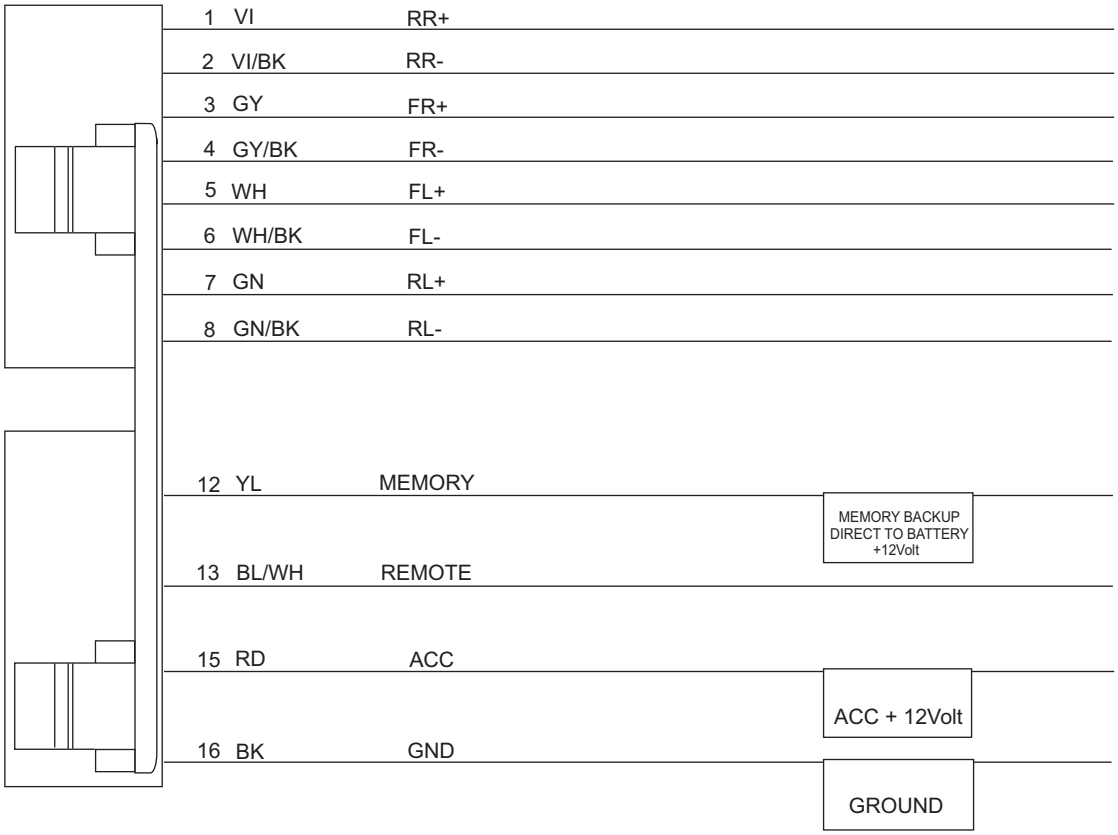
5.6 16 PIN CORD DIAGRAM (KD-G117)



10	NC	NC	9
12	YL	NC	11
14	NC	BL/WH	13
16	BK	RD	15

2	VI/BK	VI	1
4	GY/BK	GY	3
6	WH/BK	WH	5
8	GN/BK	GN	7

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	TEL	Telephone Muting
RL	Rear Left	GND	Ground
REMOTE	Remote	MEMORY	Memory Backup Battery+

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY CAR ELECTRONICS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA125)

Printed in Japan
VPT

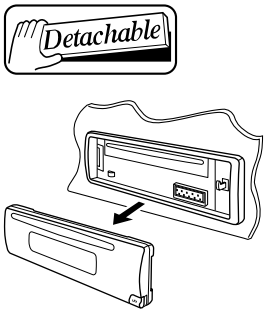
JVC

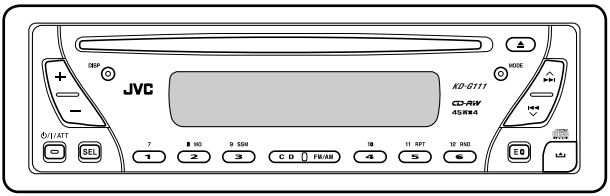
ENGLISH

FRANÇAIS

CD RECEIVER
RECEPTEUR CD

KD-G111





CD-RW

COMPACT disc DIGITAL AUDIO

For canceling the display demonstration, see page 7.
Pour annuler la démonstration des affichages, référez-vous à la page 7.

For installation and connections, refer to the separate manual.
Pour l'installation et les raccordements, se référer au manuel séparé.

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

GET0253-003A
[EX/EU]

ENGLISH

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. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

Warning:

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

How to reset your unit

- *This will reset the microcomputer. 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 a disc cannot be recognized by the receiver or cannot be ejected, ejects the disc as follows.

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

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

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

Contents

ENGLISH

***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.

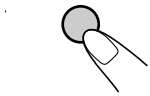
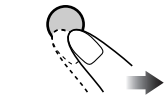
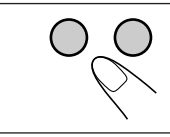
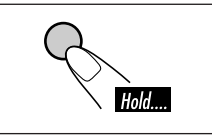
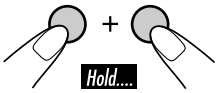
***Temperature inside the car....**

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.

How to read this manual

The following methods are used to made the explanations simple and easy-to-understand:

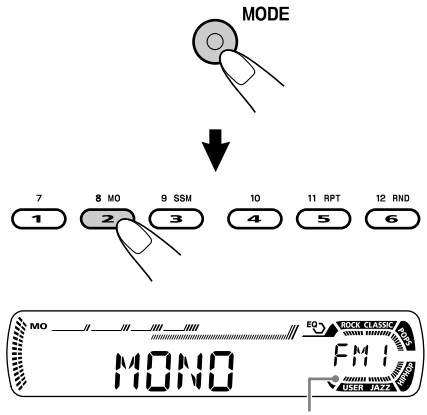
- Some related tips and notes are explained in "More about this receiver" (see page 17).
- Button operations are mainly explained with the illustrations as follows:

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

How to use the MODE button

If you press MODE, the receiver goes into functions mode, then the number buttons work as different function buttons.

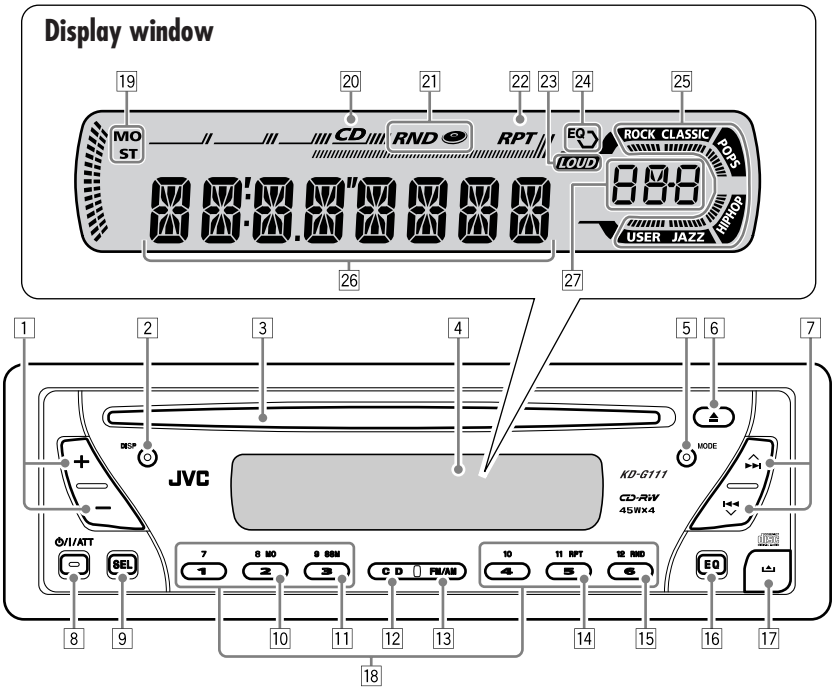
Ex.: When number button 2 works as MO (monaural) button.



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

- Pressing MODE again also clears the functions mode.

Parts identification



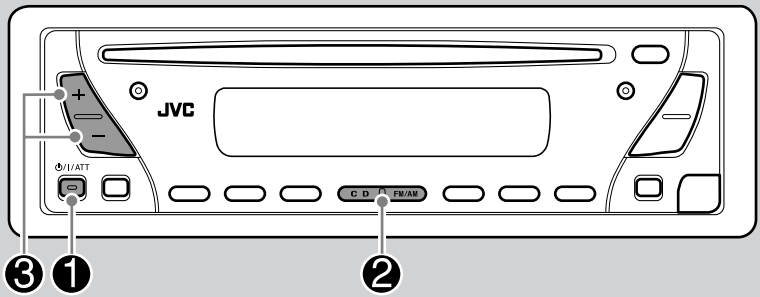
1 +/– buttons
2 DISP (display) button
3 Loading slot
4 Display window
5 MODE button
6 ⏏ (eject) button
7 ∧ ►►I/I◄◄ ∨ buttons
8 ⏻/I/ATT (standby/on/attenuator) button
9 SEL (select) button
10 MO (monaural) button
11 SSM (Strong-station Sequential Memory) button
12 CD button
13 FM/AM button
14 RPT (repeat) button
15 RND (random) button
16 EQ (equalizer) button
17 ⏏ (control panel release) button
18 Number buttons

Display window

19 Tuner reception indicators
MO (monaural), ST (stereo)
20 CD indicator
21 RND (disc random) indicator
22 RPT (repeat) indicator
23 LOUD (loudness) indicator
24 EQ (equalizer) indicator
25 Sound mode (C-EQ: custom equalizer) indicators
ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER
• *also works as the time countdown indicator.*
26 Main display
27 Source display
Volume level indicator

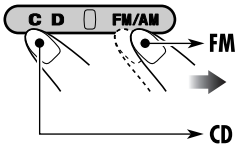
ENGLISH

Basic operations



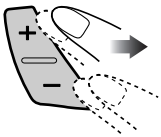
1 ⏻/I/ATT

2 C D FM/AM → FM1/FM2/FM3/AM

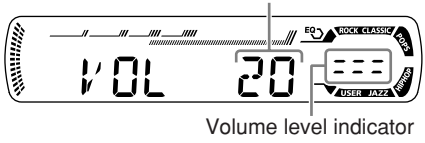


You cannot select "CD" as the playback source if there is no disc in the loading slot.

3



Volume level appears.



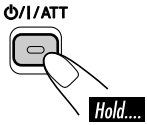
Volume level indicator

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

To drop the volume in a moment (ATT)

To restore the sound, press it again.

To turn off the power



Caution on volume setting:

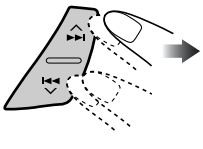
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

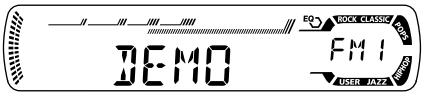
Canceling the display demonstrations

If no operations are done for about 20 seconds, display demonstration starts.
[Initial: DEMO ON]—see page 14.

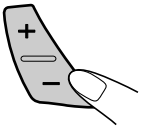
1

2





3

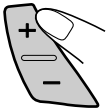


DEMO OFF ↔ DEMO ON

4 **Finish the procedure.**

To activate the display demonstration

In step **3** above...

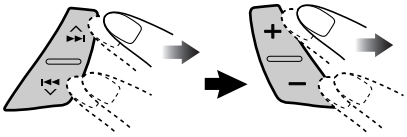


DEMO OFF ↔ DEMO ON

Setting the clock

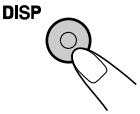
1

2 **Set the hour and minute.**
1 **Select "CLOCK H" (hour), then adjust the hour.**
2 **Select "CLOCK M" (minute), then adjust the minute.**



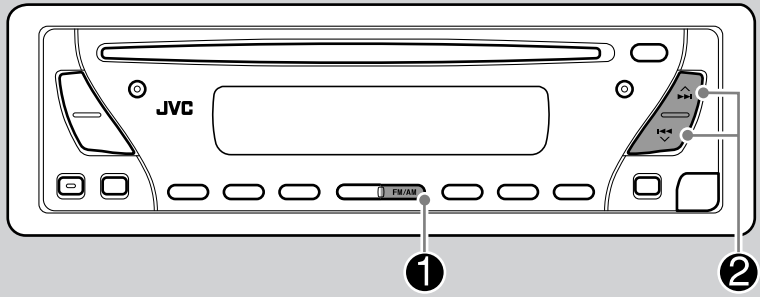
3 **Finish the procedure.**

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

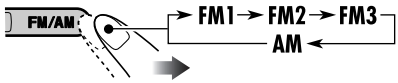


ENGLISH

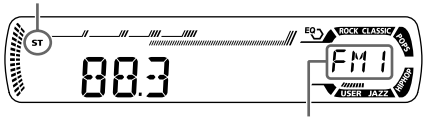
Listening to the radio



1

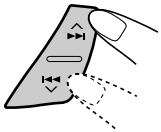


Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

2 **Start searching for a station.**



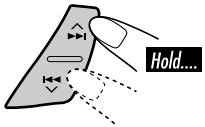
When a station is received, searching stops.

To stop searching, press the same button again.

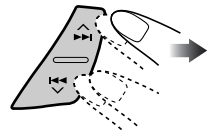
To tune in to a station manually

In step **2** above...

1

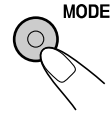


2 **Select the desired station frequencies.**

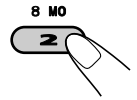


When an FM stereo broadcast is hard to receive

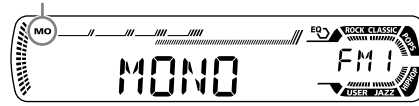
1



2



Lights up when monaural mode is activated.



Reception improves, but stereo effect will be lost.

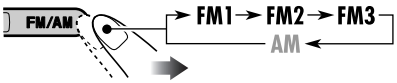
To restore the stereo effect, repeat the same procedure so that the MO indicator goes off.

Storing stations in memory

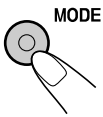
You can preset six stations for each band.

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

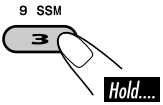
1 **Select the FM band (FM1 – FM3) you want to store into.**



2



3



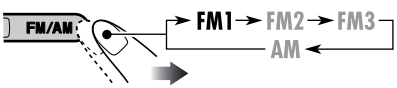
"SSM" flashes, then disappears when automatic presetting is over.

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

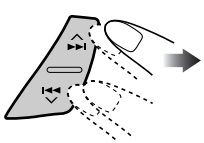
Manual presetting

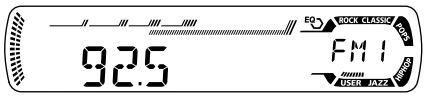
Ex.: Storing FM station of 92.5 MHz into the preset number 4 of the FM1 band.

1

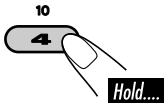


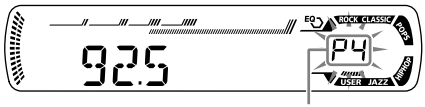
2





3

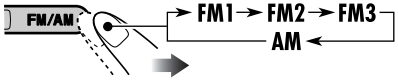




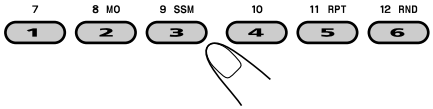
Preset number flashes for a while.

Listening to a preset station

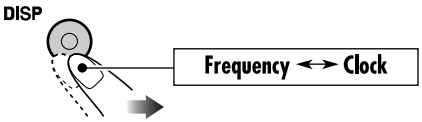
1



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

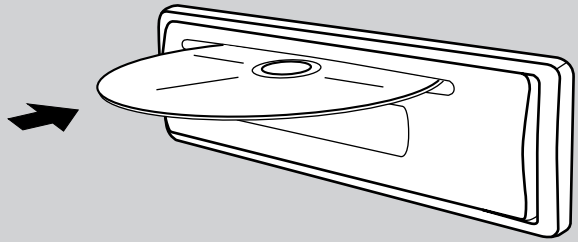


To check the current clock time while listening to an FM or AM station

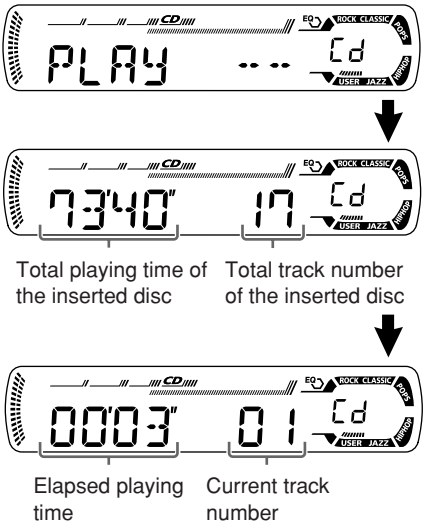


ENGLISH

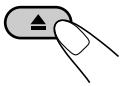
Playing a disc



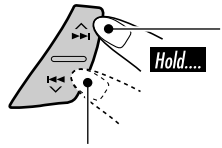
All tracks will be played repeatedly until you stop playback.



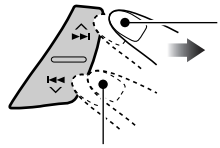
To stop play and eject the disc



To fast-forward or reverse the track

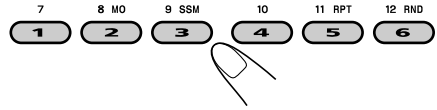


To go to the next or previous tracks

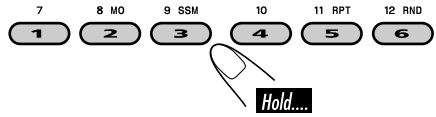


To go to a particular track directly

To select a number from 01 – 06:

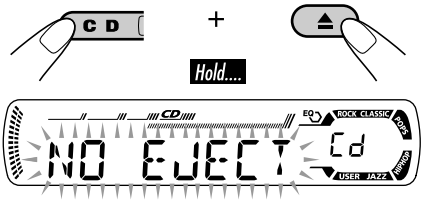


To select a number from 07 – 12:



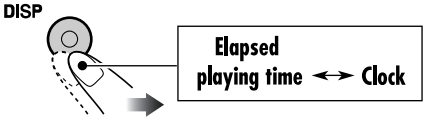
Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

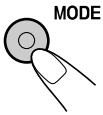
To check the current clock time while listening to a disc



Selecting the playback modes

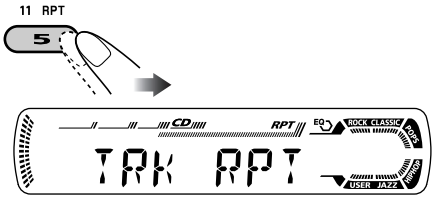
You can use only one of the following playback modes at a time.

1



2 **Select your desired playback mode.**

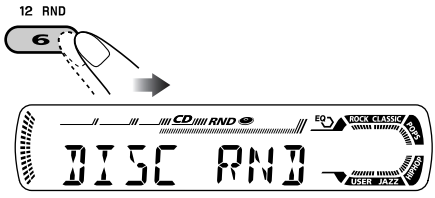
Repeat play



Ex.: When “TRK RPT” is selected

Mode	Plays repeatedly
TRK RPT:	The current track. • RPT lights up.
RPT OFF:	Cancels repeat play.

Random play

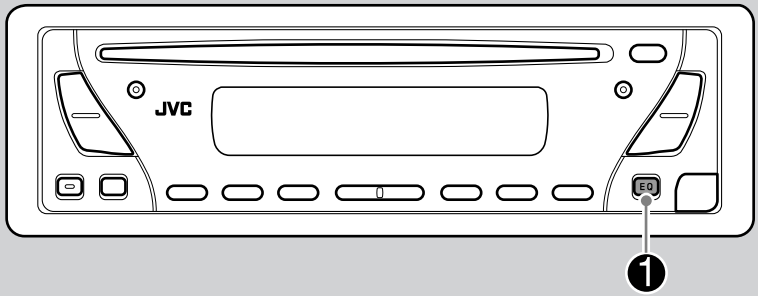


Ex.: When “DISC RND” is selected

Mode	Plays at random
DISC RND:	All tracks of the current disc. • RND lights up.
RND OFF:	Cancels random play.

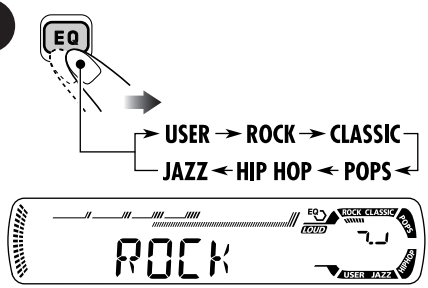
Sound adjustments

Selecting preset sound modes (C-EQ: custom equalizer)



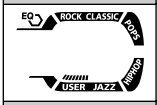
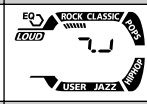
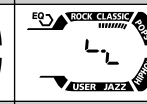
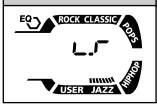
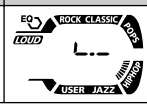
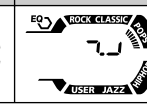
You can select a preset sound mode suitable to the music genre.

1



Ex.: When “ROCK” is selected

Indication pattern for each sound mode:

USER	ROCK	CLASSIC
		
JAZZ	**HIP HOP**	**POPS**
		

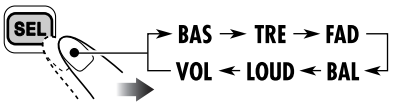
Indication	For:	Preset values		
		BAS*1	TRE*2	LOUD*3
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	–02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

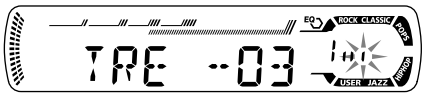
*1 *BAS: Bass*
*2 *TRE: Treble*
*3 *LOUD: Loudness*

Adjusting the sound

You can adjust the sound characteristics to your preference.

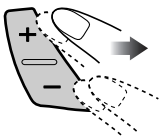
1



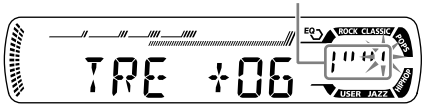


Ex.: When “TRE” is selected

2



Indication pattern changes as you adjust the level.



Indication	To do:	Range
BAS*1 (bass)	Adjust the bass.	–06 (min.) to +06 (max.)
TRE*1 (treble)	Adjust the treble.	–06 (min.) to +06 (max.)
FAD*2 (fader)	Adjust the front and rear speaker balance.	R06 (Rear only) to F06 (Front only)
BAL (balance)	Adjust the left and right speaker balance.	L06 (Left only) to R06 (Right only)
LOUD*1 (loudness)	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON ⬍ LOUD OFF
VOL*3 (volume)	Adjust the volume.	00 (min.) to 30 or 50 (max.)*4

*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 *Normally the +/– buttons work as the volume control. So you do not have to select “VOL” to adjust the volume level.*

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

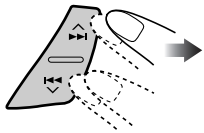
General settings — PSM

Basic procedure

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

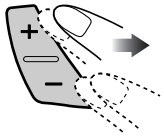
1

2 **Select a PSM item.**



Ex.: When you select “AMP GAIN”

3 **Adjust the PSM item selected.**



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

5 **Finish the procedure.**

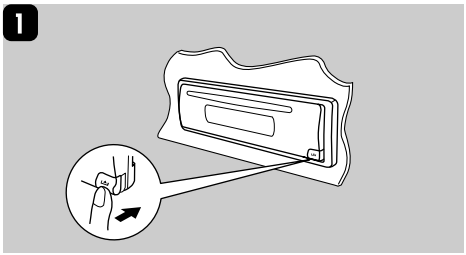
Indications	Selectable settings, [reference page]
DEMO Display demonstration	**DEMO ON:** *[Initial];* Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. **DEMO OFF:** Cancels.
CLOCK H Hour adjustment	0 – 23, [7] *[Initial: 0 (0:00)]*
CLOCK M Minute adjustment	00 – 59, [7] *[Initial: 00 (0:00)]*
AMP GAIN Amplifier gain control	You can change the maximum volume level of this receiver. **LOW PWR:** VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 45 W to prevent them from damaging the speaker.) **HIGH PWR:** *[Initial];* VOL 00 – VOL 50

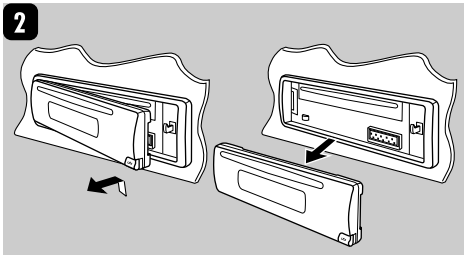
Detaching the control panel

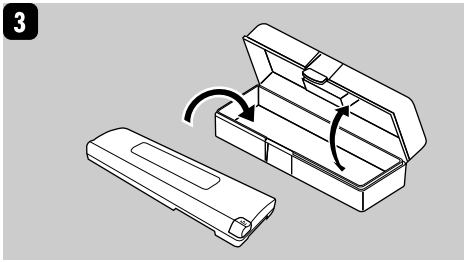
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

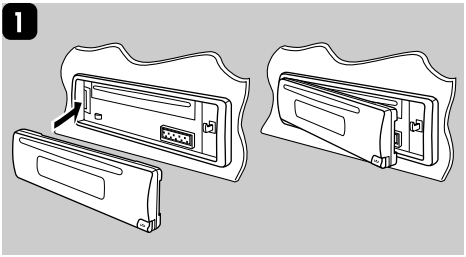
Before detaching the control panel, be sure to turn off the power.

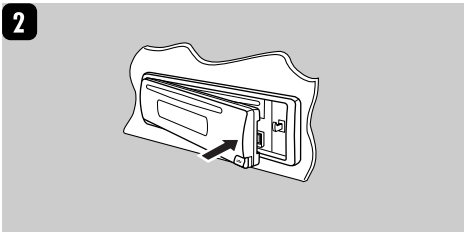






Attaching the control panel

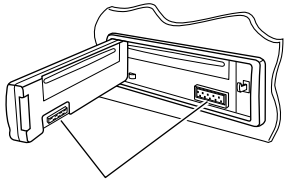




Maintenance

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 receiver turned on for a few hours until the moisture evaporates.

How to handle discs

Center holder

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, benzine, 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 receiver 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 receiver

Basic operations

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, a previously preset station is erased when a new station is stored in the same preset number.

Disc operations

General

- This receiver has been designed to reproduce CDs, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA) format.
- When a disc has been loaded, selecting "CD" 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 CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This receiver 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 receiver because of their disc characteristics, and for the following causes:
  – Discs are dirty or scratched.
  – Moisture condensation occurs on the lens inside the receiver.
  – The pickup lens inside the receiver is dirty.
  – CD-R or CD-RW on which the files are written with "Packet Write" method.
  – There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, 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 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 humidity may cause malfunctions or damage to discs.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select "CD" 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 prevent 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 receiver automatically changes the volume level to "VOL 30."

Troubleshooting

ENGLISH

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

	Symptoms	Causes	Remedies
General	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• The receiver does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the receiver (see page 2).
FM/AM	• SSM automatic presetting does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The aerial is not connected firmly.	Connect the aerial firmly.
Disc playback	• Disc automatically ejects.	Disc is inserted upside down.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	Disc is locked.	Unlock the disc (see page 11).
		The CD player may have functioned incorrectly.	Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
	• “NO DISC” appears on the display.	No disc in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:
- Front: 45 W per channel
- Rear: 45 W per channel

Continuous Power Output (RMS):
- Front: 17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
- Rear: 17 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:
2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

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 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

[MW Tuner]
Sensitivity: 20 µV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 µV

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

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.):
1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

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

© 2004 Victor Company of Japan, Limited

1004DTSMDTJEIN

KD-G111

Installation/Connection Manual
Manuel d'installation/raccordement

GET0253-010A
[EX/EU]

1004DTSMDTJEIN
EN, FR

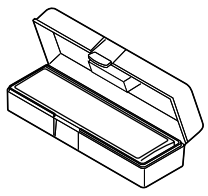
ENGLISH

This receiver 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.

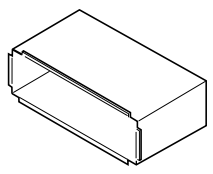
Parts list for installation and connection

The following parts are provided for this receiver.
After checking them, please set them correctly.

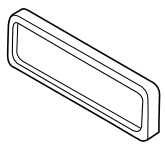
Ⓐ / Ⓑ
Hard case/Control panel
Etui de transport/Panneau de commande



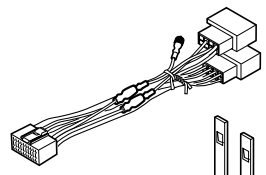
Ⓒ
Sleeve
Manchon



Ⓓ
Trim plate
Plaque d'assemblage



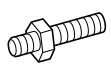
Ⓔ
Power cord
Cordon d'alimentation



Ⓕ
Washer (ø5)
Rondelle (ø5)

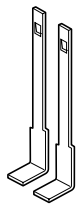
Ⓖ
Lock nut (M5)
Ecrou d'arrêt (M5)

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



Ⓘ
Rubber cushion
Amortisseur en caoutchouc

Ⓙ
Handles
Poignées

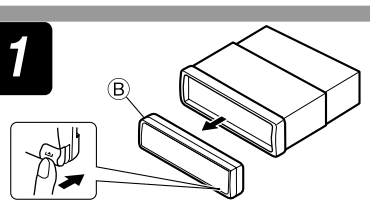


INSTALLATION (IN-DASH MOUNTING)

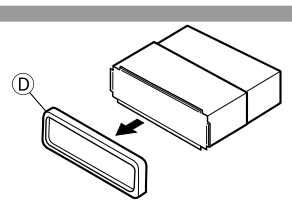
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

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

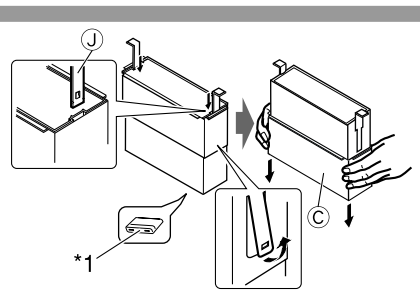
1



2



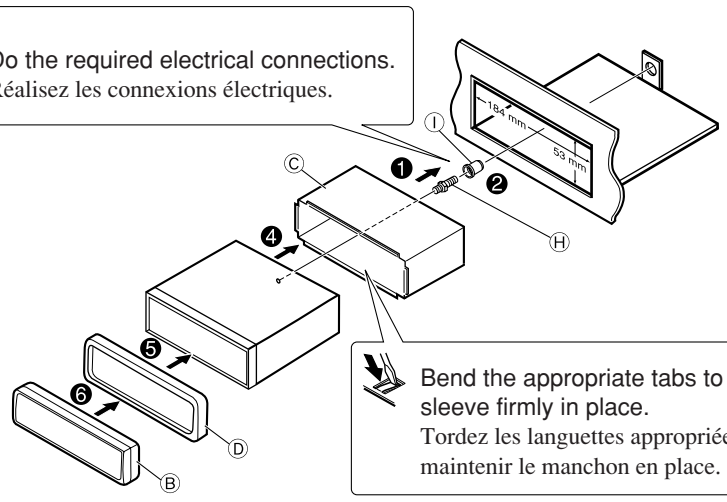
3



*1 When you stand the receiver, be careful not to damage the fuse on the rear.
*1 Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.

4

❸ Do the required electrical connections.
Réalisez les connexions électriques.

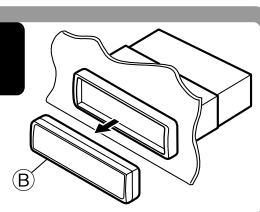


Bend the appropriate tabs to hold the sleeve firmly in place.
Tordez les languettes appropriées pour maintenir le manchon en place.

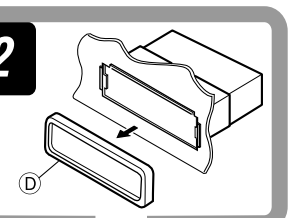
Removing the receiver / Retrait de l'appareil

Before removing the receiver, release the rear section.
Avant de retirer l'appareil, libérer la section arrière.

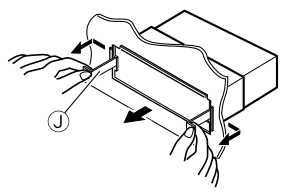
1



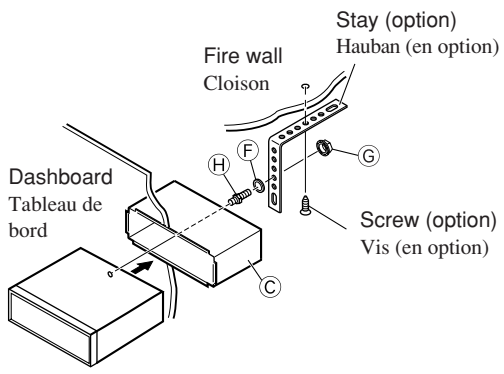
2

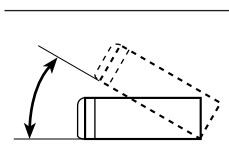


3 Insert the two handles, then pull them as illustrated so that the receiver can be removed.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.



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

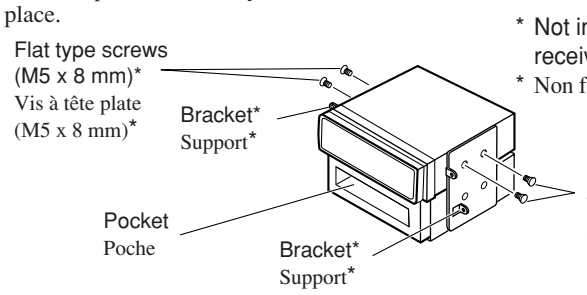




Install the receiver at an angle of less than 30˚.
Installez l'appareil avec un angle de moins de 30˚.

When installing the receiver without using the sleeve / Lors de l'installation de l'appareil scans utiliser de manchon

In a Toyota for example, first remove the car radio and install the receiver in its place.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.



* Not included with this receiver.
* Non fourni avec cet appareil.

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

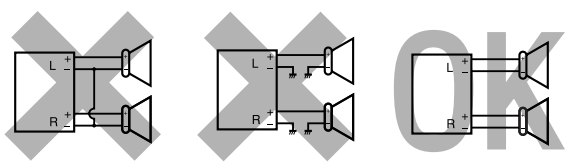
Remarque : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the receiver 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.



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?
- **Receiver becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **This receiver does not work at all.**
* Have you reset your receiver?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* Les fils rouge et noir sont-ils racordés 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?

ENGLISH

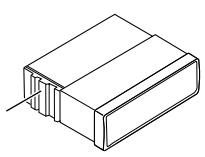
ELECTRICAL CONNECTIONS

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

- **Be sure to ground this receiver 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 45 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 45 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 receiver.



FRANÇAIS

RACCORDEMENTS ELECTRIQUES

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.

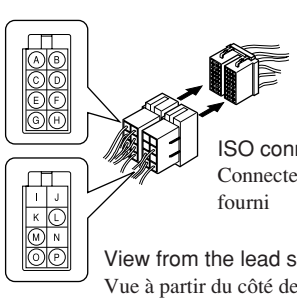
- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

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 45 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 45 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 14 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.

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

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



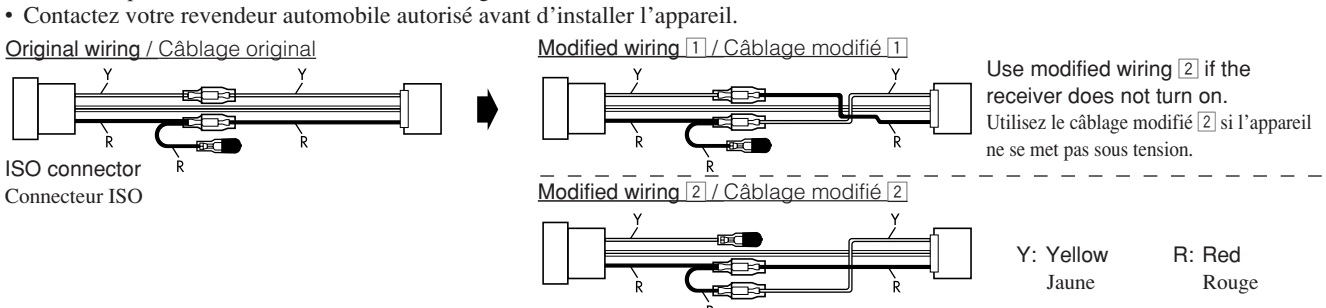
For some VW/Audi or Opel (Vauxhall) automobile / Pour certaine voiture VW/Audi ou Opel (Vauxhall)

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

- Contact your authorized car dealer before installing this receiver.

Vous aurrez 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.



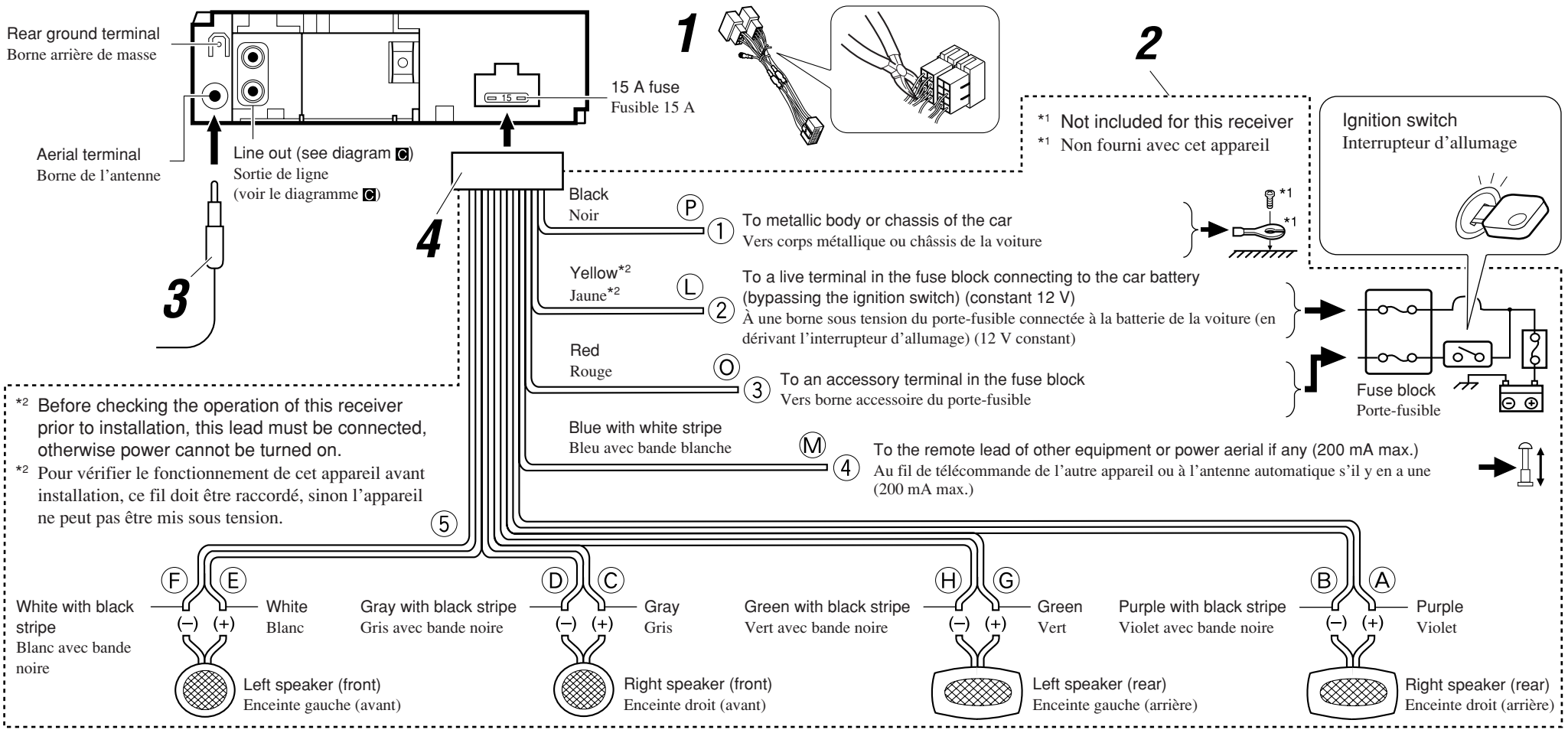
B Connections without using the ISO connectors / Connexions sans l'utilisation des connecteurs ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this receiver.
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 receiver.

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.



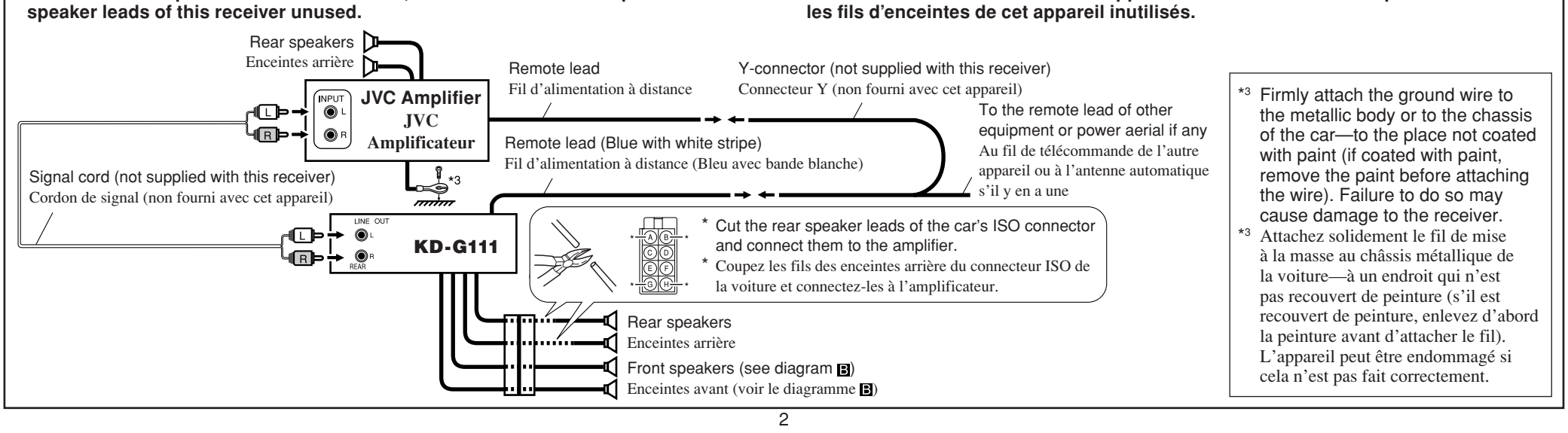
C Connecting the external amplifier / Connexion d'un amplificateur extérieur

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 receiver.
- **Disconnect the speakers from this receiver, connect them to the amplifier. Leave the speaker leads of this receiver 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.**



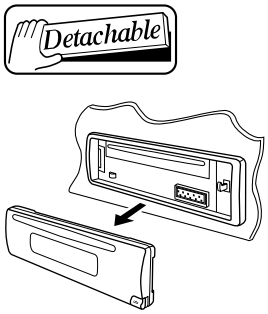
*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the receiver.

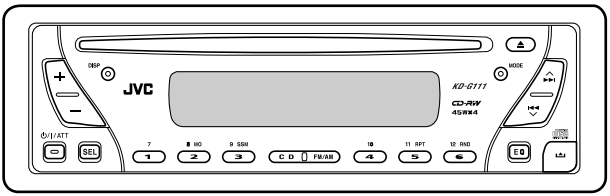
*3 Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.

ENGLISH
DEUTSCH
РУССКИЙ

CD RECEIVER
CD-RECEIVER
РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-G111





CD-RW

COMPACT disc DIGITAL AUDIO

For canceling the display demonstration, see page 7.
Zum Abbrechen der Displaydemonstration siehe Seite 7.
Информацию об отмене демонстрации функций дисплея см. на стр. 7.

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

GET0253-006A
[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. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan iholeesi. (f)

Warning:

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

How to reset your unit

- *This will reset the microcomputer. 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 a disc cannot be recognized by the receiver or cannot be ejected, ejects the disc as follows.

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

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

Contents

ENGLISH

***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.

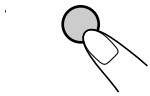
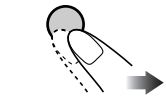
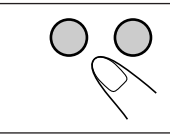
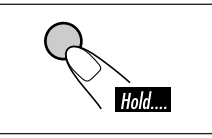
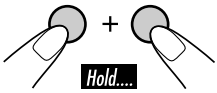
***Temperature inside the car....**

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.

How to read this manual

The following methods are used to made the explanations simple and easy-to-understand:

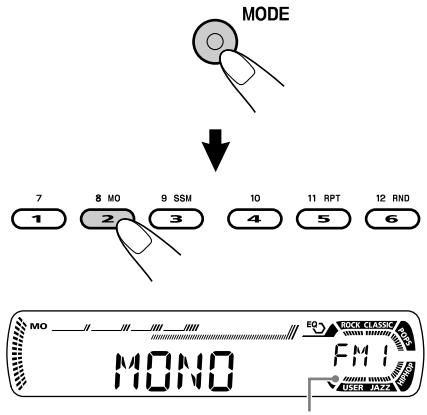
- Some related tips and notes are explained in "More about this receiver" (see page 17).
- Button operations are mainly explained with the illustrations as follows:

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

How to use the MODE button

If you press MODE, the receiver goes into functions mode, then the number buttons work as different function buttons.

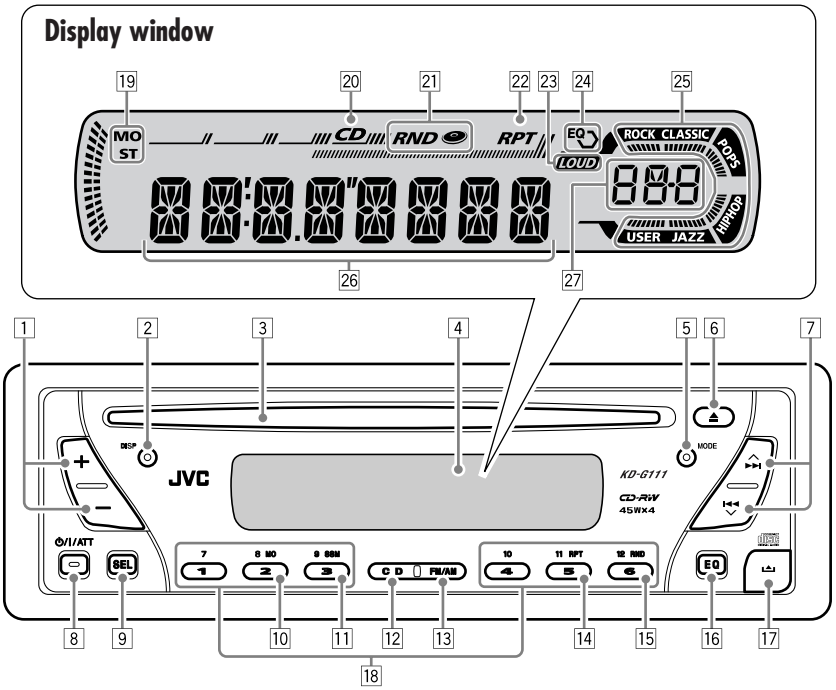
Ex.: When number button 2 works as MO (monaural) button.



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

- Pressing MODE again also clears the functions mode.

Parts identification



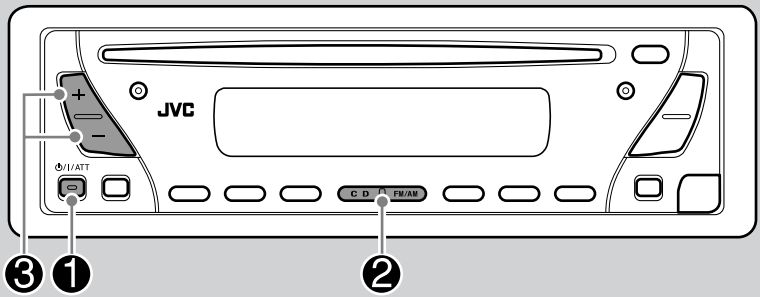
1 +/– buttons
2 DISP (display) button
3 Loading slot
4 Display window
5 MODE button
6 ⏏ (eject) button
7 ∧ ►►I/I◄◄ ∨ buttons
8 ⏻/I/ATT (standby/on/attenuator) button
9 SEL (select) button
10 MO (monaural) button
11 SSM (Strong-station Sequential Memory) button
12 CD button
13 FM/AM button
14 RPT (repeat) button
15 RND (random) button
16 EQ (equalizer) button
17 ⏏ (control panel release) button
18 Number buttons

Display window

19 Tuner reception indicators
MO (monaural), ST (stereo)
20 CD indicator
21 RND (disc random) indicator
22 RPT (repeat) indicator
23 LOUD (loudness) indicator
24 EQ (equalizer) indicator
25 Sound mode (C-EQ: custom equalizer) indicators
ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER
• *also works as the time countdown indicator.*
26 Main display
27 Source display
Volume level indicator

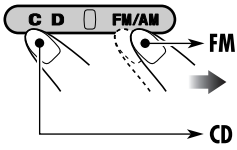
ENGLISH

Basic operations



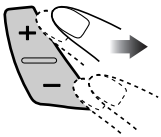
1 ⏻/I/ATT

2 C D FM/AM → FM1/FM2/FM3/AM

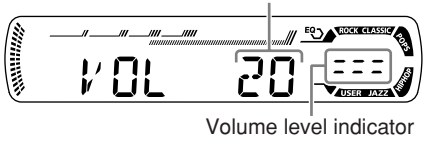


You cannot select "CD" as the playback source if there is no disc in the loading slot.

3



Volume level appears.



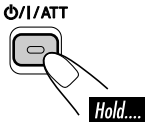
Volume level indicator

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

To drop the volume in a moment (ATT)

To restore the sound, press it again.

To turn off the power



Caution on volume setting:

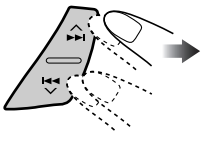
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

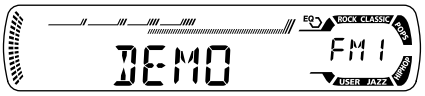
Canceling the display demonstrations

If no operations are done for about 20 seconds, display demonstration starts.
[Initial: DEMO ON]—see page 14.

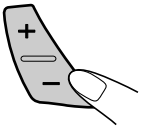
1

2





3

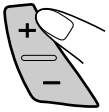


DEMO OFF ↔ DEMO ON

4 **Finish the procedure.**

To activate the display demonstration

In step **3** above...

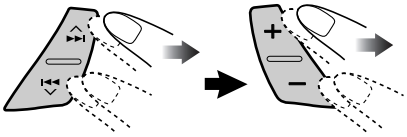


DEMO OFF ↔ DEMO ON

Setting the clock

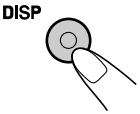
1

2 **Set the hour and minute.**
1 **Select "CLOCK H" (hour), then adjust the hour.**
2 **Select "CLOCK M" (minute), then adjust the minute.**



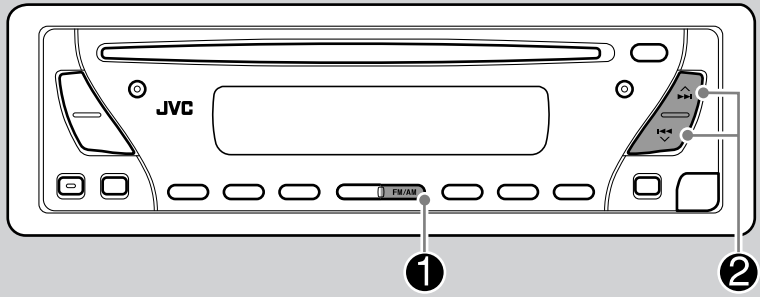
3 **Finish the procedure.**

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

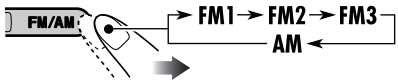


ENGLISH

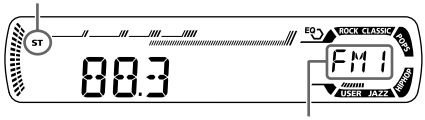
Listening to the radio



1

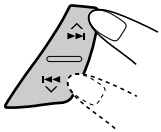


Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

2 **Start searching for a station.**



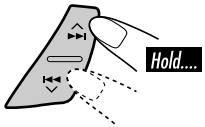
When a station is received, searching stops.

To stop searching, press the same button again.

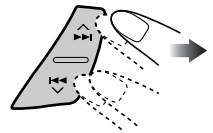
To tune in to a station manually

In step **2** above...

1

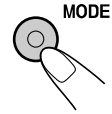


2 **Select the desired station frequencies.**

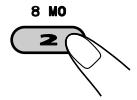


When an FM stereo broadcast is hard to receive

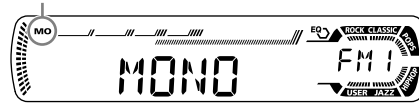
1



2



Lights up when monaural mode is activated.



Reception improves, but stereo effect will be lost.

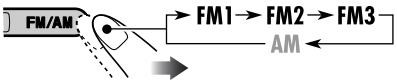
To restore the stereo effect, repeat the same procedure so that the MO indicator goes off.

Storing stations in memory

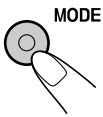
You can preset six stations for each band.

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

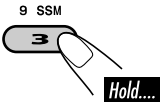
1 **Select the FM band (FM1 – FM3) you want to store into.**



2



3



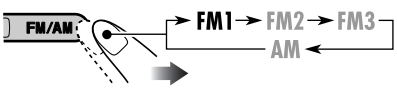
"SSM" flashes, then disappears when automatic presetting is over.

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

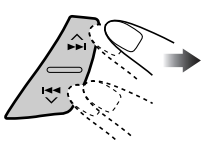
Manual presetting

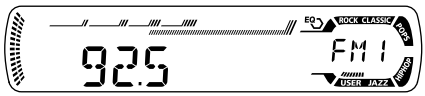
Ex.: Storing FM station of 92.5 MHz into the preset number 4 of the FM1 band.

1

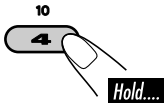


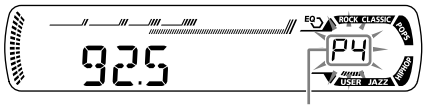
2





3

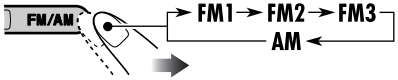




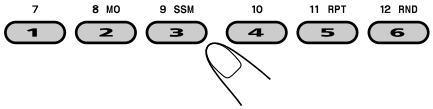
Preset number flashes for a while.

Listening to a preset station

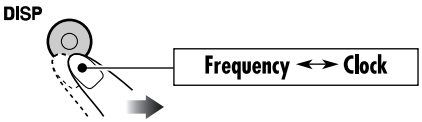
1



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

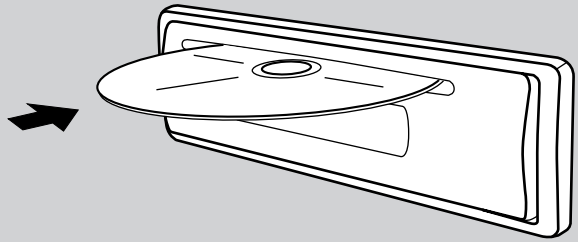


To check the current clock time while listening to an FM or AM station

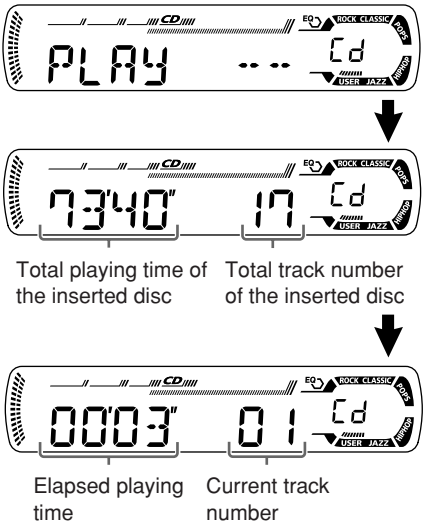


ENGLISH

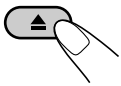
Playing a disc



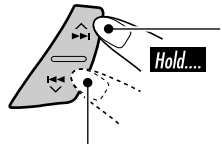
All tracks will be played repeatedly until you stop playback.



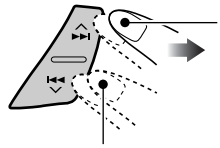
To stop play and eject the disc



To fast-forward or reverse the track

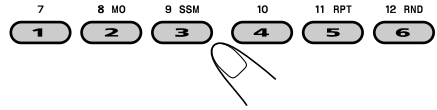


To go to the next or previous tracks

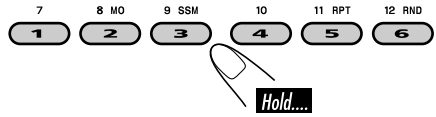


To go to a particular track directly

To select a number from 01 – 06:

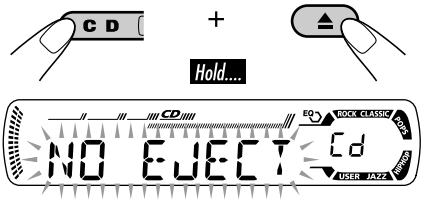


To select a number from 07 – 12:



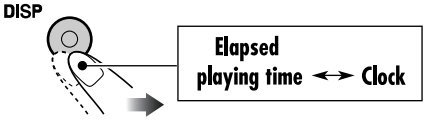
Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

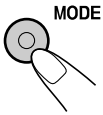
To check the current clock time while listening to a disc



Selecting the playback modes

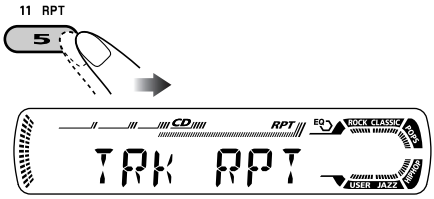
You can use only one of the following playback modes at a time.

1



2 **Select your desired playback mode.**

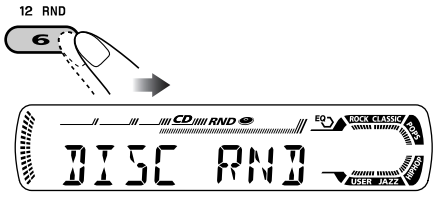
Repeat play



Ex.: When “TRK RPT” is selected

Mode	Plays repeatedly
TRK RPT:	The current track. • RPT lights up.
RPT OFF:	Cancels repeat play.

Random play

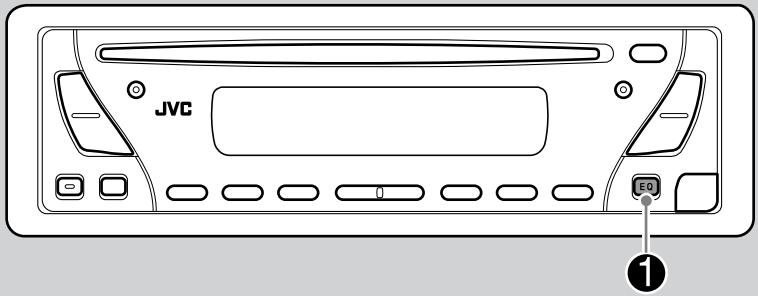


Ex.: When “DISC RND” is selected

Mode	Plays at random
DISC RND:	All tracks of the current disc. • RND lights up.
RND OFF:	Cancels random play.

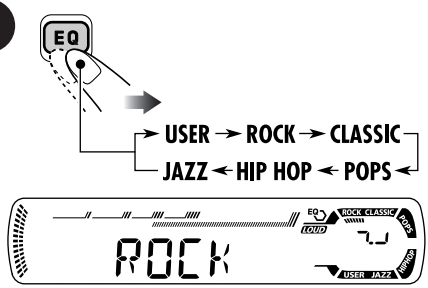
Sound adjustments

Selecting preset sound modes (C-EQ: custom equalizer)



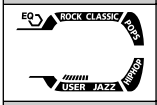
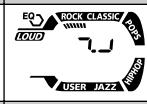
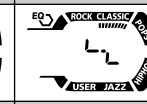
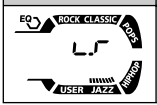
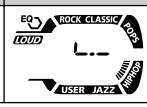
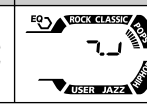
You can select a preset sound mode suitable to the music genre.

1



Ex.: When “ROCK” is selected

Indication pattern for each sound mode:

USER	ROCK	CLASSIC
		
JAZZ	**HIP HOP**	**POPS**
		

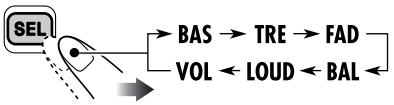
Indication	For:	Preset values		
		BAS*1	TRE*2	LOUD*3
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	–02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

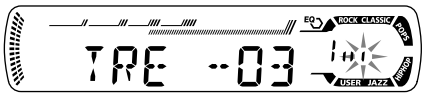
*1 *BAS: Bass*
*2 *TRE: Treble*
*3 *LOUD: Loudness*

Adjusting the sound

You can adjust the sound characteristics to your preference.

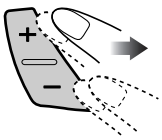
1



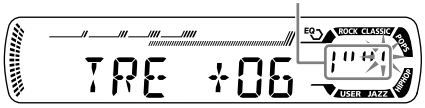


Ex.: When “TRE” is selected

2



Indication pattern changes as you adjust the level.



Indication	To do:	Range
BAS*1 (bass)	Adjust the bass.	–06 (min.) to +06 (max.)
TRE*1 (treble)	Adjust the treble.	–06 (min.) to +06 (max.)
FAD*2 (fader)	Adjust the front and rear speaker balance.	R06 (Rear only) to F06 (Front only)
BAL (balance)	Adjust the left and right speaker balance.	L06 (Left only) to R06 (Right only)
LOUD*1 (loudness)	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON ⬍ LOUD OFF
VOL*3 (volume)	Adjust the volume.	00 (min.) to 30 or 50 (max.)*4

*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 *Normally the +/– buttons work as the volume control. So you do not have to select “VOL” to adjust the volume level.*

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

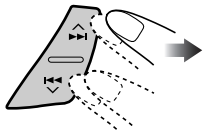
General settings — PSM

Basic procedure

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

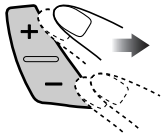
1

2 **Select a PSM item.**



Ex.: When you select “AMP GAIN”

3 **Adjust the PSM item selected.**



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

5 **Finish the procedure.**

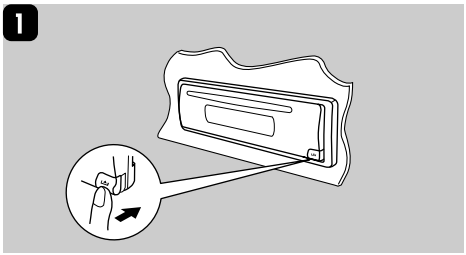
Indications	Selectable settings, [reference page]
DEMO Display demonstration	**DEMO ON:** *[Initial];* Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. **DEMO OFF:** Cancels.
CLOCK H Hour adjustment	0 – 23, [7] *[Initial: 0 (0:00)]*
CLOCK M Minute adjustment	00 – 59, [7] *[Initial: 00 (0:00)]*
AMP GAIN Amplifier gain control	You can change the maximum volume level of this receiver. **LOW PWR:** VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 45 W to prevent them from damaging the speaker.) **HIGH PWR:** *[Initial];* VOL 00 – VOL 50

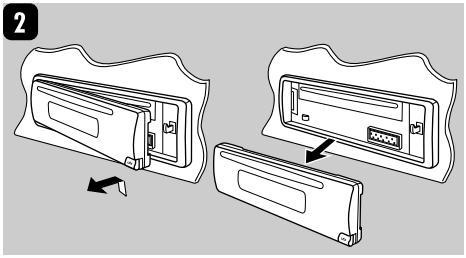
Detaching the control panel

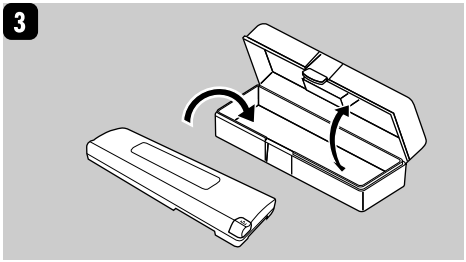
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

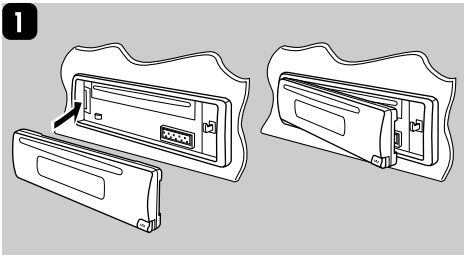
Before detaching the control panel, be sure to turn off the power.

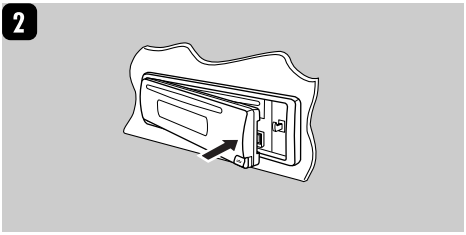






Attaching the control panel

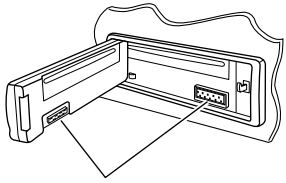




Maintenance

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 receiver turned on for a few hours until the moisture evaporates.

How to handle discs

Center holder

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, benzine, 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 receiver 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 receiver

Basic operations

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, a previously preset station is erased when a new station is stored in the same preset number.

Disc operations

General

- This receiver has been designed to reproduce CDs, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA) format.
- When a disc has been loaded, selecting "CD" 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 CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This receiver 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 receiver because of their disc characteristics, and for the following causes:
  – Discs are dirty or scratched.
  – Moisture condensation occurs on the lens inside the receiver.
  – The pickup lens inside the receiver is dirty.
  – CD-R or CD-RW on which the files are written with "Packet Write" method.
  – There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, 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 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 humidity may cause malfunctions or damage to discs.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select "CD" 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 prevent 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 receiver automatically changes the volume level to "VOL 30."

Troubleshooting

ENGLISH

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

	Symptoms	Causes	Remedies
General	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• The receiver does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the receiver (see page 2).
FM/AM	• SSM automatic presetting does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The aerial is not connected firmly.	Connect the aerial firmly.
Disc playback	• Disc automatically ejects.	Disc is inserted upside down.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	Disc is locked.	Unlock the disc (see page 11).
		The CD player may have functioned incorrectly.	Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
	• “NO DISC” appears on the display.	No disc in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:
- Front: 45 W per channel
- Rear: 45 W per channel

Continuous Power Output (RMS):
- Front: 17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
- Rear: 17 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:
2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

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 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

[MW Tuner]
Sensitivity: 20 µV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 µV

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

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.):
1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

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

© 2004 Victor Company of Japan, Limited

1004DTSMDTJEIN

KD-G111

Installation/Connection Manual
Einbau/Anschlußanleitung
Руководство по установке/подключению

GET0253-013A
[EY]

1004DTSMDTJEIN
EN, GE, RU

ENGLISH

This receiver 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.

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.

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 автомобилнего специалиста JVC.

Parts list for installation and connection

The following parts are provided for this receiver.
After checking them, please set them correctly.

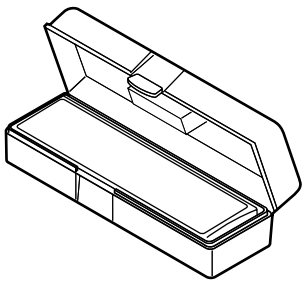
Teileliste für den Einbau und Anschluß

Die folgenden Teile werden zusammen mit diesem Gerät geliefert.
Nach ihrer Überprüfung, die Teile richtig einsetzen.

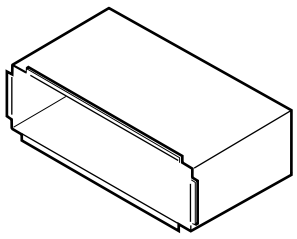
Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством.
После проверки комплектации, пожалуйста, установите их правильно.

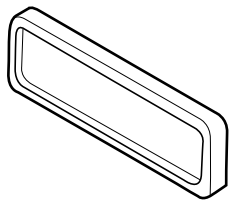
Ⓐ / Ⓑ
Hard case/Control panel
Etui/Schalttafel
Жесткий футляр/панель управления



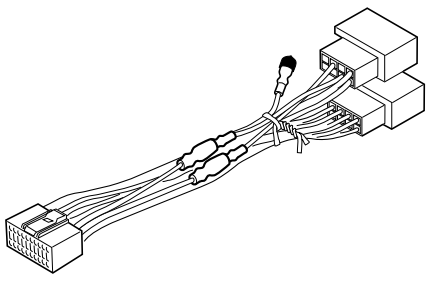
Ⓒ
Sleeve
Halterung
Муфта



Ⓓ
Trim plate
Frontrahmen
Декоративную панель



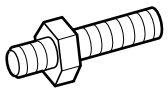
Ⓔ
Power cord
Stromkable
Кабель питания



Ⓕ
Washer (ø5)
Unterlegscheibe (ø5)
Шайба (њ5)

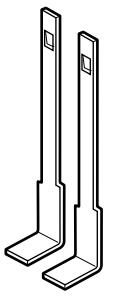
Ⓖ
Lock nut (M5)
Sicherungsmutter (M5)
Фиксирующая гайка (M5)

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



Ⓘ
Rubber cushion
Gummipuffer
Резиновый чехол

Ⓙ
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 receiver correctly, have it installed by a qualified technician.

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.

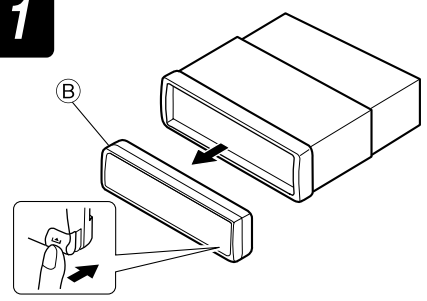
- Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

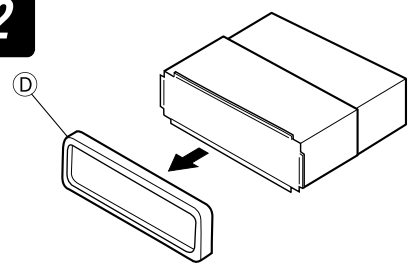
На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобилнего специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

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

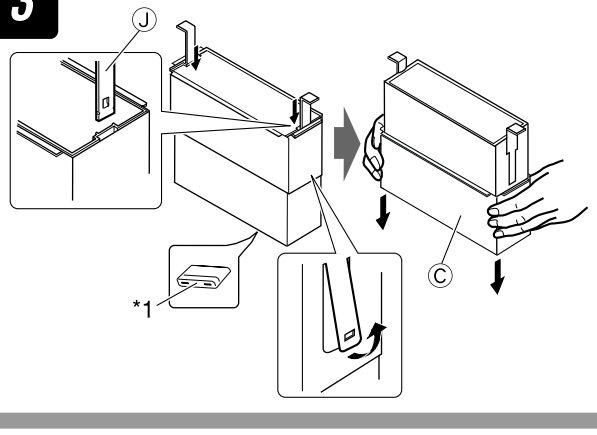
1



2



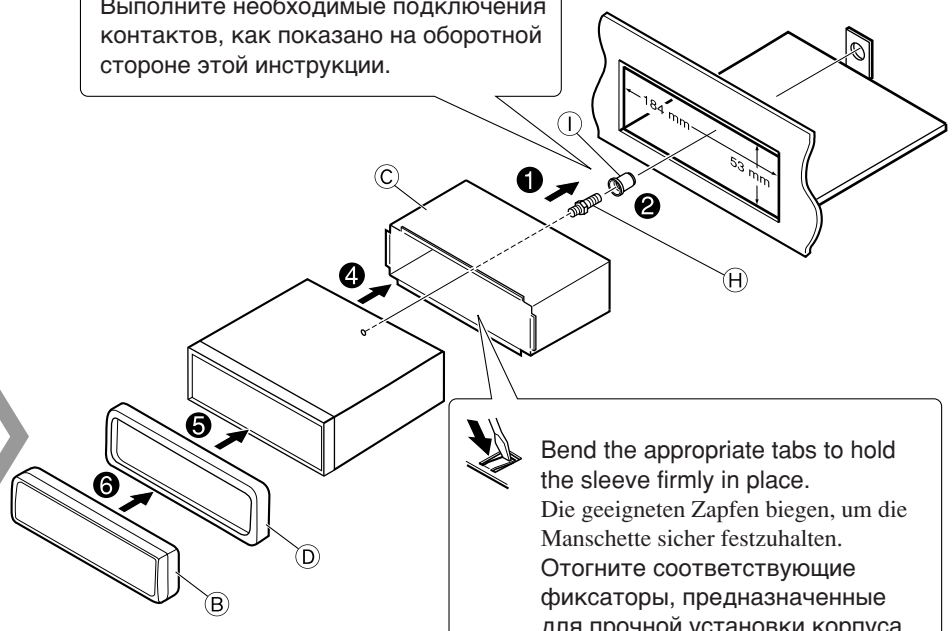
3



*1 When you stand the receiver, 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.

4

❸
Do the required electrical connections.
Nehmen Sie die erforderlichen elektrischen Anschlüsse vor.
Выполните необходимые подключения контактов, как показано на оборотной стороне этой инструкции.

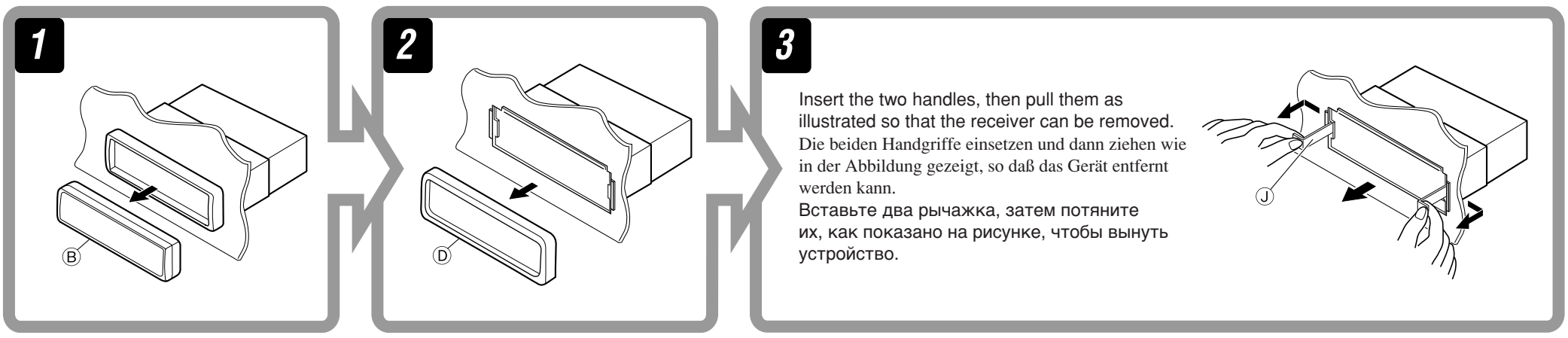


Bend the appropriate tabs to hold the sleeve firmly in place.
Die geeigneten Zapfen biegen, um die Manschette sicher festzuhalten.
Отогните соответствующие фиксаторы, предназначенные для прочной установки корпуса.

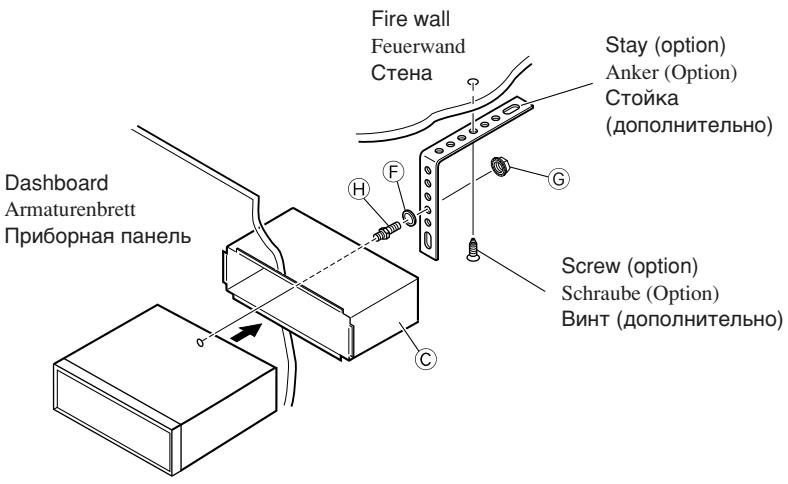
Removing the receiver
Before removing the receiver, release the rear section.

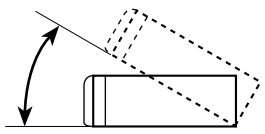
Ausbau des Geräts
Vor dem Ausbau des Geräts den hinteren Teil freigeben.

Удаление устройства
Перед удалением устройства освободите заднюю часть.



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

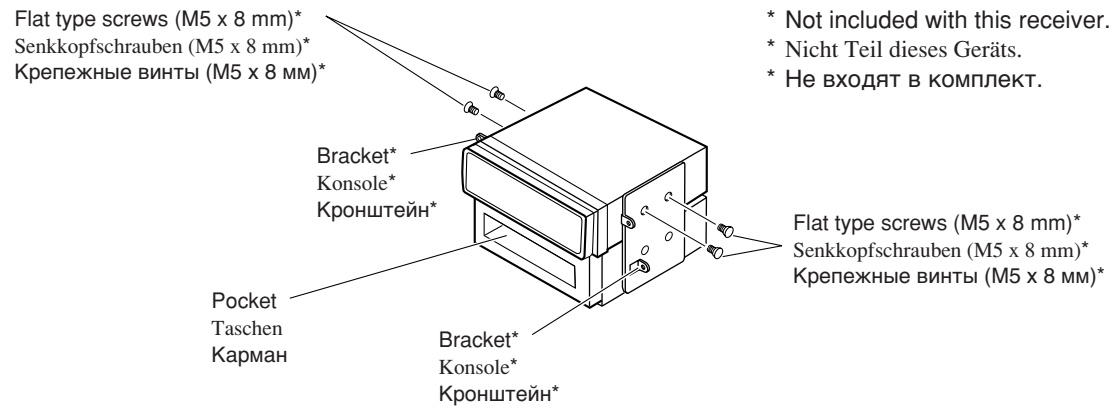




Install the receiver at an angle of less than 30˚.
Stellen Sie das Gerät mit einem Winkel von weniger als 30˚ auf.
Установите устройство под углом менее 30°.

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

In a Toyota for example, first remove the car radio and install the receiver in its place.
Zum Beispiel in einem Toyota zuerst das Autoradio ausbauen und dann das Gerät an seinem Platz einbauen.
В автомобилях “Toyota”, например, сначала удалите автомобильную магнитолу, затем установите на ее место это устройство.



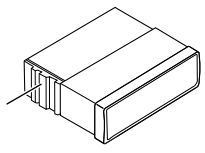
* Not included with this receiver.
* Nicht Teil dieses Geräts.
* Не входят в комплект.

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

ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the receiver.
- **Be sure to ground this receiver 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 45 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 45 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 receiver.



ELEKTRISCHE ANSCHLÜSSE

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 45 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von **4 Ω bis 8 Ω**). Wenn die Maximalleistung weniger als 45 W beträgt, stellen Sie „AMP GAIN" anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 14 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.

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

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 автомобилнего специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 45 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 45 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 14).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

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?
- **Receiver becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **This receiver does not work at all.**
* Have you reset your receiver?

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?

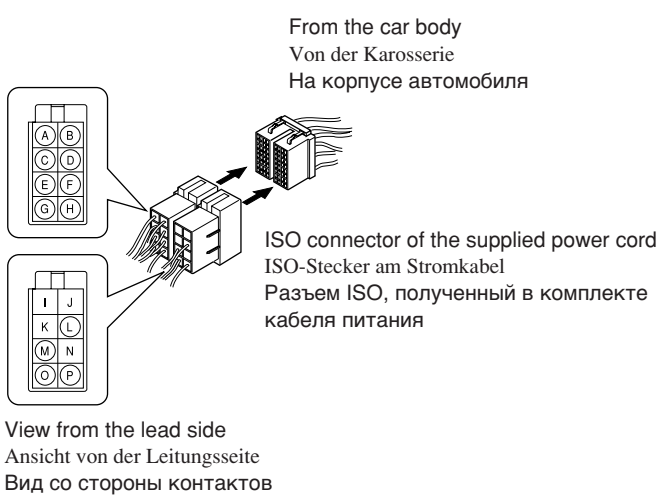
ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

- **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 шнуров?
- **Устройство нагревается.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?
- **Приемник не работает.**
* Выполнена ли перенастройка приемника?

ENGLISH | DEUTSCH | РУССКИЙ

A If your car is equipped with the ISO connector / Wenn Ihr Auto mit ISO-Steckern ausgestattet ist / Если Ваш автомобиль оборудован разъемами ISO

- Connect the ISO connectors as illustrated.
- Die ISO-Stecker wie abgebildet anschließen.
- Подключите разъемы ISO, как показано на иллюстрации.



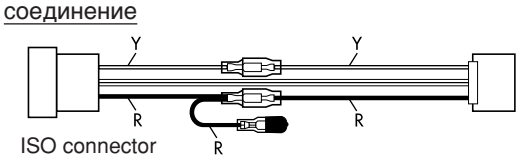
For some VW/Audi or Opel (Vauxhall) automobile / Für manche VW/Audi oder Opel (Vauxhall) Fahrzeuge / Для некоторых автомобилей VW/Audi или Opel (Vauxhall)

You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this receiver.

Sie müssen evtl. die Verdrahtung des mitgelieferten Stromkabels wie abgebildet ändern.
- Wenden Sie sich an Ihre Vertragswerkstatt, bevor Sie das Gerät einbauen.

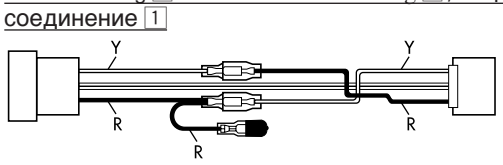
Вам может потребоваться изменение соединений полученного в комплекте кабеля питания, как показано на иллюстрации.
- Перед установкой устройства обратитесь к Вашему официальному дилеру автомобиля.

Original wiring / Originalverdrahtung / Исходное соединение



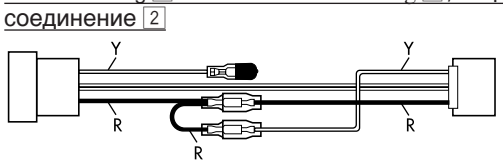
ISO connector
ISO-Stecker
Разъем ISO

Modified wiring 1 / Geänderte Verdrahtung 1 / Модифицированное соединение 1



Use modified wiring 2 if the receiver does not turn on.
Geänderte Verdrahtung 2 verwenden, wenn das Gerät so nicht an geht.
Если устройство не включается, модифи-цируйте кабель по схеме 2.

Modified wiring 2 / Geänderte Verdrahtung 2 / Модифицированное соединение 2



Y: Yellow / Gelb / Желтый
R: Red / Rot / Красный

B Connections without using the ISO connectors / Anschlüsse ohne ISO-Stecker / Подключение без использования

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

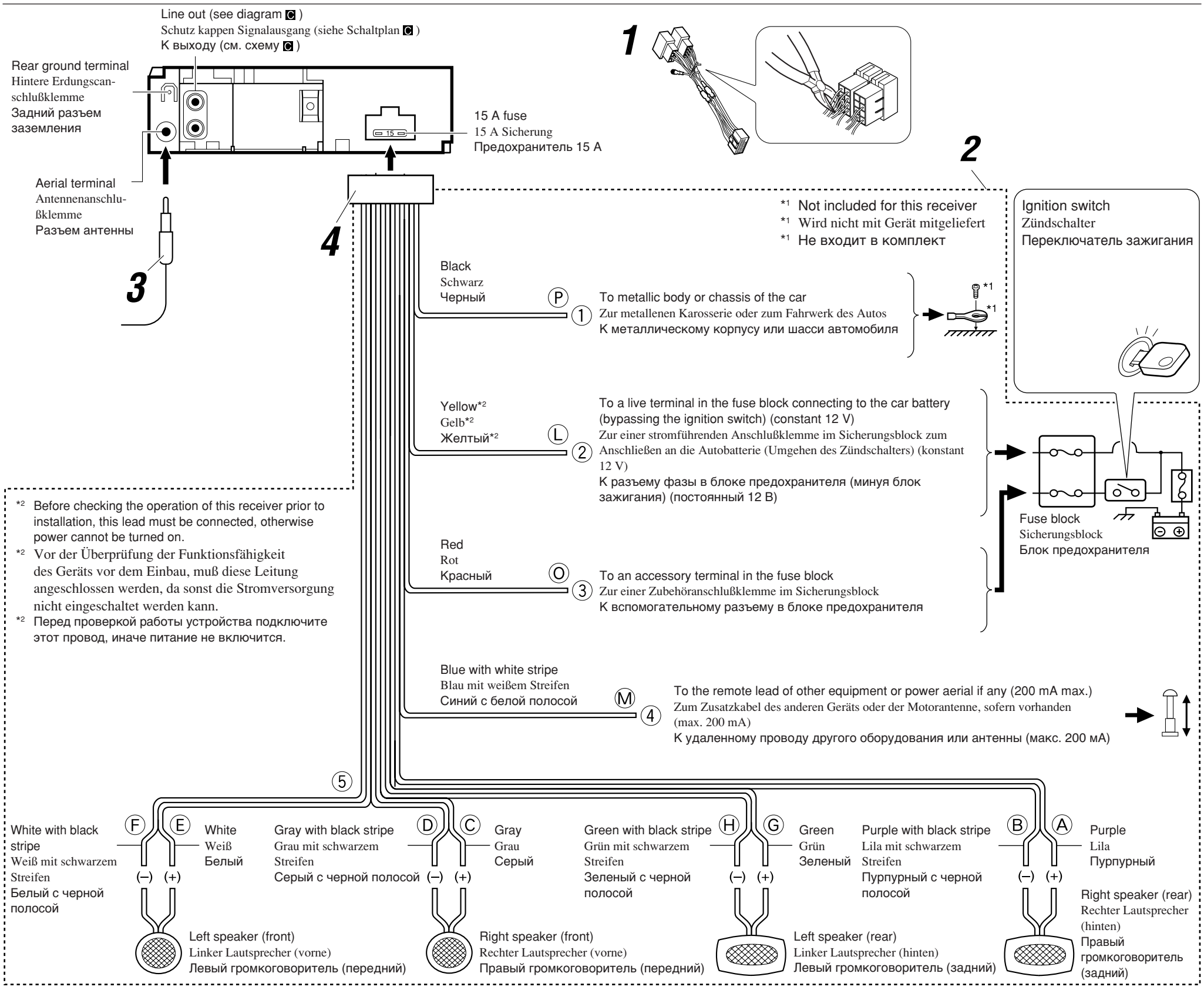
1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the receiver.

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. Den ISO-Stecker abschneiden.
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. Отрежьте разъем ISO.
2. Подсоедините цветные провода шнура питания в указанном ниже порядке.
3. Подключите кабель антенны.
4. В последнюю очередь подключите электропроводку к устройству.



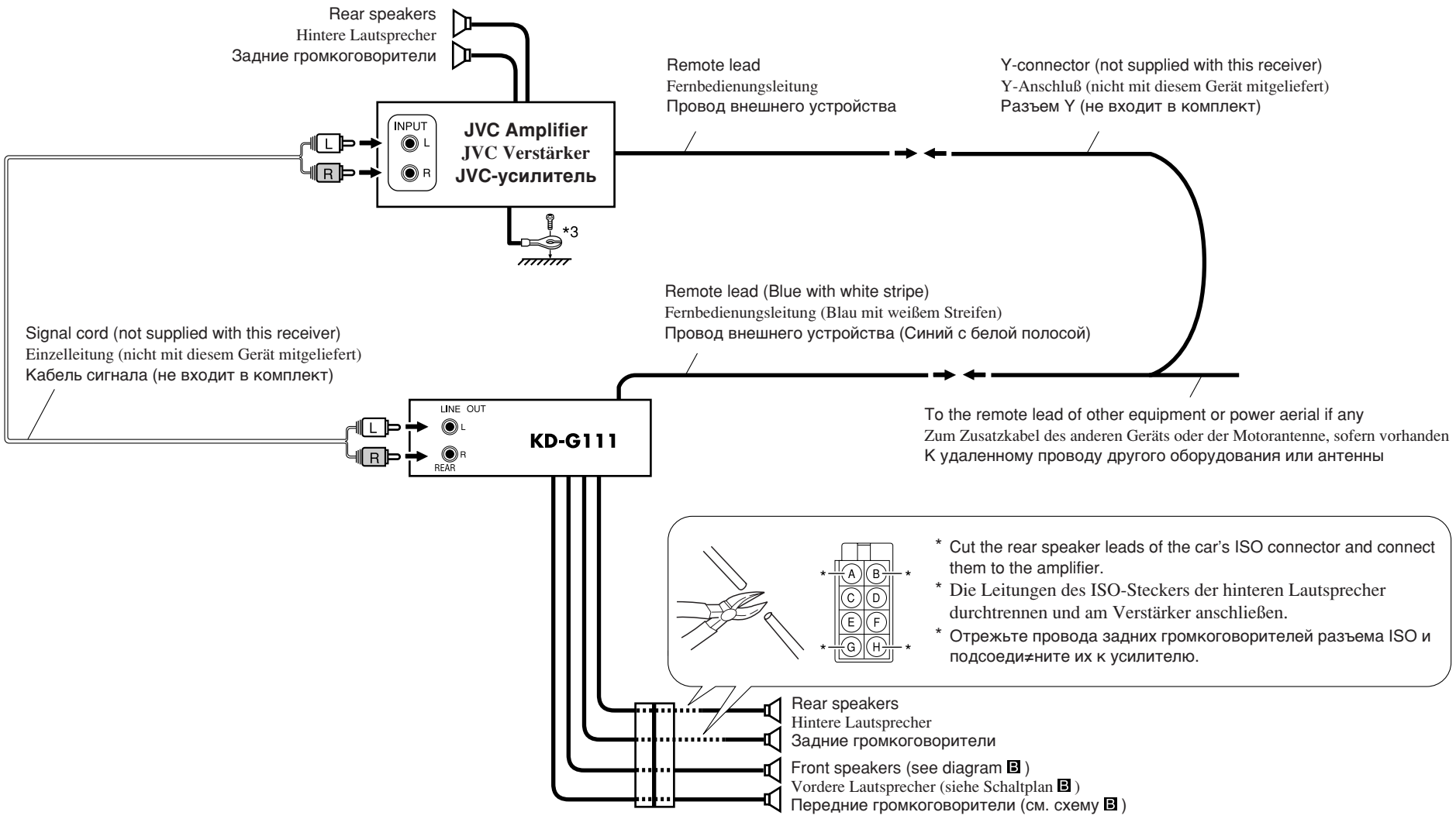
*2 Before checking the operation of this receiver prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet 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 receiver.
- **Disconnect the speakers from this receiver, connect them to the amplifier. Leave the speaker leads of this receiver 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.**



*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the receiver.

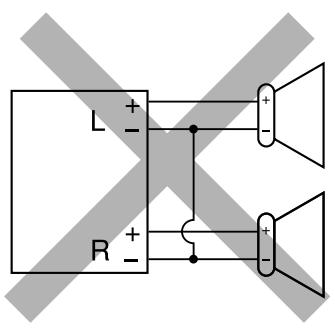
*3 Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kontaktstelle darf nicht lackiert sein (sollte die Kontaktstelle lackiert sein, entfernen Sie den Lack der Kontaktstelle, bevor Sie den Leiter befestigen). Wenn der Erdungsleiter nicht ordnungsgemäß angeschlossen wird, kann dieses Gerät beschädigt werden.

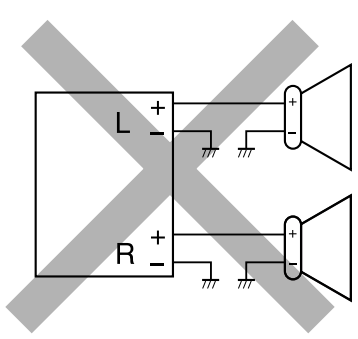
*3 Плотно прикрепите заземляющий провод к металлическому кузову или шасси автомобиля—в месте, не покрытом краской (если оно покрыто краской, удалите краску перед тем, как прикреплять провод). Невыполнение этого требования может привести к повреждению данного устройства.

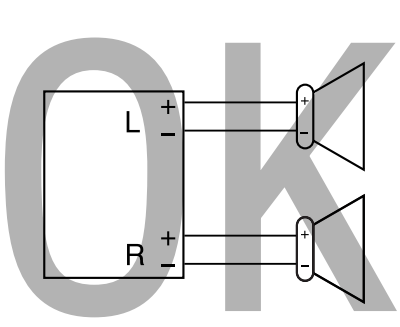
PRECAUTIONS on power supply and speaker connections:
- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the receiver will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

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 Spannunsgversorgungskabels 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.







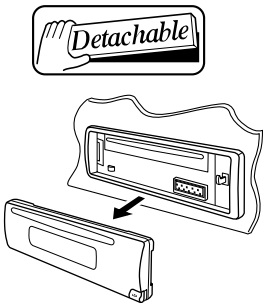
JVC

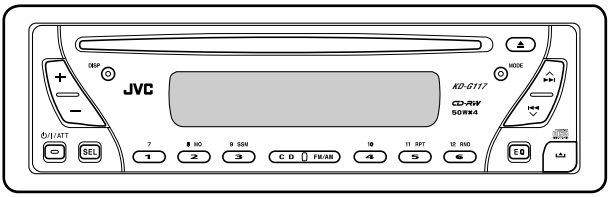
ENGLISH

РУССКИЙ

CD RECEIVER
РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-G117





COMPACT disc DIGITAL AUDIO CD-RW

For installation and connections, refer to the separate manual.
Указания по установке и выполнению соединений приводятся в отдельной инструкции.

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 canceling the display demonstration, see page 7.
Информацию об отмене демонстрации функций дисплея см. на стр. 7.

INSTRUCTIONS
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ

GET0254-001A
[EE]

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. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

Warning:

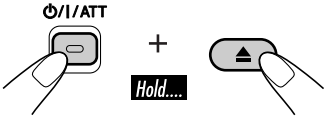
If you need to operate the receiver while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

How to reset your unit

- *This will reset the microcomputer. 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 a disc cannot be recognized by the receiver or cannot be ejected, ejects the disc as follows.



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

Contents

ENGLISH

***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.

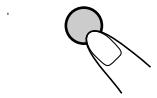
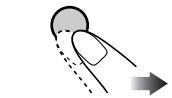
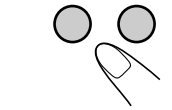
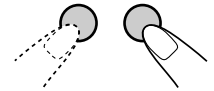
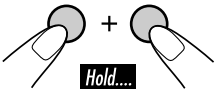
***Temperature inside the car....**

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.

How to read this manual

The following methods are used to made the explanations simple and easy-to-understand:

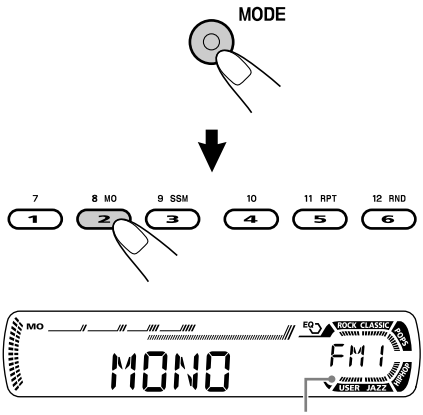
- Some related tips and notes are explained in "More about this receiver" (see page 17).
- Button operations are mainly explained with the illustrations as follows:

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

How to use the MODE button

If you press MODE, the receiver goes into functions mode, then the number buttons work as different function buttons.

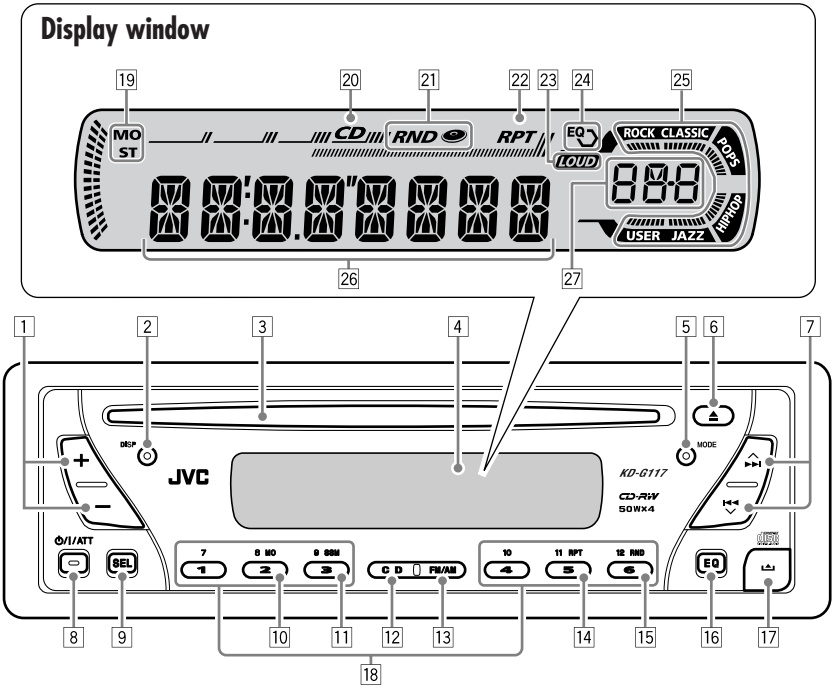
Ex.: When number button 2 works as MO (monaural) button.



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

- Pressing MODE again also clears the functions mode.

Parts identification



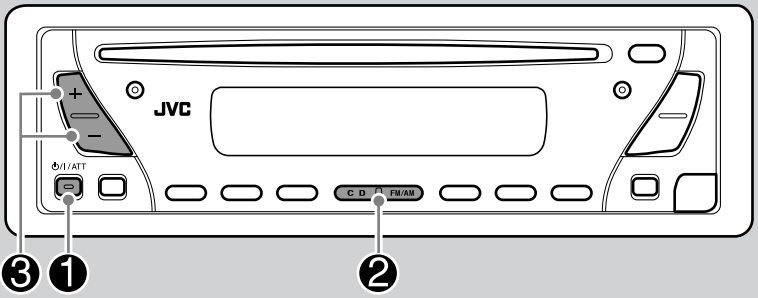
1 +/– buttons
2 DISP (display) button
3 Loading slot
4 Display window
5 MODE button
6 ⏏ (eject) button
7 ∧ ►►I/I◄◄ ∨ buttons
8 ⏻/I/ATT (standby/on/attenuator) button
9 SEL (select) button
10 MO (monaural) button
11 SSM (Strong-station Sequential Memory) button
12 CD button
13 FM/AM button
14 RPT (repeat) button
15 RND (random) button
16 EQ (equalizer) button
17 ⏏ (control panel release) button
18 Number buttons

Display window

19 Tuner reception indicators
MO (monaural), ST (stereo)
20 CD indicator
21 RND (disc random) indicator
22 RPT (repeat) indicator
23 LOUD (loudness) indicator
24 EQ (equalizer) indicator
25 Sound mode (C-EQ: custom equalizer) indicators
ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER
• *also works as the time countdown indicator.*
26 Main display
27 Source display
Volume level indicator

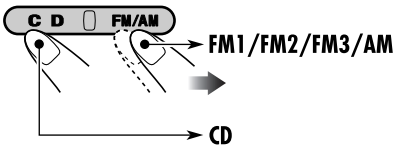
ENGLISH

Basic operations



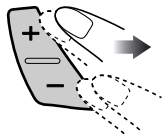
1 ⏻/I/ATT

2

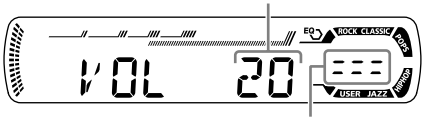


You cannot select “CD” as the playback source if there is no disc in the loading slot.

3



Volume level appears.



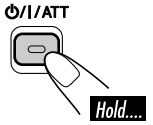
Volume level indicator

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

To drop the volume in a moment (ATT)

To restore the sound, press it again.

To turn off the power



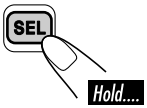
Caution on volume setting:

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.

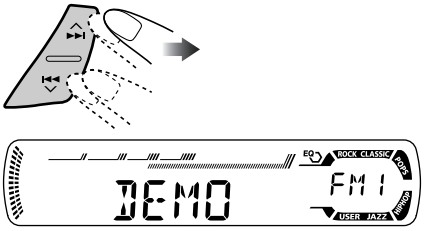
Canceling the display demonstrations

If no operations are done for about 20 seconds, display demonstration starts.
[Initial: DEMO ON]—see page 14.

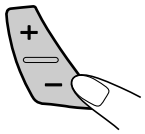
1



2



3



DEMO OFF ⟷ DEMO ON

4 **Finish the procedure.**

To activate the display demonstration

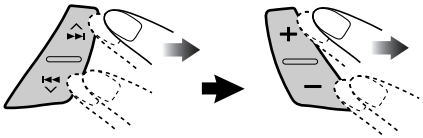
In step **3** above...

DEMO OFF ⟷ DEMO ON

Setting the clock

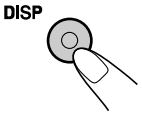
1

2 **Set the hour and minute.**
1. **Select "CLOCK H" (hour), then adjust the hour.**
2. **Select "CLOCK M" (minute), then adjust the minute.**



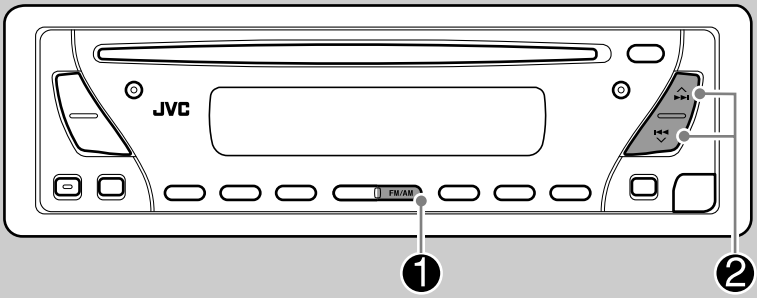
3 **Finish the procedure.**

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

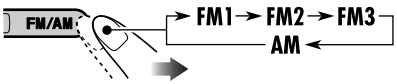


ENGLISH

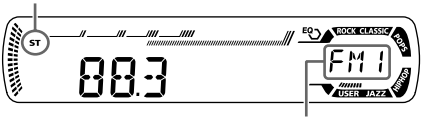
Listening to the radio



1

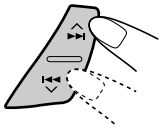


Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

2 **Start searching for a station.**



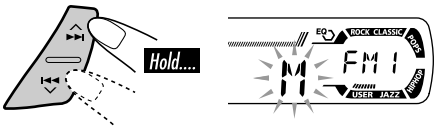
When a station is received, searching stops.
To stop searching, press the same button again.

Note:
FM1 and FM2: 87.5 MHz – 108.0 MHz
FM3: 65.00 MHz – 74.00 MHz

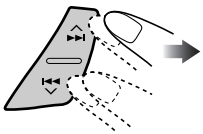
To tune in to a station manually

In step ❷ above...

1

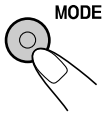


2 **Select the desired station frequencies.**

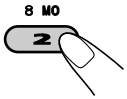


When an FM stereo broadcast is hard to receive

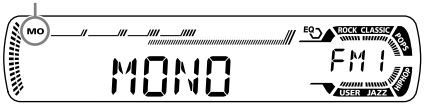
1



2



Lights up when monaural mode is activated.



Reception improves, but stereo effect will be lost.

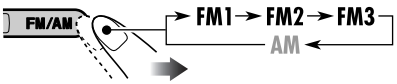
To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

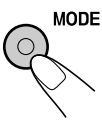
You can preset six stations for each band.

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

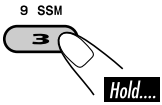
1 **Select the FM band (FM1 – FM3) you want to store into.**



2



3



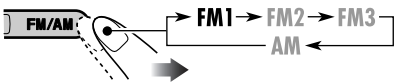
"SSM" flashes, then disappears when automatic presetting is over.

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

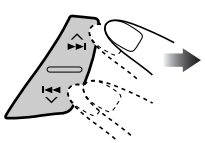
Manual presetting

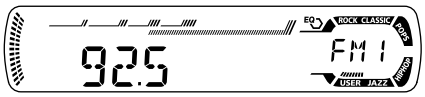
Ex.: Storing FM station of 92.5 MHz into the preset number 4 of the FM1 band.

1

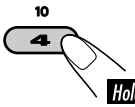


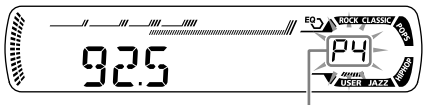
2





3

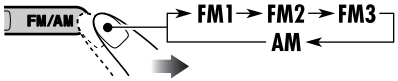




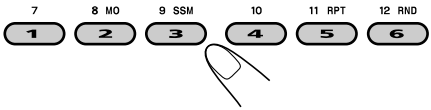
Preset number flashes for a while.

Listening to a preset station

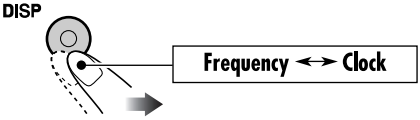
1



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

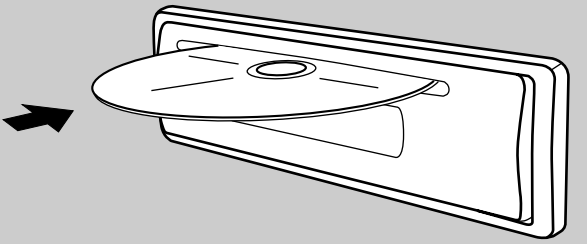


To check the current clock time while listening to an FM or AM station

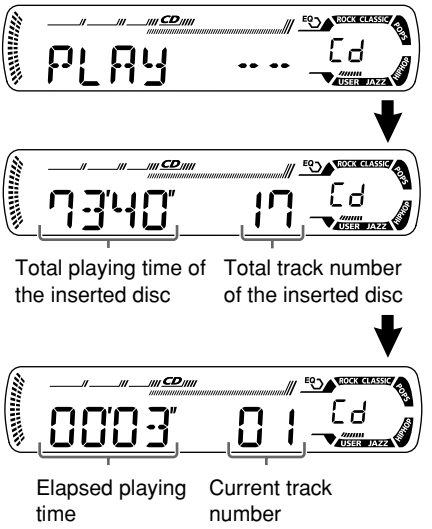


ENGLISH

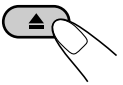
Playing a disc



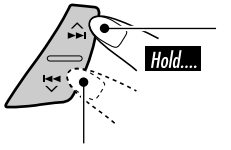
All tracks will be played repeatedly until you change the source or eject the disc.



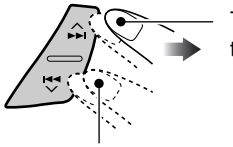
To stop play and eject the disc



To fast-forward or reverse the track



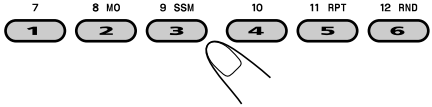
To go to the next or previous tracks



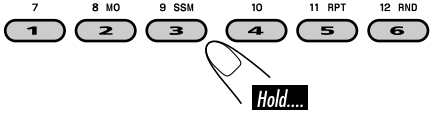
To the beginning of the current track, then the previous tracks.

To go to a particular track directly

To select a number from 01 – 06:

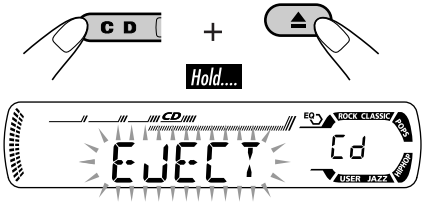


To select a number from 07 – 12:



Prohibiting disc ejection

You can lock a disc in the loading slot.



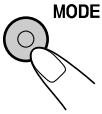
To cancel the prohibition, repeat the same procedure.

To check the current clock time while listening to a disc

Selecting the playback modes

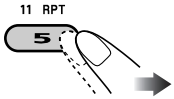
You can use only one of the following playback modes at a time.

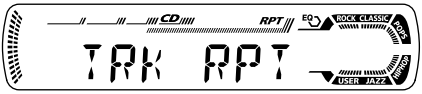
1



2 Select your desired playback mode.

Repeat play

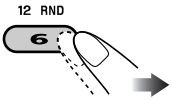


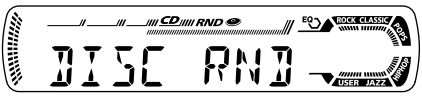


Ex.: When “TRK RPT” is selected

Mode	Plays repeatedly
TRK RPT:	The current track. • RPT lights up.
RPT OFF:	Cancels.

Random play



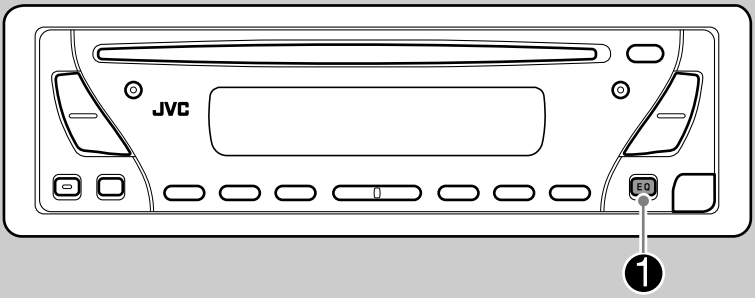


Ex.: When “DISC RND” is selected

Mode	Plays at random
DISC RND:	All tracks of the current disc. • RND lights up.
RND OFF:	Cancels.

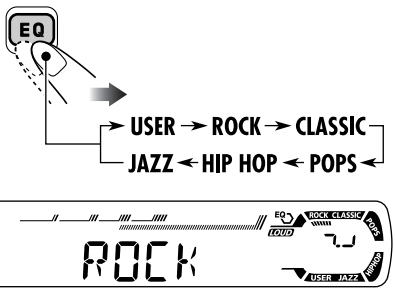
Sound adjustments

Selecting preset sound modes (C-EQ: custom equalizer)



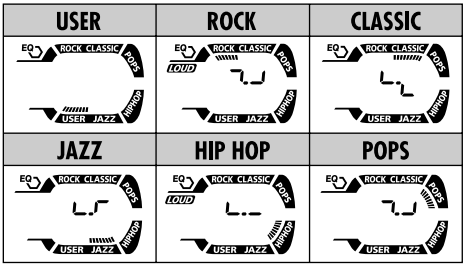
You can select a preset sound mode suitable to the music genre.

1



Ex.: When “ROCK” is selected

Indication pattern for each sound mode:



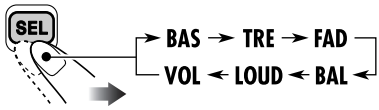
Indication	For:	Preset values		
		BAS*1	TRE*2	LOUD*3
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	–02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

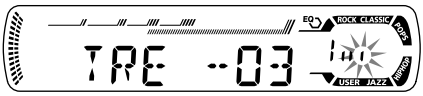
*1 *BAS: Bass*
*2 *TRE: Treble*
*3 *LOUD: Loudness*

Adjusting the sound

You can adjust the sound characteristics to your preference.

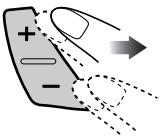
1



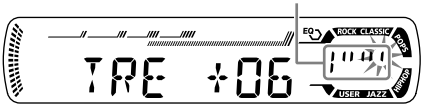


Ex.: When "TRE" is selected

2



Indication pattern changes as you adjust the level.



Indication	To do:	Range
BAS*1 (bass)	Adjust the bass.	–06 (min.) to +06 (max.)
TRE*1 (treble)	Adjust the treble.	–06 (min.) to +06 (max.)
FAD*2 (fader)	Adjust the front and rear speaker balance.	R06 (Rear only) to F06 (Front only)
BAL (balance)	Adjust the left and right speaker balance.	L06 (Left only) to R06 (Right only)
LOUD*1 (loudness)	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON ⇕ LOUD OFF
VOL*3 (volume)	Adjust the volume.	00 (min.) to 30 or 50 (max.)*4

*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 *Normally the +/– buttons work as the volume control. So you do not have to select "VOL" to adjust the volume level.*

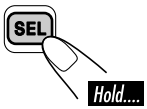
*4 *Depending on the amplifier gain control setting. (See page 14 for details.)*

General settings — PSM

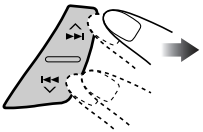
Basic procedure

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

1

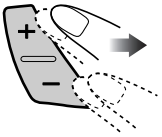


2 Select a PSM item.



Ex.: When you select “AMP GAIN”

3 Adjust the PSM item selected.



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

5 Finish the procedure.

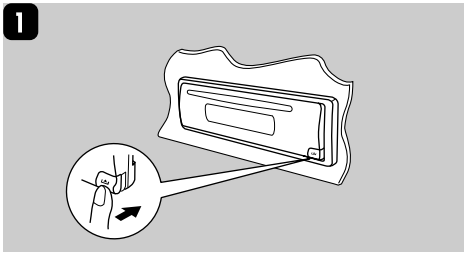
Indications	Selectable settings, [reference page]
DEMO Display demonstration	**DEMO ON:** *[Initial];* Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. **DEMO OFF:** Cancels.
CLOCK H Hour adjustment	0 – 23, [7] *[Initial: 0 (0:00)]*
CLOCK M Minute adjustment	00 – 59, [7] *[Initial: 00 (0:00)]*
AMP GAIN Amplifier gain control	You can change the maximum volume level of this receiver. **LOW PWR:** VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from damaging the speaker.) **HIGH PWR:** *[Initial];* VOL 00 – VOL 50

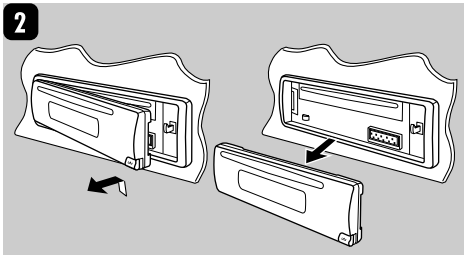
Detaching the control panel

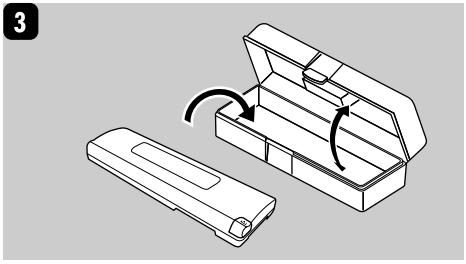
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

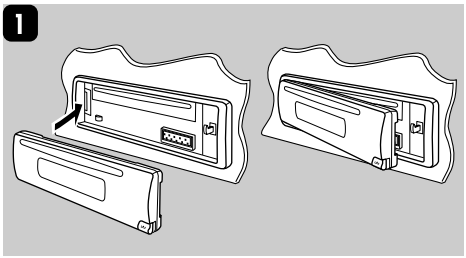
Before detaching the control panel, be sure to turn off the power.

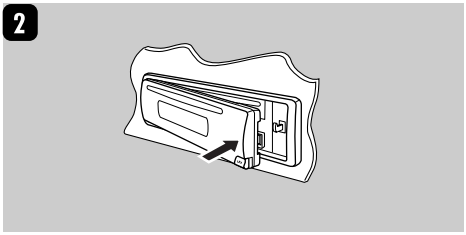






Attaching the control panel

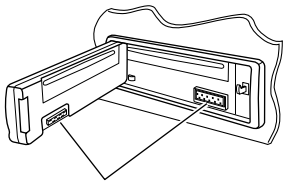




Maintenance

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 receiver 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, benzine, 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 receiver 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 receiver

Basic operations

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, a previously preset station is erased when a new station is stored in the same preset number.

Disc operations

General

- This receiver has been designed to reproduce CDs, and CD-Rs (Recordable)/ CD-RWs (Rewritable) in audio CD (CD-DA) format.
- When a disc has been loaded, selecting "CD" 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 CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This receiver 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 receiver because of their disc characteristics, and for the following causes:
  – Discs are dirty or scratched.
  – Moisture condensation occurs on the lens inside the receiver.
  – The pickup lens inside the receiver is dirty.
  – CD-R or CD-RW on which the files are written with "Packet Write" method.
  – There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, 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 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 damages to discs.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select "CD" 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 prevent 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 receiver automatically changes the volume level to "VOL 30."

Troubleshooting

ENGLISH

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

	Symptoms	Causes	Remedies
General	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• This receiver does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the receiver (see page 2).
FM/AM	• SSM automatic presetting does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The aerial is not connected firmly.	Connect the aerial firmly.
Disc playback	• Disc automatically ejects.	Disc is inserted upside down.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can be neither played back nor ejected.	Disc is locked.	Unlock the disc (see page 11).
		The CD player may have functioned incorrectly.	Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
	• “NO DISC” appears on the display.	No disc is in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.

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:
2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

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 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

[MW Tuner]
Sensitivity: 20 µV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 µV

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

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.):
1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

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

© 2004 Victor Company of Japan, Limited

1004DTSMDTJEIN

KD-G117

Installation/Connection Manual
Руководство по установке/подключению

GET0254-002A
[EE]

1004DTSMDTJEIN
EN, RU

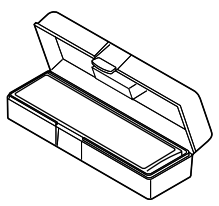
ENGLISH

This receiver 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.

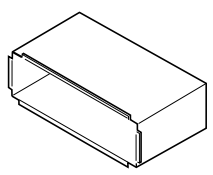
Parts list for installation and connection

The following parts are provided for this receiver.
After checking them, please set them correctly.

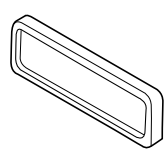
Ⓐ / Ⓑ
Hard case/Control panel
Жесткий футляр/
панель управления



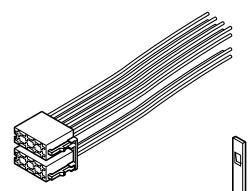
Ⓒ
Sleeve
Муфта



Ⓓ
Trim plate
Декоративную панель



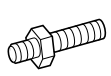
Ⓔ
Power cord
Кабель питания



Ⓕ
Washer (ø5)
Шайба (ћ5)

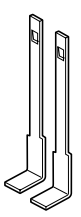
Ⓖ
Lock nut (M5)
Фиксирующая гайка (M5)

Ⓗ
Mounting bolt (M5 x 20 mm)
Крепежный болт (M5 x 20 мм)



Ⓘ
Rubber cushion
Резиновый чехол

Ⓙ
Handles
Рычаги



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 автомобилнего специалиста JVC.

Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством.
После проверки комплектации, пожалуйста, установите их правильно.

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.

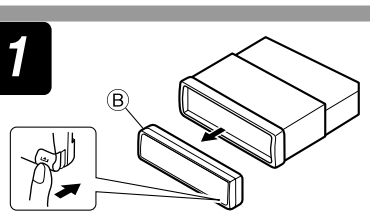
- If you are not sure how to install this receiver correctly, have it installed by a qualified technician.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

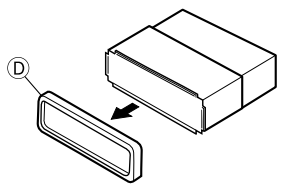
На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобилнего специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

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

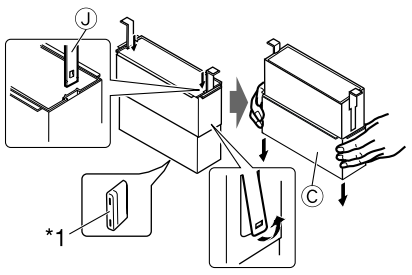
1



2



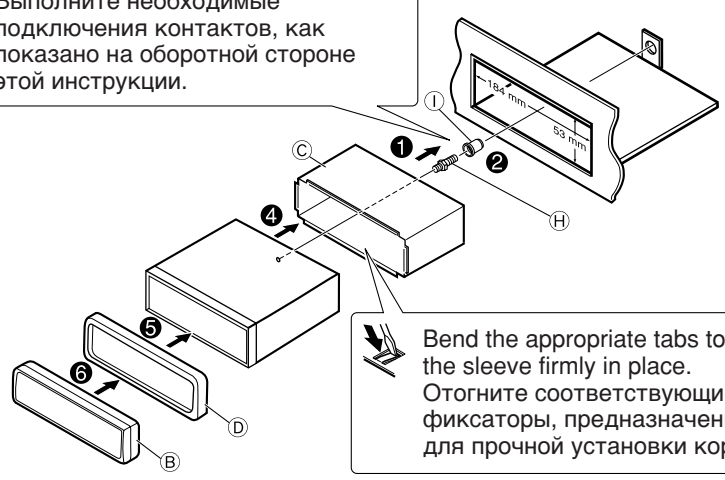
3



*1 When you stand the receiver, be careful not to damage the fuse on the rear.
*1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.

4

❸ Do the required electrical connections.
Выполните необходимые подключения контактов, как показано на оборотной стороне этой инструкции.

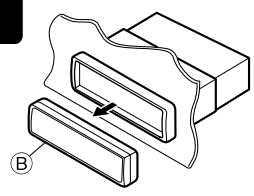


Bend the appropriate tabs to hold the sleeve firmly in place.
Отогните соответствующие фиксаторы, предназначенные для прочной установки корпуса.

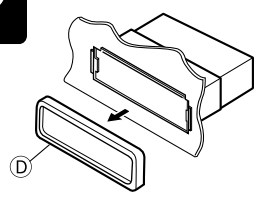
Removing the receiver / Удаление устройства

Before removing the receiver, release the rear section.
Перед удалением устройства освободите заднюю часть.

1

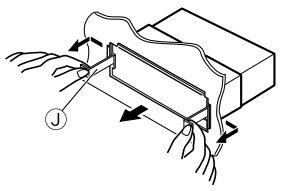


2

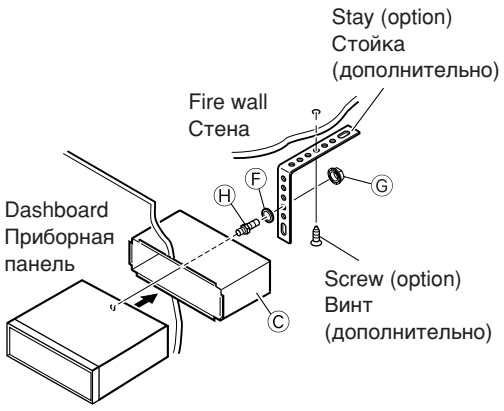


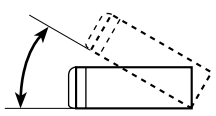
3

Insert the two handles, then pull them as illustrated so that the receiver can be removed.
Вставьте два рычажка, затем потяните их, как показано на рисунке, чтобы вынуть устройство.



When using the optional stay / При использовании дополнительной стойки



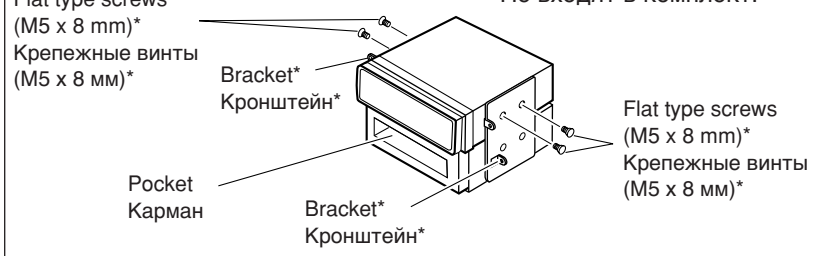


Install the receiver at an angle of less than 30˚.
Установите устройство под углом менее 30°.

When installing the receiver without using the sleeve / При установке устройства без использования муфты

In a Toyota for example, first remove the car radio and install the receiver in its place.
В автомобилях “Toyota”, например, сначала удалите автомобильную магнитолу, затем установите на ее место это устройство.

* Not included for this receiver.
* Не входят в комплект.



Note : When installing the receiver on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the receiver.
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?
- **Receiver becomes hot.**
* Is the speaker output lead grounded?
* Are the “–” terminals of L and R speakers grounded in common?
- **This receiver does not work at all.**
* Have you reset your receiver?

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 шнуров?
- **Устройство нагревается.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы “–” правого (R) и левого (L) громкоговорителей?
- **Приемник не работает.**
* Выполнена ли перенастройка приемника?

ENGLISH

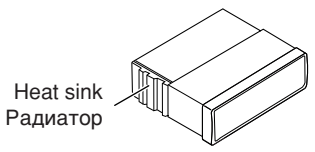
ELECTRICAL CONNECTIONS

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

- **Be sure to ground this receiver 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 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 receiver.



РУССКИЙ

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

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 автомобилнего 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. 14).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

A Typical connections / Типичные подключения

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this receiver.
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 aerial cord.

3 Finally connect the wiring harness to the receiver.

Note: If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.

- The yellow lead (A4) is not used in this case.

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.

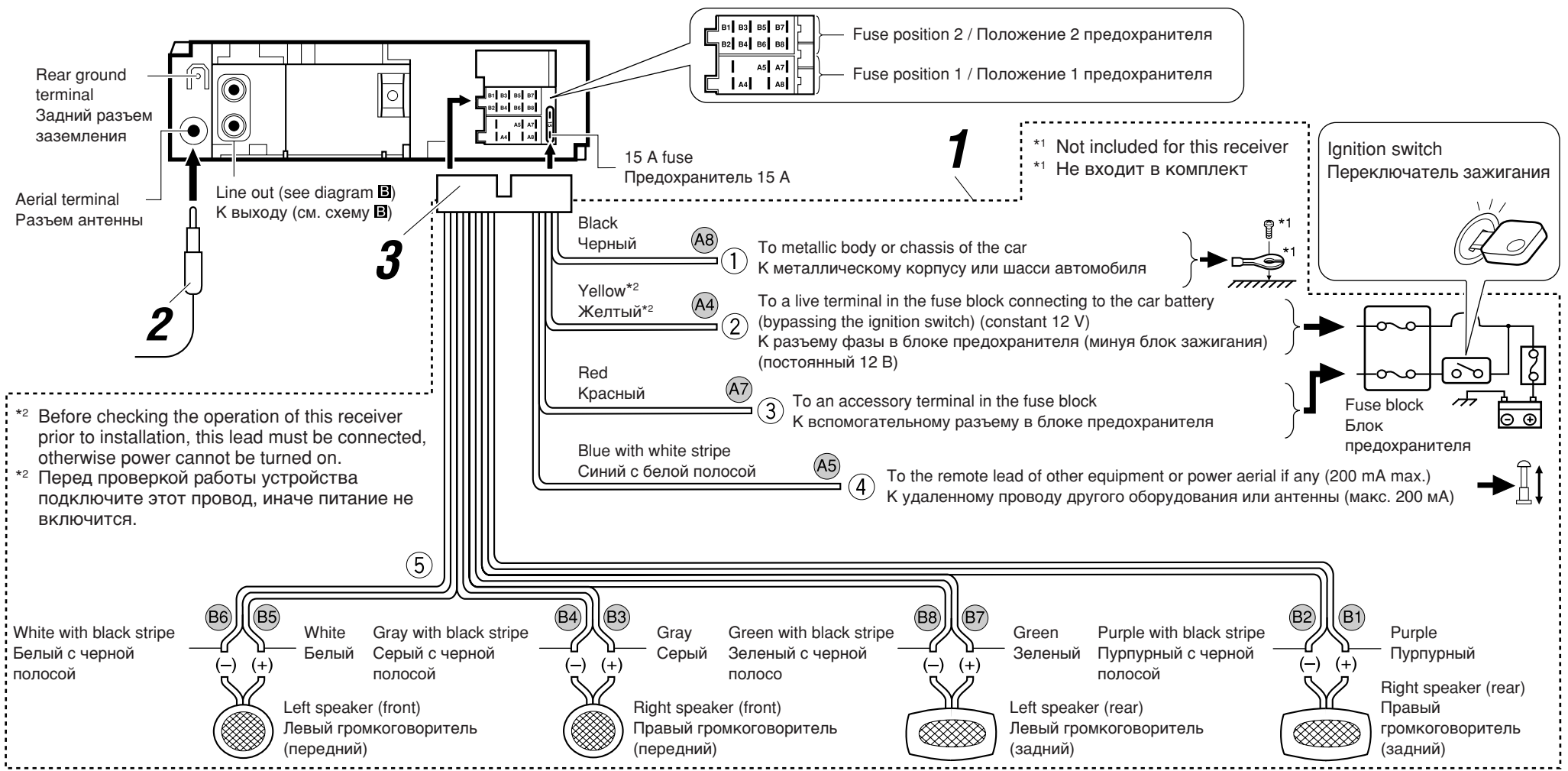
1 Подсоедините цветные провода шнура питания в указанном ниже порядке.

2 Подключите кабель антенны.

3 В последнюю очередь подключите электропроводку к устройству.

Примечание: Если в Вашем автомобиле никакого вспомогательного разъема не имеется, переставьте предохранитель из положения 1 предохранителя (первоначальное положение) в положение 2 предохранителя и подключите красный провод (A7) к положительному (+) полюсу аккумулятора.

- Желтый провод (A4) в этом случае не используется.



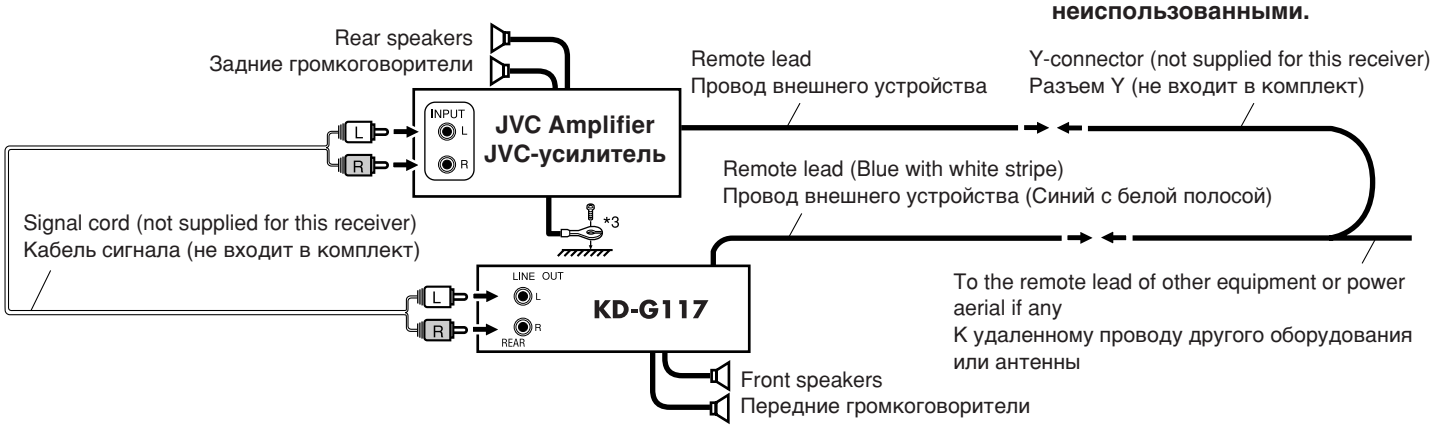
B Connecting the external amplifier / Подключение внешнего усилителя

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 receiver.
- **Disconnect the speakers from this receiver, connect them to the amplifier. Leave the speaker leads of this receiver unused.**

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.**



*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the receiver.

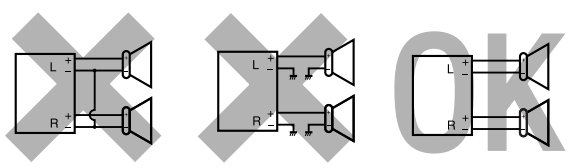
*3 Плотно прикрепите заземляющий провод к металлическому кузову или шасси автомобиля—в месте, не покрытом краской (если оно покрыто краской, удалите краску перед тем, как прикреплять провод). Невыполнение этого требования может привести к повреждению данного устройства.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the receiver 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

[KD-G111] [KD-G117]

* All printed circuit boards and its assemblies are not available as service parts.

KD-G111

Area suffix

E ---------- Southern Europe
EX ---------- Northern Europe
EY ---------- Eastern Europe
EU ---------- Turkey

KD-G117

Area suffix

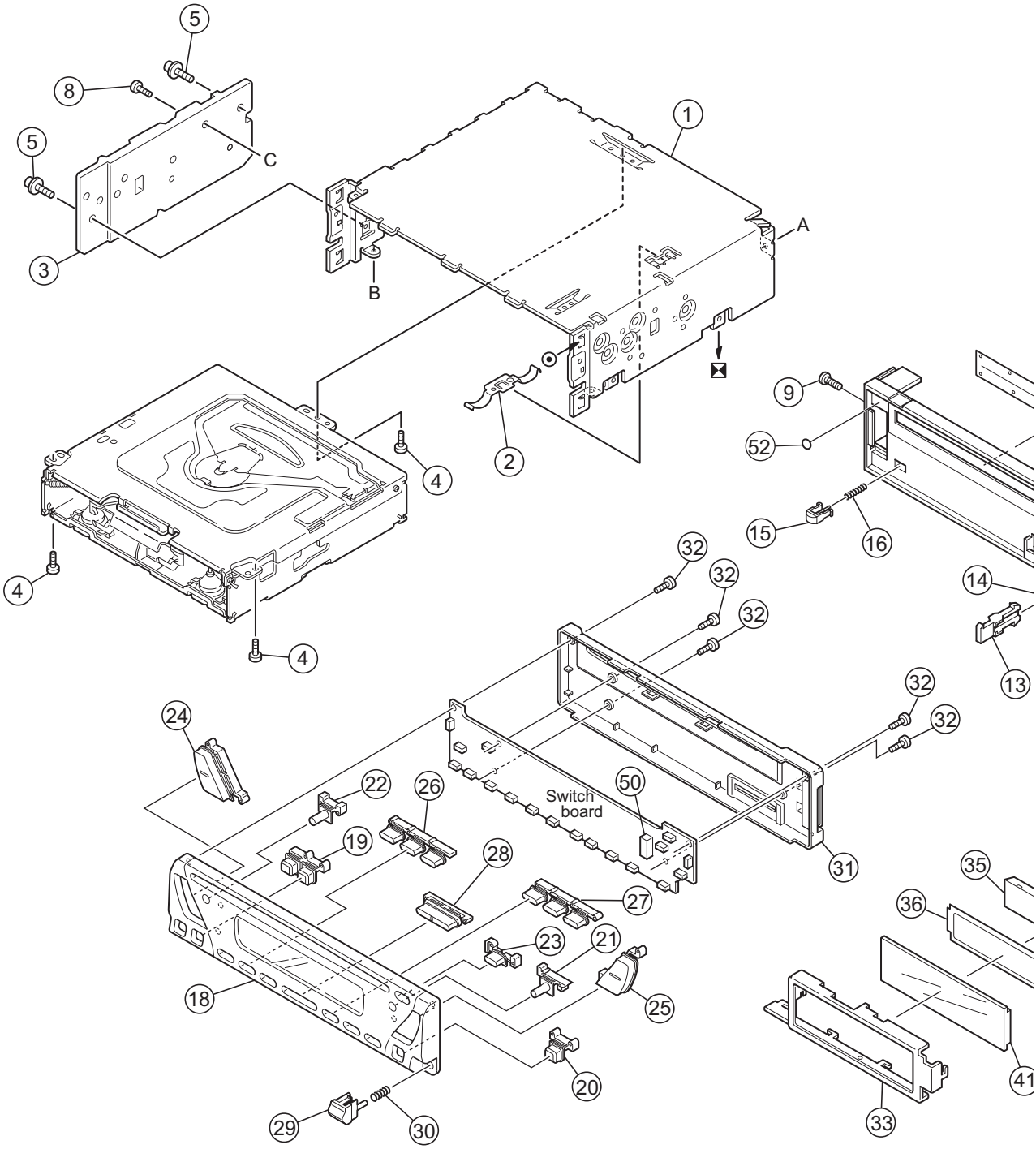
EE -------- Russian Federation

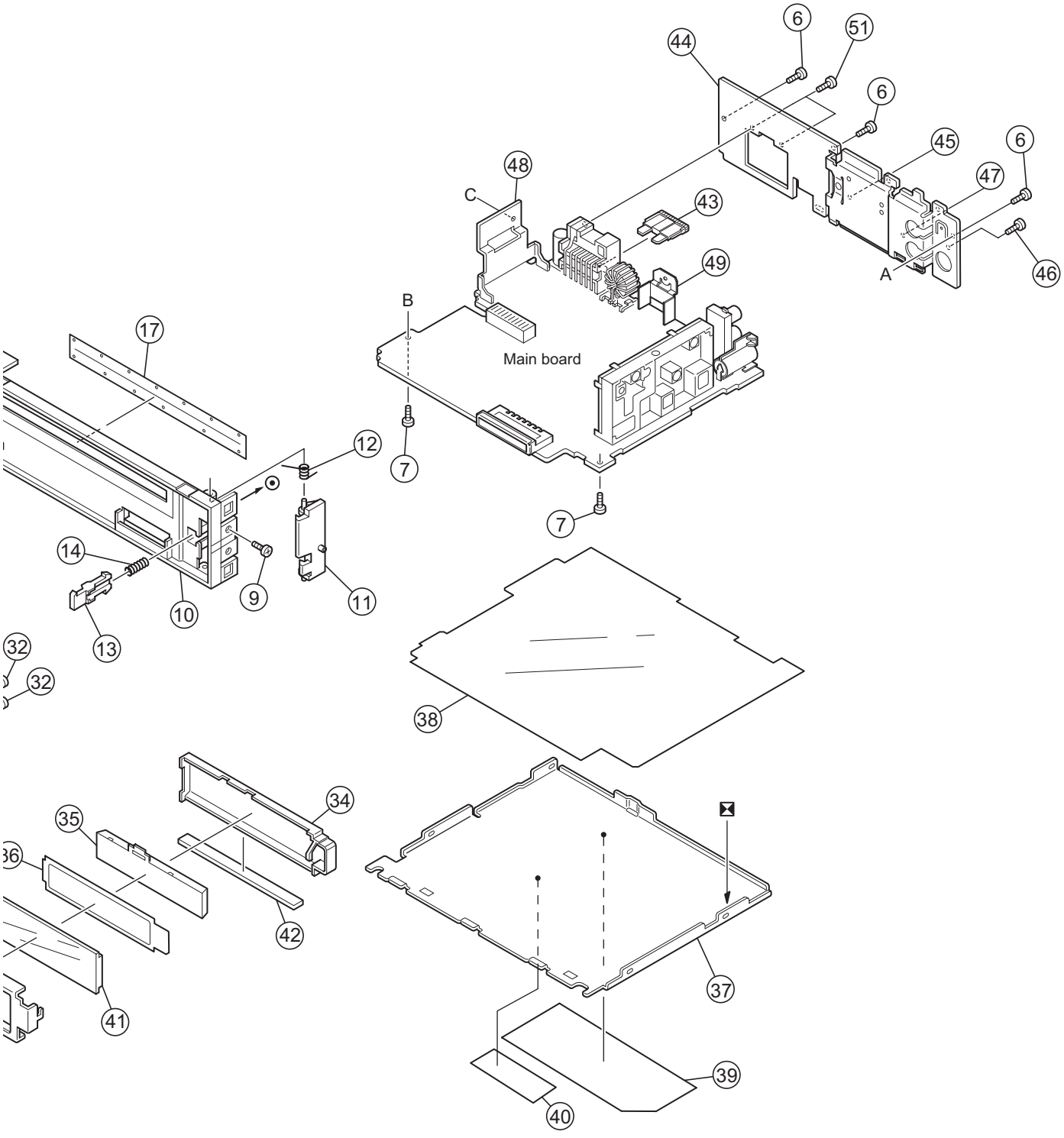
- Contents -

Exploded view of general assembly and parts list

(KD-G111)

Block No. M 1 M M




Main board
A
B
C

General Assembly

Block No. [M][1][M][M]

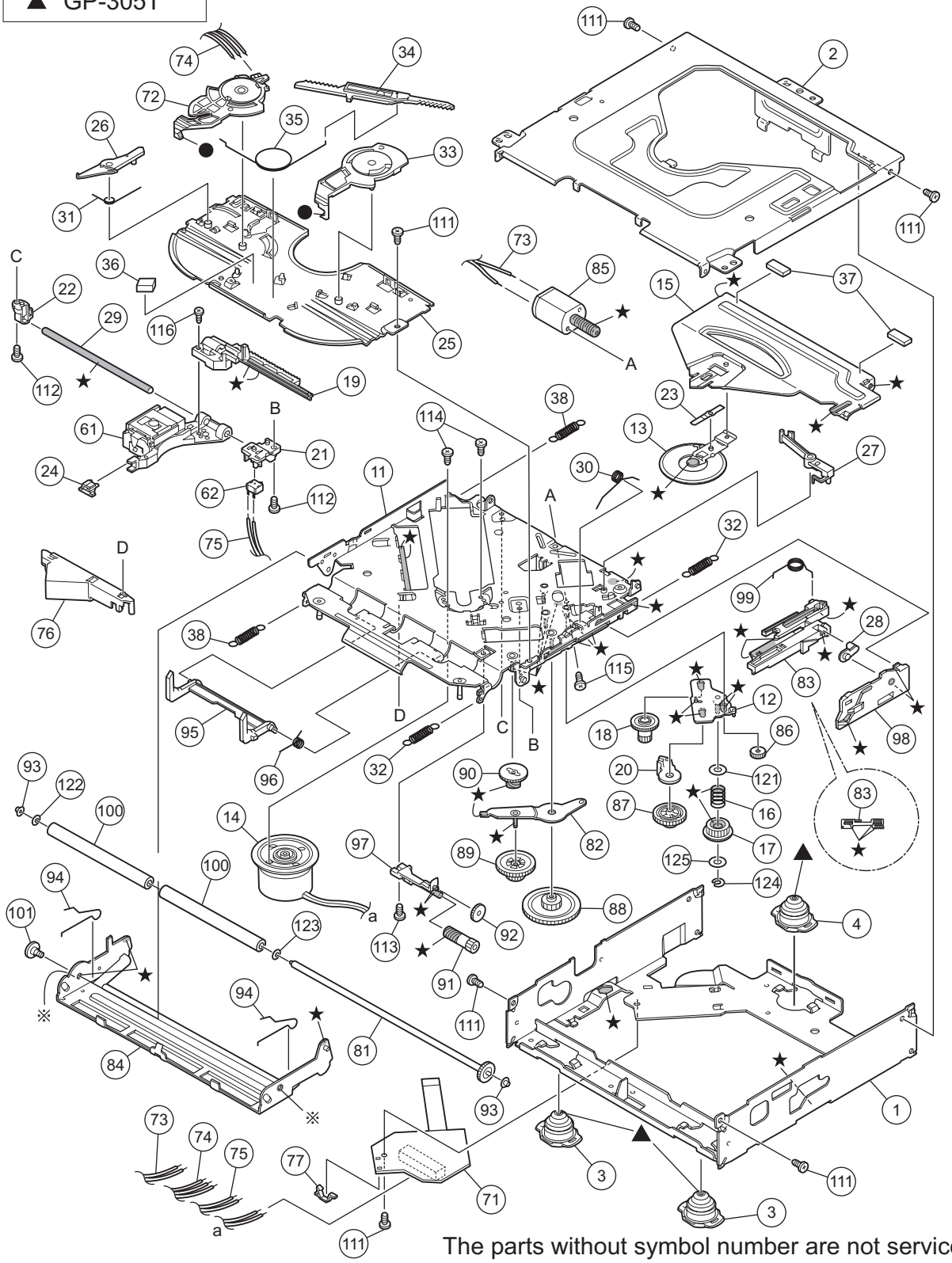
⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10104-001A	TOP CHASSIS		
	2	GE40135-001A	EARTH PLATE		
	3	GE30938-003A	SIDE PANEL		
	4	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	5	GE40235-001A	SCREW	(x2)	
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40235-004A	SCREW	(x2)	
	8	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	9	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	10	GE10103-001A	FRONT CHASSIS		
	11	GE31569-002A	LOCK LEVER		
	12	GE40269-001A	TORSION SPRING		
	13	GE31568-001A	RLS KNOB		
	14	GE40202-011A	COMP.SPRING		
	15	GE40250-001A	PANEL STOPPER		G111E,G111EU,G111EX,G111EY
	15	GE40250-002A	PANEL STOPPER		G111E2,G111EU2,G111EX2,G111EY2
	16	GE40202-009A	COMP.SPRING		
	17	GE40257-001A	BLIND		
	18	GE20176-008A	FRONT PANEL ASSY		
	19	GE31561-002A	POWER/SEL BTN		
	20	GE31572-003A	EQ BUTTON		
	21	GE31562-001A	MODE BUTTON		
	22	GE31563-001A	DISP BUTTON		
	23	GE31564-001A	EJECT BUTTON		
	24	GE31560-002A	VOL BUTTON		
	25	GE31559-002A	SEARCH BUTTON		
	26	GE31555-002A	PRESET BTN (L)		
	27	GE31556-002A	PRESET BTN (R)		
	28	GE31557-007A	D.FUNC BUTTON		
	29	GE31558-002A	DETACH BUTTON		
	30	GE40202-010A	COMP.SPRING		
	31	GE10102-001A	REAR COVER		
	32	VKZ4777-010	MINI SCREW	(x5)	G111E,G111EU,G111EX,G111EY
	32	VKZ4777-006	MINI SCREW	(x5)	G111E2,G111EU2,G111EX2,G111EY2
	33	GE31565-001A	LCD CASE		
	34	GE31566-001A	LENS CASE		
	35	GE31567-001A	LCD LENS		
	36	GE40248-001A	LIGHTING SHEET		
	37	GE31570-001A	BOTTOM COVER		
	38	FSMA3004-203	INSULATOR		
	39	GE31398-001A	NAME PLATE		G111E,G111EU,G111EX,G111EY
	39	GE31398-002A	NAME PLATE		G111E2,G111EU2,G111EX2,G111EY2
	40	LV41843-002A	LASER CAUTION		
	41	QLD0353-001	LCD MODULE		
	42	QNZ0442-001	LCD CONNECTOR		
⚠	43	QMFZ047-150-T	FUSE	15A	
	44	GE31571-005A	REAR BRACKET		
	45	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	46	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	47	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	48	GE40172-004A	IC BRACKET		
	49	GE40124-002A	REG BRACKET		
	50	GE30854-001A	LED HOLDER		
	51	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
	52	FSYH4036-098	SHEET		

CD mechanism assembly and parts list

Block No. M B M M

Grease
- ★ TNG-87
- ※ GP-501MK
- ● CFD-005Z
- ▲ GP-305T

TN-2001-1011



The parts without symbol number are not service.

CD mechanism

Block No. [M][B][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	30320101T	FRAME		
	2	30320102T	TOP COVER		
	3	30320115T	DANPER F		
	4	30320116T	DANPER R		
	11	303205505T	CHASSIS RIVET		
	12	303205503T	CHANGE P. RVT A		
	13	303205301T	CLAMPER ASS'Y		
	14	303205302T	SPINDLE MOTOR A		
	15	30320502T	CLAMPER ARM		
	16	30320503T	CHANGE GEAR SPG		
	17	30320505T	CHANGE GEAR 2		
	18	30320506T	FEED GEAR		
	19	30320507T	FEED RACK		
	20	30320509T	CHANGE LOCK RAR		
	21	30320510T	FEED SW HOLDER		
	22	30320511T	PU SHAFT HOLDER		
	23	30320513T	CLAMPER SUB SPG		
	24	30320514T	FD SUB HOLDER		
	25	30320518T	TOP PLATE		
	26	30320519T	SELECT LOCK ARM		
	27	30320520T	TRIGGER ARM		
	28	30320521T	SLIDE HOOK		
	29	30320522T	PU SHAFT		
	30	30320525T	CLAMPER ARM SPG		
	31	30320526T	SELECT L ARM SP		
	32	30320538T	SUSPENSION SP R		
	33	30320529T	SELECT ARM R		
	34	30320530T	LINK PLATE		
	35	30320531T	LINK PLATE SPG		
	36	30320523T	CUSHION F		
	37	30320524T	CUSHION R		
	38	30320539T	SUSPENSION SP L		
	61	69011614T	PICKUP OPT-725		
	62	64180406T	DET SW ESE22		
	71	303210301T	CONN PWB ASS'Y		
	72	30321002T	MODE SW		
	73	30321003T	LOAD MOTOR WIRE		
	74	30321005T	MODE SW WIRE		
	75	30321009T	SL WIRE		
	76	30321011T	WIRE HOLDER		
	77	19501403T	WIRE CLUMPER		
	81	303211301T	ROLLER SHAFT AS		
	82	303211501T	L GEAR PLATE RV		
	83	303211302T	LOADING PLATE A		
	84	303211502T	LOCK ARM RV ASS		
	85	303211303T	L/F MOTOR ASS'Y		
	86	30321101T	LOADING GEAR 1		
	87	30321102T	LOADING GEAR 2		
	88	30321103T	LOADING GEAR 3		
	89	30321104T	LOADING GEAR 4		
	90	30321105T	LOADING GEAR 5		
	91	30321106T	LOADING GEAR 6		
	92	30321107T	LOADING GEAR 7		
	93	30321149T	ROLLER GUIDE		
	94	30321114T	ROLLER GUIDE SP		
	95	30321116T	DISC STOPPER AR		
	96	30321117T	DISC ST ARM SPG		
	97	30321118T	LD GEAR BRACKET		
	98	30321125T	L SIDE PLATE		
	99	30321131T	LOAD PLATE SPG		
	100	30321133T	LDG ROLLER		
	101	18211223T	COLLAR SCREW		
	111	9P0420031T	SCREW		
	112	9P0420041T	TAP.SCREW		
	113	9B0320041T	SCREW		
	114	9C0117183T	SCREW		
	115	9C0120203T	SCREW		
	116	9C0317503T	SCREW		
	121	9W0130170T	PW 3.5X8X0.3		
	122	9W0513060T	HL WASHER		
	123	9W0710070T	L WASHER		
	124	9E0100152T	E RING		
	125	9W0113020T	PW 2.1X4X0.13		

Electrical parts list

Main board(KD-G111_EEXEYEU)

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC151	NJM4565M-WE	IC		
IC301	TEA6320T-X	IC		
IC321	LA4743K	POWER IC		
IC501	AN22002A-W	IC		
IC541	LA6242H-X	IC		
IC561	MN6627482WA	IC		
IC801	JES01-9C84	IC		
IC901	HA13164A	IC		
Q321	KTD1304-X	TRANSISTOR		
Q332	KTD1304-X	TRANSISTOR		
Q432	KTD1304-X	TRANSISTOR		
Q501	2SA2093/QR/-T	TRANSISTOR		
Q541	2SA2093/QR/-T	TRANSISTOR		
Q701	RT1N141C-X	TRANSISTOR		
Q702	RT1N141C-X	TRANSISTOR		
Q731	2SC3928A/R/-X	TRANSISTOR		
Q732	2SC3928A/R/-X	TRANSISTOR		
Q791	2SB1197K/QR/-X	TRANSISTOR		
Q792	2SA1530A/R/-X	TRANSISTOR		
Q793	RT1N141C-X	TRANSISTOR		
Q861	RT1P141C-X	TRANSISTOR		
Q902	2SC3928A/R/-X	TRANSISTOR		
Q903	2SA1530A/R/-X	TRANSISTOR		
D321	1SS133-T2	SI DIODE		
D332	KDS4148U-X	DIODE		
D333	KDS4148U-X	DIODE		
D551	1A3G-T1	SI DIODE		
D701	1SS133-T2	SI DIODE		
D702	1SS133-T2	SI DIODE		
D791	KDS4148U-X	DIODE		
D792	KDS4148U-X	DIODE		
D804	1SS133-T2	SI DIODE		
D810	KDS4148U-X	DIODE		
D821	KDZ6.2V-X	Z DIODE		
D822	KDZ6.2V-X	Z DIODE		
D823	KDZ6.2V-X	Z DIODE		
D824	KDZ6.2V-X	Z DIODE		
D825	KDZ6.2V-X	Z DIODE		
D826	KDZ6.2V-X	Z DIODE		
D827	KDZ6.2V-X	Z DIODE		
D828	KDZ6.2V-X	Z DIODE		
D861	MTZJ4.7B-T2	Z DIODE		
D866	KDS4148U-X	DIODE		
D867	KDS4148U-X	DIODE		
D868	KDS4148U-X	DIODE		
D869	KDS4148U-X	DIODE		
D901	1N5401-F64	DIODE		
D903	1SS133-T2	SI DIODE		
D904	RB160M-30-X	SB DIODE		
D905	RB160M-30-X	SB DIODE		
C101	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C102	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C151	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C152	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C153	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C155	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C201	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C202	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C251	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C252	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C253	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C255	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C256	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C302	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C303	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C304	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C305	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C306	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C307	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C308	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C309	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C311	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C312	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C313	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C314	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C321	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C327	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C328	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C329	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C330	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C331	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C332	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C333	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C334	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C335	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C402	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C403	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C404	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C405	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C406	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C407	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C408	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C419	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C420	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C427	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C432	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C433	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C434	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C435	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C502	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C504	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C505	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C507	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C509	NCB31EK-393X	C CAPACITOR	0.039uF 25V K	
C510	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C511	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C513	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C514	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C515	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C516	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C518	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C519	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C520	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C521	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C522	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C523	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C524	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C525	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C528	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C540	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C541	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C542	NCB31EK-332X	C CAPACITOR	3300pF 25V K	
C543	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C545	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C546	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C551	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C552	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C555	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C556	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C557	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C558	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C561	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C562	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C563	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C564	NCB21EK-223X	C CAPACITOR	0.022uF 25V K	
C565	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C566	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C567	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C568	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C570	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C571	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C572	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C573	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C574	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C576	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C577	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C579	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C701	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C702	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C703	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C709	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C710	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C711	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C712	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C713	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C715	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C717	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C718	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C720	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C725	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C731	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C733	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C801	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C802	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C803	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C804	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C807	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C821	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C822	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C823	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C824	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C861	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C862	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C901	QEZ0645-228	E CAPACITOR	2200uF	
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
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	
C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C911	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C914	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C915	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
R101	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R102	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R151	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R152	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R153	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R154	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R155	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R156	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R201	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R202	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R251	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R252	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R253	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R255	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R256	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R301	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R303	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R307	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R308	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R322	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R323	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R333	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R334	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R336	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R401	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R403	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R404	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R407	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R408	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R433	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R501	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R502	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R503	NRS181J-393X	MG RESISTOR	39kΩ 1/8W J	
R504	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R505	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R506	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R508	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R509	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R510	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R511	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R513	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R516	NRSA63J-623X	MG RESISTOR	62kΩ 1/16W J	
R518	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R524	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R525	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R526	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R541	NRSA02J-682X	MG RESISTOR	6.8kΩ 1/10W J	
R542	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R543	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R544	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R545	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R546	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R547	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R548	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R550	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R551	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R552	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R553	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R554	NRS181J-513X	MG RESISTOR	51kΩ 1/8W J	
R557	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R558	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R559	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R560	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R563	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R564	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R567	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R568	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R570	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R571	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R573	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R574	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R575	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R576	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R581	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R702	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R704	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R708	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R725	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R733	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R735	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	
R736	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R791	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R792	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R793	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R795	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R796	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R797	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R798	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R801	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R803	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R804	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R805	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R807	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R808	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R809	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R811	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R812	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R813	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R814	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R815	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R817	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R818	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R820	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R822	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R823	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R825	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R826	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R827	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R828	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R829	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R830	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R831	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R832	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R833	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R834	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R835	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R836	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R840	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R841	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R843	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R844	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R861	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R862	NRS181J-471X	MG RESISTOR	470Ω 1/8W 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	
R904	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R905	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R906	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R907	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R908	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R909	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R910	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R911	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
L501	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L561	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L562	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L701	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L801	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CJ321	QNN0519-001	PIN JACK		
CJ701	QNB0190-001	ANTENNA JACK		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN801	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0611-001	16P CONNECTOR		
TU701	QAU0394-001	TUNER PACK		
X561	QAX0714-001Z	C RESONATOR	16.000MHz	
X801	QAX0406-001Z	CRYSTAL	4.500MHz	

Switch board(KD-G111_EEXEYEU)

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PT6523LQ-L	IC		
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310VT/JK/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D608	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D612	SML-310VT/JK/-X	LED		
D613	SML-310VT/JK/-X	LED		
D614	SML-310VT/JK/-X	LED		
D615	SML-310VT/JK/-X	LED		
D616	SML-310VT/JK/-X	LED		
D617	SML-310VT/JK/-X	LED		
D618	SML-310LT/MN/-X	LED		
D641	MA8051/M/-X	Z DIODE		
D643	KDS4148U-X	DIODE		
C601	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C602	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
R601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R602	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R603	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R604	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R605	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R606	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R607	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R608	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R609	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R610	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R611	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R612	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R613	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R614	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R615	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R627	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R628	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R629	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R630	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R631	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R632	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R634	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R636	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R638	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R642	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R643	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R644	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R651	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R652	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R671	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
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		

Main board(KD-G111_E2EX2EY2EU2)

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC161	TEA6320T-X	IC		
IC301	LA4743K	POWER IC		
IC501	TA2157FN-X	RF AMP IC		
IC521	TC94A14FA	CD LSI IC		
IC561	LA6242H-X	IC		
IC571	NJM4565M-WE	IC		
IC701	UPD178078GF-707	IC		
IC901	HA13164A	IC		
Q1	UN2211-X	TRANSISTOR		
Q4	2SB709A/R/-X	TRANSISTOR		
Q5	2SB624/4/-X	TRANSISTOR		
Q6	UN2211-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q31	2SD601A/QR/-X	TRANSISTOR		
Q32	2SD601A/QR/-X	TRANSISTOR		
Q41	2SC3661-X	TRANSISTOR		
Q42	2SC3661-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q501	2SB1241/QR/-T	TRANSISTOR		
Q521	UN2111-X	TRANSISTOR		
Q522	UN2211-X	TRANSISTOR		
Q561	2SB1322/RS/-T	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2213-X	DIGI TRANSISTOR		
Q783	UN2111-X	TRANSISTOR		
Q901	2SB709A/QR/-X	TRANSISTOR		
Q902	UN2211-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D2	MA111-X	SI DIODE		
D3	MA111-X	SI DIODE		
D4	MA111-X	SI DIODE		
D321	MA111-X	SI DIODE		
D341	MA111-X	SI DIODE		
D561	1A3G-T1	SI DIODE		
D702	MA8062/M/-X	Z DIODE		
D703	MA8062/M/-X	Z DIODE		
D704	MA8062/M/-X	Z DIODE		
D705	MA8062/M/-X	Z DIODE		
D706	MA8062/M/-X	Z DIODE		
D707	MA8062/M/-X	Z DIODE		
D708	MA8062/M/-X	Z DIODE		
D781	MA111-X	SI DIODE		
D782	MA111-X	SI DIODE		
D783	MA8091/M/-X	Z DIODE		
D901	1N5401-F64	DIODE		
D902	MA111-X	SI DIODE		
D971	RB160M-30-X	SB DIODE		
D972	RB160M-30-X	SB DIODE		
C2	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C3	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C6	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C8	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C10	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C11	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C15	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C18	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C19	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C31	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C32	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C41	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C42	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C43	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C55	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C81	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C82	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C91	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C92	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C162	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C163	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C164	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C165	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C166	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C167	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C168	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C172	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C173	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C174	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C175	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C176	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C177	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C178	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C182	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C183	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C185	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C186	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C191	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C192	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C193	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C194	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C195	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C196	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C301	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C302	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C303	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C304	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C305	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C306	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C308	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C309	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C310	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C311	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
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	
C316	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C317	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C318	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C322	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C331	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C332	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C333	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C342	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C352	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C507	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C510	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C511	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C512	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C514	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C522	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C523	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C524	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C525	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C526	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C527	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C528	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C529	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C530	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C531	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C533	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C534	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C535	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C536	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C537	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C538	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C539	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C540	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C544	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C545	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C546	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C547	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C548	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C549	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C550	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C551	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C552	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C553	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C554	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C555	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C556	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C559	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C560	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C561	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C563	QEDJ1AM-107Z	E CAPACITOR	100uF 10V M	
C564	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C565	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C566	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C567	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C568	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C581	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C582	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C583	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C591	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C592	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C593	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C594	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C596	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C703	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C704	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C705	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C706	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C707	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C708	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C709	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C710	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C713	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C714	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C781	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C782	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C783	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C784	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C901	QEZ0646-228	E CAPACITOR	2200uF	
C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C904	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C906	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C908	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C909	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C910	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C911	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C913	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C915	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C918	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
R1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R10	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R12	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R13	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R14	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R16	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R17	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R31	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R32	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R33	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R35	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R41	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R42	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R43	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R44	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R45	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R81	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R82	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R91	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R92	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R162	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R164	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R166	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R167	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R168	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R174	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R175	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R176	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R177	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R178	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R191	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R341	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R342	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R343	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R351	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R352	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R353	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R503	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R504	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R505	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R506	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R507	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R508	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R509	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R512	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R514	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R516	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R519	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R521	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R522	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R523	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R524	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R527	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R528	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R529	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R531	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R532	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R533	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R534	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R536	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R537	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R539	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R561	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R562	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R563	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R564	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R566	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R567	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R568	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R569	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R571	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R572	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R573	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R574	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R575	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R576	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R577	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R581	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R582	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R583	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R584	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R586	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R591	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R593	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R594	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R595	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R597	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R706	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R708	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R710	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R719	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R721	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R722	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R723	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R725	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R726	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R730	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R732	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R735	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R736	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R738	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R740	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R743	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R744	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R752	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R782	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R905	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R906	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL244J-4R7Z	COIL	4.7uH J	
L521	QQL244J-470Z	COIL	47uH J	
L522	QQL244J-470Z	COIL	47uH J	
L523	QQL244J-470Z	COIL	47uH J	
L524	QQL244J-470Z	COIL	47uH J	
L701	QQL244K-4R7Z	COIL	4.7uH K	
L702	QQL244K-4R7Z	COIL	4.7uH K	
L703	QQL244K-4R7Z	COIL	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0611-001	16P CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
J301	QNN0519-001	PIN JACK		
TU1	QAU0281-001	TUNER PACK		
X521	QAX0413-001Z	CRYSTAL	16.9344MHz	
X701	QAX0406-001Z	CRYSTAL	4.500MHz	

Switch board(KD-G111_E2EX2EY2EU2)

Block No. [0][4]

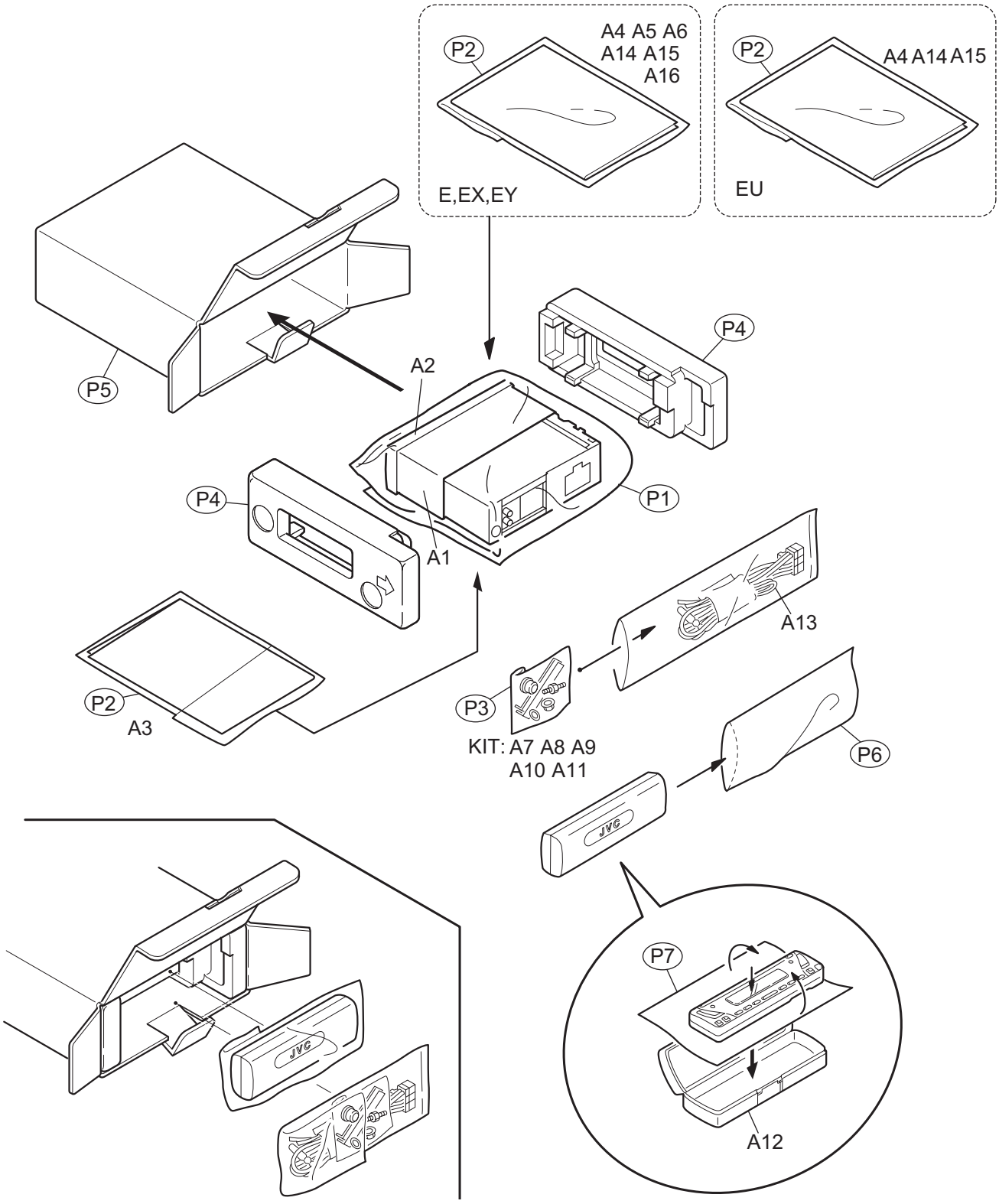
⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PT6523LQ-L	IC		
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310VT/JK/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D608	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D612	SML-310VT/JK/-X	LED		
D613	SML-310VT/JK/-X	LED		
D614	SML-310VT/JK/-X	LED		
D615	SML-310VT/JK/-X	LED		
D616	SML-310VT/JK/-X	LED		
D617	SML-310VT/JK/-X	LED		
D618	SML-310LT/MN/-X	LED		
D641	MA8051/M/-X	Z DIODE		
D643	KDS4148U-X	DIODE		
C601	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C602	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
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-821X	MG RESISTOR	820Ω 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R608	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R609	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R610	NRSA63J-392X	MG RESISTOR	3.9kΩ 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	
R627	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R628	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R629	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R630	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R631	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R632	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R634	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R636	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R638	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R642	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R643	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R644	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R651	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R652	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R671	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
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		

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.
(KD-G111)



Packing and Accessories

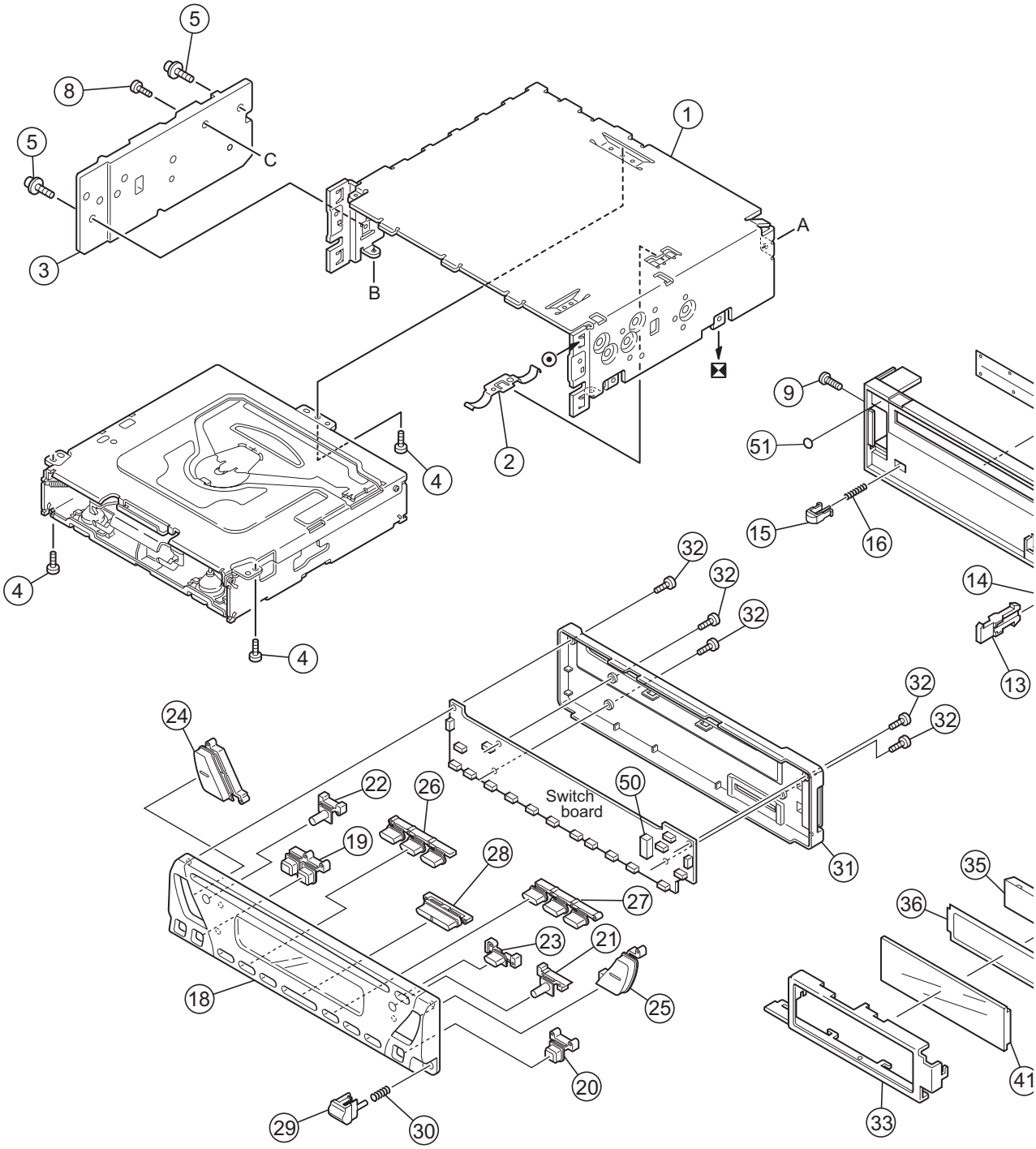
Block No. [M][3][M][M]

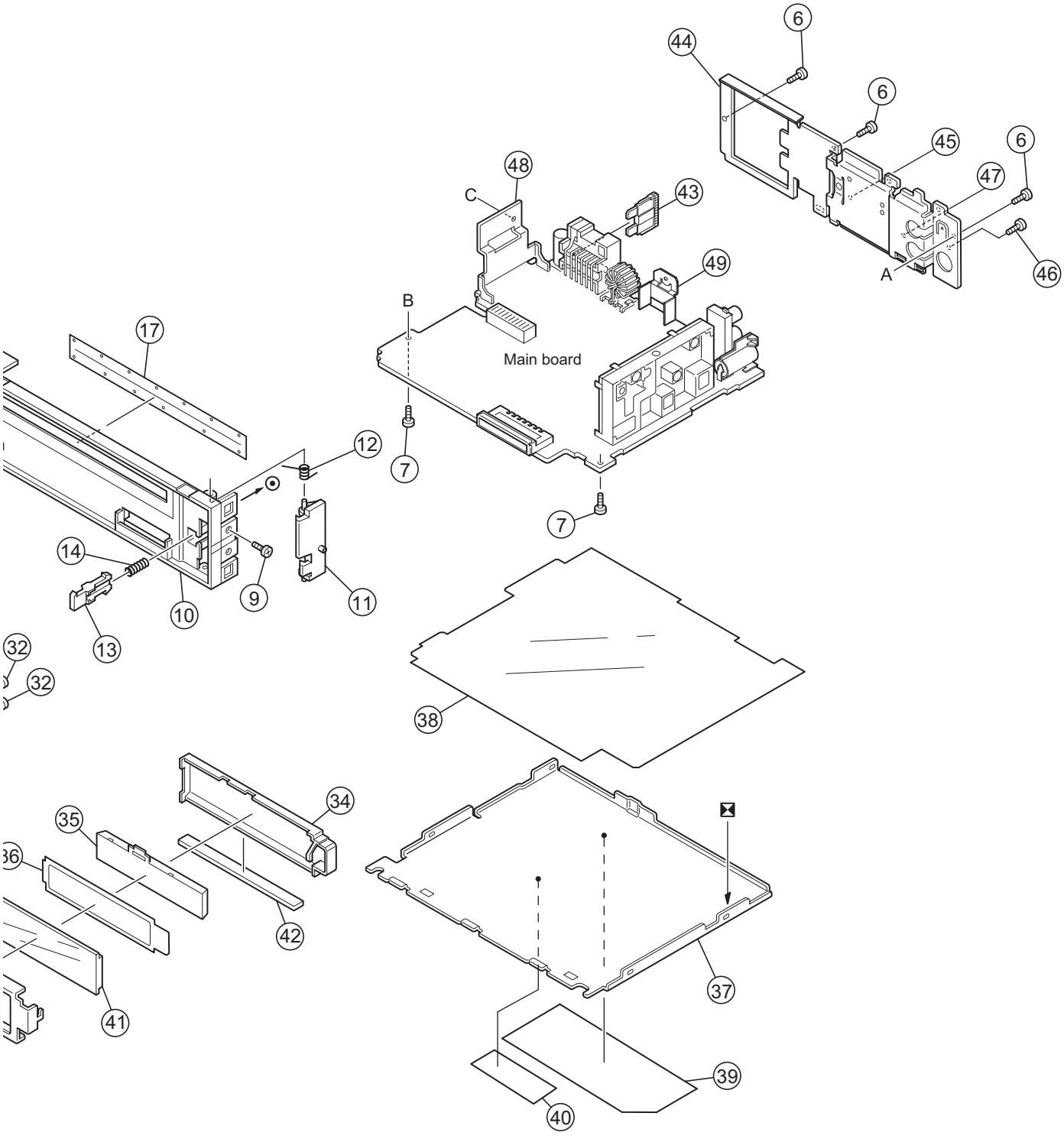
⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GE20137-003A	MOUNTING SLEEVE		
	A 2	GE20135-009A	TRIM PLATE		
	A 3	GET0253-001A	INST BOOK	GER FRE ITA	G111E,G111E2
	A 3	GET0253-003A	INST BOOK	ENG FRE	G111EU,G111EU2,G111EX,G111EX2
	A 3	GET0253-006A	INST BOOK	ENG GER RUS	G111EY,G111EY2
	A 4	GET0253-008A	INSTALL MANUAL		G111E,G111E2
	A 4	GET0253-010A	INSTALL MANUAL		G111EU,G111EU2,G111EX,G111EX2
	A 4	GET0253-013A	INSTALL MANUAL		G111EY,G111EY2
	A 5	----------	WARRANTY CARD	BT-54023-1	G111E,G111E2,G111EX,G111EX2,G111EY,G111EY2
	A 6	VND3046-001	SERIAL TICKET		G111E,G111E2,G111EX,G111EX2,G111EY,G111EY2
	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	FSJB3002-00C	HARD CASE		
	A 13	QAM0089-002	16P CORD ASSY		
	A 14	GET0253-002A	INST BOOK	SPA GRE POR	G111E,G111E2
	A 14	GET0253-005B	INST BOOK	SPA TUR PER	G111EU,G111EU2
	A 14	GET0253-004A	INST BOOK	DUT SWE DAN FIN	G111EX,G111EX2
	A 14	GET0253-007A	INST BOOK	POL CZE HUN	G111EY,G111EY2
	A 15	GET0253-009A	INSTALL MANUAL		G111E,G111E2
	A 15	GET0253-012A	INSTALL MANUAL		G111EU,G111EU2
	A 15	GET0253-011A	INSTALL MANUAL		G111EX,G111EX2
	A 15	GET0253-014A	INSTALL MANUAL		G111EY,G111EY2
	A 16	VND3050-002	IDENTITY CARD		G111E,G111E2,G111EX,G111EX2,G111EY,G111EY2
	KIT	SRW-385U	SCREW PARTS KIT	A7 A8 A9 A10 A11	
	P 1	QPC03004315P	POLY BAG	30cm x 43cm	
	P 2	FSPG4002-001	POLY BAG	(x2)	
	P 3	QPA00801205	POLY BAG	8cm x 12cm	
	P 4	GE10070-003A	EPS CUSHION		
	P 5	GE31399-003A	CARTON		
	P 6	QPA01003003	POLY BAG	10cm x 30cm	
	P 7	FSYH4036-068	SHEET		

Exploded view of general assembly and parts list

(KD-G117)

Block No. M 2 M M




6
44
6
45
6
47
48
C
43
49
B
Main board
A
46
17
12
7
7
14
9
11
10
13
32
32
38
34
35
36
42
41
37
39
40

General Assembly

Block No. [M][2][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10104-001A	TOP CHASSIS		
	2	GE40135-001A	EARTH PLATE		
	3	GE30938-003A	SIDE PANEL		
	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	GE10103-001A	FRONT CHASSIS		
	11	GE31569-002A	LOCK LEVER		
	12	GE40269-001A	TORSION SPRING		
	13	GE31568-001A	RLS KNOB		
	14	GE40202-011A	COMP.SPRING		
	15	GE40250-001A	PANEL STOPPER		
	16	GE40202-009A	COMP.SPRING		
	17	GE40257-001A	BLIND		
	18	GE20176-006A	FRONT PANEL ASSY		
	19	GE31561-003A	POWER/SEL BTN		
	20	GE31572-005A	EQ BUTTON		
	21	GE31562-001A	MODE BUTTON		
	22	GE31563-001A	DISP BUTTON		
	23	GE31564-001A	EJECT BUTTON		
	24	GE31560-001A	VOL BUTTON		
	25	GE31559-001A	SEARCH BUTTON		
	26	GE31555-001A	PRESET BTN (L)		
	27	GE31556-001A	PRESET BTN (R)		
	28	GE31557-007A	D.FUNC BUTTON		
	29	GE31558-003A	DETACH BUTTON		
	30	GE40202-010A	COMP.SPRING		
	31	GE10102-001A	REAR COVER		
	32	VKZ4777-010	MINI SCREW	(x5)	
	33	GE31565-001A	LCD CASE		
	34	GE31566-001A	LENS CASE		
	35	GE31567-001A	LCD LENS		
	36	GE40248-001A	LIGHTING SHEET		
	37	GE31570-001A	BOTTOM COVER		
	38	FSMA3004-203	INSULATOR		
	39	GE31407-001A	NAME PLATE		G117EE
	39	GE31407-002A	NAME PLATE		G117EE2
	40	LV41843-002A	LASER CAUTION		
	41	QLD0350-001	LCD MODULE		
	42	QNZ0442-001	LCD CONNECTOR		
⚠	43	QMFZ047-150-T	FUSE	15A	
	44	GE31571-006A	REAR BRACKET		
	45	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	46	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	47	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	48	GE40172-004A	IC BRACKET		
	49	GE40124-002A	REG BRACKET		
	50	GE30854-001A	LED HOLDER		
	51	FSYH4036-098	SHEET		

Electrical parts list

Main board(KD-G117_EE)

Block No. [0][5]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC161	TEA6320T-X	IC		
IC301	LA47516	POWER IC		
IC501	TA2157FN-X	RF AMP IC		
IC521	TC94A14FA	CD LSI IC		
IC561	LA6242H-X	IC		
IC571	NJM4565M-WE	IC		
IC701	UPD178078GF-690	IC		
IC901	HA13164A	IC		
Q1	UN2211-X	TRANSISTOR		
Q2	2SD601A/QR/-X	TRANSISTOR		
Q3	UN2111-X	TRANSISTOR		
Q4	2SB709A/R/-X	TRANSISTOR		
Q5	2SB624/4/-X	TRANSISTOR		
Q6	UN2211-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q31	2SD601A/QR/-X	TRANSISTOR		
Q32	2SD601A/QR/-X	TRANSISTOR		
Q41	2SC3661-X	TRANSISTOR		
Q42	2SC3661-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q501	2SB1241/QR/-T	TRANSISTOR		
Q521	UN2111-X	TRANSISTOR		
Q522	UN2211-X	TRANSISTOR		
Q561	2SB1322/RS/-T	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2211-X	TRANSISTOR		
Q783	UN2111-X	TRANSISTOR		
Q901	2SB709A/QR/-X	TRANSISTOR		
Q902	UN2211-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D2	MA111-X	SI DIODE		
D3	MA111-X	SI DIODE		
D4	MA111-X	SI DIODE		
D321	MA111-X	SI DIODE		
D341	MA111-X	SI DIODE		
D561	1A3G-T1	SI DIODE		
D702	MA8062/M/-X	Z DIODE		
D703	MA8062/M/-X	Z DIODE		
D704	MA8062/M/-X	Z DIODE		
D705	MA8062/M/-X	Z DIODE		
D706	MA8062/M/-X	Z DIODE		
D707	MA8062/M/-X	Z DIODE		
D708	MA8062/M/-X	Z DIODE		
D781	MA111-X	SI DIODE		
D782	MA111-X	SI DIODE		
D783	MA8110/M/-X	Z DIODE		
D901	1N5401-F64	DIODE		
D902	MA111-X	SI DIODE		
D971	RB160M-30-X	SB DIODE		
D972	RB160M-30-X	SB DIODE		
C2	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C4	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C5	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C8	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C10	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C31	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C32	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C41	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C42	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C43	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C55	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C81	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C82	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C83	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C84	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C91	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C92	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C93	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C94	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C162	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C163	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C164	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C165	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C166	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C167	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C168	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C172	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C173	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C174	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C175	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C176	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C177	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C178	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C182	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C183	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C185	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C186	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C191	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C192	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C193	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C194	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C195	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C196	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C301	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C302	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C303	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C304	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C305	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C306	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C308	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C309	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C310	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C311	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
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	
C316	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C317	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C318	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C322	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C323	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C331	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C332	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C333	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C342	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C352	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C507	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C510	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C511	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C512	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C514	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C522	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C523	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C524	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C525	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C526	NCB31HK-272X	C CAPACITOR	2700pF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C527	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C528	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C529	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C530	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C531	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C533	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C534	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C535	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C536	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C537	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C538	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C539	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C540	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C544	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C545	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C546	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C547	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C548	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C549	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C550	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C551	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C552	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C553	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C554	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C555	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C556	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C559	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C560	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C561	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C563	QEDJ1AM-107Z	E CAPACITOR	100uF 10V M	
C564	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C565	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C566	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C567	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C568	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C581	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C582	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C583	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C591	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C592	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C593	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C594	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C596	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C703	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C704	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C705	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C706	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C707	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C708	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C709	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C710	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C713	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C714	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C717	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C718	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C781	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C782	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C783	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C784	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C901	QEZ0675-338	E CAPACITOR	3300uF	
C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C904	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C906	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C908	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C909	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C910	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C911	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C913	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C915	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C918	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
R1	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R10	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R31	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R32	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R33	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R35	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R41	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R42	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R43	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R44	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R45	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R51	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R52	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R59	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R81	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R82	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R91	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R92	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R162	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R164	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R166	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R167	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R168	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R174	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R175	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R176	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R177	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R178	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R191	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R301	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R341	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R342	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R343	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R351	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R352	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R353	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R503	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R504	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R505	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R506	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R507	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R508	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R509	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R512	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R514	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R516	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R519	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R521	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R522	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R523	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R524	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R527	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R528	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R529	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R531	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R532	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R533	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R534	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R536	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R537	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R539	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R561	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R562	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R563	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R564	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R566	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R567	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R568	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R569	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R571	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R572	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R573	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R574	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R575	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R576	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R577	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R581	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R582	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R583	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R584	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R586	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R591	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R593	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R594	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R595	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R597	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R706	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R708	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R710	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R719	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R721	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R722	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R723	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R725	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R726	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R730	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R732	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R734	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R735	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R736	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R738	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R740	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R743	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R752	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R782	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R882	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R905	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R906	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL244J-4R7Z	COIL	4.7uH J	
L521	QQL244J-470Z	COIL	47uH J	
L522	QQL244J-470Z	COIL	47uH J	
L523	QQL244J-470Z	COIL	47uH J	
L524	QQL244J-470Z	COIL	47uH J	
L701	QQL244K-4R7Z	COIL	4.7uH K	
L702	QQL244K-4R7Z	COIL	4.7uH K	
L703	QQL244K-4R7Z	COIL	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0650-001	CAR CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
J301	QNN0519-001	PIN JACK		
TU1	QAU0314-001	TUNER		
X521	QAX0413-001Z	CRYSTAL	16.9344MHz	
X701	QAX0406-001Z	CRYSTAL	4.500MHz	

Switch board(KD-G117_EE)

Block No. [0][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PT6523LQ-L	LCD DRIVER		
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310LT/MN/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D608	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D612	SML-310VT/JK/-X	LED		
D613	SML-310VT/JK/-X	LED		
D614	SML-310VT/JK/-X	LED		
D615	SML-310VT/JK/-X	LED		
D616	SML-310VT/JK/-X	LED		
D617	SML-310LT/MN/-X	LED		
D618	SML-310LT/MN/-X	LED		
D631	NSPW310BS/BRS/	LED		
D632	NSPW310BS/BRS/	LED		
D641	MA8051/M/-X	Z DIODE		
D643	MA111-X	SI DIODE		
C601	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C602	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
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-821X	MG RESISTOR	820Ω 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R608	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R609	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R610	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	
R627	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R628	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R629	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R630	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R632	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R634	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R636	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R638	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R642	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R644	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R651	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R652	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R671	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
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		

Main board(KD-G117_EE2)

Block No. [0][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC161	TEA6320T-X	IC		
IC301	LA47516	POWER IC		
IC501	TA2157FN-X	RF AMP IC		
IC521	TC94A14FA	CD LSI IC		
IC561	LA6242H-X	IC		
IC571	NJM4565M-WE	IC		
IC701	UPD178078GF-690	IC		
IC901	HA13164A	IC		
Q1	UN2211-X	TRANSISTOR		
Q2	2SD601A/QR/-X	TRANSISTOR		
Q3	UN2111-X	TRANSISTOR		
Q4	2SB709A/R/-X	TRANSISTOR		
Q5	2SB624/4/-X	TRANSISTOR		
Q6	UN2211-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q31	2SD601A/QR/-X	TRANSISTOR		
Q32	2SD601A/QR/-X	TRANSISTOR		
Q41	2SC3661-X	TRANSISTOR		
Q42	2SC3661-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q501	2SB1241/QR/-T	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q521	UN2111-X	TRANSISTOR		
Q522	UN2211-X	TRANSISTOR		
Q561	2SB1322/RS/-T	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2213-X	DIGI TRANSISTOR		
Q783	UN2111-X	TRANSISTOR		
Q901	2SB709A/QR/-X	TRANSISTOR		
Q902	UN2211-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D2	MA111-X	SI DIODE		
D3	MA111-X	SI DIODE		
D4	MA111-X	SI DIODE		
D321	MA111-X	SI DIODE		
D341	MA111-X	SI DIODE		
D561	1A3G-T1	SI DIODE		
D702	MA8062/M/-X	Z DIODE		
D703	MA8062/M/-X	Z DIODE		
D704	MA8062/M/-X	Z DIODE		
D705	MA8062/M/-X	Z DIODE		
D706	MA8062/M/-X	Z DIODE		
D707	MA8062/M/-X	Z DIODE		
D708	MA8062/M/-X	Z DIODE		
D781	MA111-X	SI DIODE		
D782	MA111-X	SI DIODE		
D783	MA8091/M/-X	Z DIODE		
D901	1N5401-F64	DIODE		
D902	MA111-X	SI DIODE		
D971	RB160M-30-X	SB DIODE		
D972	RB160M-30-X	SB DIODE		
C2	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C4	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C5	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C8	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C10	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C14	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C31	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C32	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C41	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C42	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C43	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C55	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C81	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C82	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C83	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C84	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C91	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C92	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C93	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C94	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C162	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C163	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C164	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C165	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C166	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C167	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C168	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C172	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C173	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C174	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C175	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C176	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C177	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C178	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C182	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C183	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C185	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C186	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C191	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C192	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C193	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C194	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C195	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C196	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C301	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C302	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C303	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C304	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C305	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C306	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C308	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C309	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C310	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C311	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
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	
C316	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C317	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C318	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C322	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C323	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C331	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C332	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C333	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C342	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C352	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C507	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C510	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C511	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C512	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C514	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C522	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C523	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C524	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C525	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C526	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C527	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C528	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C529	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C530	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C531	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C533	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C534	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C535	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C536	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C537	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C538	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C539	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C540	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C544	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C545	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C546	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C547	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C548	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C549	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C550	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C551	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C552	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C553	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C554	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C555	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C556	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C559	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C560	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C561	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C563	QEDJ1AM-107Z	E CAPACITOR	100uF 10V M	
C564	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C565	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C566	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C567	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C568	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C581	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C582	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C583	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C591	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C592	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C593	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C594	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C596	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C703	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C704	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C705	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C706	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C707	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C708	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C709	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C710	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C713	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C714	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C717	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C718	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C781	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C782	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C783	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C784	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C901	QEZ0675-338	E CAPACITOR	3300uF	
C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C904	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C906	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C908	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C909	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C910	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C911	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C913	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C915	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C918	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
R1	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R10	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R31	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R32	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R33	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R35	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R41	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R42	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R43	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R44	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R45	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R51	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R52	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R59	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R81	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R82	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R91	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R92	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R162	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R164	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R166	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R167	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R168	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R174	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R175	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R176	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R177	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R178	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R191	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R301	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R341	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R342	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R343	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R351	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R352	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R353	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R503	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R504	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R505	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R506	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R507	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R508	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R509	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R512	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R514	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R516	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R519	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R521	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R522	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R523	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R524	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R527	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R528	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R529	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R531	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R532	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R533	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R534	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R536	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R537	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R539	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R561	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R562	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R563	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R564	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R566	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R567	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R568	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R569	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R571	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R572	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R573	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R574	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R575	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R576	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R577	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R581	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R582	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R583	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R584	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R586	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R591	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R593	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R594	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R595	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R597	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R706	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R708	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R710	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R719	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R721	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R722	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R723	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R725	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R726	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R730	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R732	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R734	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R735	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R736	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R738	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R740	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R743	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R752	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R782	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R882	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R905	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R906	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL244J-4R7Z	COIL	4.7uH J	
L521	QQL244J-470Z	COIL	47uH J	
L522	QQL244J-470Z	COIL	47uH J	
L523	QQL244J-470Z	COIL	47uH J	
L524	QQL244J-470Z	COIL	47uH J	
L701	QQL244K-4R7Z	COIL	4.7uH K	
L702	QQL244K-4R7Z	COIL	4.7uH K	
L703	QQL244K-4R7Z	COIL	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0650-001	CAR CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
J301	QNN0519-001	PIN JACK		
TU1	QAU0221-001	TUNER		
X521	QAX0413-001Z	CRYSTAL	16.9344MHz	
X701	QAX0406-001Z	CRYSTAL	4.500MHz	

Switch board(KD-G117_EE2)

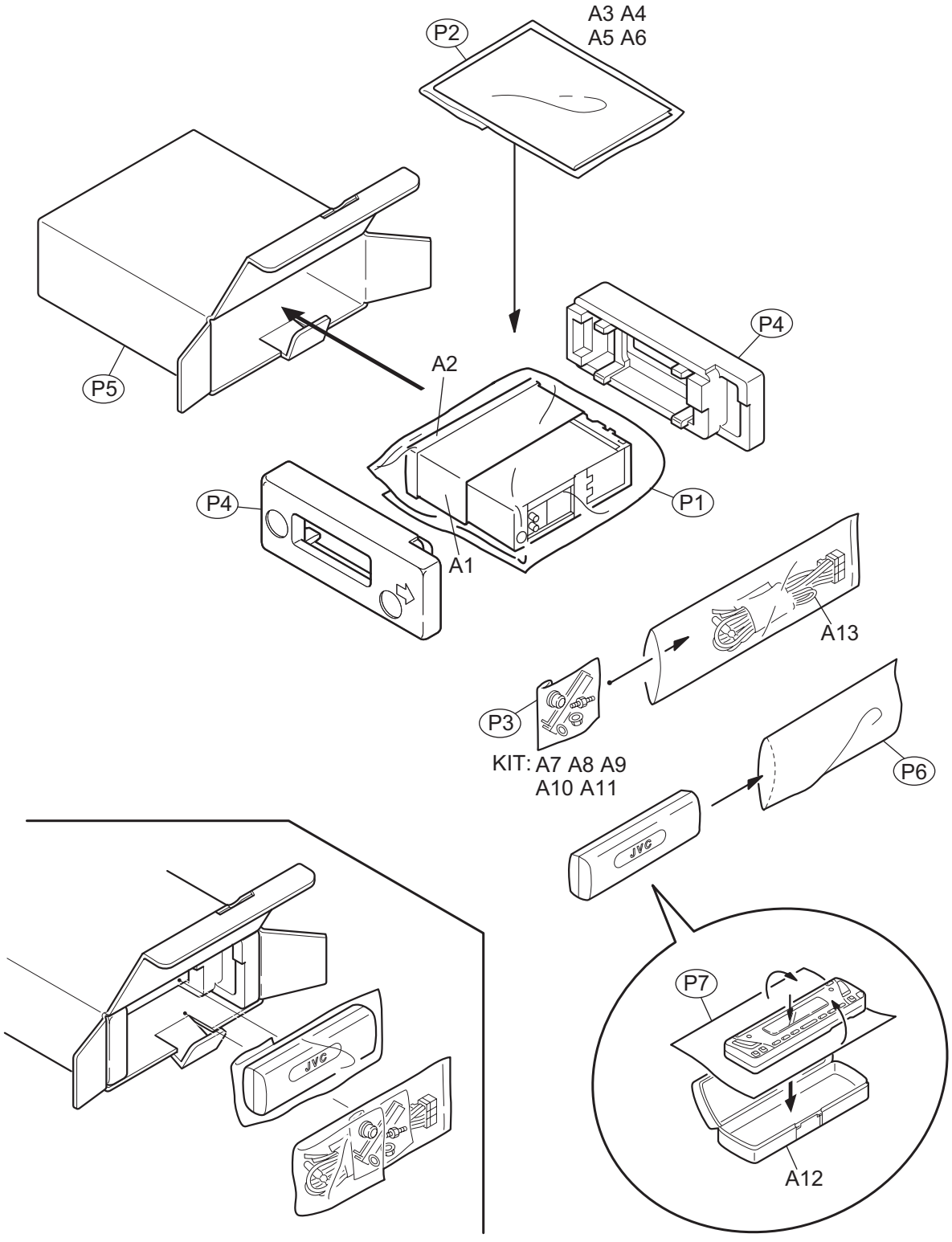
Block No. [0][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PT6523LQ-L	LCD DRIVER		
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310LT/MN/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D608	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D612	SML-310VT/JK/-X	LED		
D613	SML-310VT/JK/-X	LED		
D614	SML-310VT/JK/-X	LED		
D615	SML-310VT/JK/-X	LED		
D616	SML-310VT/JK/-X	LED		
D617	SML-310LT/MN/-X	LED		
D618	SML-310LT/MN/-X	LED		
D631	NSPW310BS/BRS/	LED		
D632	NSPW310BS/BRS/	LED		
D641	MA8051/M/-X	Z DIODE		
D643	MA111-X	SI DIODE		
C601	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C602	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
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-821X	MG RESISTOR	820Ω 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R608	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R609	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R610	NRSA63J-392X	MG RESISTOR	3.9kΩ 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	
R627	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R628	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R629	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R630	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R632	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R634	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R636	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R638	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R642	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R644	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R651	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R652	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R671	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
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		

Packing materials and accessories parts list

Block No. M 4 M M

No additional / supplemental order of WARRANTY CARDs are available.
(KD-G117)



Packing and Accessories

Block No. [M][4[M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GE20137-003A	MOUNTING SLEEVE		
	A 2	GE20135-007A	TRIM PLATE		
	A 3	GET0254-001A	INST BOOK	ENG RUS	
	A 4	GET0254-002A	INSTALL MANUAL		
	A 5	----------	WARRANTY CARD	BT-54023-1	
	A 6	VND3046-001	SERIAL TICKET		
	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	FSJB3002-00C	HARD CASE		
	A 13	QAM0157-002	POWER CORD		
	KIT	SRW-385U	SCREW PARTS KIT	A7 A8 A9 A10 A11	
	P 1	QPC03004315P	POLY BAG	30cm x 43cm	
	P 2	FSPG4002-001	POLY BAG		
	P 3	QPA00801205	POLY BAG	8cm x 12cm	
	P 4	GE10070-003A	EPS CUSHION		
	P 5	GE31408-002A	CARTON		
	P 6	QPA01003003	POLY BAG	10cm x 30cm	
	P 7	FSYH4036-068	SHEET		

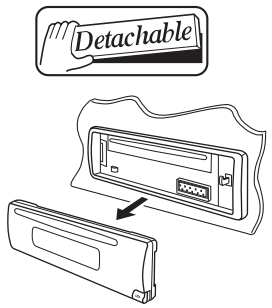
JVC

SCHEMATIC DIAGRAMS

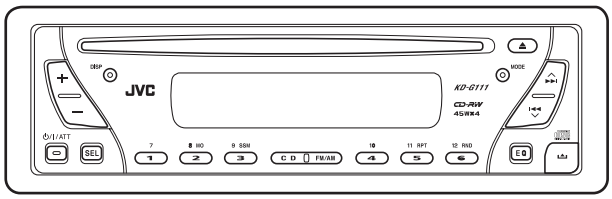
CD RECEIVER

KD-G111, KD-G117

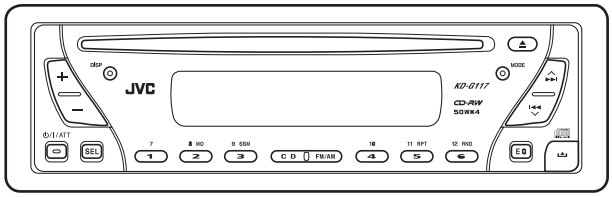
CD-ROM No.SML200502



KD-G111



KD-G117



KD-G111
Area suffix
E ---------- Southern Europe EX ---------- Northern Europe EY ---------- Eastern Europe EU ---------- Turkey

KD-G117
Area suffix
EE -------- Russian Federation

	KD-G111	KD-G117
Maximum Power Output	45 W	50 W
Continuous Power Output	17 W	19 W
FM Band Cover	87.5 MHz to 108.0 MHz	FM1/FM2 : 87.5 MHz to 108.0 MHz FM3 : 65.00 MHz to 74.00 MHz

Contents

COPYRIGHT ⓒ2005 Victor Company of Japan, Limited.

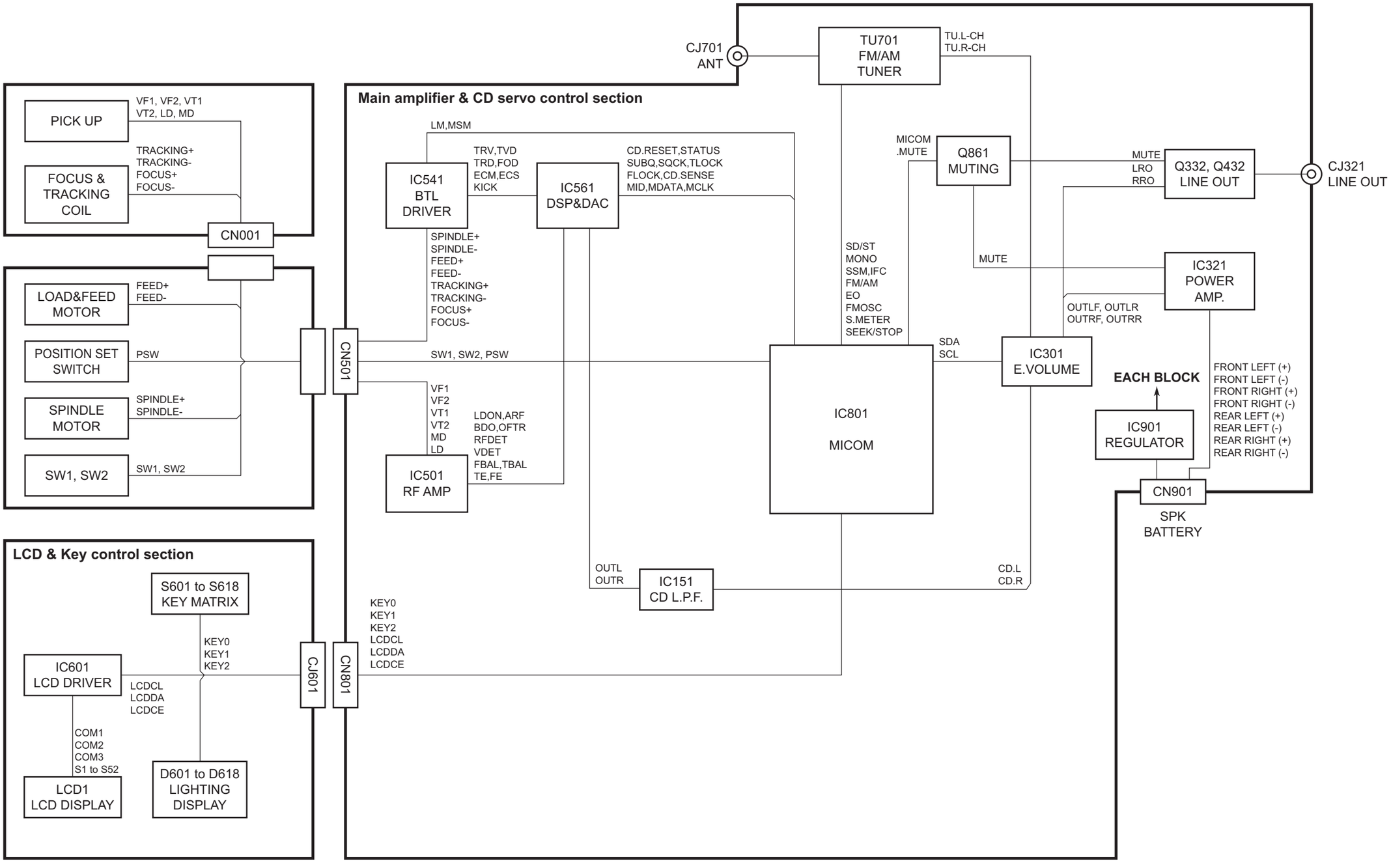
No.MA125SCH
2005/2

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 preforming 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.**

Block diagram (For KD-G111 E, EX, EY, EU version)



Standard schematic diagrams (For KD-G111 E, EX, EY, EU version)

■ Main amplifier section

MODEL	KD-G110J	KD-G115U/116U	KD-G111E	KD-S11J
C711	0.01uF	330pF	0.01uF	0.01uF
R737	0 Ω	NOT USED	0 Ω	0Ω
D793, D794	NOT USED	USED	NOT USED	NOT USED
R101, R201	6.8k	5.6k	5.6k	6.8k
R102, R202	8.2k	15k	15k	8.2k
C709, C710	0.022uF	0.015uF	0.015uF	0.022uF
C102, C202	0.0027uF	0.0022uF	0.0022uF	0.0027uF
IC321	LA47516	LA47516	LA4743K	LA47516
C317, C318	USED	USED	NOT USED	USED
B310	NOT USED	NOT USED	USED	NOT USED
C901	3300uF/16V QEZ0676-338	3300uF/16V QEZ0676-338	2200uF/16V QEZ0645-228	3300uF/16V QEZ0676-338
R702, R704	0Ω	0Ω	150	0 Ω
C714	120pF	120pF	0.01uF	120pF
Power Cord Assy	QAM0013-007	QAM0390-004	QAM0089-002	QAM0013-007

NOTES:

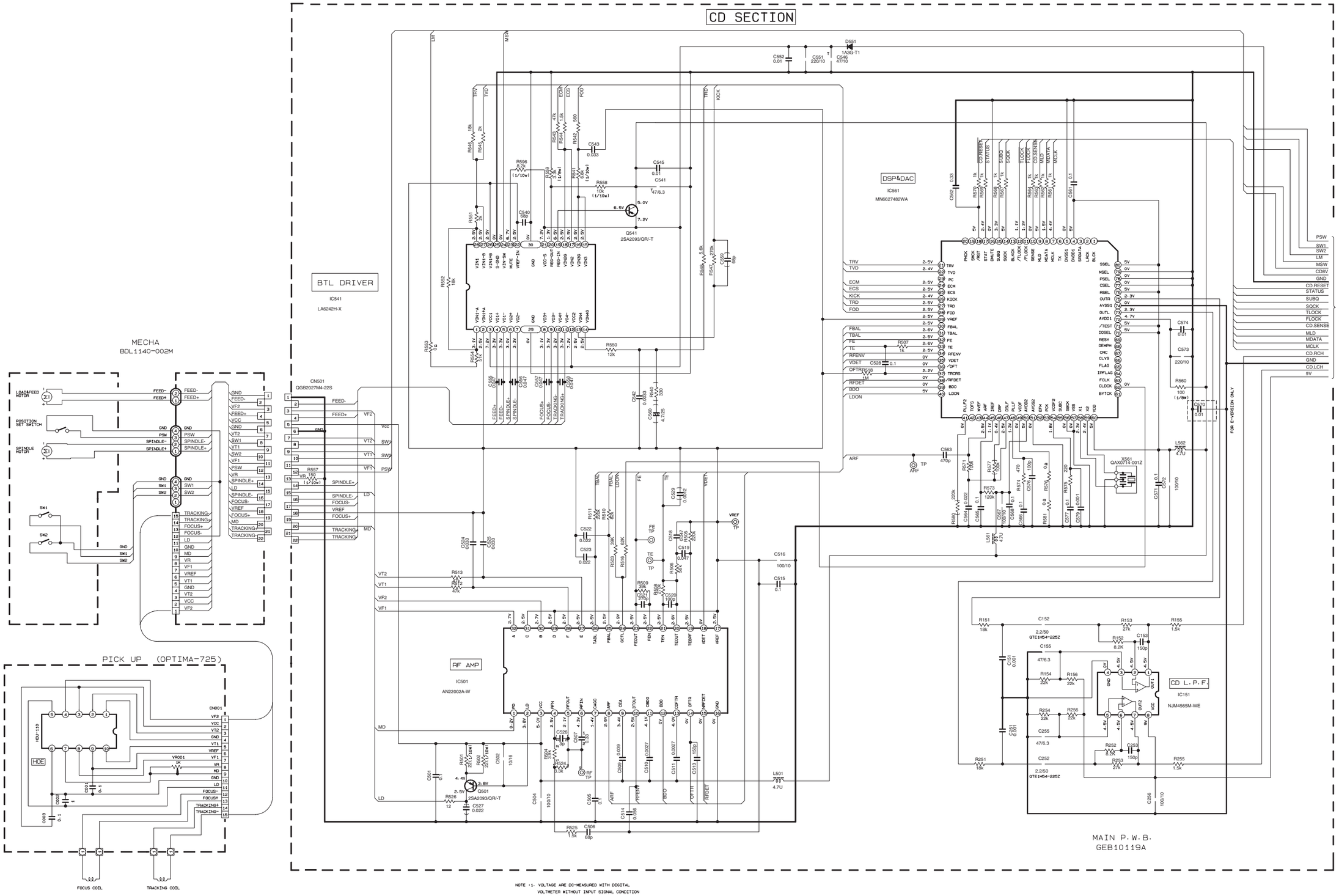
1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
   ----FM( ) AM MODE, ( ) CD MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/16W ±5%METAL GLAZE RESISTOR.
   ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM
   ALL CAPACITANCE VALUES ARE IN uF(p=pF).
   ALL E- CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

	10k 10k	UN2211-X
	10k 10k	UN2111-X

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

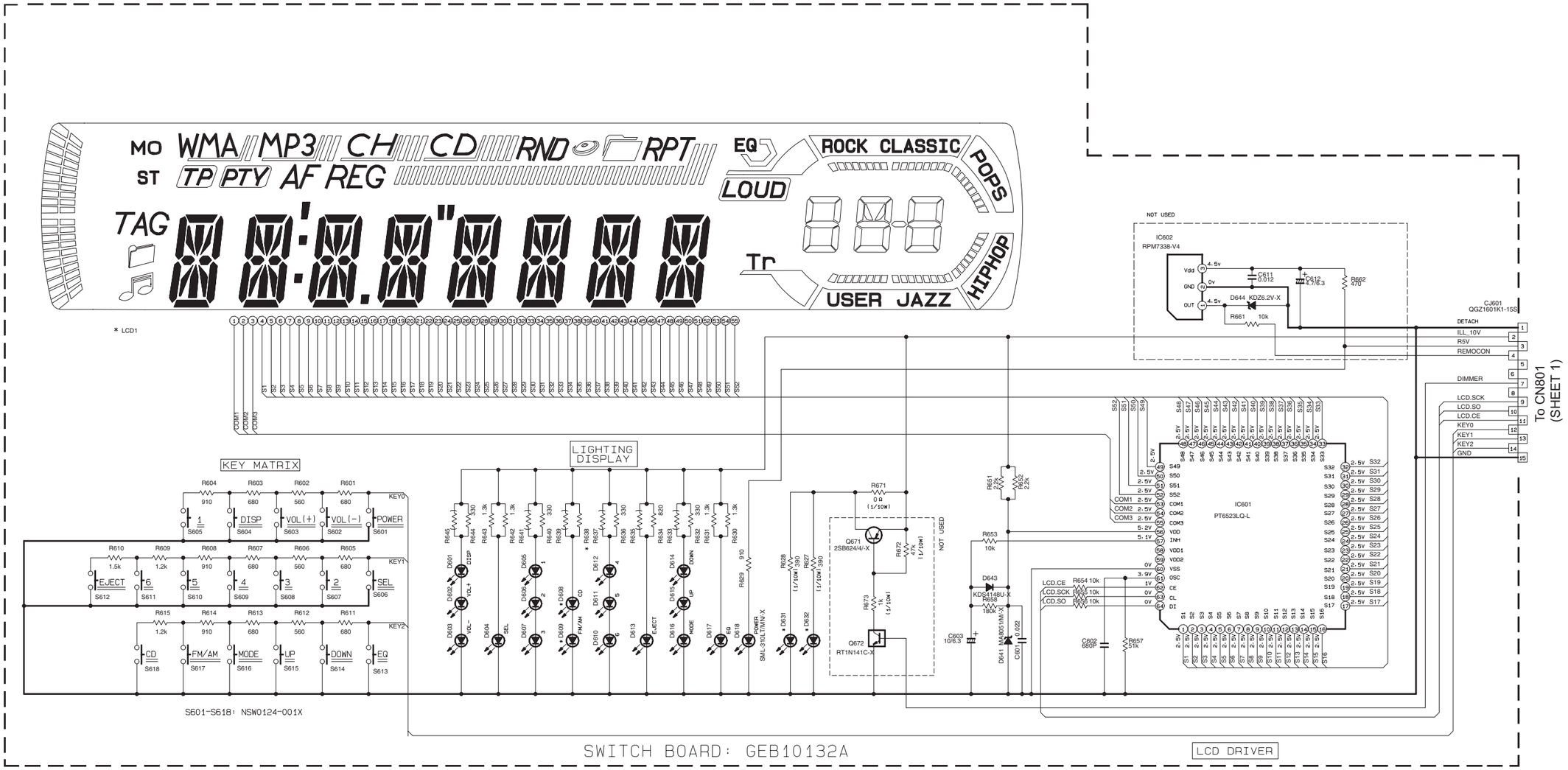
SHEET 1

■ CD servo control section



NOTE :1. VOLTAGE ARE DC-MEASURED WITH DIGITAL
VOLTMETER WITHOUT INPUT SIGNAL CONDITION
—— 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)

■ LCD & key control section



	KD-G110J	KD-G115U	KD-G116U	KD-G111E	KD-S11J
LCD1	QLD0352-001	QLD0353-001	QLD0353-001	QLD0353-001	QLD0353-001
D631, D632	NSPW310BS/B2RS/	NSPW310BS/BRS/	NSPW310BS/BRS/	NSPW310BS/BRS/	NSPW310BS/BRS/
D601~D607	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X
D608, D609	SML-310LT/MN/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X
D610~D617	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X
R638	510	470	470	470	470

FRONT CIRCUIT BOARD SECTION

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

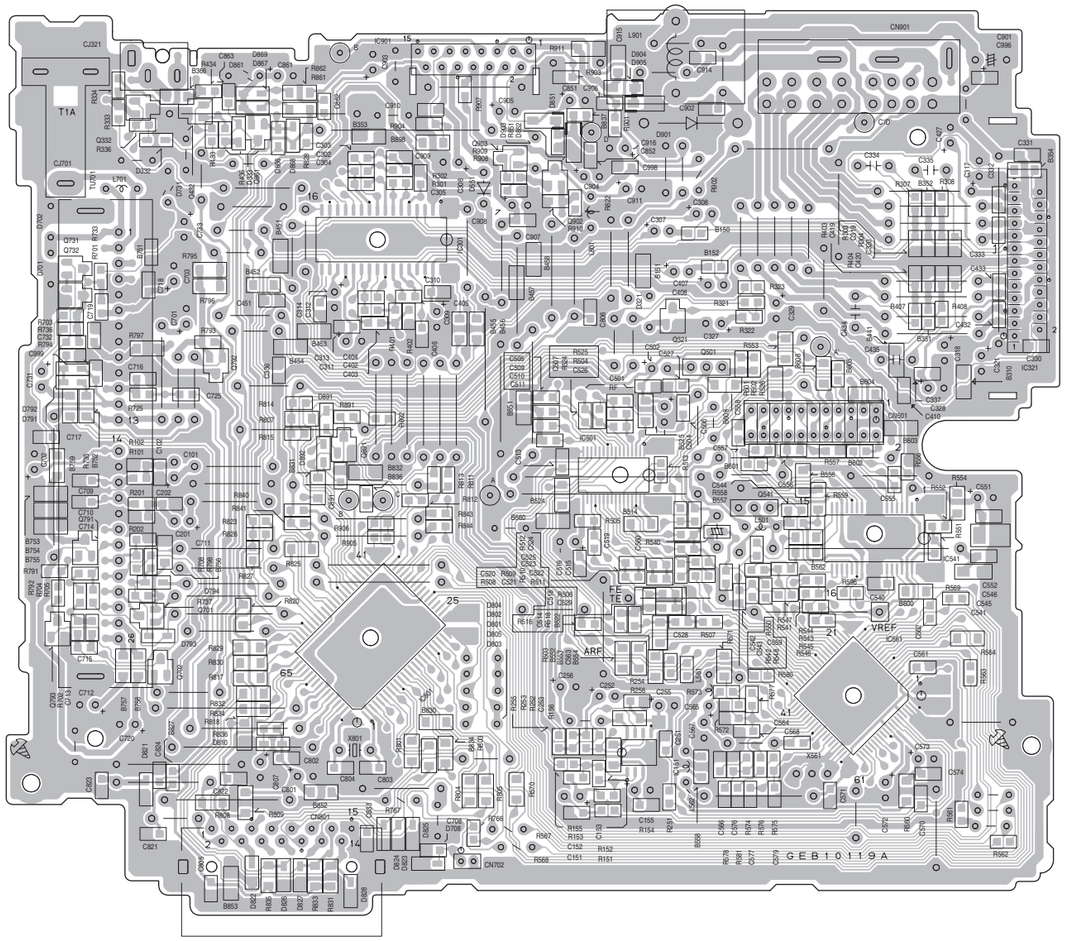
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

SHEET 3

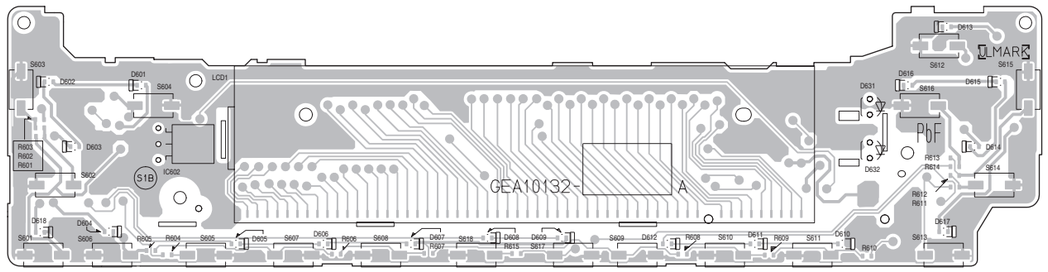
Printed circuit boards (For KD-G111 E, EX, EY, EU version)

■ Main board

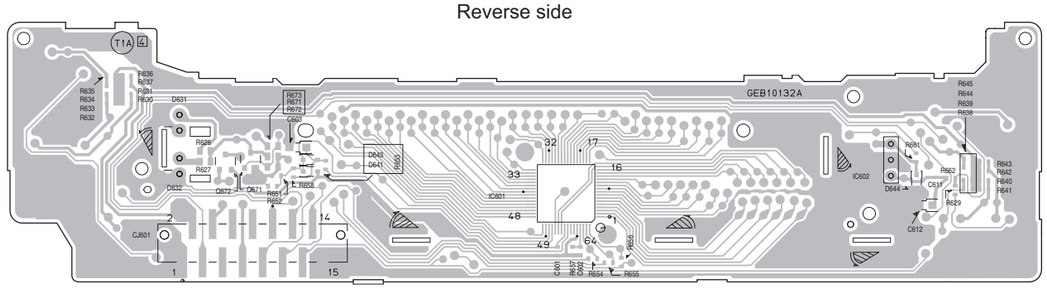


■ Switch board

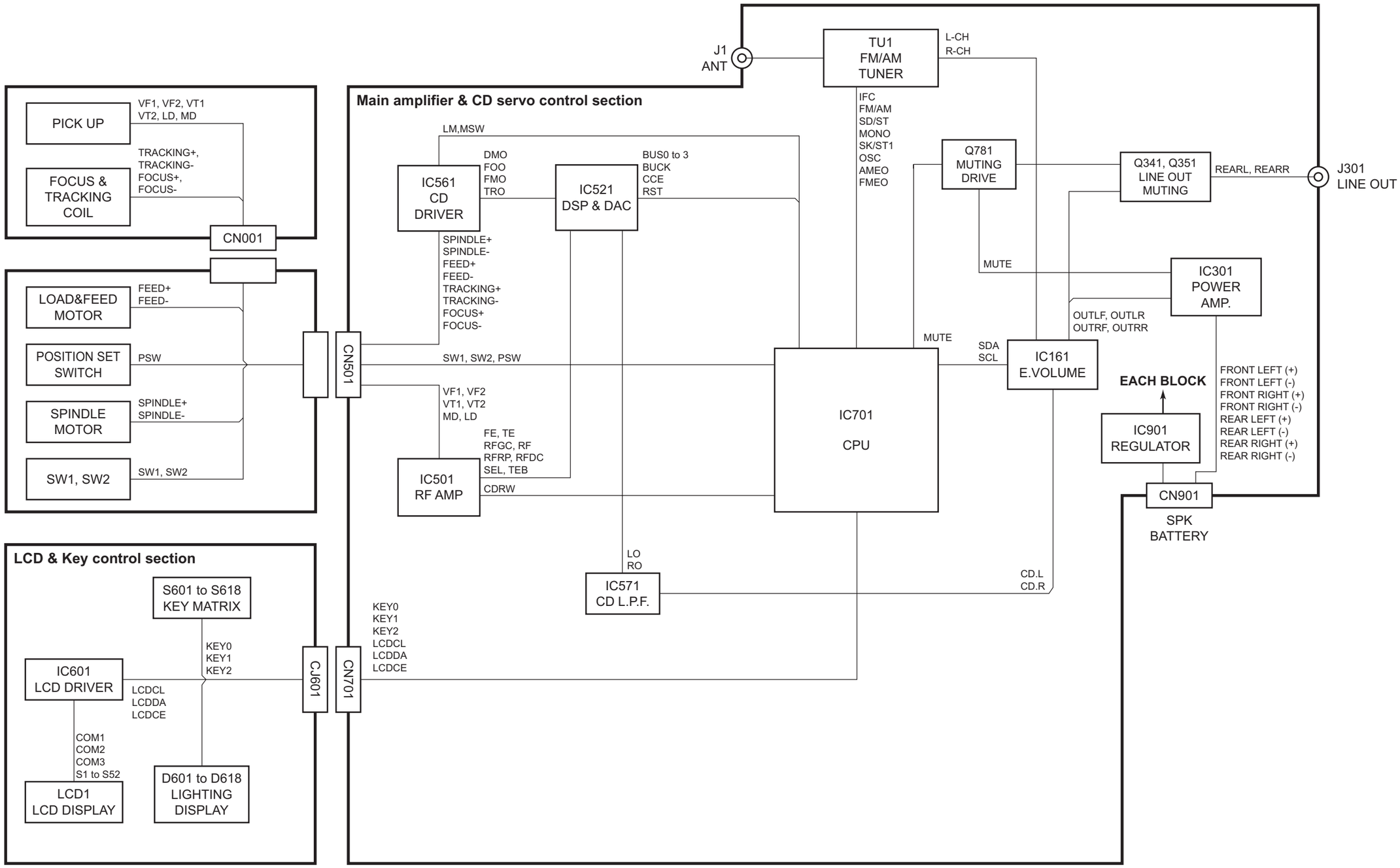
Forward side



Reverse side

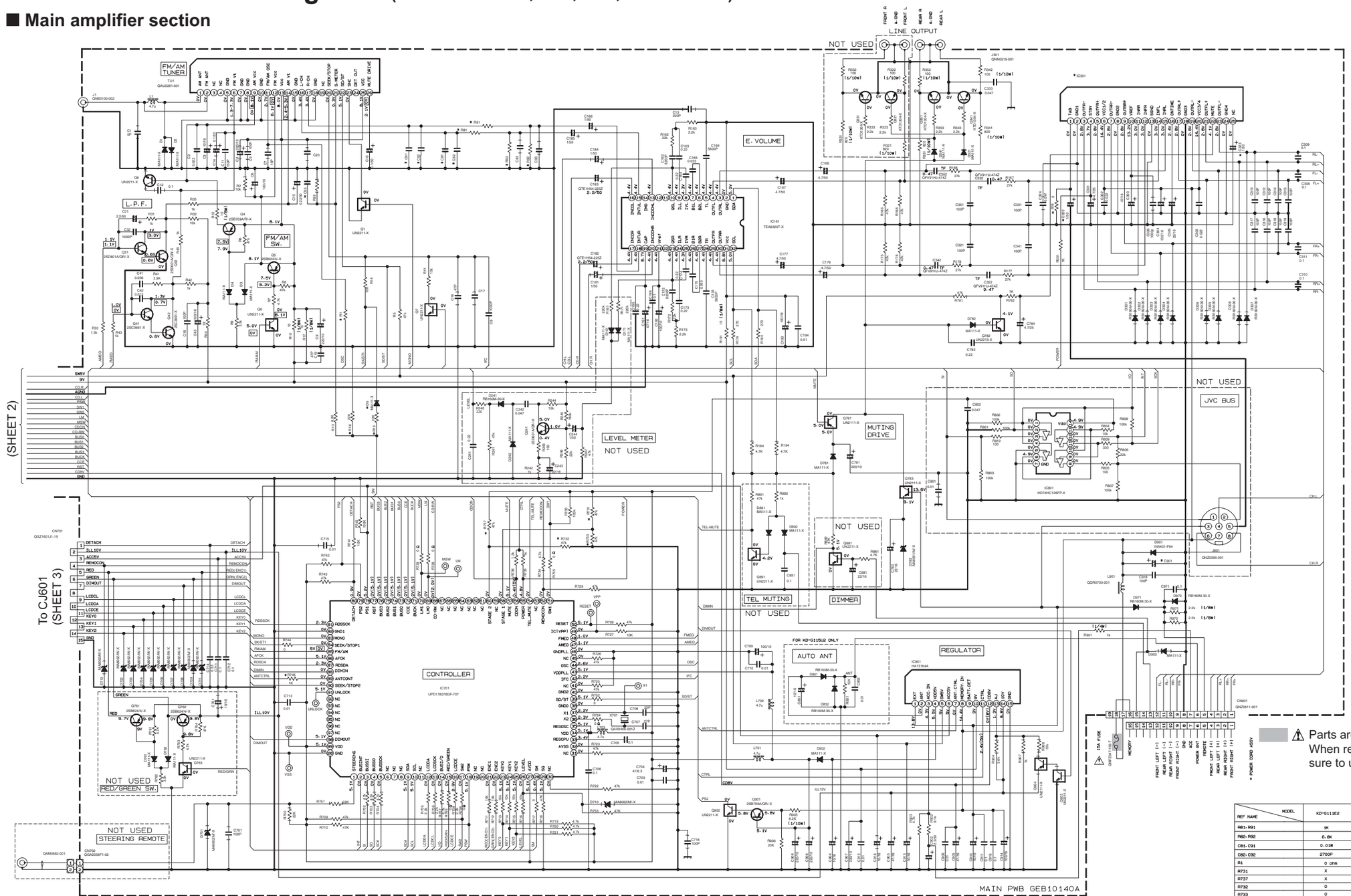


Block diagram (For KD-G111 E2, EX2, EY2, EU2 version)



Standard schematic diagrams (For KD-G111 E2, EX2, EY2, EU2 version)

■ Main amplifier section



⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

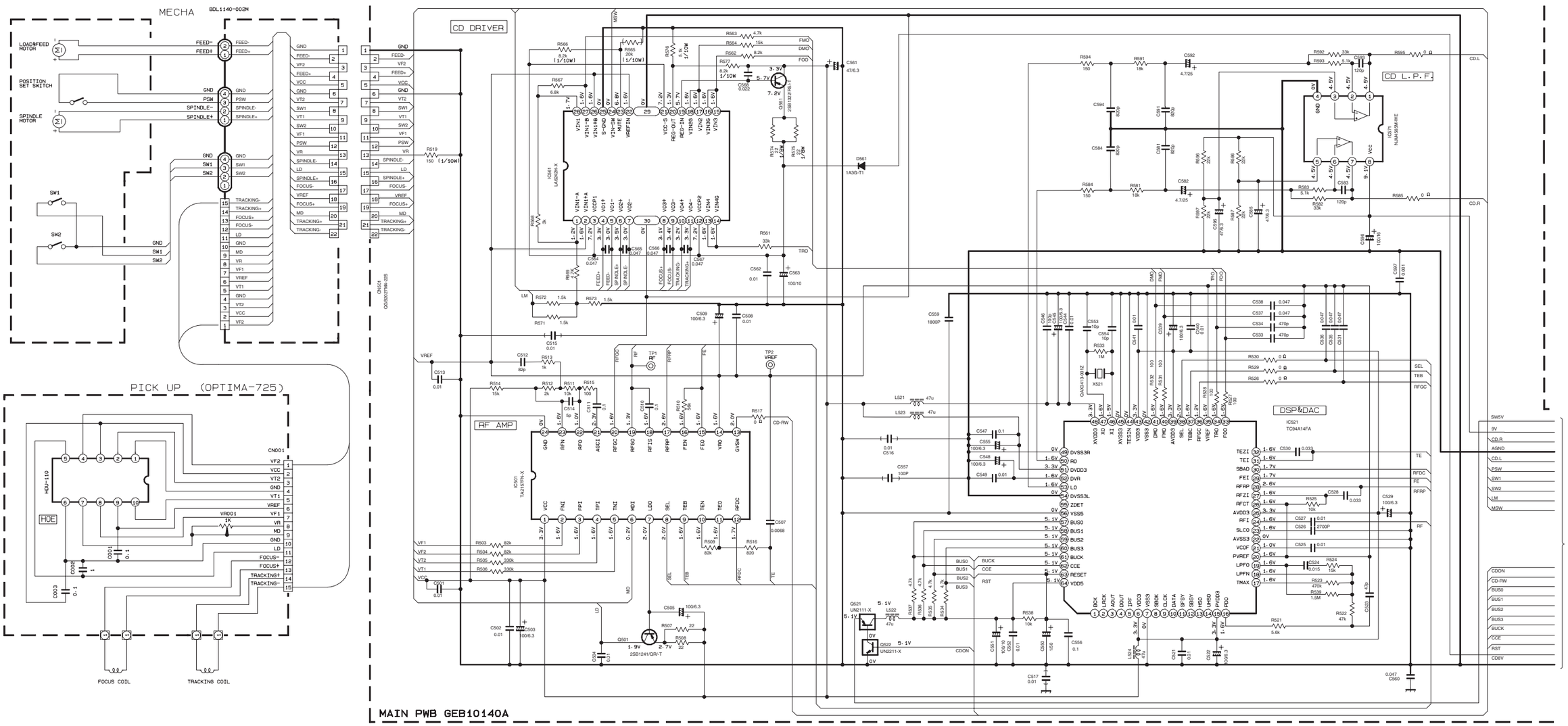
REF NAME \ MODEL	KD-G111E2	KD-G110J2/S11J2	KD-G115U2/S116U2
R81-R91	1K	2.7K	1K
R82-R92	6.8K	4.3K	6.8K
C81-C91	0.018	0.033	0.018
C82-C92	2700P	X	2700P
R1	0 ohm	47	0 ohm
R731	X	0	X
R737	X	X	0
R732	0	0	X
R733	0	X	0
R16	22K	22K	X
R15-D5	X	X	0
IC301	LA4743K	LA47516	LA47516
C320-C323	X	0	0
B16	X	X	0
CN01	2200/16 GEZ0646-228	3300/16 GEZ0676-338	3300/16 GEZ0676-338
POWER CORD ASSY	GAM0089-002	GAM0013-007	GAM0390-004
C55	0.01	0.01	330P
R745	X	X	0

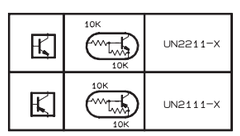
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION----FM MODE. ▭AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W +- 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   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 USE.

B, R		UN2211-X R=10K
10K, 10K		UN2111-X
		UN2213-X R=47K

SHEET 1

■ CD servo control section



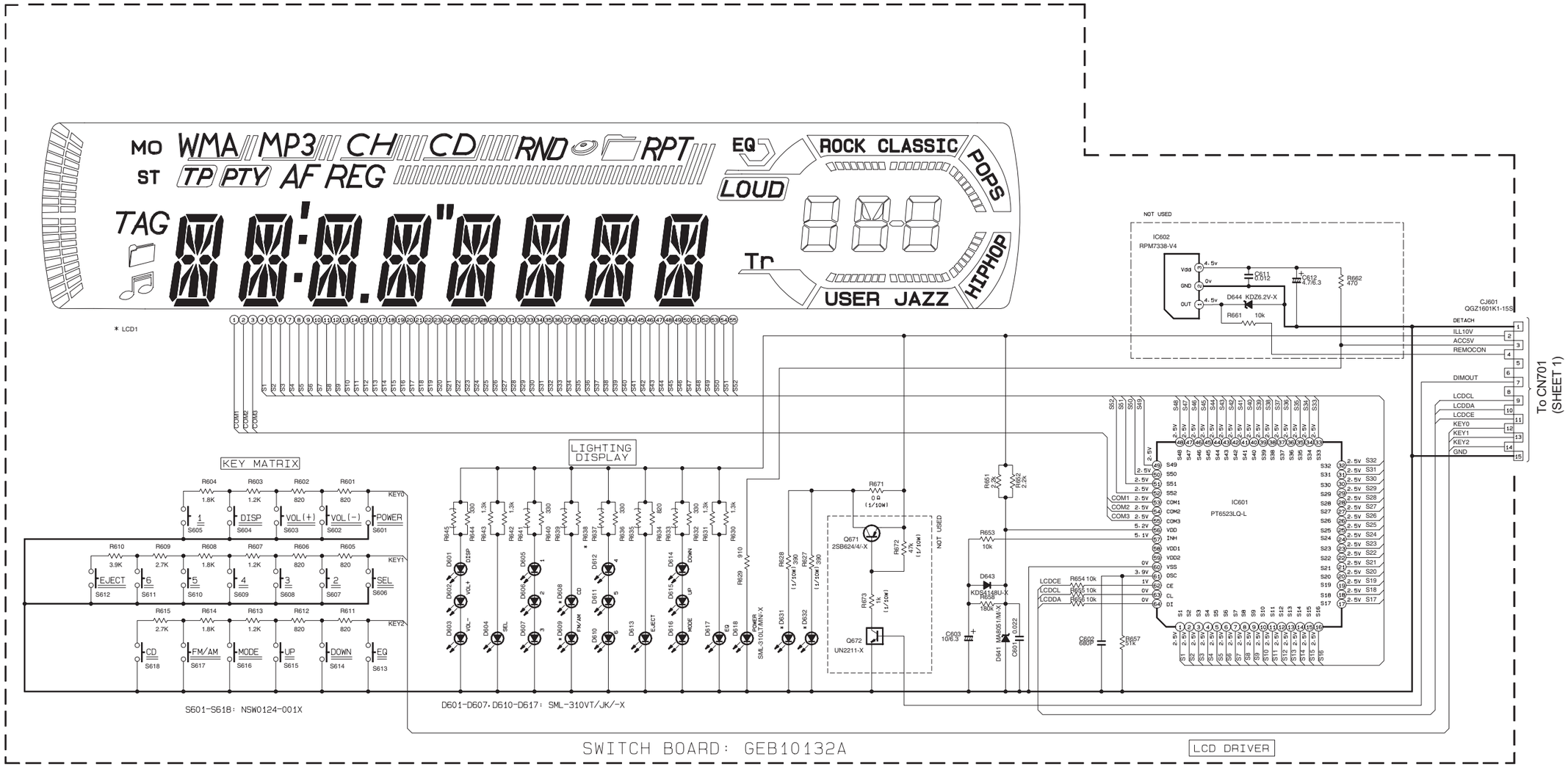


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION --- 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)

SHEET 2

■ LCD & Key control section



	KD-G110J2	KD-G115U2	KD-G116U2	KD-G111E2	KD-S11J2
LCD1	QLD0352-001	QLD0353-001	QLD0353-001	QLD0353-001	QLD0353-001
D631. D632	NSPW310BS/B2RS/	NSPW310BS/BRS/	NSPW310BS/BRS/	NSPW310BS/BRS/	NSPW310BS/BRS/
D608. D609	SML-310LT/MN/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X
R638	510	470	470	470	470

FRONT CIRCUIT BOARD SECTION

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

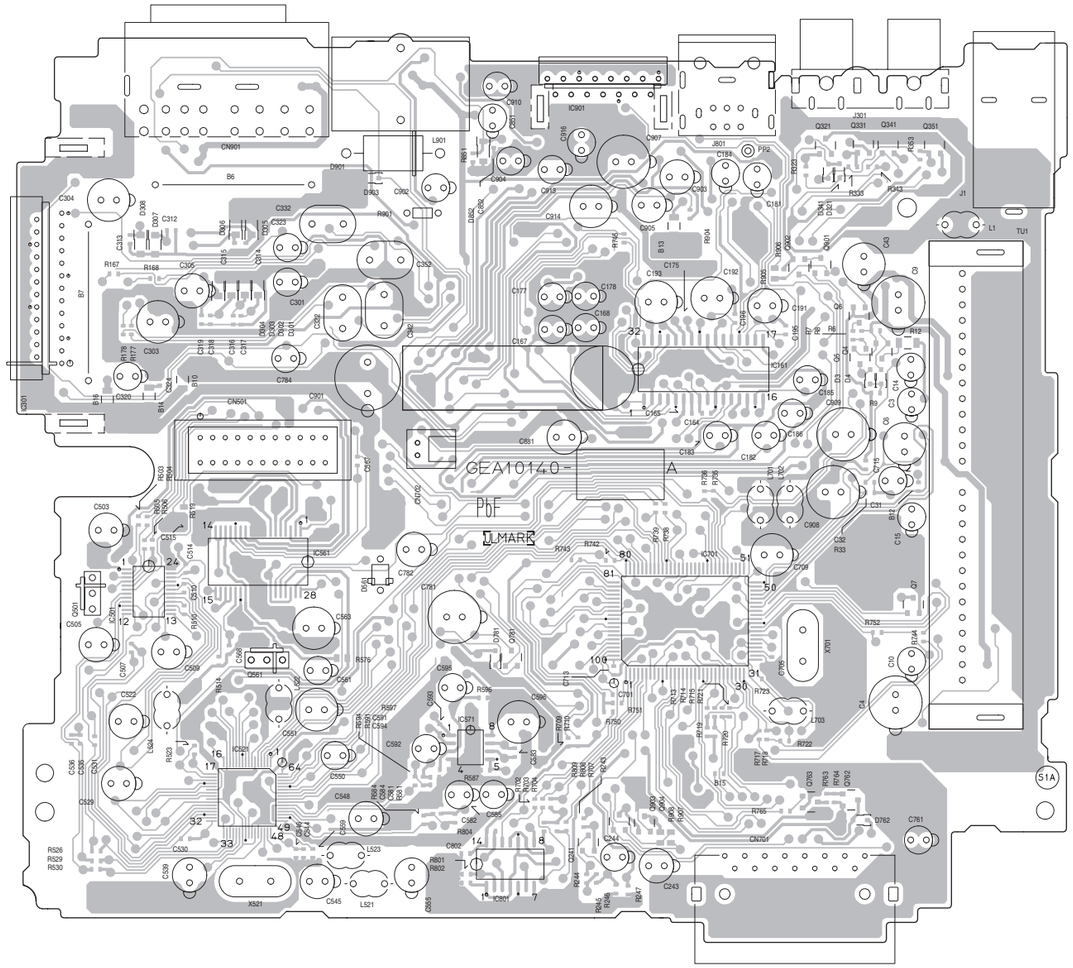
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

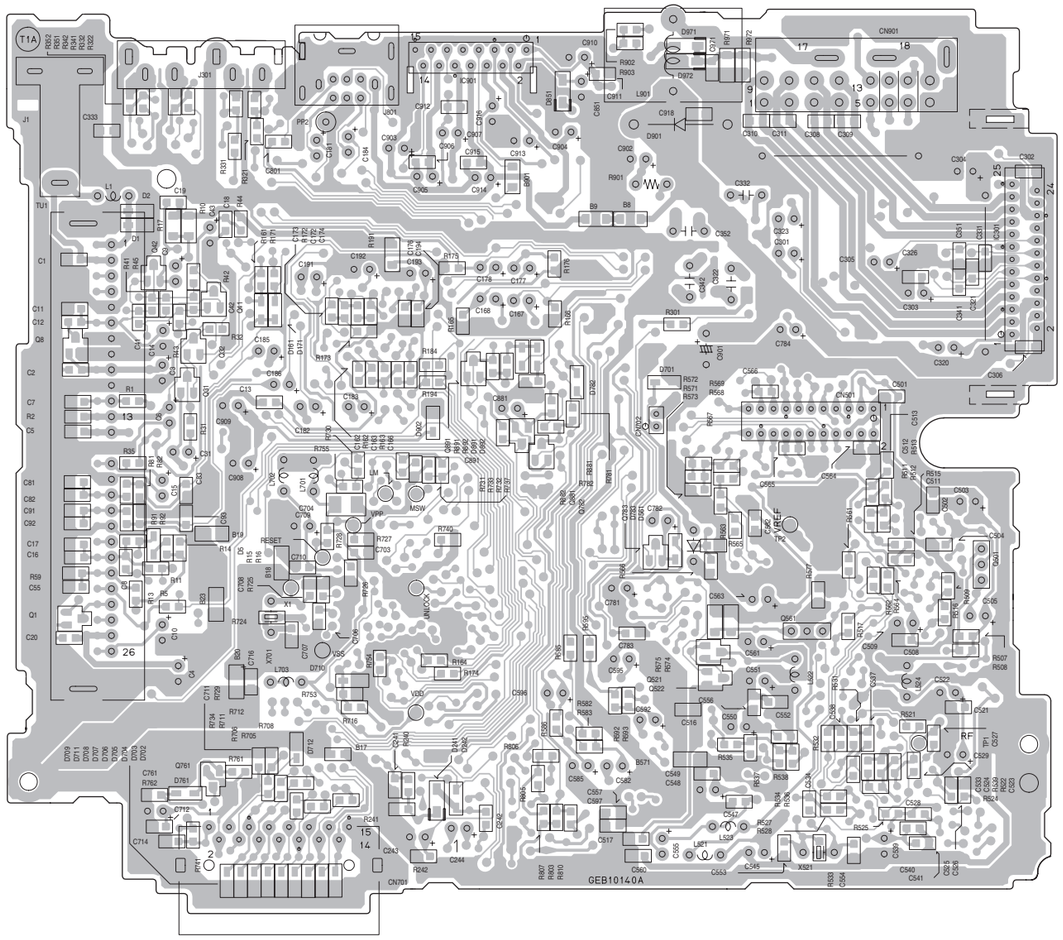
Printed circuit boards (For KD-G111 E2, EX2, EY2, EU2 version)

■ Main board

Forward side

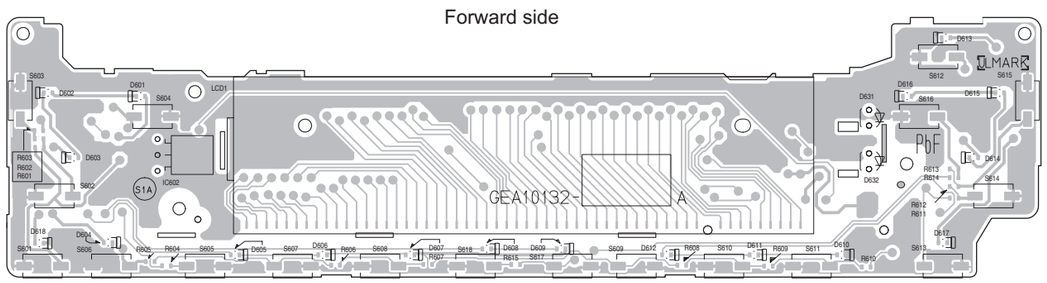


Reverse side

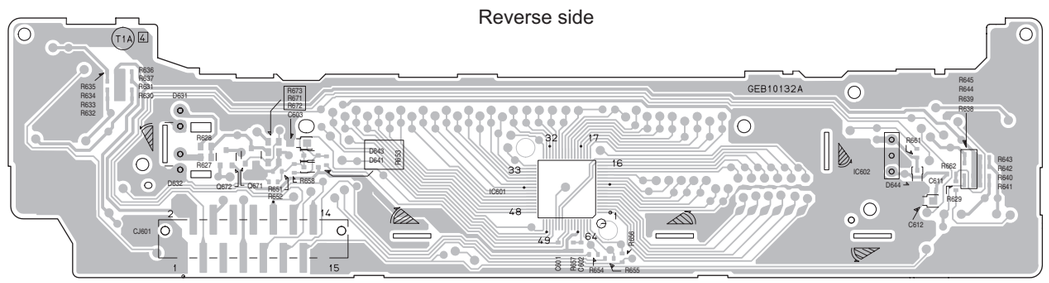


■ Switch board

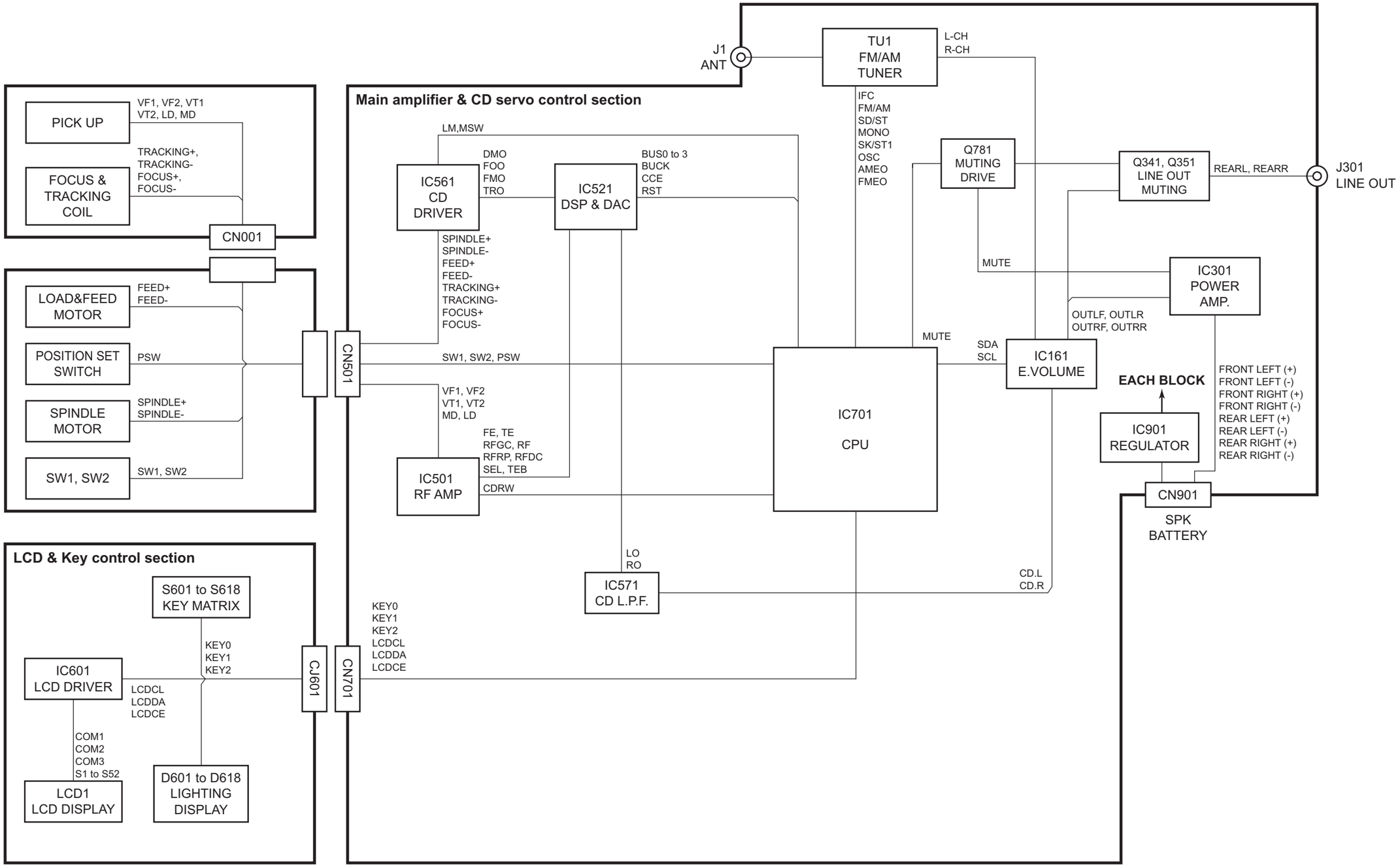
Forward side



Reverse side

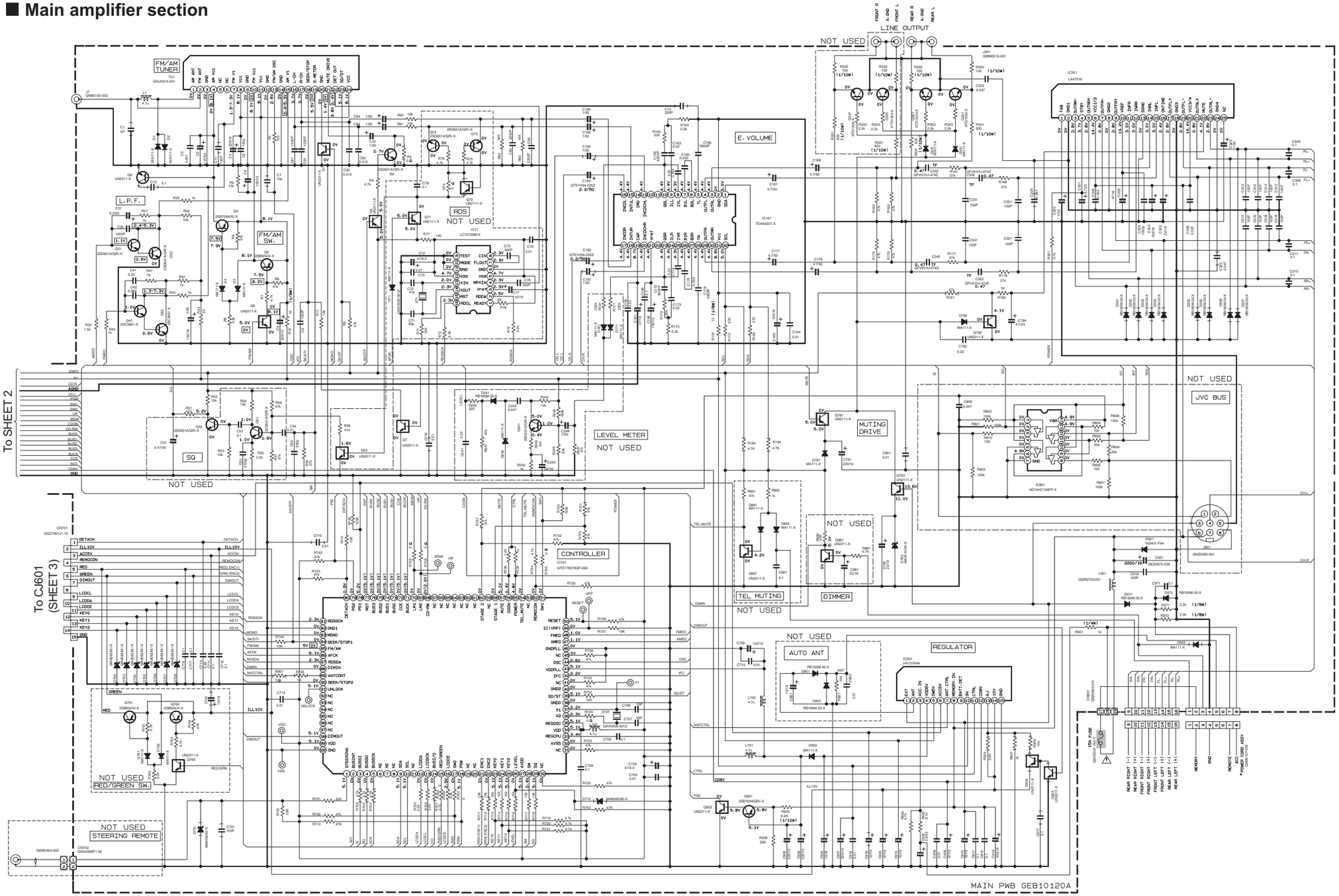


Block diagram (For KD-G117 EE version)



Standard schematic diagrams (For KD-G117 EE version)

■ Main amplifier section

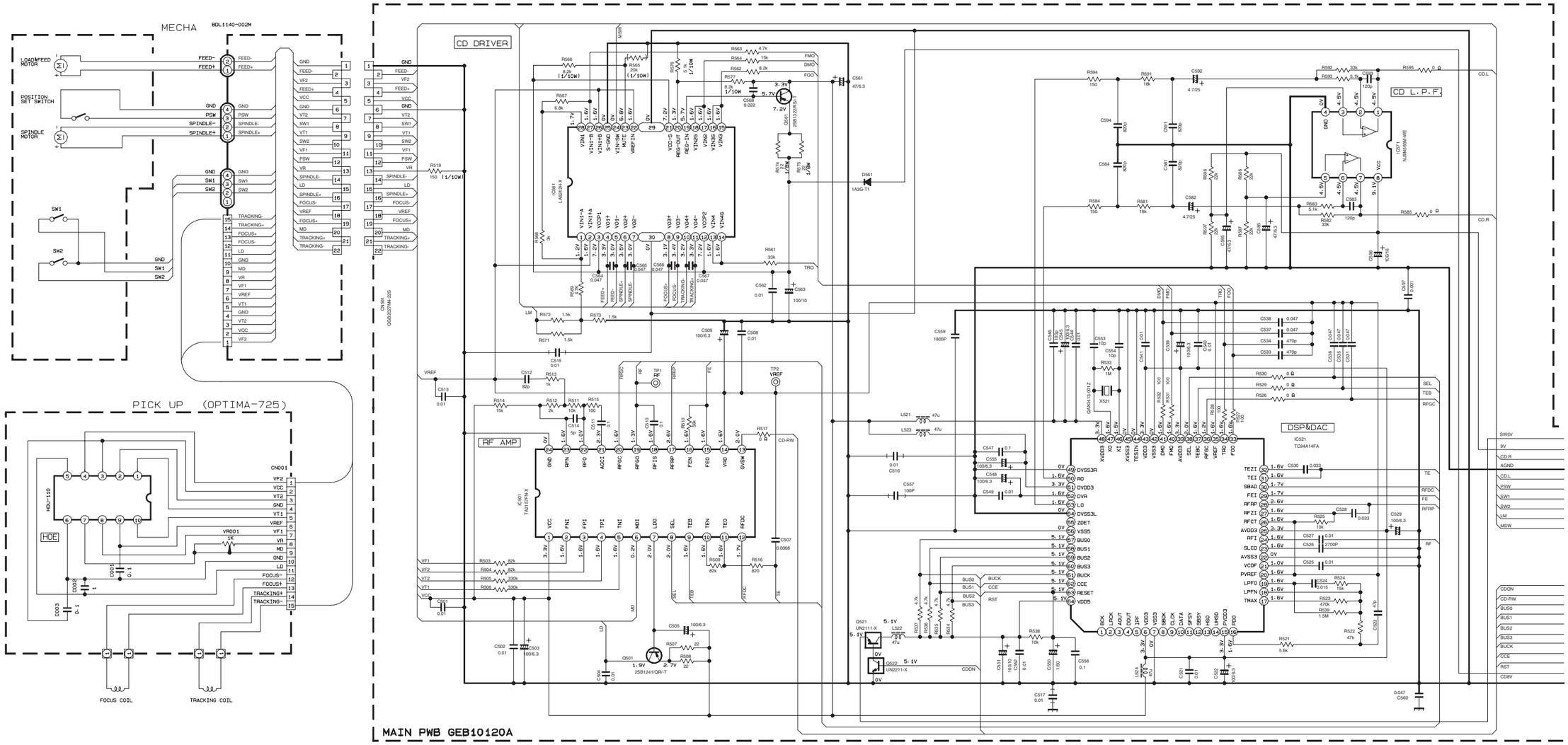


NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION---FM MODE. ▭ AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W +- 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   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 USE.

	10K 10K	UN2211
	10K 10K	UN2111

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ CD servo control section

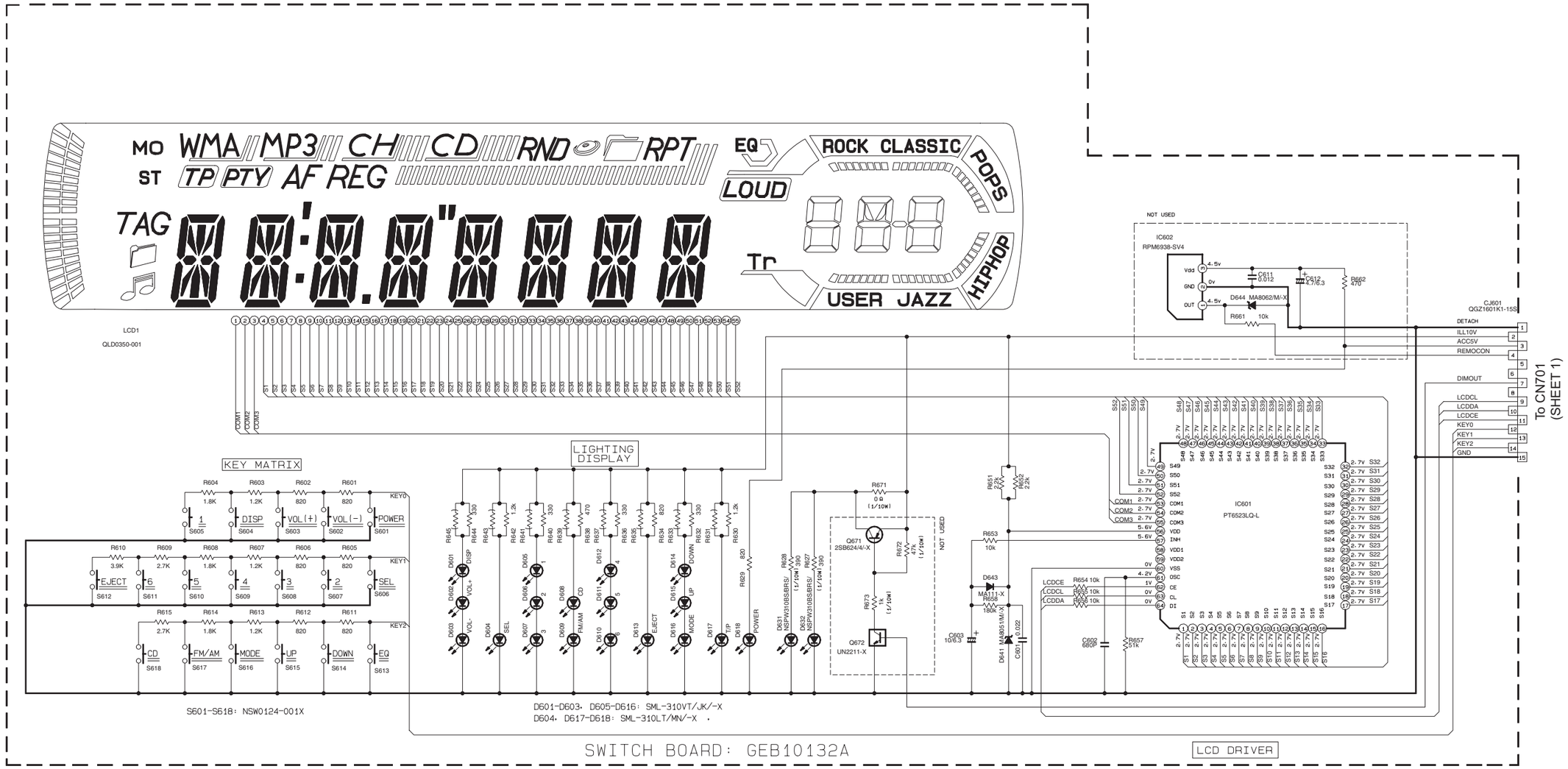


	10K / 10K	UN2211-X
	10K / 10K	UN2111-X

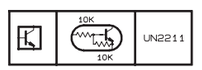
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION ---- 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)

■ LCD & Key control section



FRONT CIRCUIT BOARD SECTION



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS.
   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.

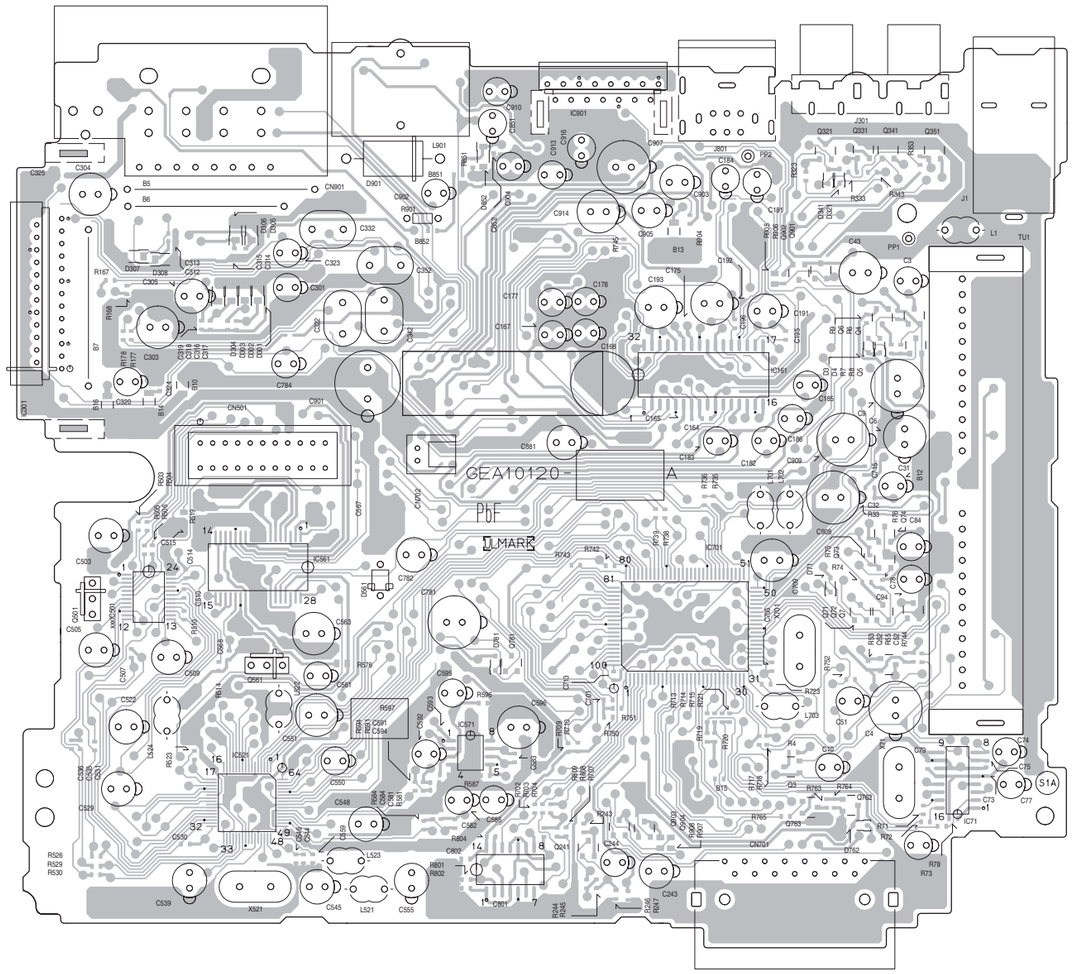
3. COMPONENTS IN ( ) INDICATE NOT USE.

SHEET 3

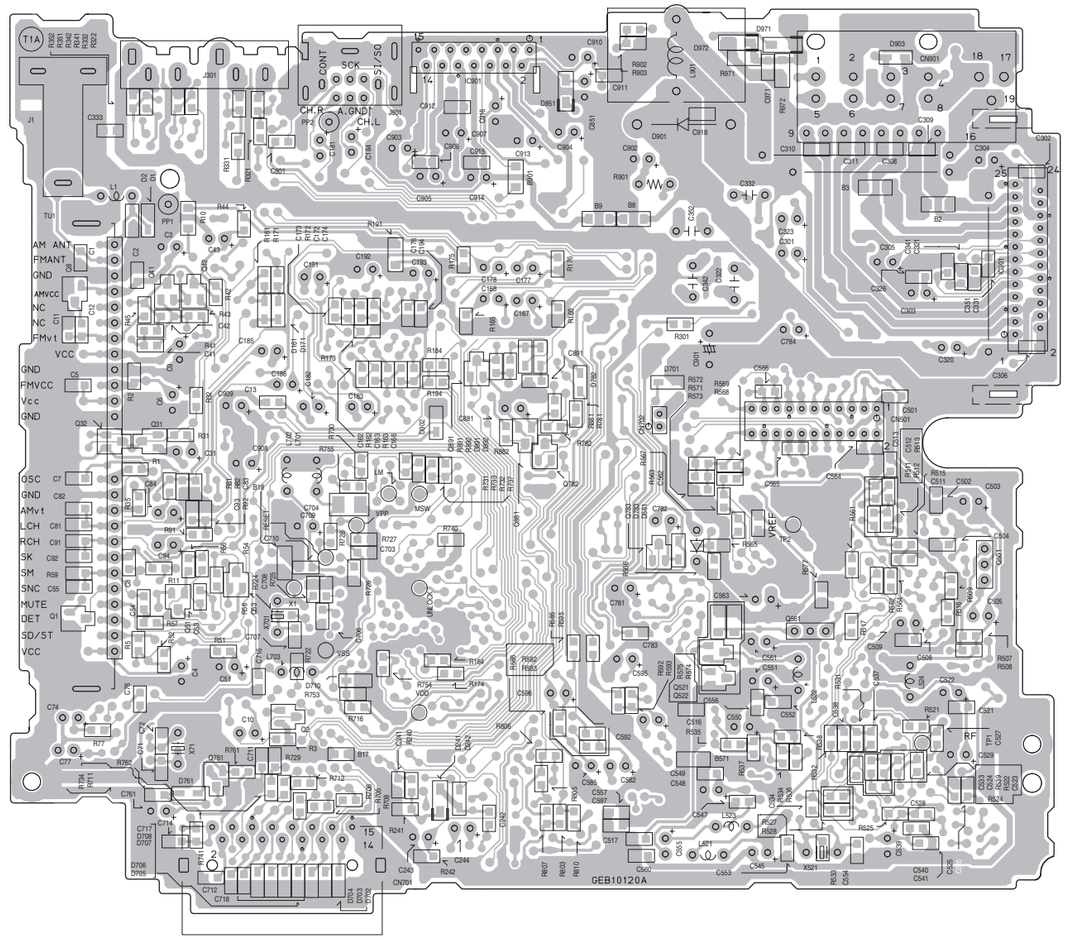
Printed circuit boards (For KD-G117 EE version)

■ Main board

Forward side

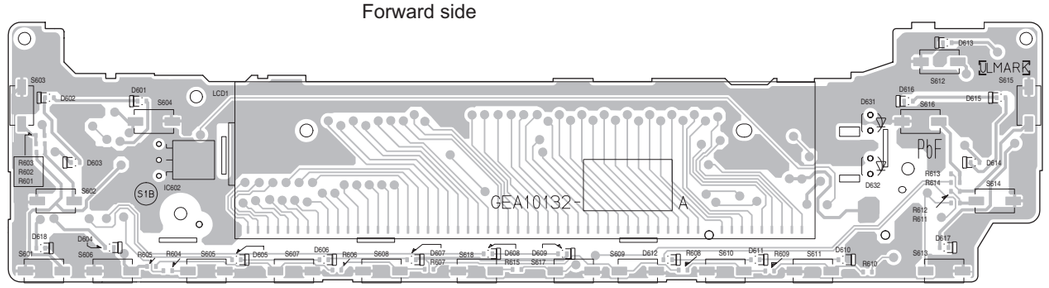


Reverse side

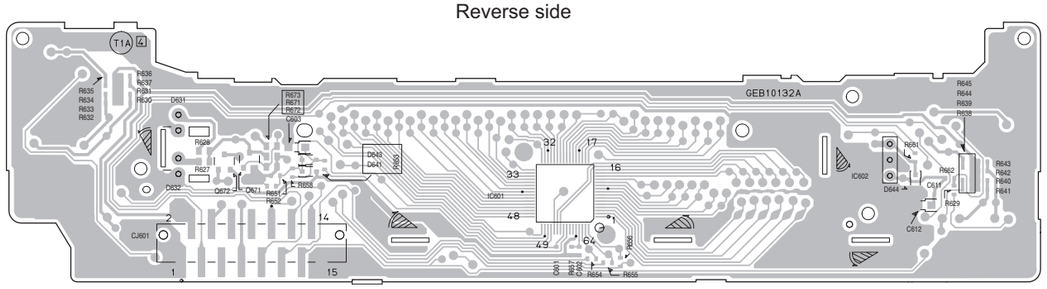


■ Switch board

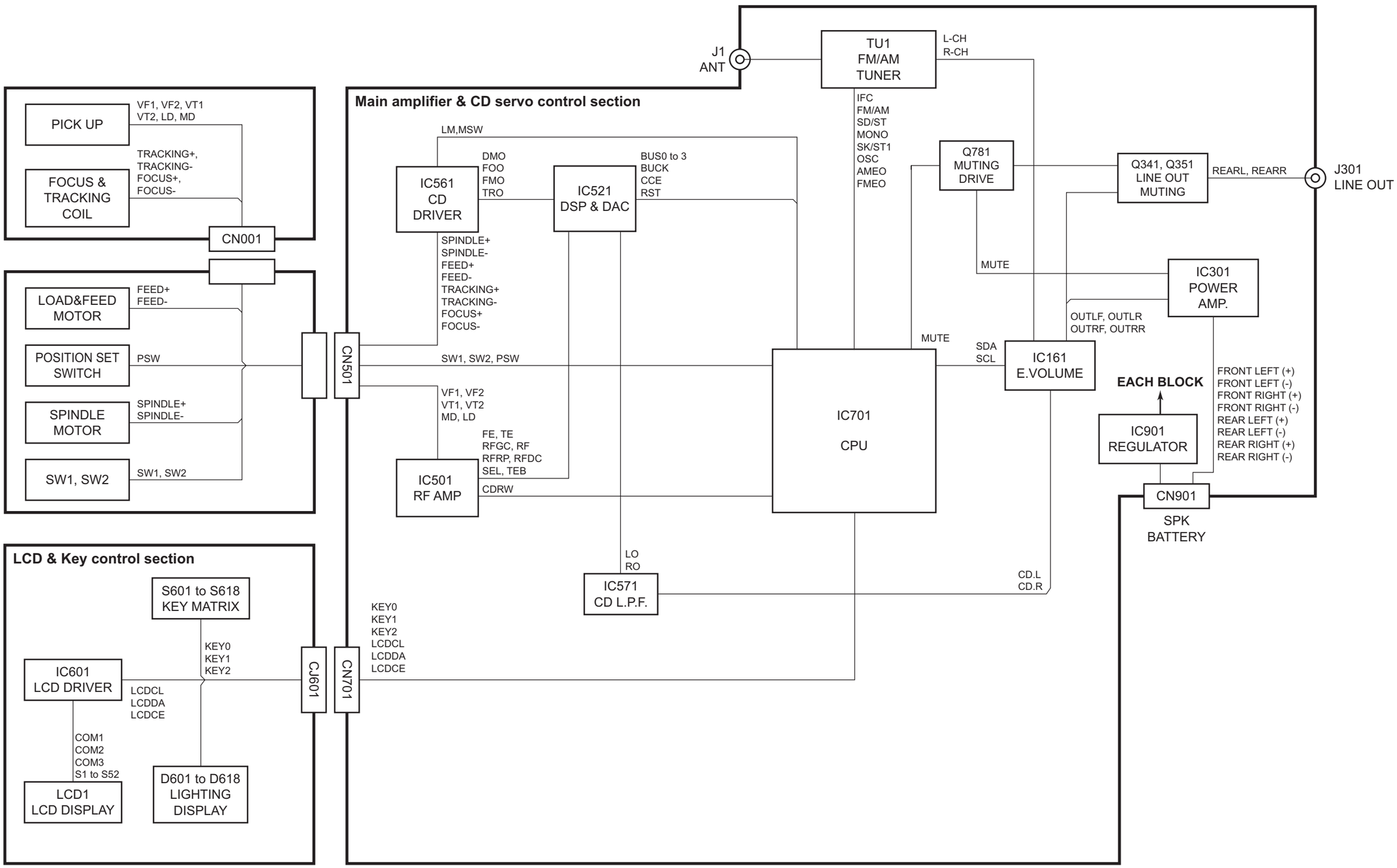
Forward side



Reverse side

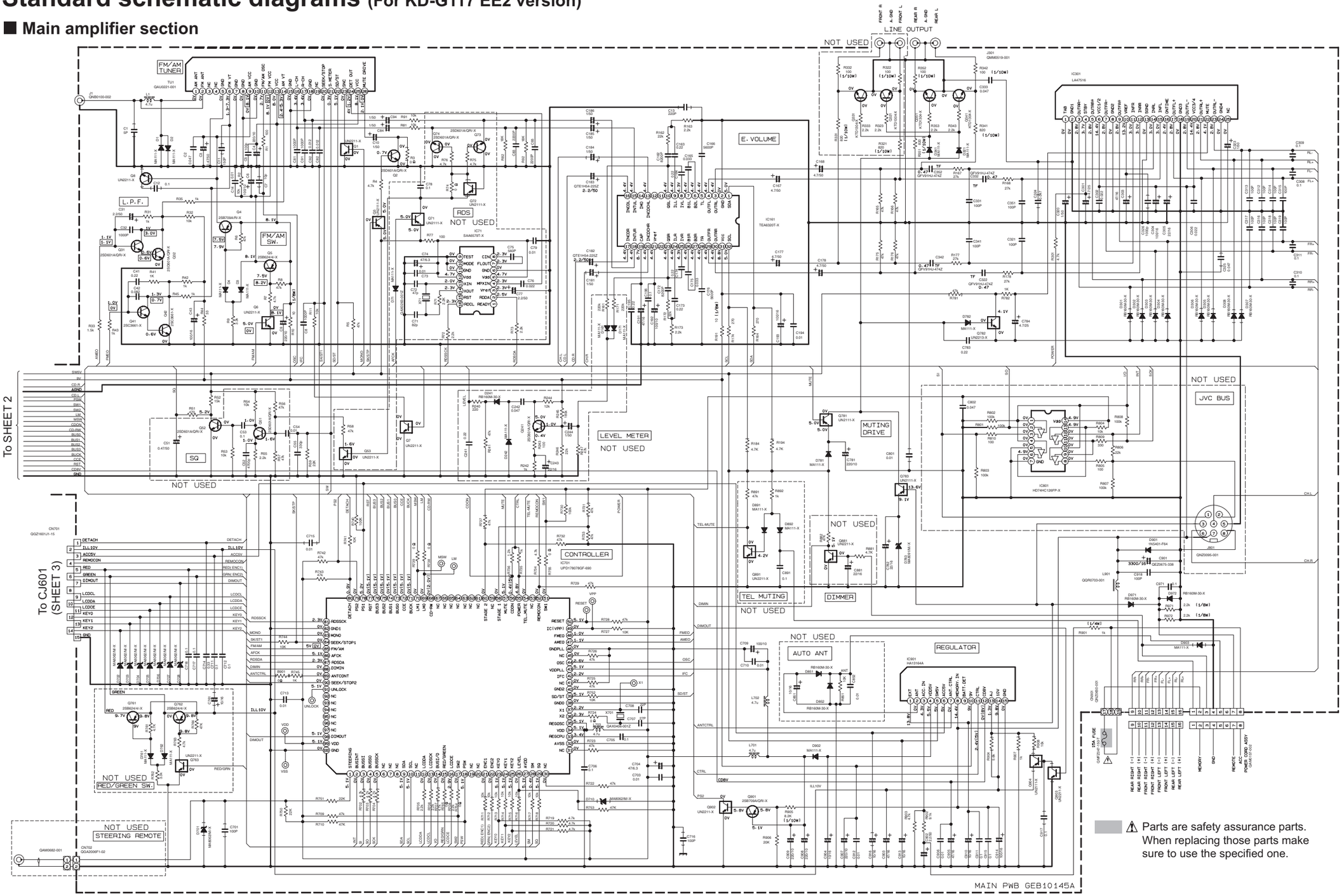


Block diagram (For KD-G117 EE2 version)



Standard schematic diagrams (For KD-G117 EE2 version)

■ Main amplifier section

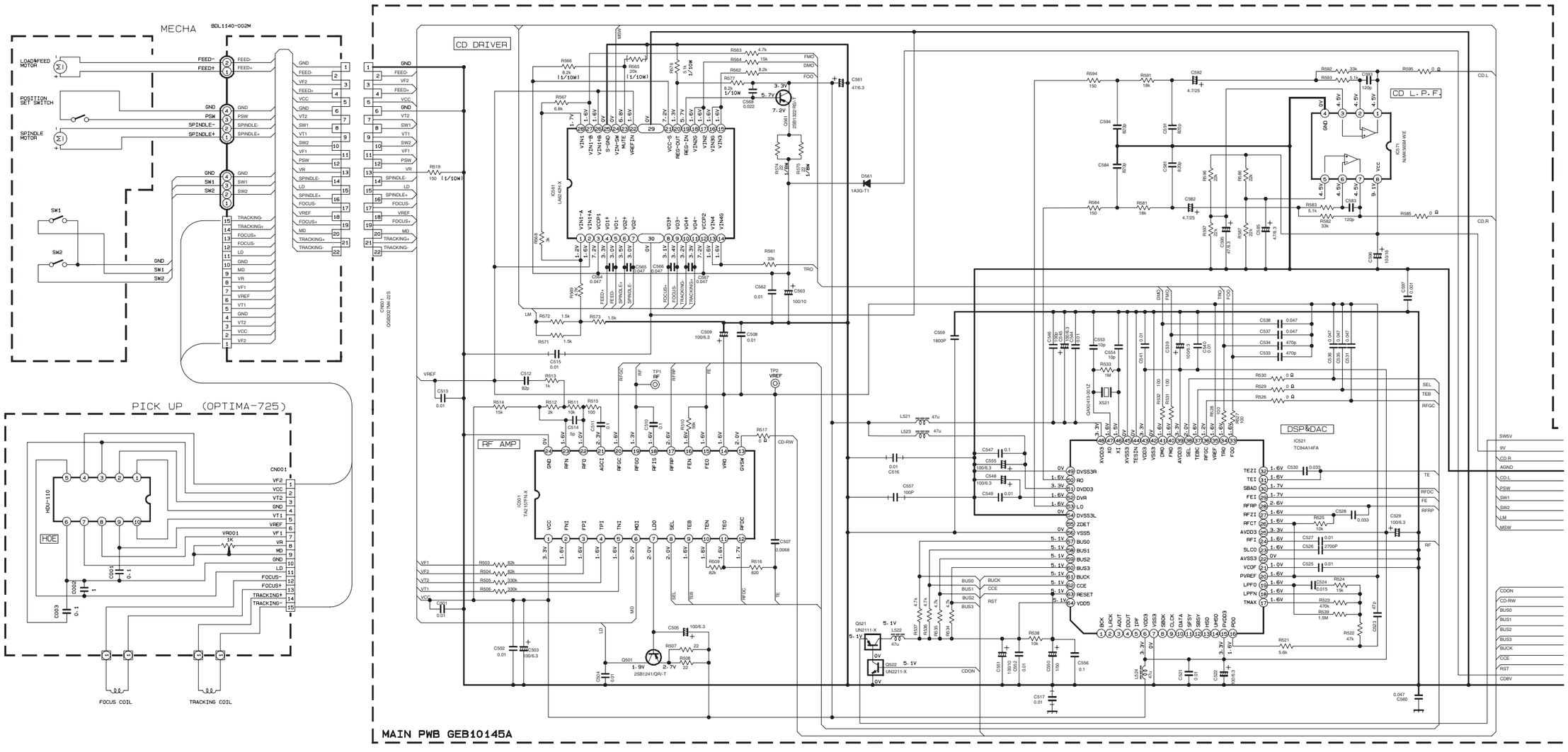


⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION~~~FM MODE. ▭ 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.

	R	UN2211-X R=10K
	R	UN2213-X R=47K
	10K 10K	UN2111-X

■ CD servo control section



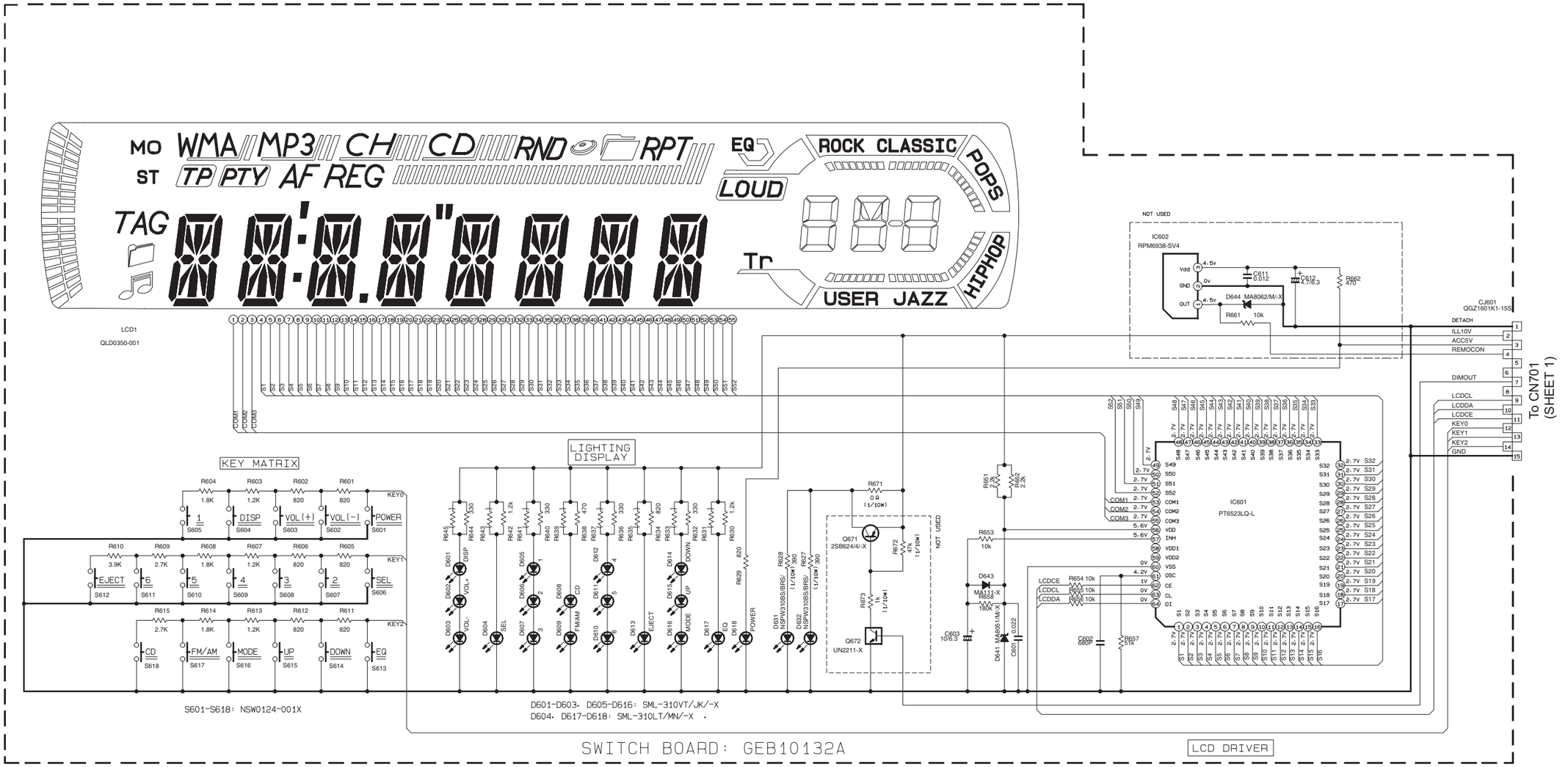
	10K / 10K	UN2211-X
	10K / 10K	UN2111-X

NOTES

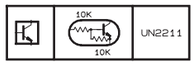
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION --- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W +- 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

SHEET 2

■ LCD & Key control section



FRONT CIRCUIT BOARD SECTION



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

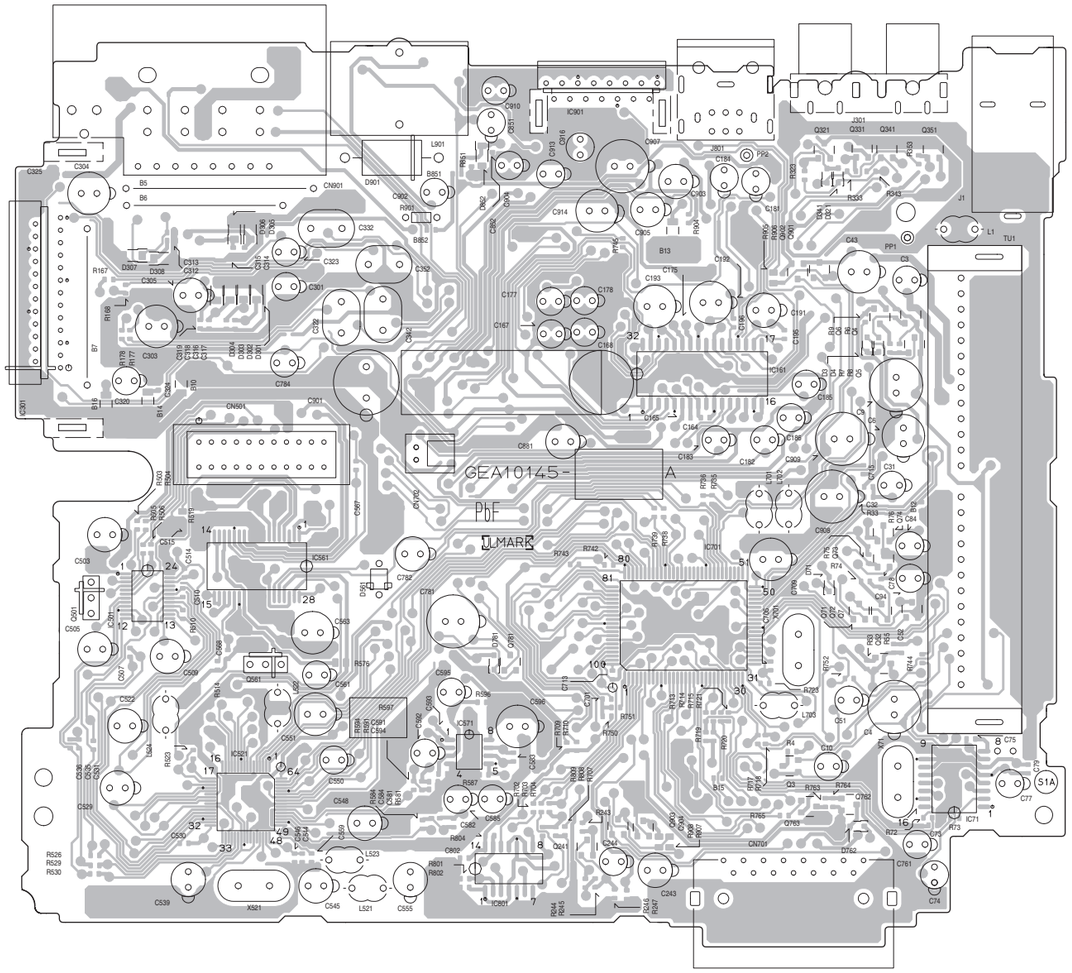
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

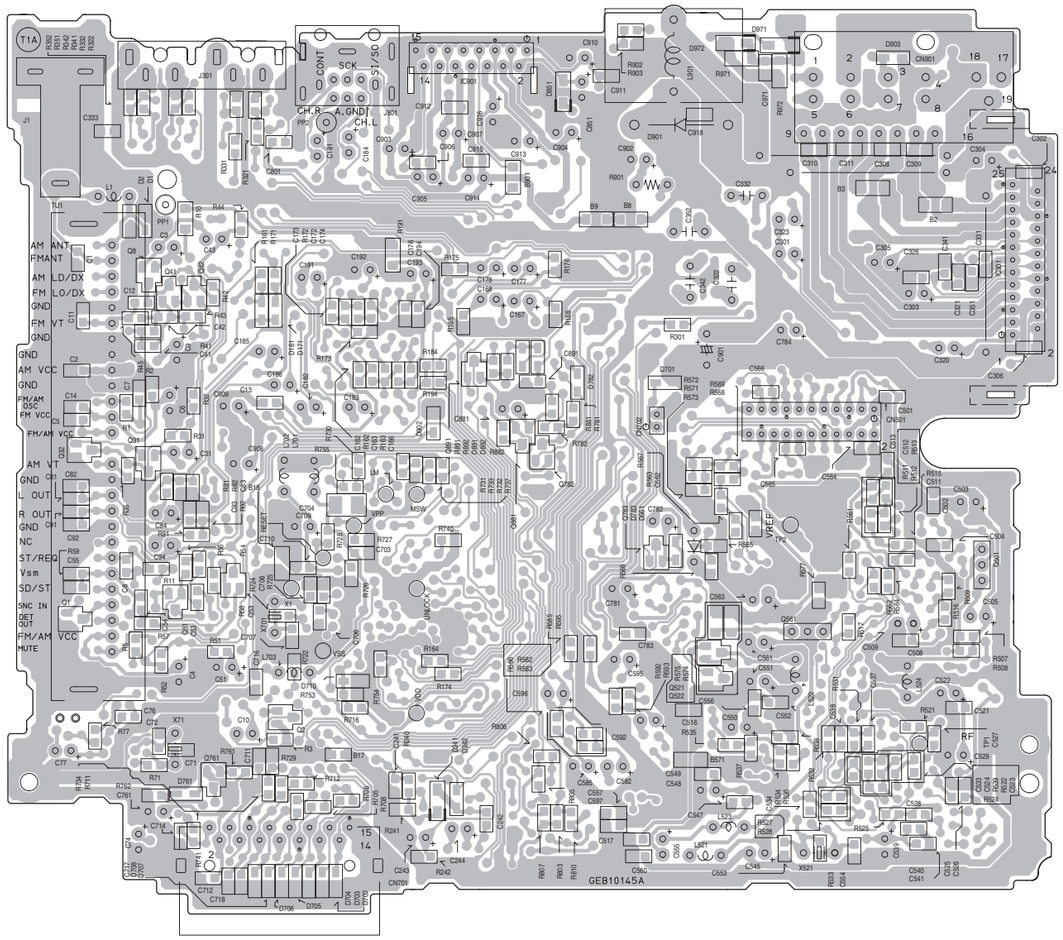
Printed circuit boards (For KD-G117 EE2 version)

■ Main board

Forward side

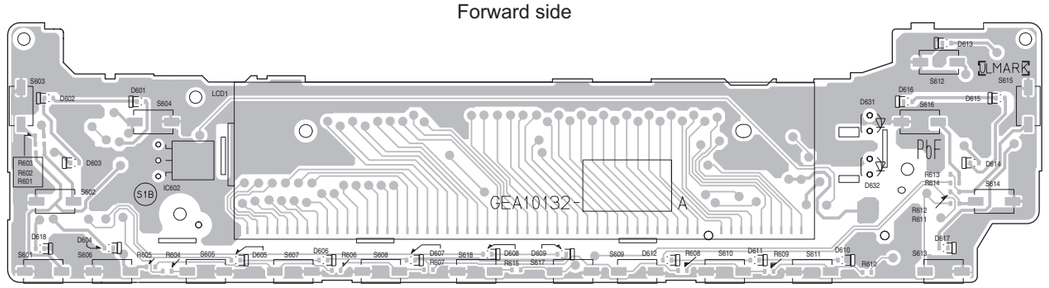


Reverse side

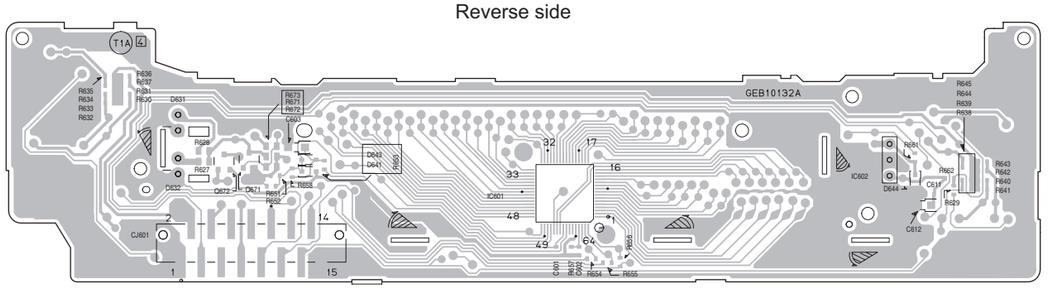


■ Switch board

Forward side



Reverse side



< MEMO >

JVC

Victor Company of Japan, Limited

AV & MULTIMEDIA COMPANY CAR ELECTRONICS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA125SCH)

Printed in Japan
VPT