

JVC

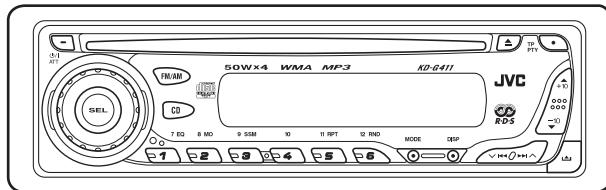
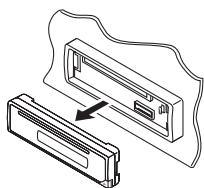
SERVICE MANUAL

CD RECEIVER

KD-G411

Area suffix

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



WMA MP3

COMPACT
dISc
DIGITAL AUDIO
TEXT

R·D·S

TABLE OF CONTENTS

1 PRECAUTIONS	1-3
2 SPECIFIC SERVICE INSTRUCTIONS	1-6
3 DISASSEMBLY	1-7
4 ADJUSTMENT	1-25
5 TROUBLESHOOTING	1-26

SPECIFICATION

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
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]	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	
MP3 decoding format	MPEG1/2 Audio Layer 3 Max. Bit Rate:320 Kbps	
WMA (Windows Media Audio) decodingformat	Max. Bit Rate:192 Kbps	
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System	Negative ground	
Allowable Operating Temperature	0°C to +40°C	
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
	Panel Size (approx.)	188 mm × 58 mm × 11 mm
Mass (approx.)	1.3 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 performing repair of this system.



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

1.2 Preventing static electricity

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

1.2.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.

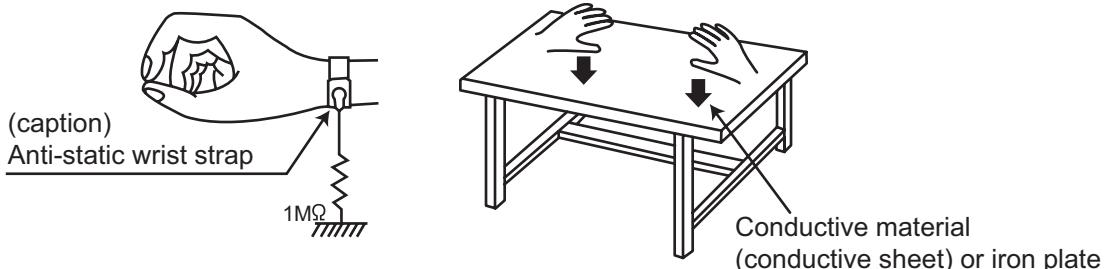
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

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

(2) Ground yourself

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



(3) Handling the optical pickup

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

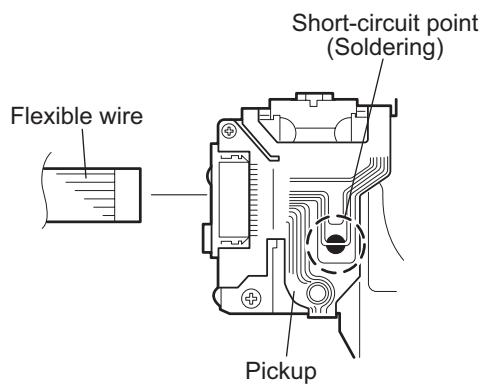
1.3 Handling the traverse unit (optical pickup)

- Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- 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.
- Handle the flexible cable carefully as it may break when subjected to strong force.
- It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.4 Attention when traverse unit is decomposed

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

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



1.5 Important for laser products

1.CLASS 1 LASER PRODUCT

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

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

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

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

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



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 EXPOSURE TO BEAM.

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

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

VARO : Avattaessa ja suojalukitus ohittuna tai viallisena olet alttiina näkyvälle ja näkymättömälle 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 fejler.
Undgå direkte eksponering til stråling. (d)

WARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)

VARO : Avattaessa ja suojalukitus ohittuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

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.

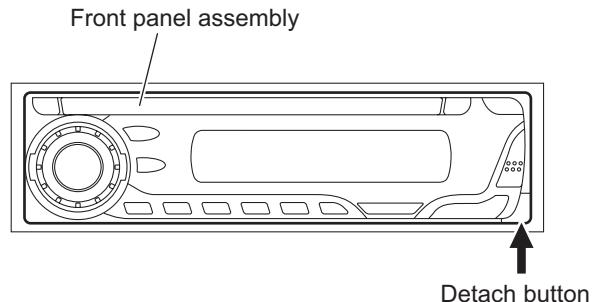


Fig.1

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.

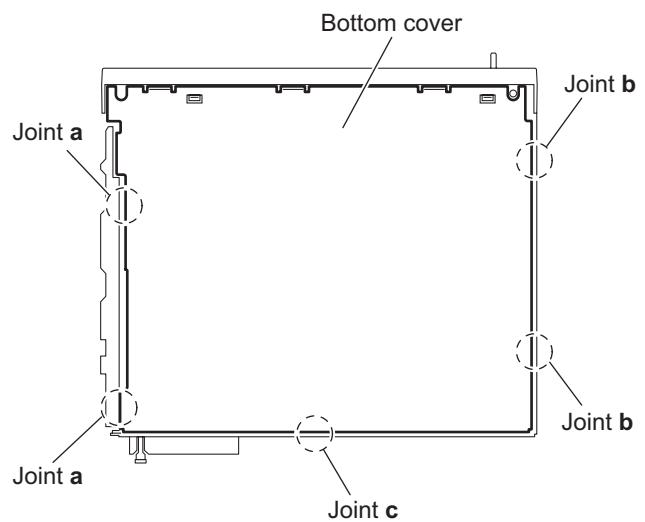


Fig.2

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

- Prior to performing the following procedures, 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.

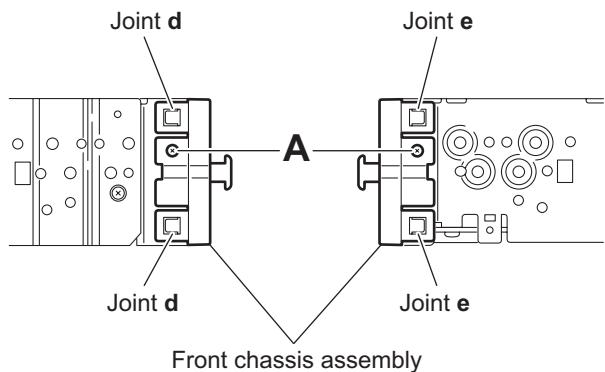


Fig.3

3.1.4 Removing the side panel

(See Fig.4)

- Prior to performing the following procedure, 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, and take out the side panel.

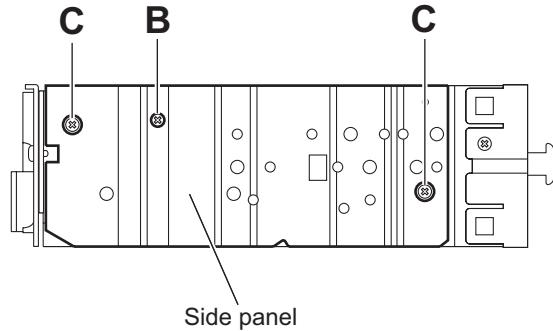


Fig.4

3.1.5 Removing the rear bracket

(See Fig.5)

- Prior to performing the following procedure, remove the bottom cover.
- (1) Remove the three screws **D**, screws **E** and two screws **F** attaching the rear bracket on the back side of the main body.
- (2) Take out the rear bracket.

Reference:

Insert the STEERING cable into the slot before attaching the rear bracket to the main body.

Insert STEERING cable into the slot.

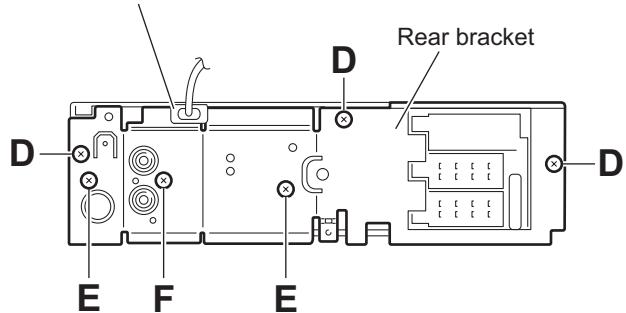


Fig.5

3.1.6 Removing the main board

(See Fig.6)

- Prior to performing the following procedures, remove the front panel assembly, bottom cover, front chassis assembly, side panel and rear bracket.
- (1) Remove the two screws **G** attaching the main board.
- (2) Disconnect the connector **CN501** on the main board from the main body and take out the main board.

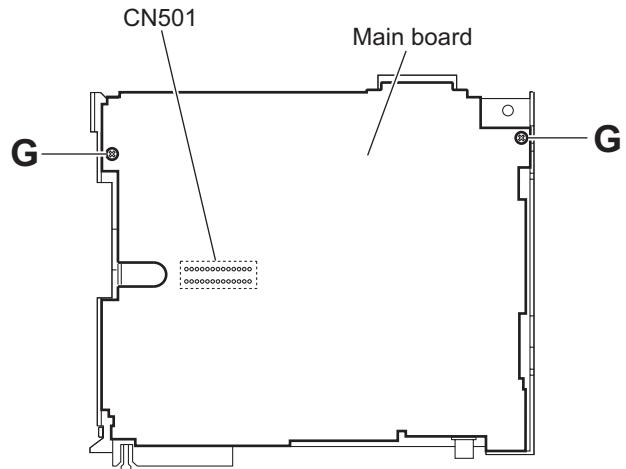


Fig.6

3.1.7 Removing the CD mechanism assembly

(See Fig.7)

- Prior to performing the following procedure, remove the front panel assembly, bottom cover, side panel, rear bracket and main board.
- Remove the front chassis assembly as required.
 - Remove the three screws **H** attaching the CD mechanism assembly on the top chassis.
 - Take out the CD mechanism assembly.

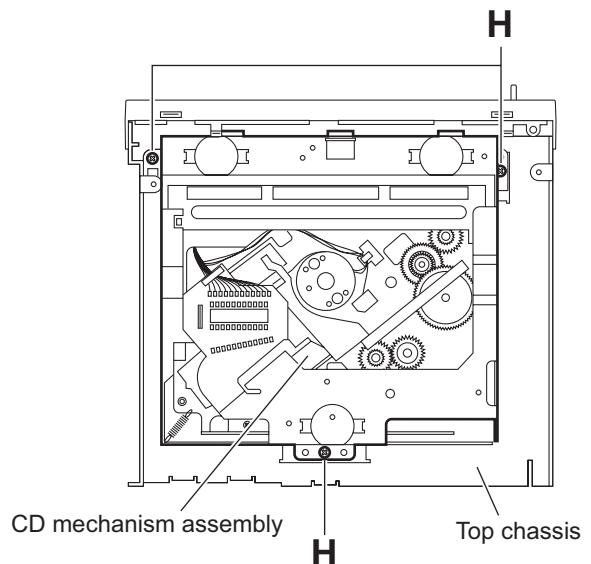


Fig.7

3.1.8 Removing the front board

(See Figs.8 to 10)

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

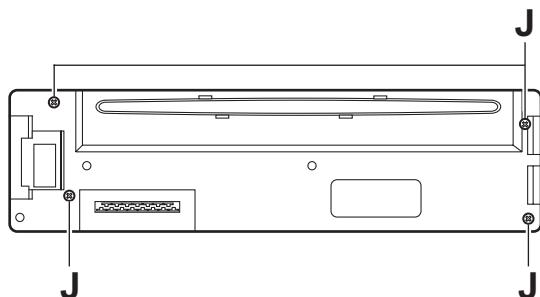


Fig.8

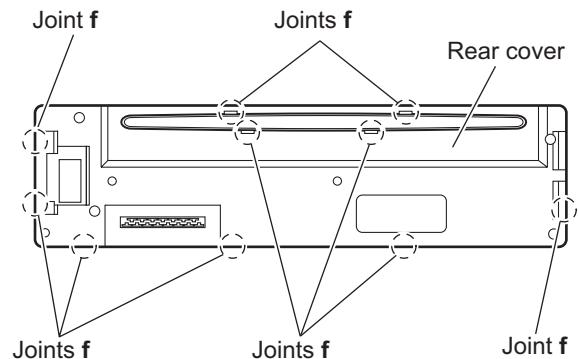


Fig.9

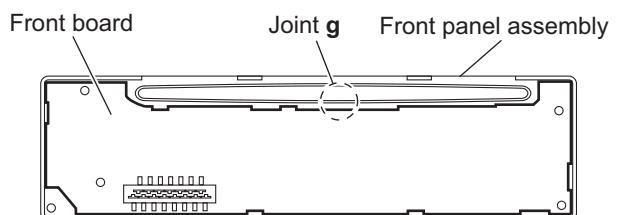


Fig.10

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**.

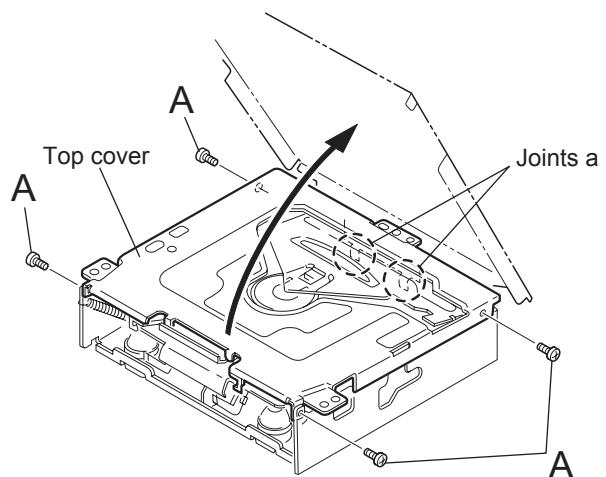


Fig.1

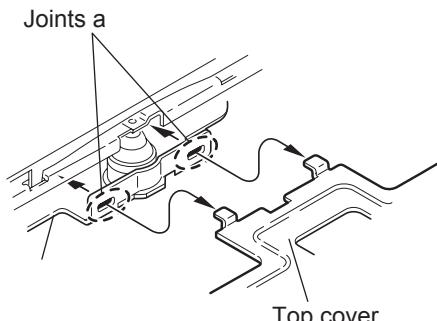


Fig.2

3.2.2 Removing the connector board

(See Figs.3 to 5)

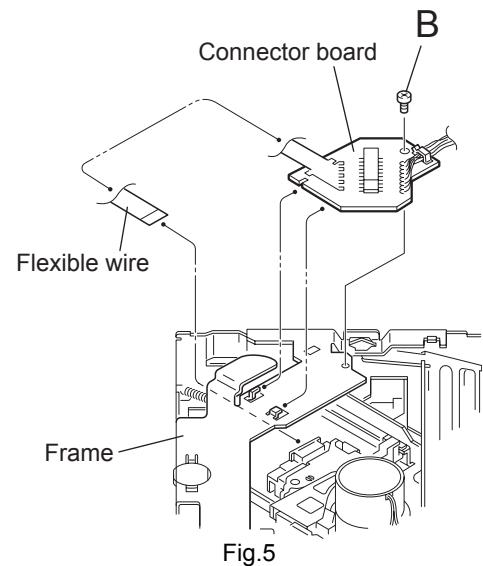
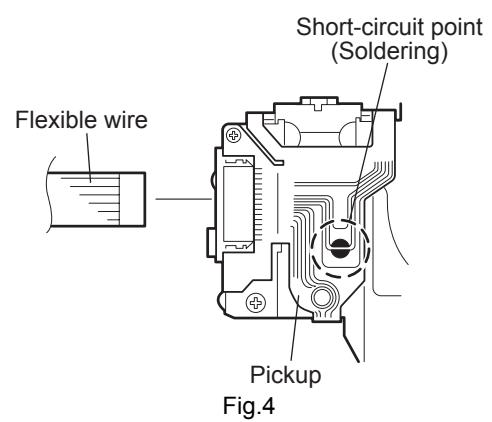
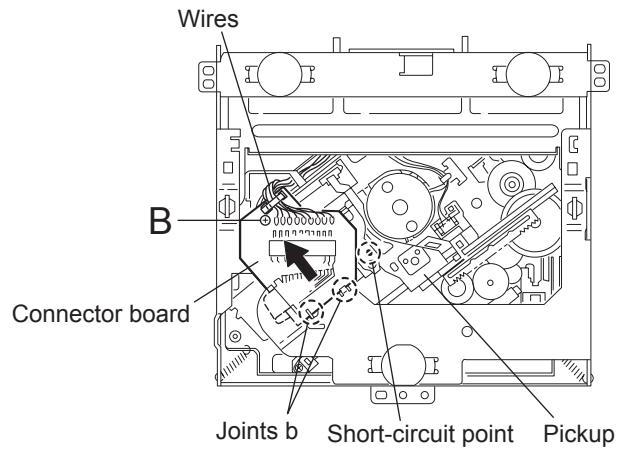
CAUTION:

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.



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.

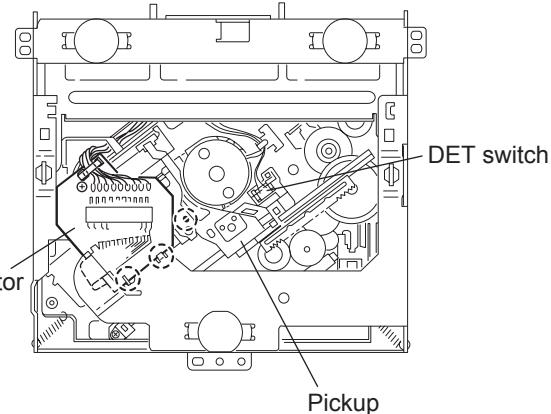


Fig.6

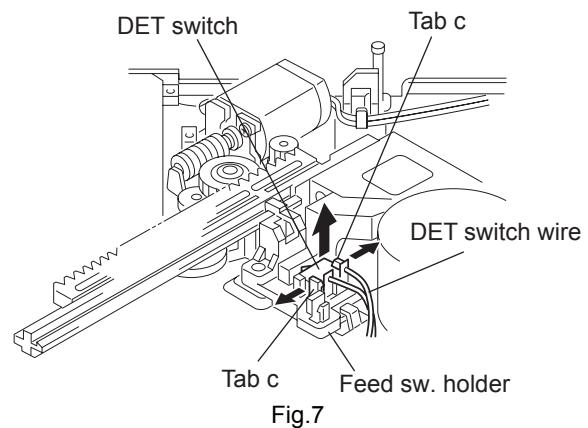


Fig.7

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.

- 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.

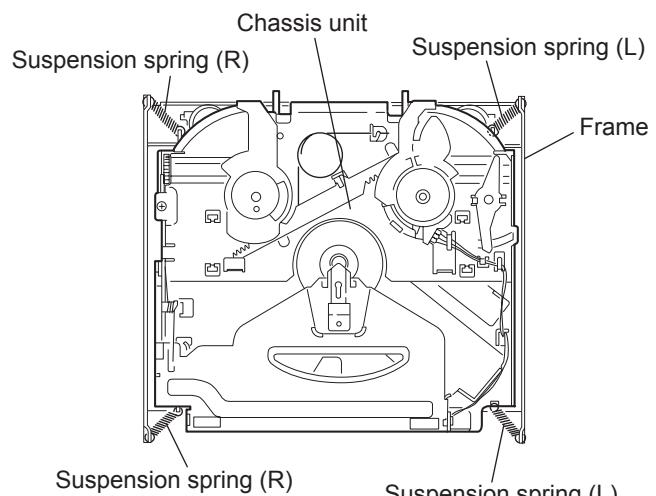


Fig.8

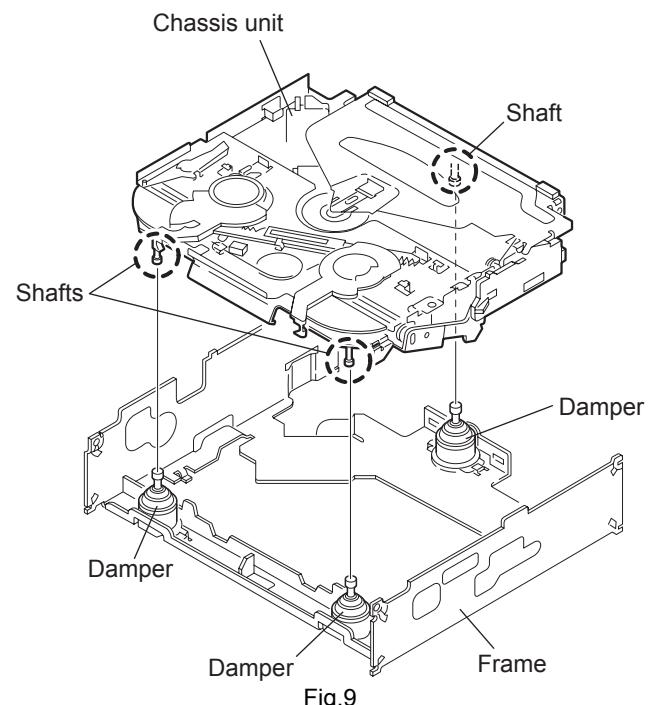


Fig.9

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.

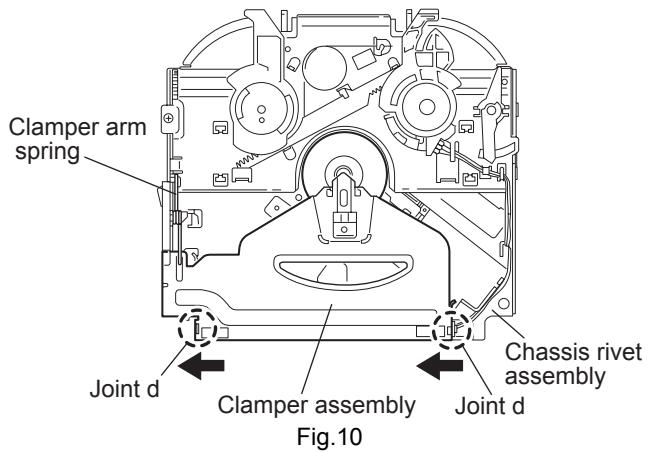


Fig.10

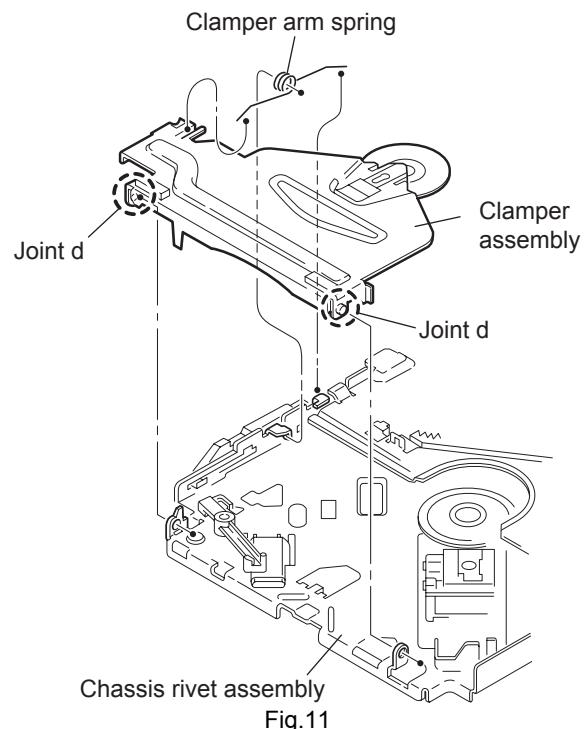


Fig.11

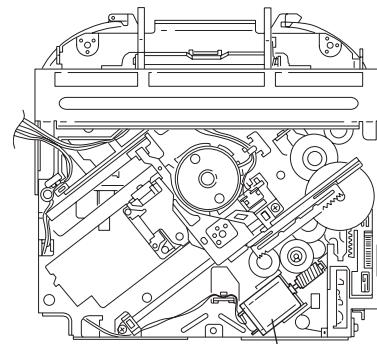
3.2.6 Removing the loading / feed motor assembly

(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.



Loading / feed motor assembly
Fig.12

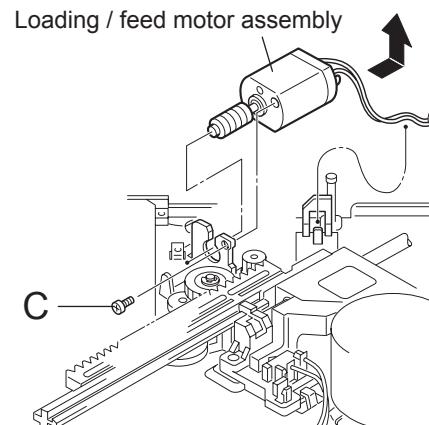


Fig.13

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 **i** 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**.

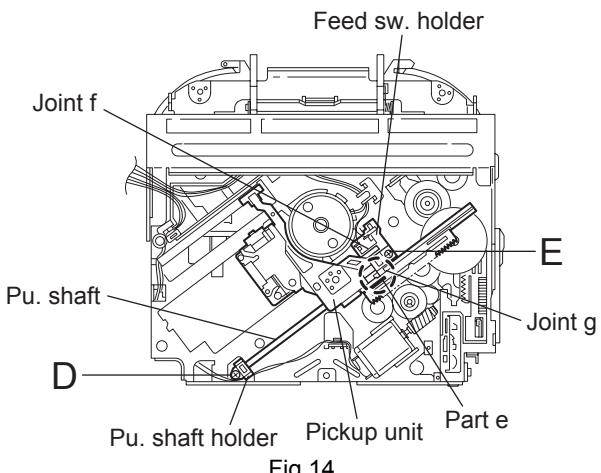


Fig.14

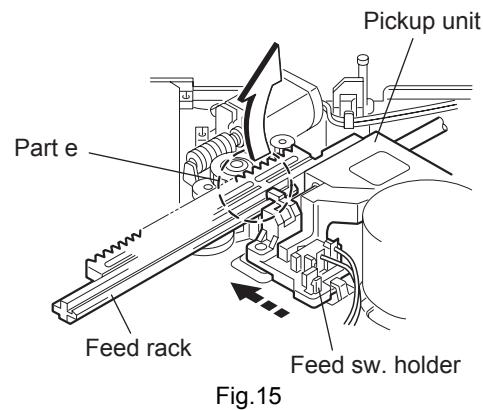


Fig.15

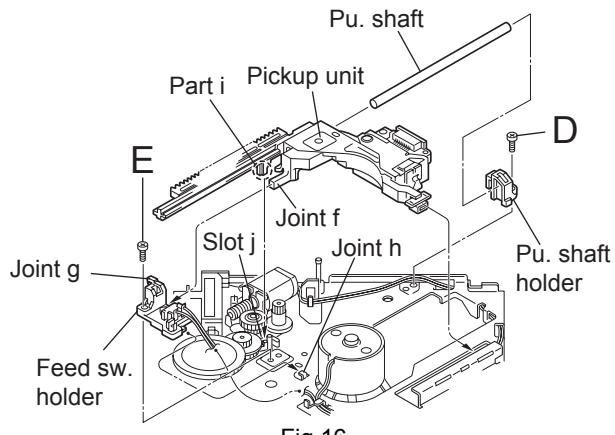


Fig.16

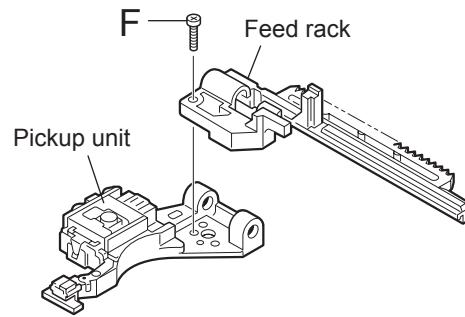


Fig.17

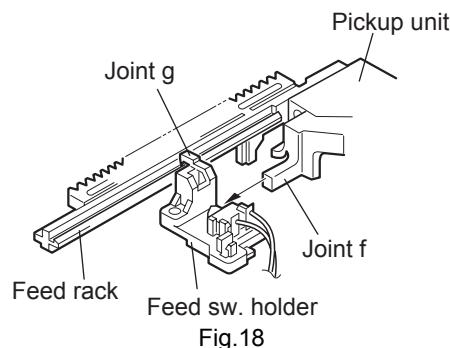


Fig.18

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.

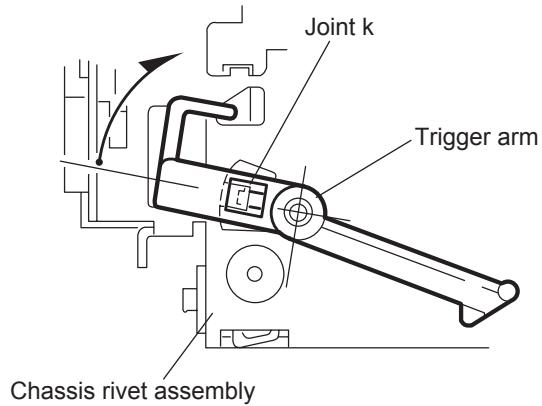


Fig.19

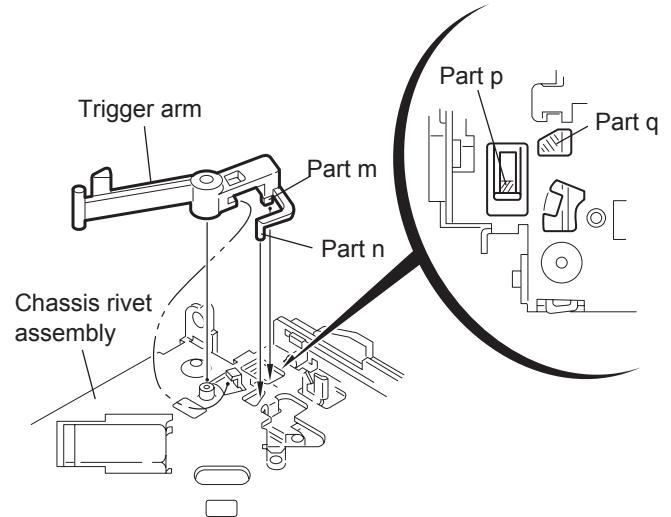


Fig.20

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.

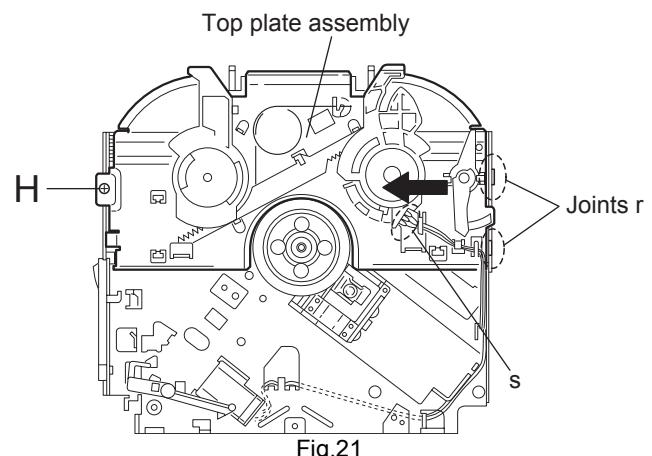


Fig.21

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.

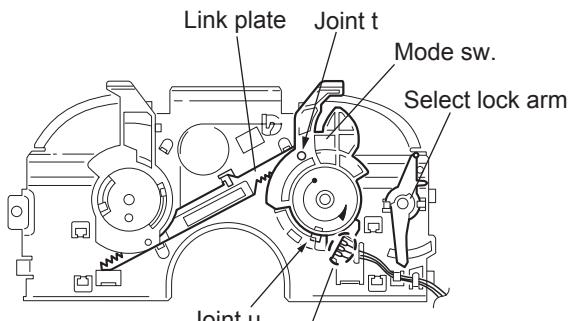


Fig.22

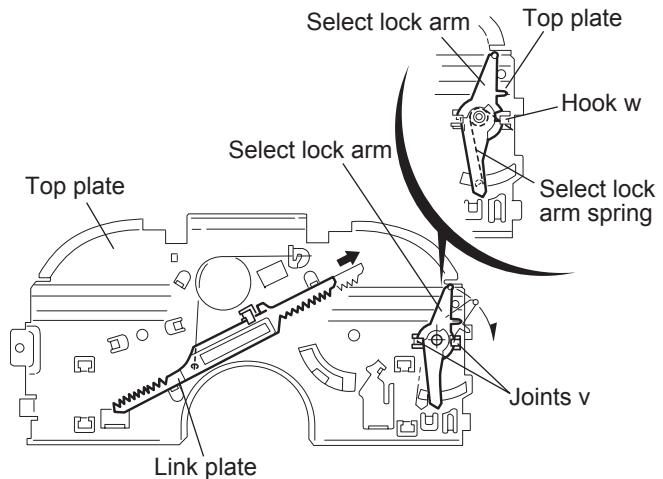


Fig.23

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.

Select lock arm spring

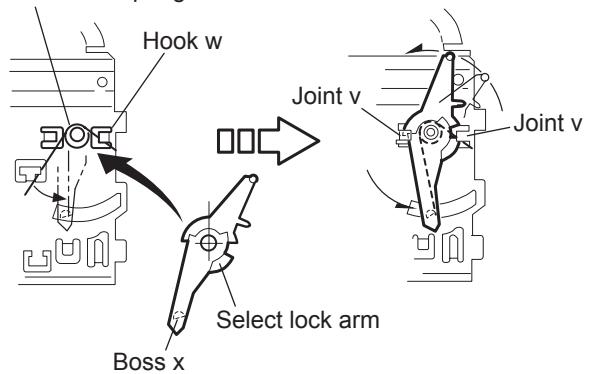


Fig.24

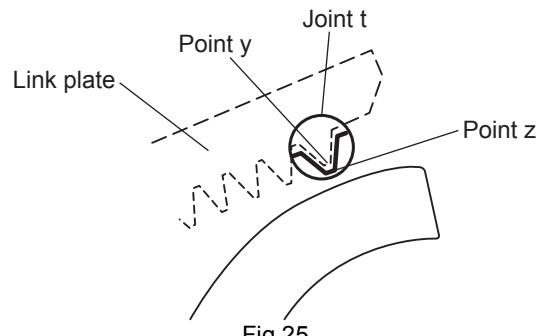


Fig.25

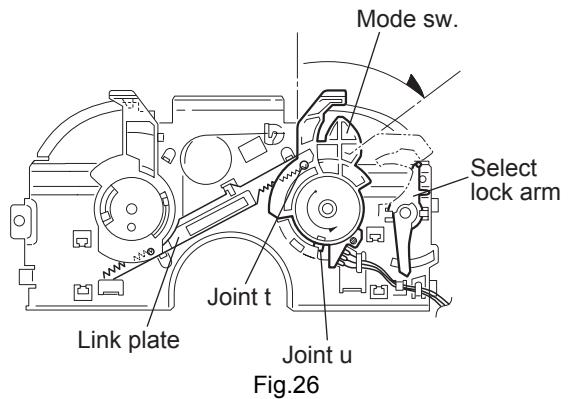


Fig.26

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..

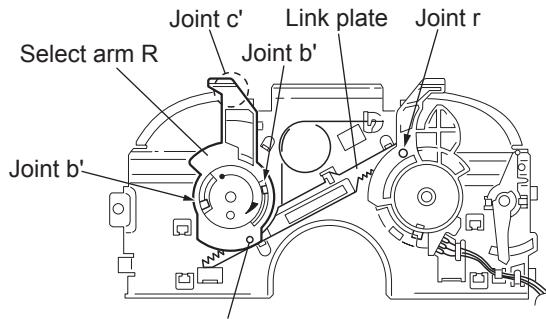


Fig.27

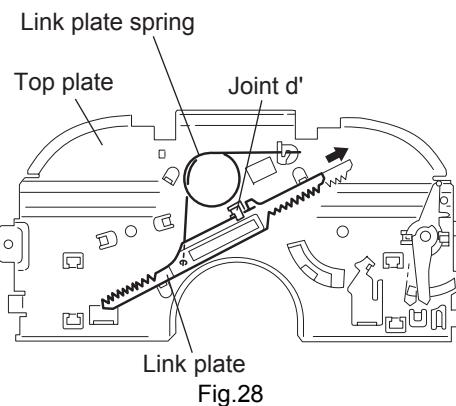


Fig.28

3.2.14 Reattaching the Select arm R / link plate

(See Figs.29 and 30)

REFERENCE:

Reverse the above removing procedure.

- Reattach the link plate spring.
- Reattach the link plate to the link plate spring while joining them at joint d'.
- 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.

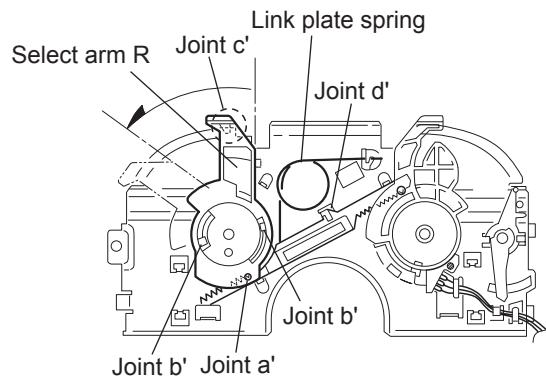


Fig.29

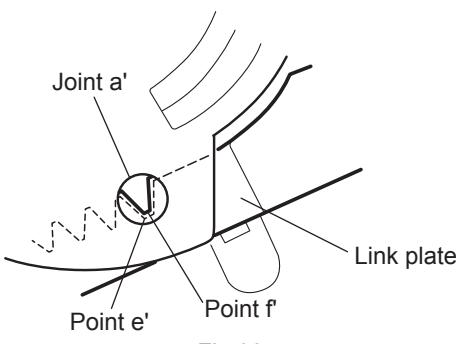


Fig.30

3.2.15 Removing the loading roller assembly

(See Figs.31 to 33)

- Prior to performing the following procedure, remove the clamer 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.)

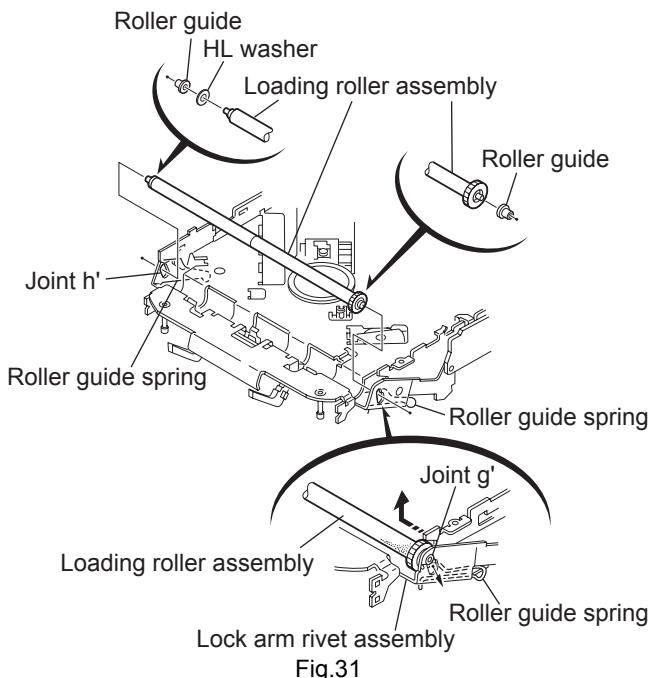


Fig.31

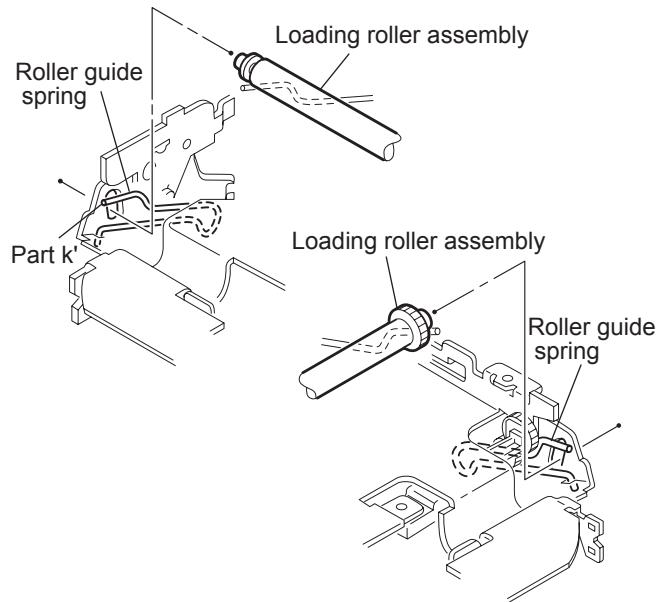


Fig.32

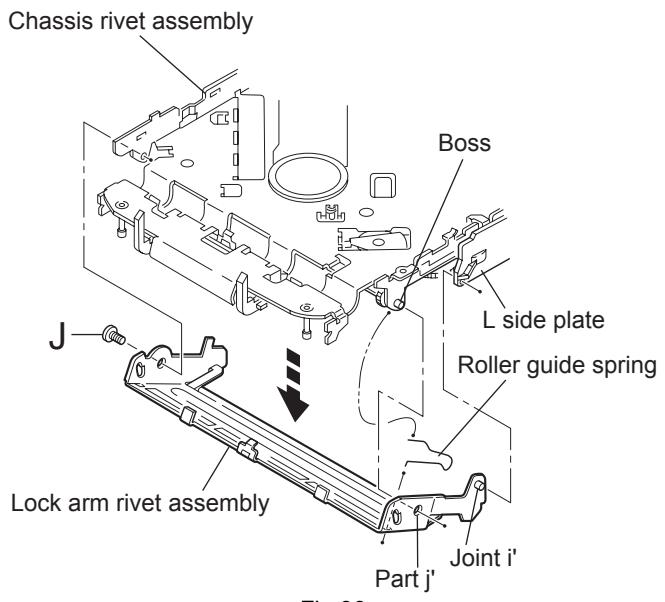


Fig.33

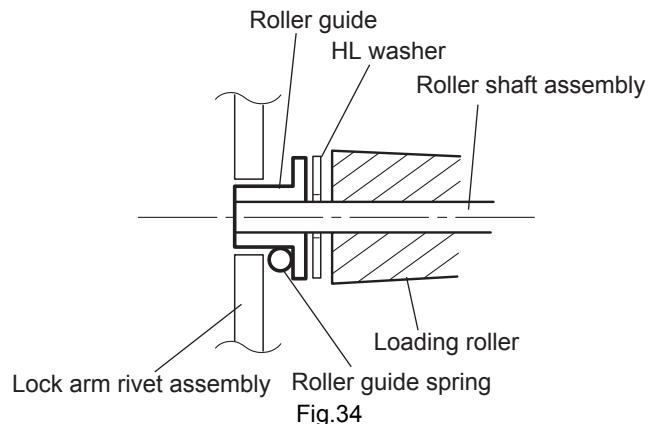


Fig.34

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.

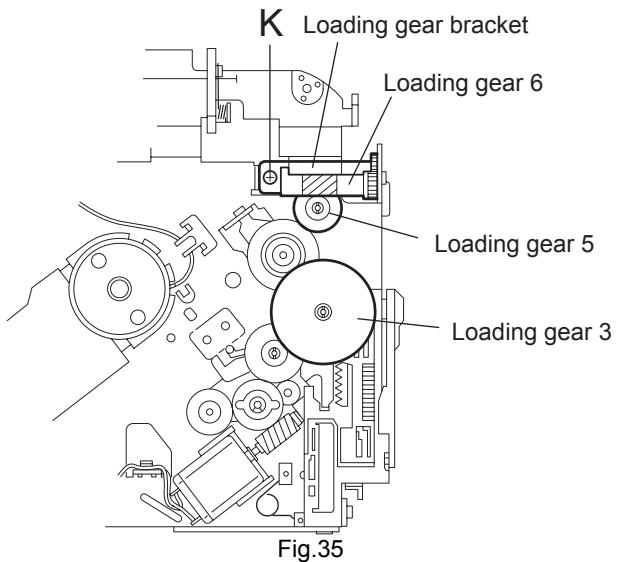


Fig.35

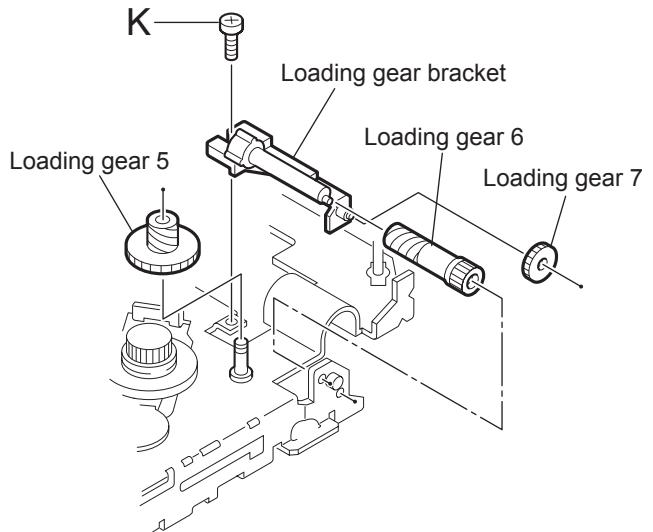
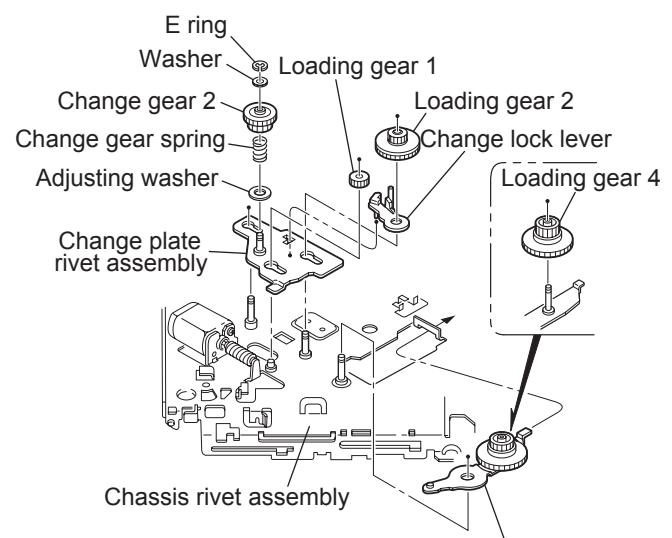
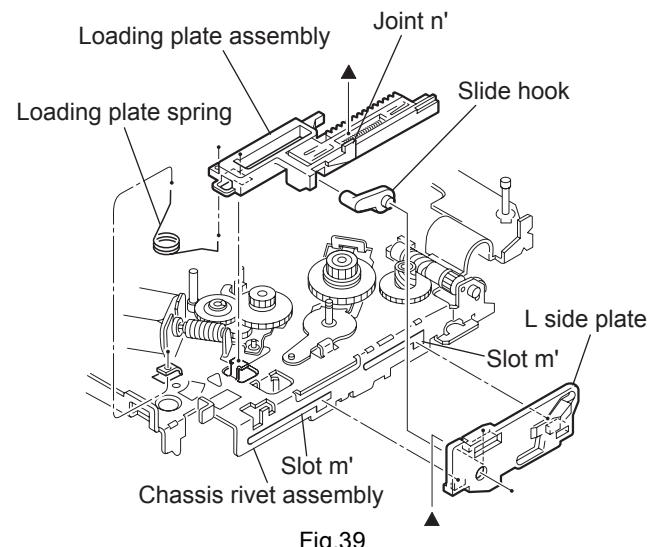
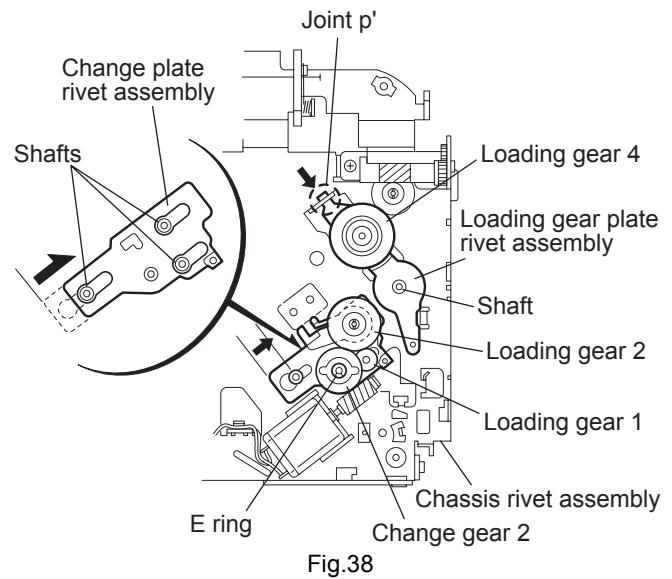
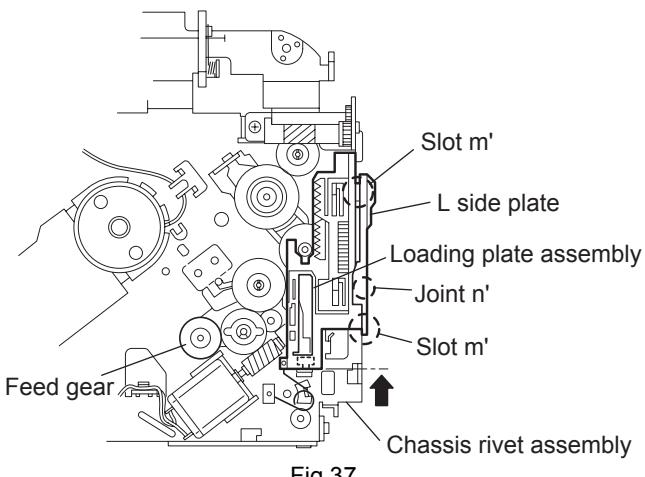


Fig.36

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.



Loading gear plate rivet assembly
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 clamp 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.

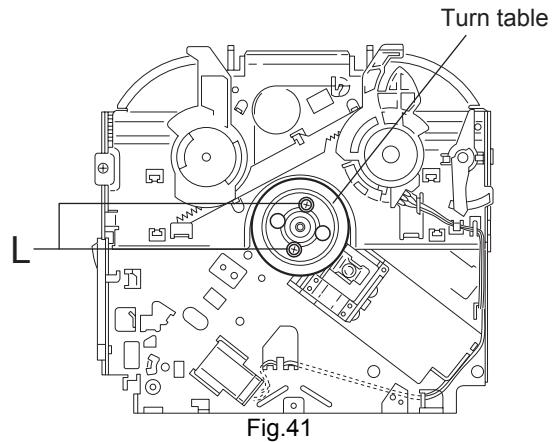


Fig.41

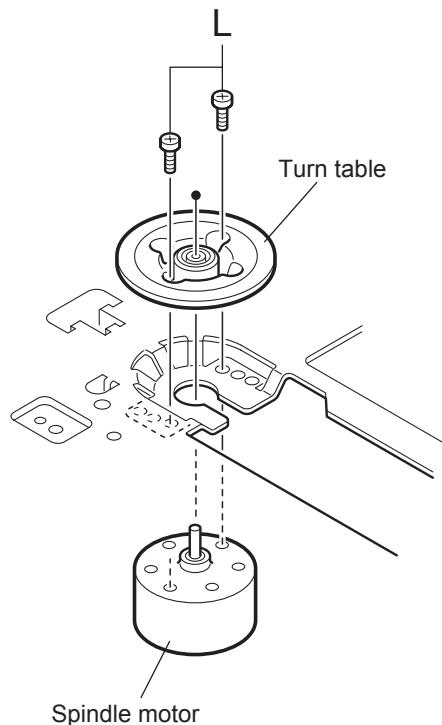


Fig.42

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

■ How to connect the extension cable for adjusting

Caution:

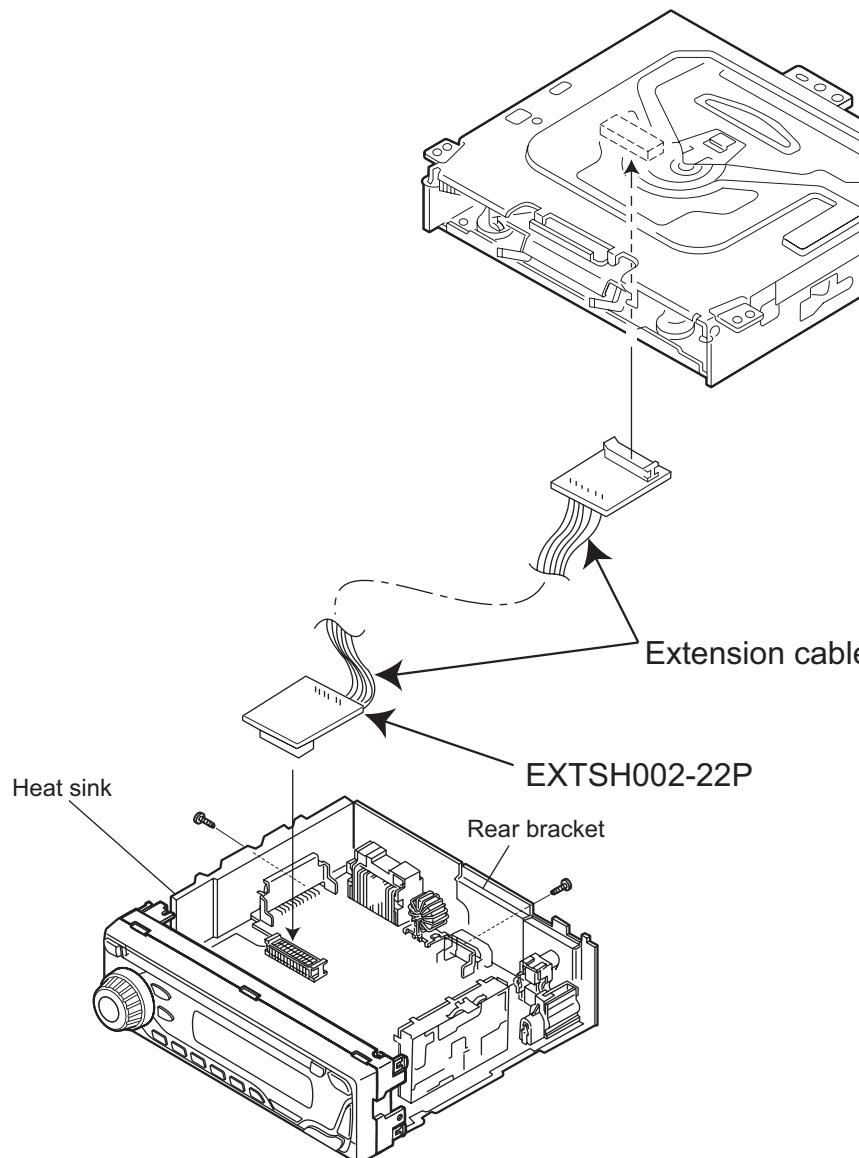
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power.
If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

■ Standard measuring conditions

Power supply voltage DC14.4V(11 to 16V)
Load impedance 20KΩ(2 Speakers connection)
Output Level Line out 2.5V (Vol. MAX)

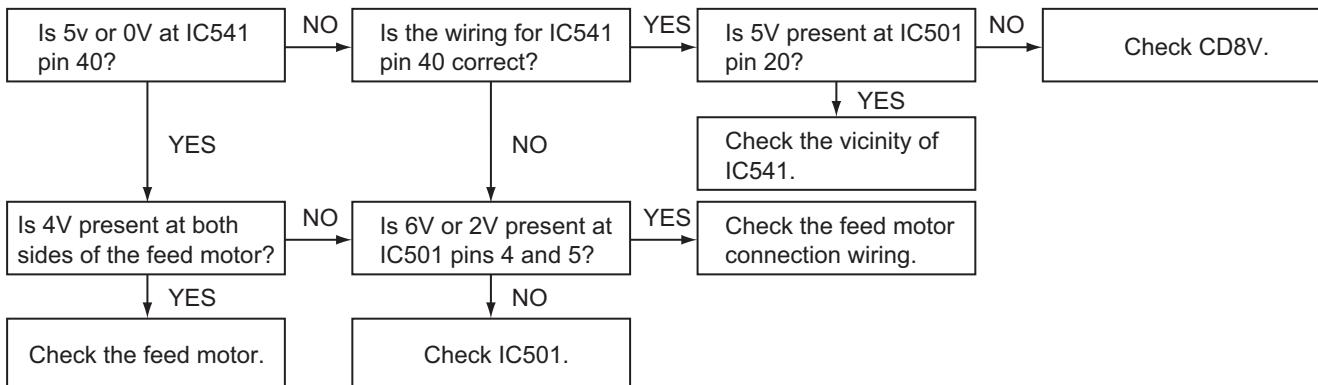
■ Dummy load

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

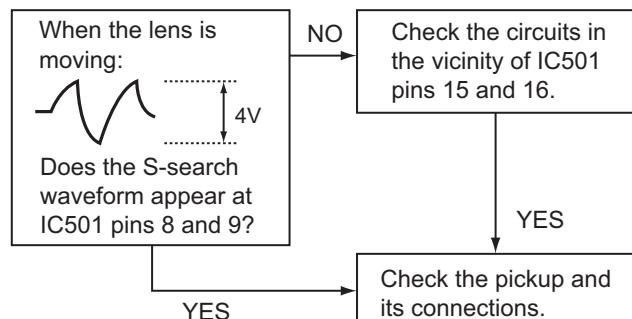


SECTION 5 TROUBLESHOOTING

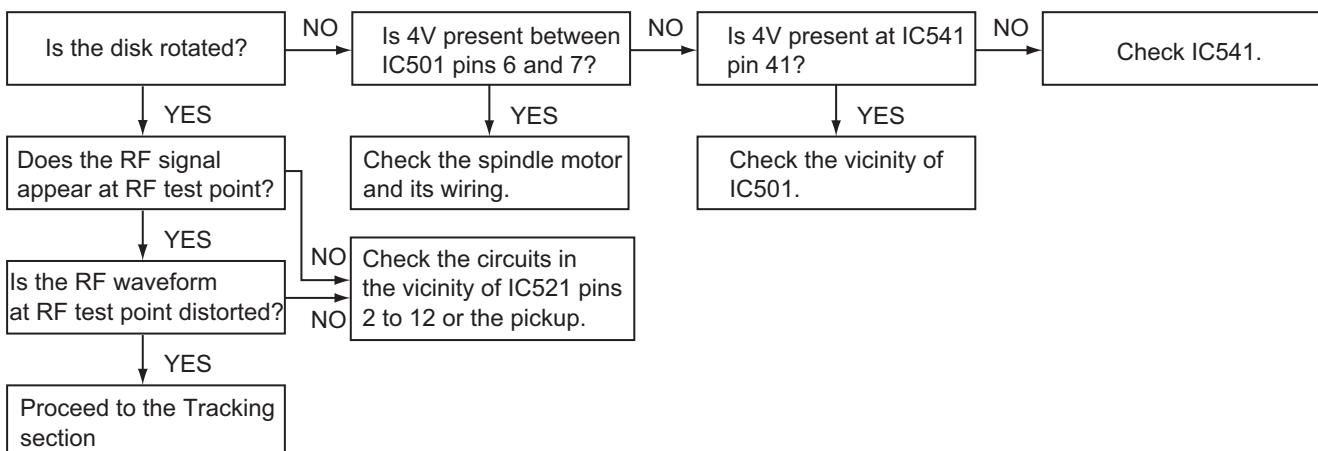
5.1 Feed section



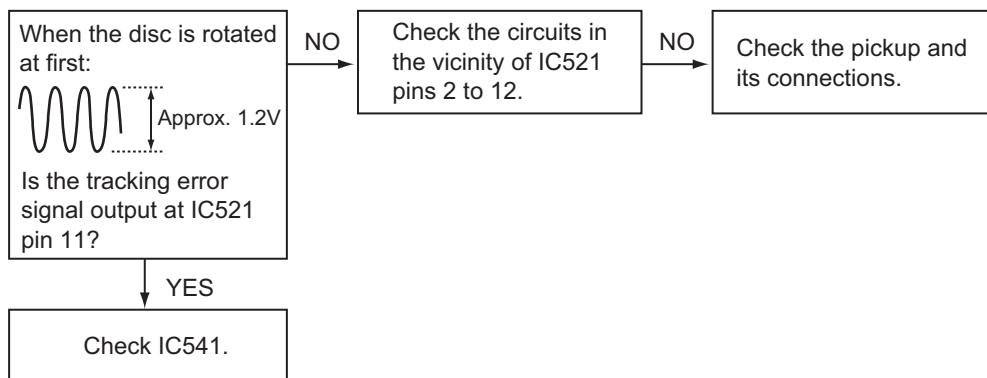
5.2 Focus section



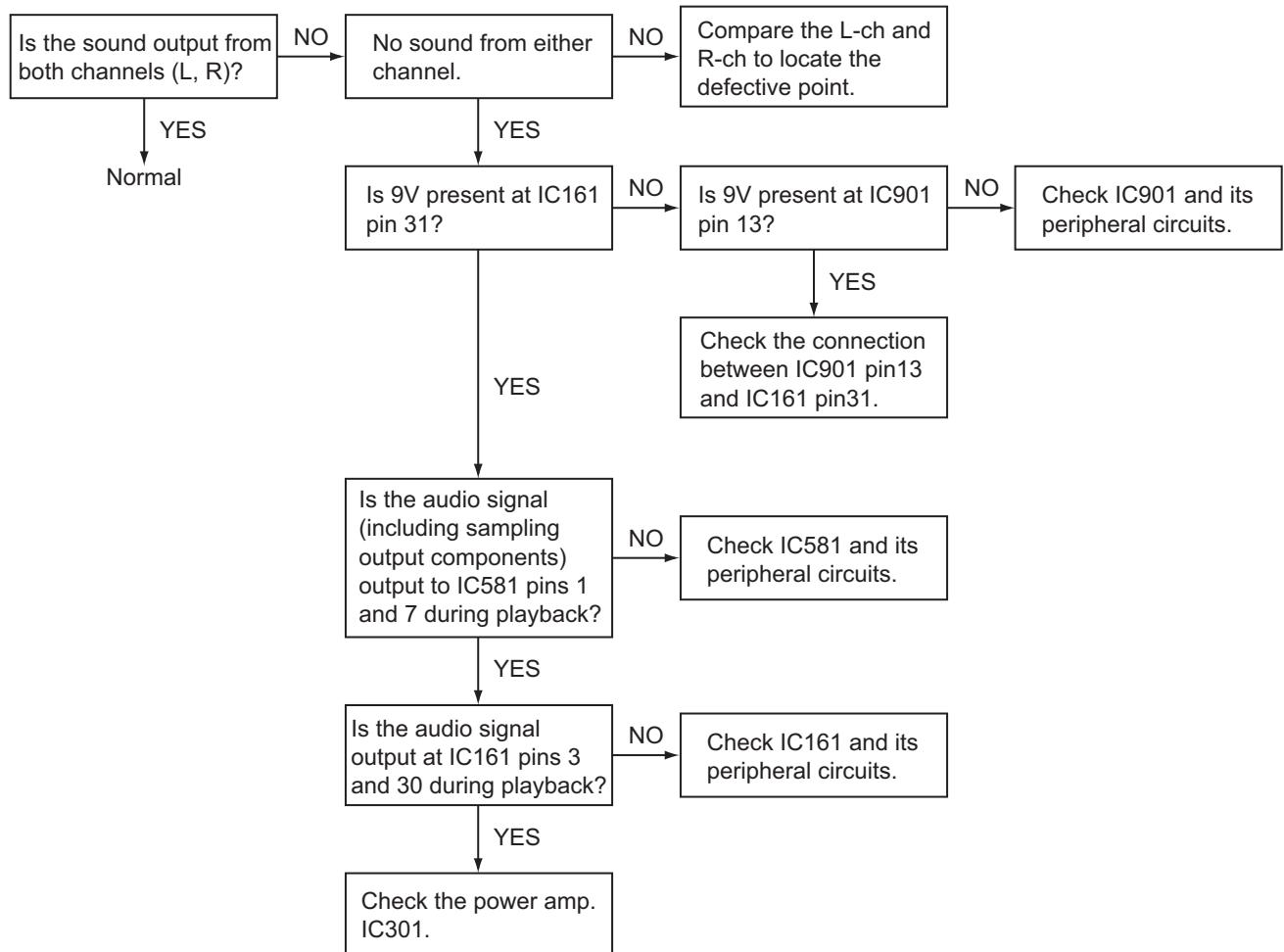
5.3 Spindle section



5.4 Tracking section



5.5 Signal processing section



5.6 Maintenance of laser pickup

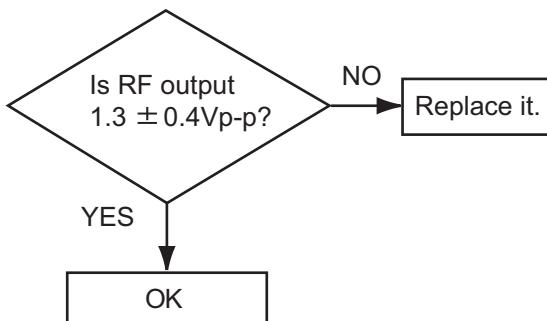
(1) Cleaning the pick up lens

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

(2) Life of the laser diode

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

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



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

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

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

5.7 Replacement of laser pickup

Turn off the power switch and, disconnect the power cord.

Replace the pickup with a normal one. (Refer to "Removing the pickup unit" on the previous page.)

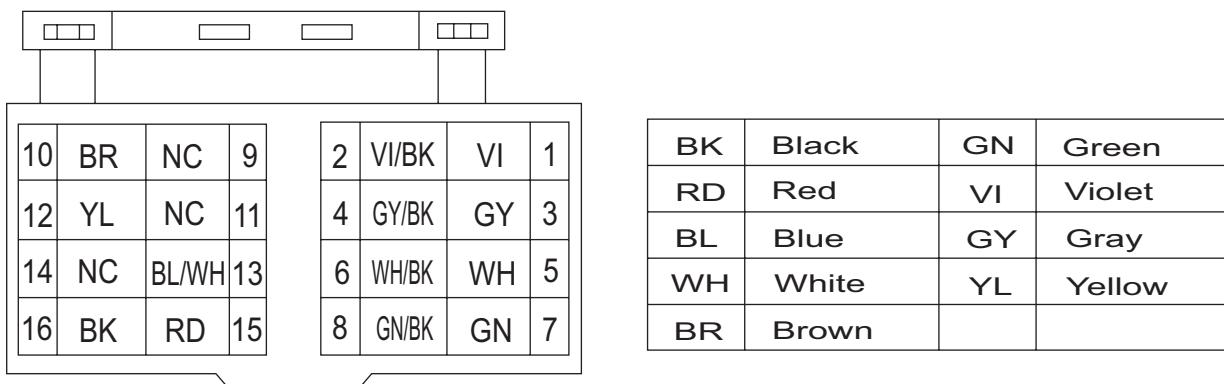
Plug the power cord in, and turn the power on. At this time, check that the laser emits for about seconds and the objective lens moves up and down. Note: Do not observe the laser beam directly.

Play a disc.

Check the eye-pattern at RF test point.

Finish.

5.8 16 PIN CORD DIAGRAM



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 out	MEMORY	Memory Backup Battery+



Victor Company of Japan, Limited

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

(No.MA135)



Printed in Japan
VPT

PARTS LIST

[KD-G411]

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

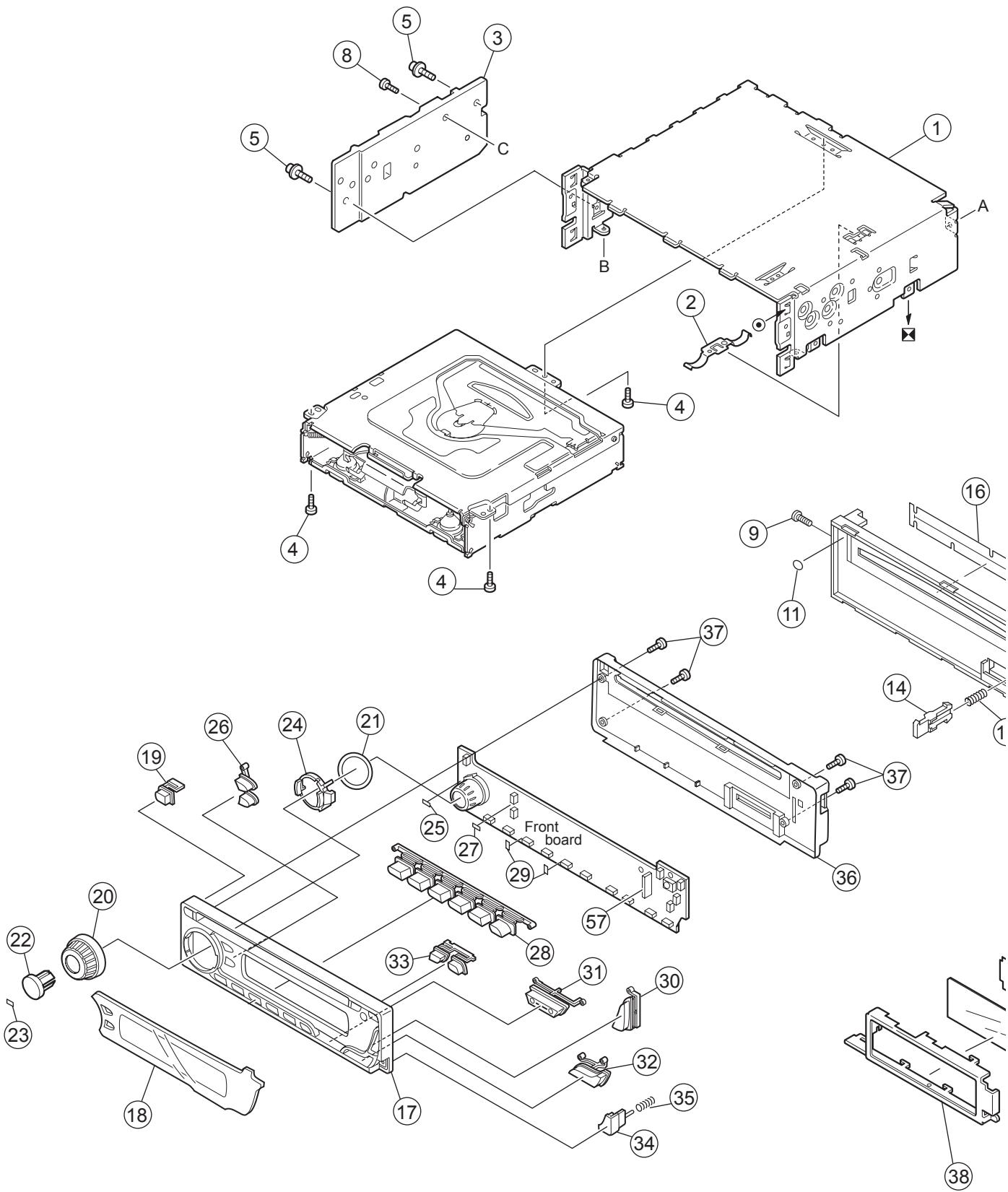
Area suffix	
E	Southern Europe
EX	Northern Europe
EY	Eastern Europe
EU	Turkey

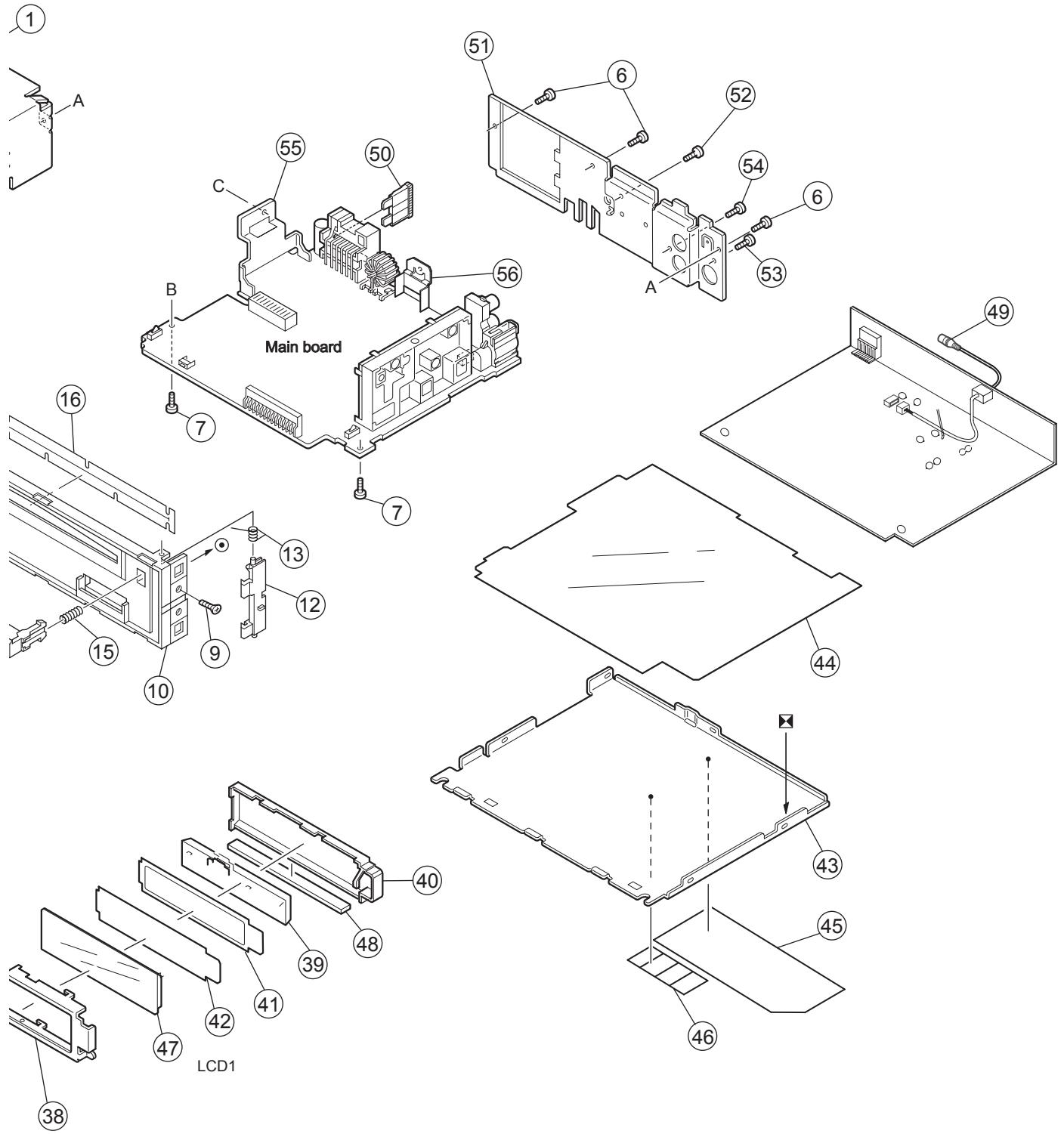
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3-2
CD mechanism assembly and parts list (Block No.MB)	3-5
Electrical parts list (Block No.01~02)	3-7
Packing materials and accessories parts list (Block No.M3)	3-12

Exploded view of general assembly and parts list

Block No. M 1 M M





General Assembly

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

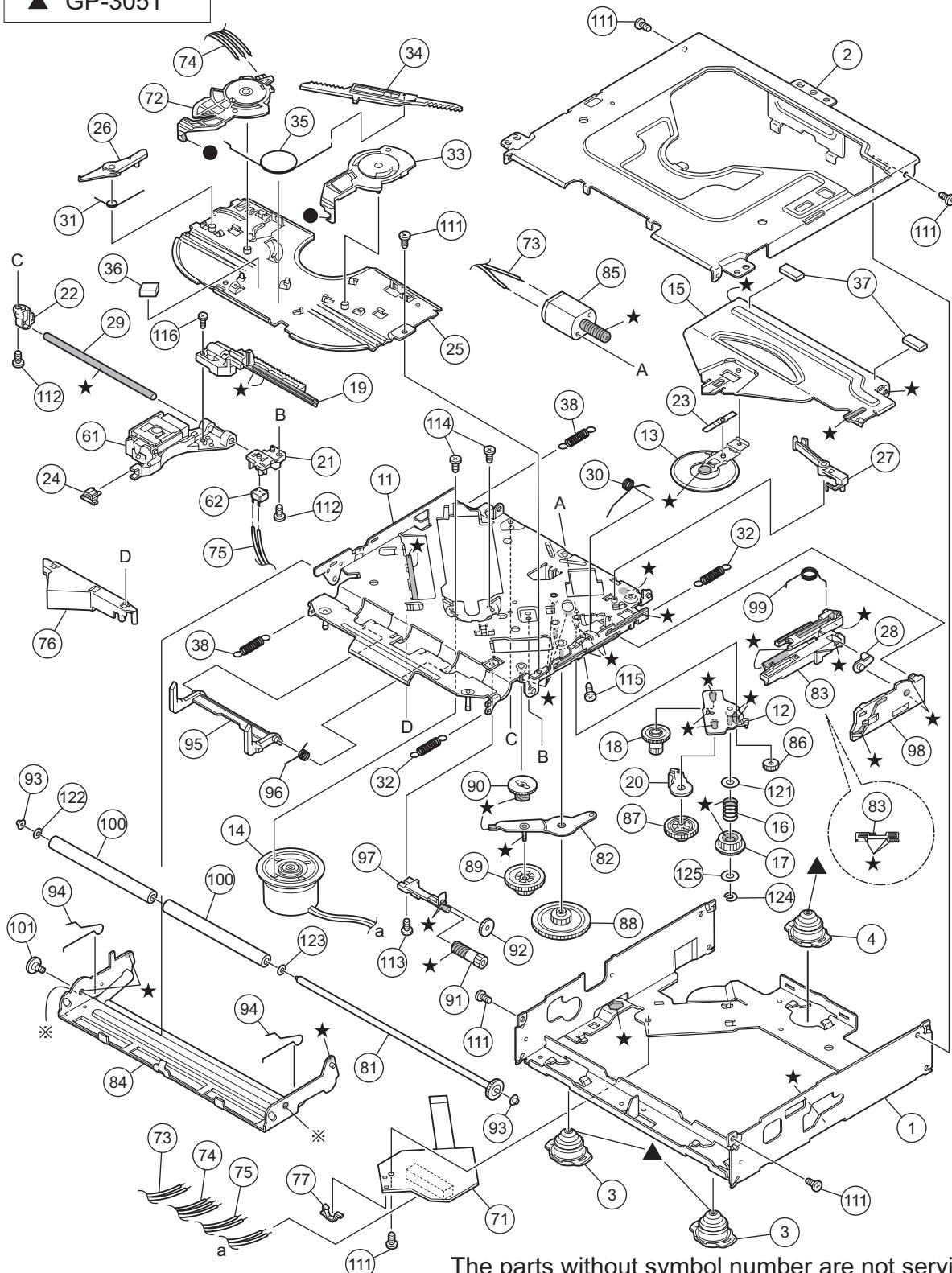
△	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10043-210A	TOP CHASSIS		
	2	GE40135-001A	EARTH PLATE		
	3	GE30938-003A	SIDE PANEL		
	4	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	5	GE40235-001A	SCREW	(x2)	
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40235-004A	SCREW	(x2)	
	8	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	9	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	10	GE10079-007A	FRONT CHASSIS		
	11	FSYH4036-098	SHEET		
	12	GE31033-001A	LOCK LEVER		
	13	FSKW4005-003	TORSION SPRING		
	14	GE31034-001A	RLS KNOB		
	15	GE40202-005A	COMPRESSION SPRING		
	16	GE40156-001A	BLIND		
	17	GE10077-007A	FRONT PANEL		
	18	GE31031-046A	FINDER ASSY		
	19	GE31027-001A	POWER BUTTON		
	20	GE31038-003A	VOLUME KNOB		
	21	GE40218-002A	SHEET		
	22	GE31039-003A	SEL BUTTON		
	23	FSYH4036-053	SHEET		
	24	GE31040-001A	RIM LENS		
	25	FSYH4036-069	SHEET		
	26	GE31181-001A	D.FUNC BTN		
	27	FSYH4036-069	SHEET		
	28	GE20161-001A	PRESET BUTTON		
	29	FSYH4036-069	SHEET	(x2)	
	30	GE31024-001A	UP/DOWN BTN		
	31	GE31028-003A	SSM BTN		
	32	GE31025-001A	SEARCH BTN		
	33	GE31026-001A	EJECT BUTTON		
	34	GE31032-008A	DETACH BTN		
	35	GE40202-003A	COMPRESSION SPRING		
	36	GE10078-007A	REAR COVER		
	37	VKZ4777-010	MINI SCREW	(x4)	
	38	GE31021-001A	LCD CASE		
	39	GE31022-002A	LCD LENS		
	40	GE31023-001A	LENS CASE		
	41	GE40199-001A	LIGHTING SHEET		
	42	GE40199-002A	LIGHTING SHEET		
	43	GE30393-002A	BOTTOM COVER		
	44	FSMA3004-203	INSULATOR		
	45	GE31428-001A	NAME PLATE		
	46	LV41843-002A	LASER CAUTION		
	47	QLD0299-001	LCD MODULE		
	48	QNZ0443-001	LCD CONNECTOR		
	49	QAM0544-002	STEERING CABLE		
△	50	QMFDZ047-150-T	FUSE	15A	
	51	GE30912-020A	REAR BRACKET		
	52	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	53	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	54	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	55	GE40172-004A	IC BRACKET		
	56	GE40124-002A	REG BRACKET		
	57	GE30854-001A	LED HOLDER		

CD mechanism assembly and parts list

Block No. M B M M

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

TN-2001-1011



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 ASSY		
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

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
IC31	TB2118F-X	PLL IC		
IC71	SAA6579T-X	IC		
IC161	TEA6320T-X	IC		
IC301	LA47515	IC		
IC401	TC94A34FG-002	IC		
IC461	NJU7772F15-X	IC		
IC481	AK4385ET-X	IC		
IC501	LA6242H-X	IC		
IC521	TA2157FN-X	RF AMP IC		
IC541	TC94A14FA	CD LSI IC		
IC581	NJM4565M-WE	IC		
IC701	UPD784217AGC297	IC		
IC702	IC-PST3433U-X	IC		
IC771	BR24L16F-W-X	IC		
IC901	HA13164A	IC		
Q1	2SD601A/QR/-X	TRANSISTOR		
Q2	2SD601A/QR/-X	TRANSISTOR		
Q3	UN2111-X	TRANSISTOR		
Q5	2SB709A/R/-X	TRANSISTOR		
Q6	2SB624/4/-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q10	UN2211-X	TRANSISTOR		
Q31	UN2211-X	TRANSISTOR		
Q51	2SD601A/QR/-X	TRANSISTOR		
Q52	2SD601A/QR/-X	TRANSISTOR		
Q53	UN2211-X	TRANSISTOR		
Q81	2SD601A/QR/-X	TRANSISTOR		
Q84	UN2111-X	TRANSISTOR		
Q91	2SD601A/QR/-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q430	2SD601A/QR/-X	TRANSISTOR		
Q440	UN2211-X	TRANSISTOR		
Q501	2SB1322/RS/-T	TRANSISTOR		
Q502	2SB1132/QR/-W	TRANSISTOR		
Q521	2SB1241/QR/-T	TRANSISTOR		
Q541	UN2111-X	TRANSISTOR		
Q542	UN2211-X	TRANSISTOR		
Q543	UN2111-X	TRANSISTOR		
Q544	2SB624/4/-X	TRANSISTOR		
Q545	UN2211-X	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2211-X	TRANSISTOR		
Q784	UN2111-X	TRANSISTOR		
Q891	UN2211-X	TRANSISTOR		
Q976	UN2211-X	TRANSISTOR		
Q977	2SB709A/QR/-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D2	MA111-X	SI DIODE		
D4	MA111-X	SI DIODE		
D5	MA111-X	SI DIODE		
D84	MA111-X	SI DIODE		
D341	MA111-X	SI DIODE		
D351	MA111-X	SI DIODE		
D481	UDZS5.1B-X	Z DIODE		
D701	MA8062/M/-X	Z 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		
D709	MA8062/M/-X	Z DIODE		
D710	MA8062/M/-X	Z DIODE		
D711	MA8062/M/-X	Z DIODE		
D712	MA8062/M/-X	Z DIODE		
D713	MA111-X	SI DIODE		
D781	MA111-X	SI DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D782	MA111-X	SI DIODE		
D784	UDZS11B-X	Z DIODE		
D891	MA111-X	SI DIODE		
D892	MA111-X	SI DIODE		
D901	1N5401-F64	DIODE		
D902	MA111-X	SI DIODE		
D971	RB160M-30-X	SB DIODE		
D972	RB160M-30-X	SB DIODE		
C1	QEJK1CM-226Z	E CAPACITOR	22uF 16V M	
C2	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3	QEJK1CM-226Z	E CAPACITOR	22uF 16V M	
C4	QEJK1AM-227Z	E CAPACITOR	220uF 10V M	
C5	QEJK1HM-105Z	E CAPACITOR	1uF 50V M	
C6	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9	QEJK1AM-227Z	E CAPACITOR	220uF 10V M	
C31	QEJK1AM-107Z	E CAPACITOR	100uF 10V M	
C32	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C33	QEJK0JM-476Z	E CAPACITOR	47uF 6.3V M	
C34	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C35	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C36	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C37	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C38	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C39	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C40	QEJK1CM-106Z	E CAPACITOR	10uF 16V M	
C41	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C42	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C43	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J	
C44	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C45	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C46	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C47	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C48	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C49	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C50	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C51	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C52	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C53	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C54	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C55	QEJK1HM-474Z	E CAPACITOR	0.47uF 50V M	
C71	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C72	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C73	QEJK1HM-225Z	E CAPACITOR	2.2uF 50V M	
C74	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C75	NDC31HK-470X	C CAPACITOR	47pF 50V J	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C77	QEJK0JM-476Z	E CAPACITOR	47uF 6.3V M	
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C81	QEJK1HM-105Z	E CAPACITOR	1uF 50V M	
C82	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C83	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C84	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C85	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C91	QEJK1HM-105Z	E CAPACITOR	1uF 50V M	
C92	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C94	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C95	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C161	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C162	QEJK1HM-105Z	E CAPACITOR	1uF 50V M	
C164	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C165	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C166	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C167	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C168	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C169	QEJK1EM-475Z	E CAPACITOR	4.7uF 25V M	
C170	QEJK1EM-475Z	E CAPACITOR	4.7uF 25V M	
C171	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C172	QEJK1HM-105Z	E CAPACITOR	1uF 50V M	
C174	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C175	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C176	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C177	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C178	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C179	QEJK1EM-475Z	E CAPACITOR	4.7uF 25V M	

Symbol No.	Part No.	Part Name	Description	Local	Symbol No.	Part No.	Part Name	Description	Local
C180	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C534	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C191	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		C541	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C192	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M		C542	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C193	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M		C543	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C194	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C544	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C301	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C302	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C546	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C303	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C547	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C304	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C548	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C307	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C549	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C308	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C311	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C551	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C312	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C552	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C553	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C554	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C315	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M		C555	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C316	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C556	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C317	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		C557	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C318	QEDJ1CM-226Z	E CAPACITOR	22uF 16V M		C558	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		C559	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C320	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		C560	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C561	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C322	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C323	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C565	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C324	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C566	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C325	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C568	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C341	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C569	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C402	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C570	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C403	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C571	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C404	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C572	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C405	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C580	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C408	NDC31HK-103X	C CAPACITOR	0.01uF 50V K		C581	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C409	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C582	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C411	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C583	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C412	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C584	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C413	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C414	NCB31HK-222X	C CAPACITOR	2200pF 50V K		C589	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C415	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C590	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C416	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C591	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C419	NDC31HJ-120X	C CAPACITOR	12pF 50V J		C592	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C420	NDC31HJ-120X	C CAPACITOR	12pF 50V J		C593	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C421	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C594	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C422	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C430	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C596	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C431	NDC31HK-101X	C CAPACITOR	100pF 50V J		C597	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C440	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C599	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C461	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C701	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C462	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C702	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C463	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C703	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C464	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C704	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C481	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C705	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C482	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C706	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C483	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C707	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C501	QEDJ1AM-476Z	E CAPACITOR	47uF 10V M		C708	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M		C710	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C504	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C711	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C505	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C506	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C713	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C507	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C716	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C717	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C509	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C718	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C510	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C719	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C511	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C771	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C512	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C781	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C782	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C522	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C783	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C523	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C784	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C524	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C525	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C901	QEZ0675-338	E CAPACITOR	3300uF	
C527	NCB31HK-682X	C CAPACITOR	6800pF 50V K		C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C528	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C529	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C904	QEDJ1CM-106Z	E CAPACITOR	10uF 16V M	
C530	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C531	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C532	NDC31HJ-680X	C CAPACITOR	68pF 50V J		C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C533	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C908	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C909	QEJK1JM-227Z	E CAPACITOR	220uF 6.3V M		R343	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
C910	QEJK1CM-106Z	E CAPACITOR	10uF 16V M		R351	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C911	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R352	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R353	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
C913	QEJK1CM-106Z	E CAPACITOR	10uF 16V M		R402	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C914	QEJK1CM-107Z	E CAPACITOR	100uF 16V M		R403	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C915	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C919	QEJK1CM-106Z	E CAPACITOR	10uF 16V M		R405	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C961	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R406	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C962	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R407	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C963	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R408	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C964	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R409	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C965	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C966	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R413	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C967	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R414	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C968	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R415	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R416	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C990	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		R417	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C993	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		R423	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C995	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R424	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
					R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1	NRS181J-100X	MG RESISTOR	10Ω 1/8W J		R431	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R432	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R433	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R440	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R452	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R453	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R454	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R10	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R455	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R456	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R31	NRS181J-100X	MG RESISTOR	10Ω 1/8W J		R457	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R32	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J		R458	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R33	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R459	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R38	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R460	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R481	NRSA02J-181X	MG RESISTOR	180Ω 1/10W J	
R40	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R501	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R41	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R42	NRS181J-100X	MG RESISTOR	10Ω 1/8W J		R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R43	NRSA63J-471X	MG RESISTOR	47Ω 1/16W J		R504	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R44	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R507	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R51	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R508	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R52	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R53	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R510	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R54	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R511	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R55	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R512	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R56	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R513	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R57	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R514	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R58	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R515	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R59	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R516	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R71	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R517	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R72	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R518	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R523	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J		R524	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R81	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R525	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R82	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R526	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R83	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R527	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R84	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R528	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R91	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R92	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R530	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R93	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R162	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R532	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R533	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R164	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R534	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R535	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R536	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R537	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R174	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R539	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R175	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R541	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R181	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		R542	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R182	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		R543	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R301	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R302	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R311	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R546	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R312	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R341	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R342	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R549	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R550	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R551	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R552	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R553	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R559	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J		R976	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R581	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R977	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
R582	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R998	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R583	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		RA30	NRZ0065-222X	NET RESISTOR	2.2kΩ	
R584	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		RA550	NRZ0065-103X	NET RESISTOR	10kΩ	
R585	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		RA701	NRZ0065-102X	MG RESISTOR	1kΩ	
R586	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		L1	QLL244J-4R7Z	COIL	4.7uH J	
R587	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L401	NQL114K-470X	INDUCITOR	47uH K	
R588	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L402	NQL114K-470X	INDUCITOR	47uH K	
R591	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		L404	NQL114K-470X	INDUCITOR	47uH K	
R592	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		L541	QLL244J-470Z	COIL	47uH J	
R593	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		L543	QLL244J-470Z	COIL	47uH J	
R594	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		L544	QLL244J-470Z	COIL	47uH J	
R595	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		L701	NQL114M-4R7X	COIL	4.7uH M	
R596	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		L702	NQL114M-4R7X	COIL	4.7uH M	
R597	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L901	QQR0703-001	CHOKE COIL		
R701	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		CN501	QGB207M4-22S	CONNECTOR	B-B (1-22)	
R702	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN702	QGA2006F1-02	CONNECTOR	W-B (1-2)	
R704	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		CN901	QNZ0650-001	CAR CONNECTOR		
R705	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		J1	QNB0100-002	CAR ANT JACK		
R707	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		J321	QNN0519-001	PIN JACK		
R708	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		PP2	QZW0010-001	STYLE PIN		
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		TU1	QAU0313-001	TUNER		
R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		X31	QAX0616-001Z	CRYSTAL	10.250MHz	
R716	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		X71	QAX0263-001Z	CRYSTAL	4.332MHz	
R717	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X401	QAX0760-001Z	CRYSTAL		
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X701	QAX0617-001Z	CRYSTAL	12.500MHz	
R719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X702	QAX0401-001	CRYSTAL	32.768kHz	
R720	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J						
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R732	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R734	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		IC661	PT6523LQ-L	LCD DRIVER		
R735	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		IC681	RPM7338-V4	RM.RECEIVER		
R736	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		Q670	2SB624/4-X	TRANSISTOR		
R742	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		Q671	UN2211-X	TRANSISTOR		
R743	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D630	SML-310LT/MN/-X	LED		
R745	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D631	SML-310VT/JK/-X	LED		
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D632	SML-310VT/JK/-X	LED		
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		D633	SML-310VT/JK/-X	LED		
R748	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		D634	SML-310VT/JK/-X	LED		
R749	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		D635	SML-310VT/JK/-X	LED		
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D636	SML-310VT/JK/-X	LED		
R751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D637	SML-310VT/JK/-X	LED		
R752	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D638	SML-310VT/JK/-X	LED		
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D639	SML-310VT/JK/-X	LED		
R754	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		D640	SML-310VT/JK/-X	LED		
R755	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J		D641	SML-310VT/JK/-X	LED		
R756	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D642	SML-310VT/JK/-X	LED		
R757	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		D643	SML-310VT/JK/-X	LED		
R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D644	SML-310VT/JK/-X	LED		
R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D645	SML-310VT/JK/-X	LED		
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D646	SML-310VT/JK/-X	LED		
R763	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		D647	SML-310VT/JK/-X	LED		
R766	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		D648	SML-310VT/JK/-X	LED		
R767	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		D649	SML-310VT/JK/-X	LED		
R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		D650	SML-310VT/JK/-X	LED		
R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		D651	SML-310VT/JK/-X	LED		
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D652	NSPW310BS/BRS/	LED		
R793	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J		D653	NSPW310BS/BRS/	LED		
R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		D661	MA111-X	SI DIODE		
R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D662	UDZS5.1B-X	Z DIODE		

Front board

Block No. [0][2]

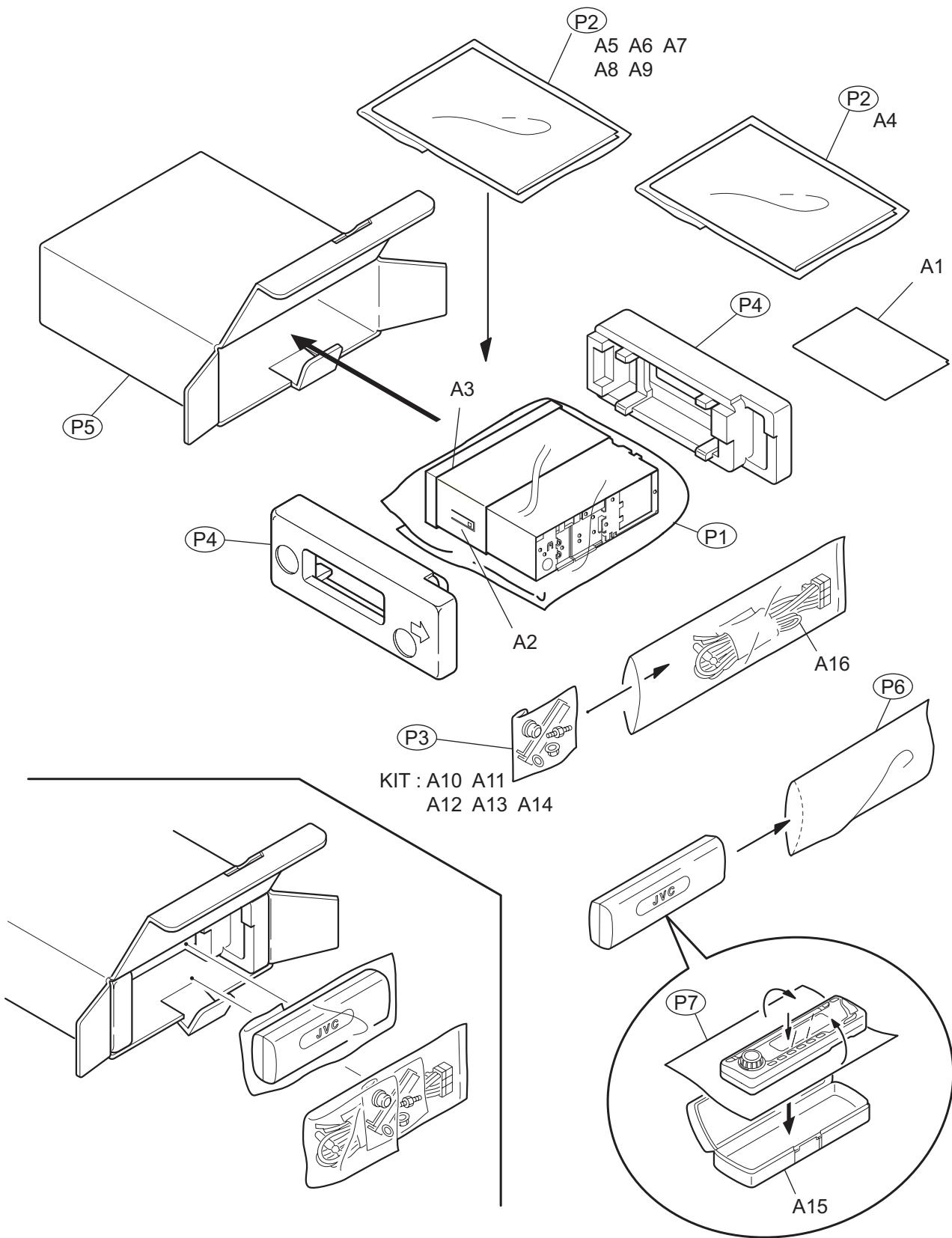
△ Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	LCD DRIVER		
IC681	RPM7338-V4	RM.RECEIVER		
D630	SML-310LT/MN/-X	LED		
D631	SML-310VT/JK/-X	LED		
D632	SML-310VT/JK/-X	LED		
D633	SML-310VT/JK/-X	LED		
D634	SML-310VT/JK/-X	LED		
D635	SML-310VT/JK/-X	LED		
D636	SML-310VT/JK/-X	LED		
D637	SML-310VT/JK/-X	LED		
D638	SML-310VT/JK/-X	LED		
D639	SML-310VT/JK/-X	LED		
D640	SML-310VT/JK/-X	LED		
D641	SML-310VT/JK/-X	LED		
D642	SML-310VT/JK/-X	LED		
D643	SML-310VT/JK/-X	LED		
D644	SML-310VT/JK/-X	LED		
D645	SML-310VT/JK/-X	LED		
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D649	SML-310VT/JK/-X	LED		
D650	SML-310VT/JK/-X	LED		
D651	SML-310VT/JK/-X	LED		
D652	NSPW310BS/BRS/	LED		
D653	NSPW310BS/BRS/	LED		
D661	MA111-X	SI DIODE		
D662	UDZS5.1B-X	Z DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D681	MA8062/M-X	Z DIODE		
C661	NBE20JM-106X	TA E CAPACITOR	10μF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022μF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7μF 6.3V M	
C682	NCB31HK-123X	C CAPACITOR	0.012μF 50V K	
C686	NCB31HK-223X	C CAPACITOR	0.022μF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022μF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R611	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R612	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R613	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R614	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R615	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R630	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R631	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R633	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R637	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R639	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R641	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R643	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R645	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R647	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R651	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R672	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R687	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R688	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
JS686	QSW0793-001	ROTARY ENCODER		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S607	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		
S617	NSW0124-001X	TACT SW		
S618	NSW0124-001X	TACT SW		

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available.



Packing and Accessories

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

△	Symbol No.	Part No.	Part Name	Description	Local
A 1		VND3050-002	IDENTITY CARD	(x0)	G411EU
A 1		VND3050-002	IDENTITY CARD		G411E,G411EX,G411EY
A 2		GE20137-003A	MOUNTING SLEEVE		
A 3		GE20135-010A	TRIM PLATE		
A 4		GET0257-001A	INST BOOK	GER FRE ITA	G411E
A 4		GET0257-003A	INST BOOK	ENG FRE	G411EU,G411EX
A 4		GET0257-006A	INST BOOK	ENG GRE RUS	G411EY
A 5		GET0257-002A	INST BOOK	SPA GRE POR	G411E
A 5		GET0257-005A	INST BOOK	SPA TUR PER	G411EU
A 5		GET0257-004A	INST BOOK	DUT SWE DAN FIN	G411EX
A 5		GET0257-007A	INST BOOK	POL CZE HUN	G411EY
A 6		GET0257-008A	INSTALL MANUAL		G411E
A 6		GET0257-010A	INSTALL MANUAL		G411EU,G411EX
A 6		GET0257-013A	INSTALL MANUAL		G411EY
A 7		GET0257-009A	INSTALL MANUAL		G411E
A 7		GET0257-012A	INSTALL MANUAL		G411EU
A 7		GET0257-011A	INSTALL MANUAL		G411EX
A 7		GET0257-014A	INSTALL MANUAL		G411EY
A 8	-----		WARRANTY CARD	BT-54023-1(x0)	G411EU
A 8	-----		WARRANTY CARD	BT-54023-1	G411E,G411EX,G411EY
A 9		VND3046-001	SERIAL TICKET	(x0)	G411EU
A 9		VND3046-001	SERIAL TICKET		G411E,G411EX,G411EY
A 10		VKZ4027-202	PLUG NUT		
A 11		VKH4871-003	MOUNT BOLT		
A 12		VKZ4328-003	LOCK NUT		
A 13		QYWWS53A008ZA	WASHER	0mm/5.3mm x	
A 14		GE40130-002A	HOOK	(x2)	
A 15		FSJB3002-00C	HARD CASE		
A 16		QAM0175-002	POWER CORD		
KIT		SRW-385U	SCREW PART KIT		
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		GE31429-001A	CARTON		
P 6		QPA01003003	POLY BAG	10cm x 30cm	
P 7		FSYH4036-068	SHEET		

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SCHEMATIC DIAGRAMS

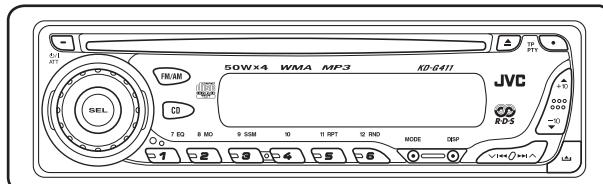
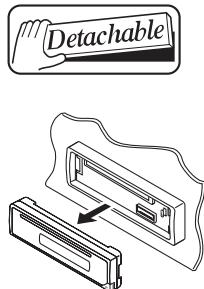
CD RECEIVER

KD-G411

CD-ROM No.SML200412

Area suffix

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



WMA MP3



Contents

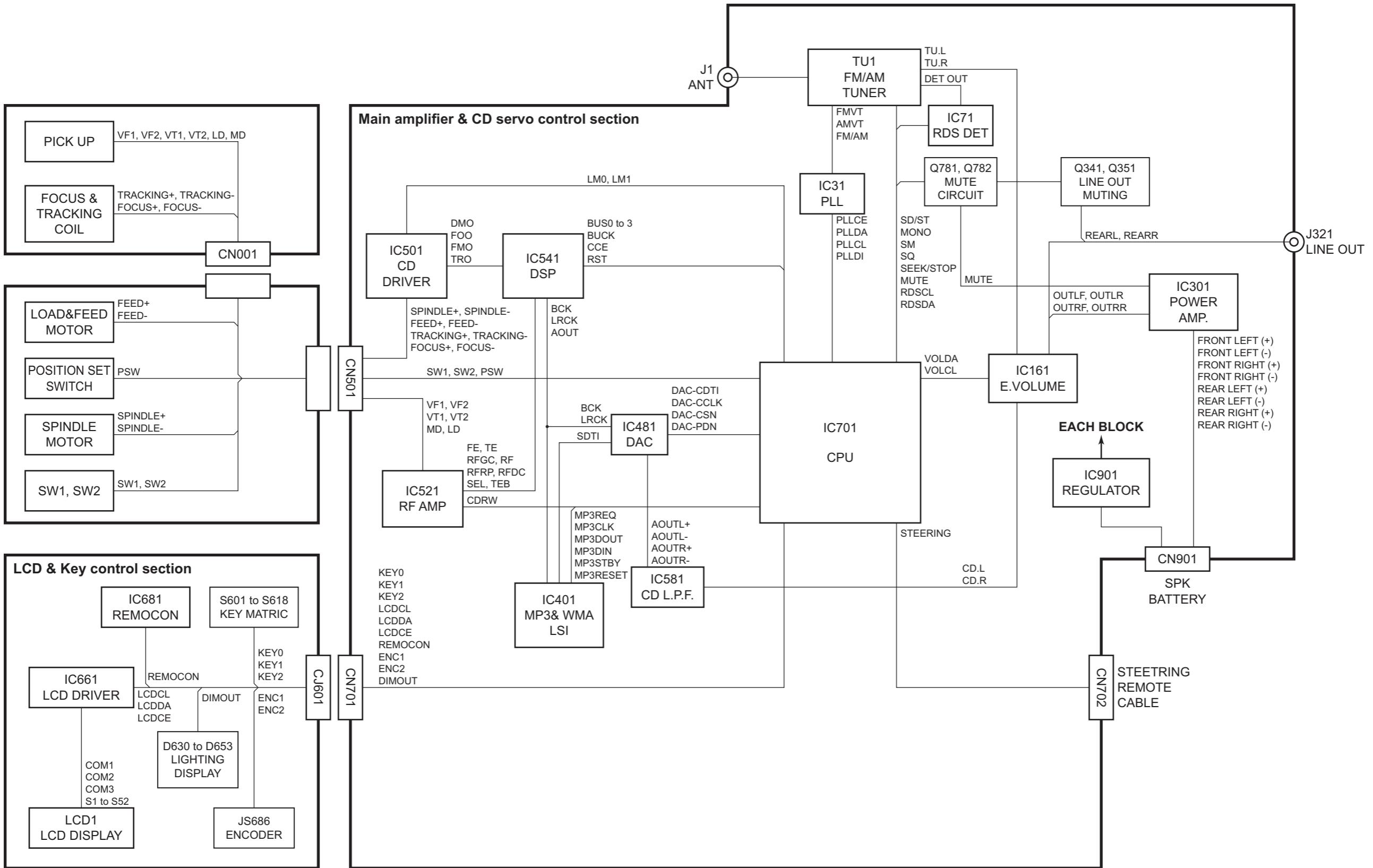
- Block diagram 2-1
- Standard schematic diagrams 2-2
- Printed circuit boards 2-5 to 7

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.

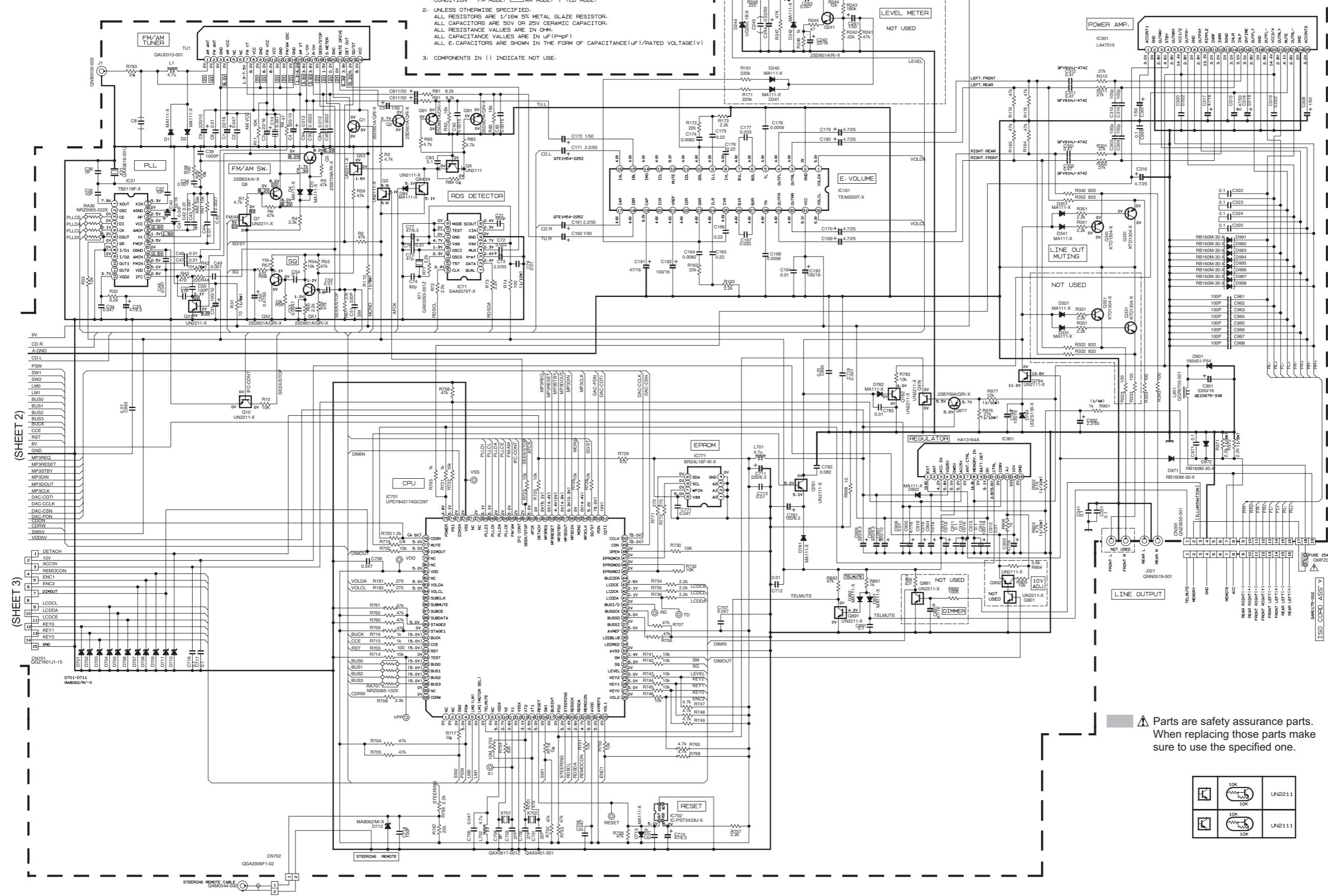
 **CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

Block diagram

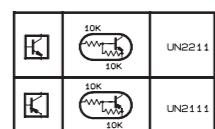


Standard schematic diagrams

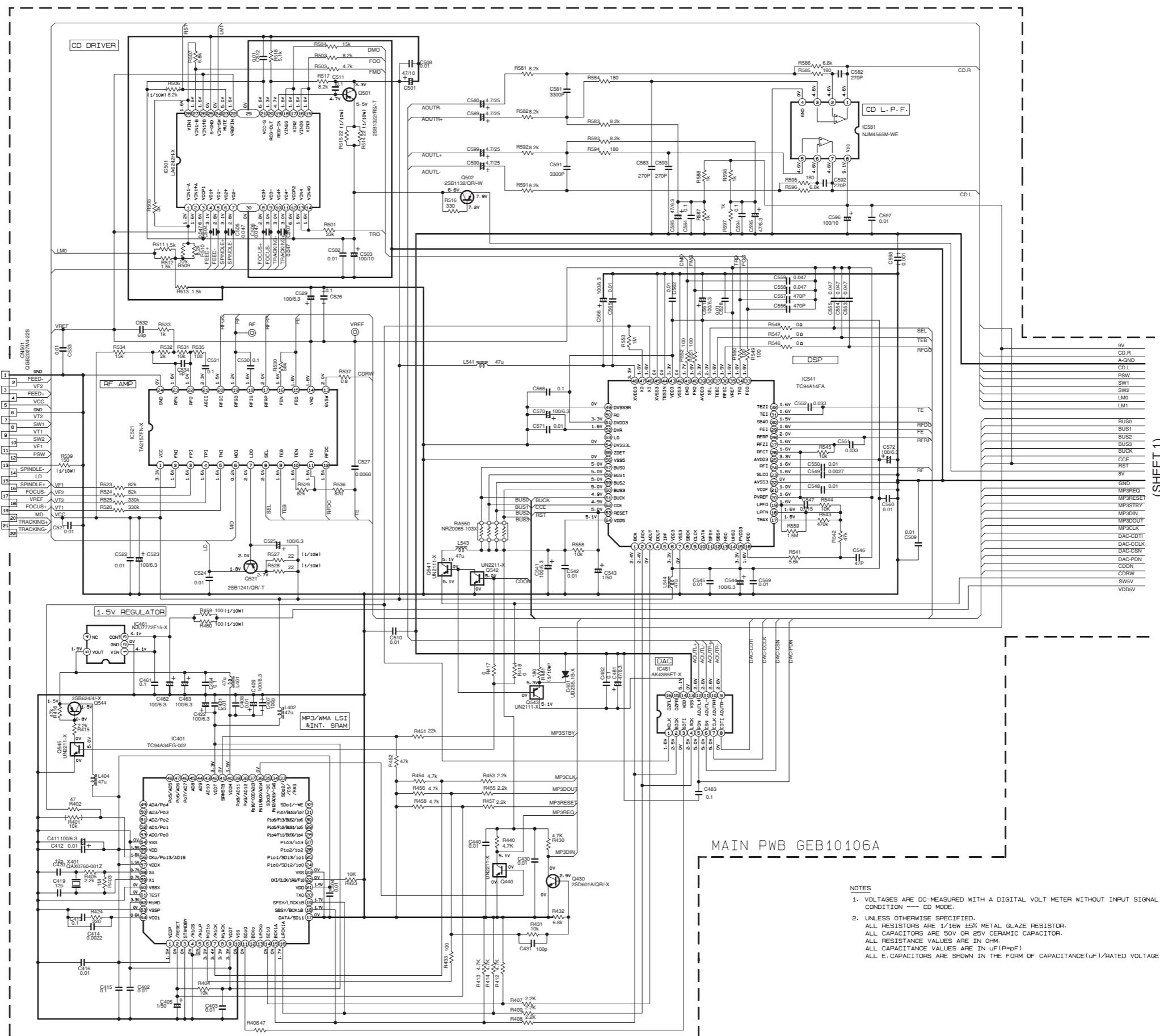
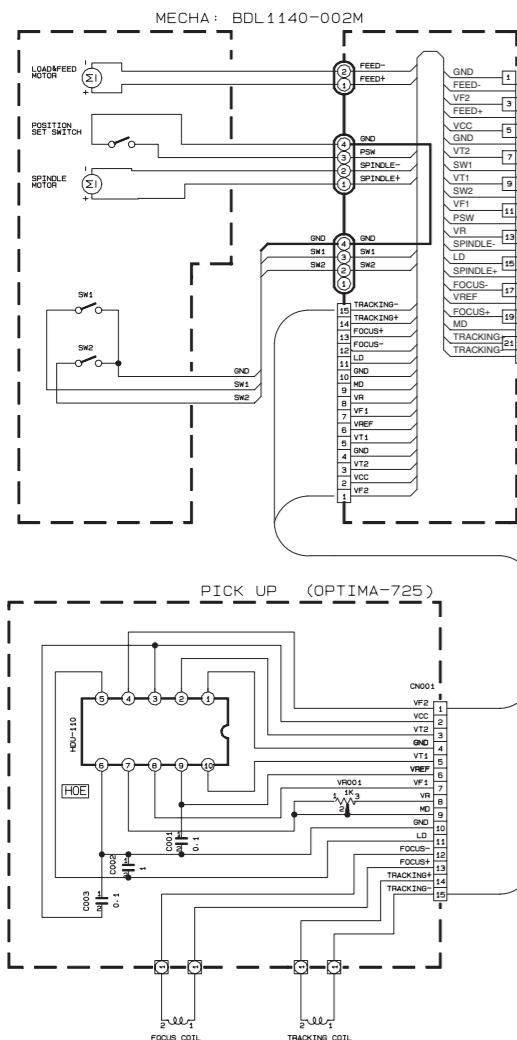
Main amplifier section



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

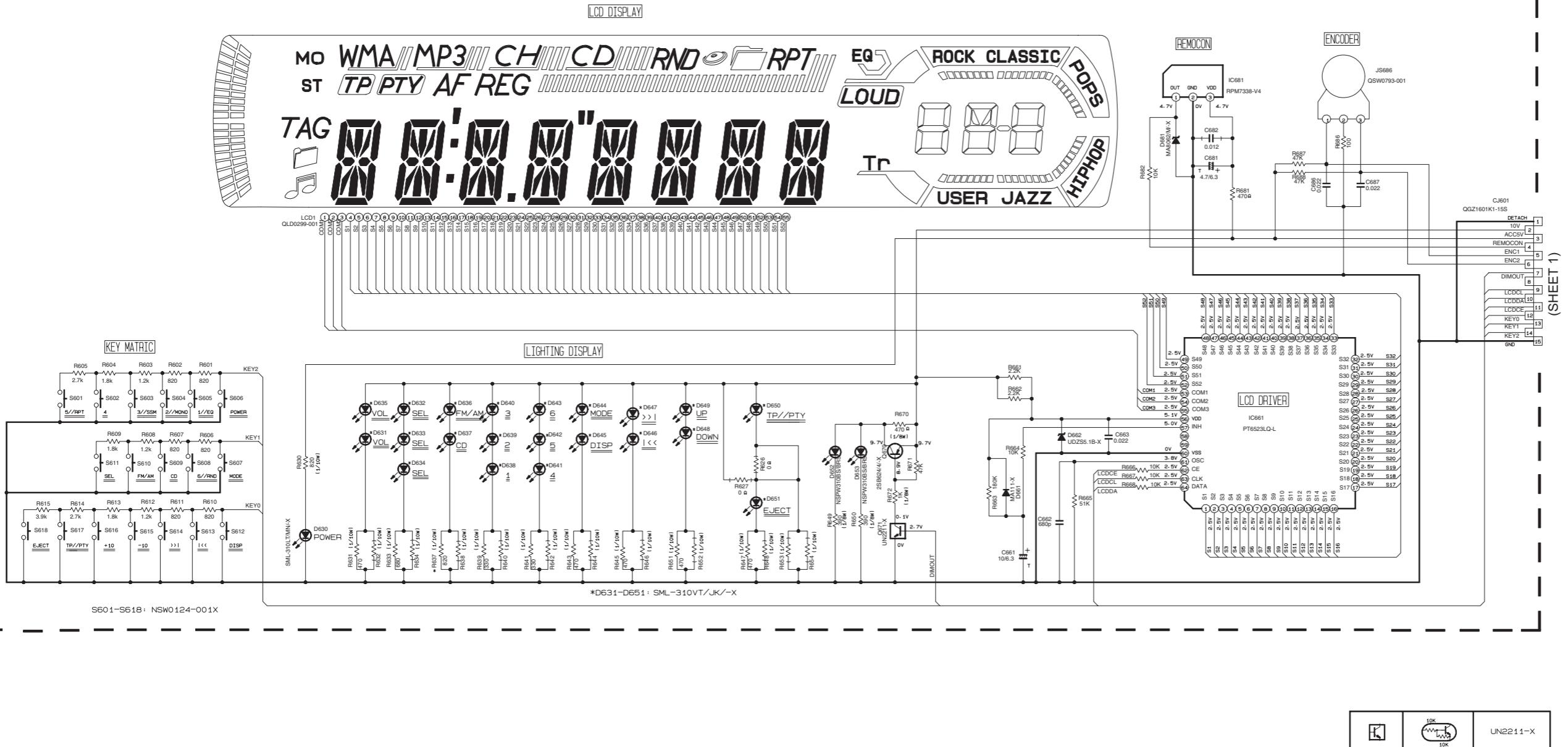


■ CD servo section



■ LCD & key control section

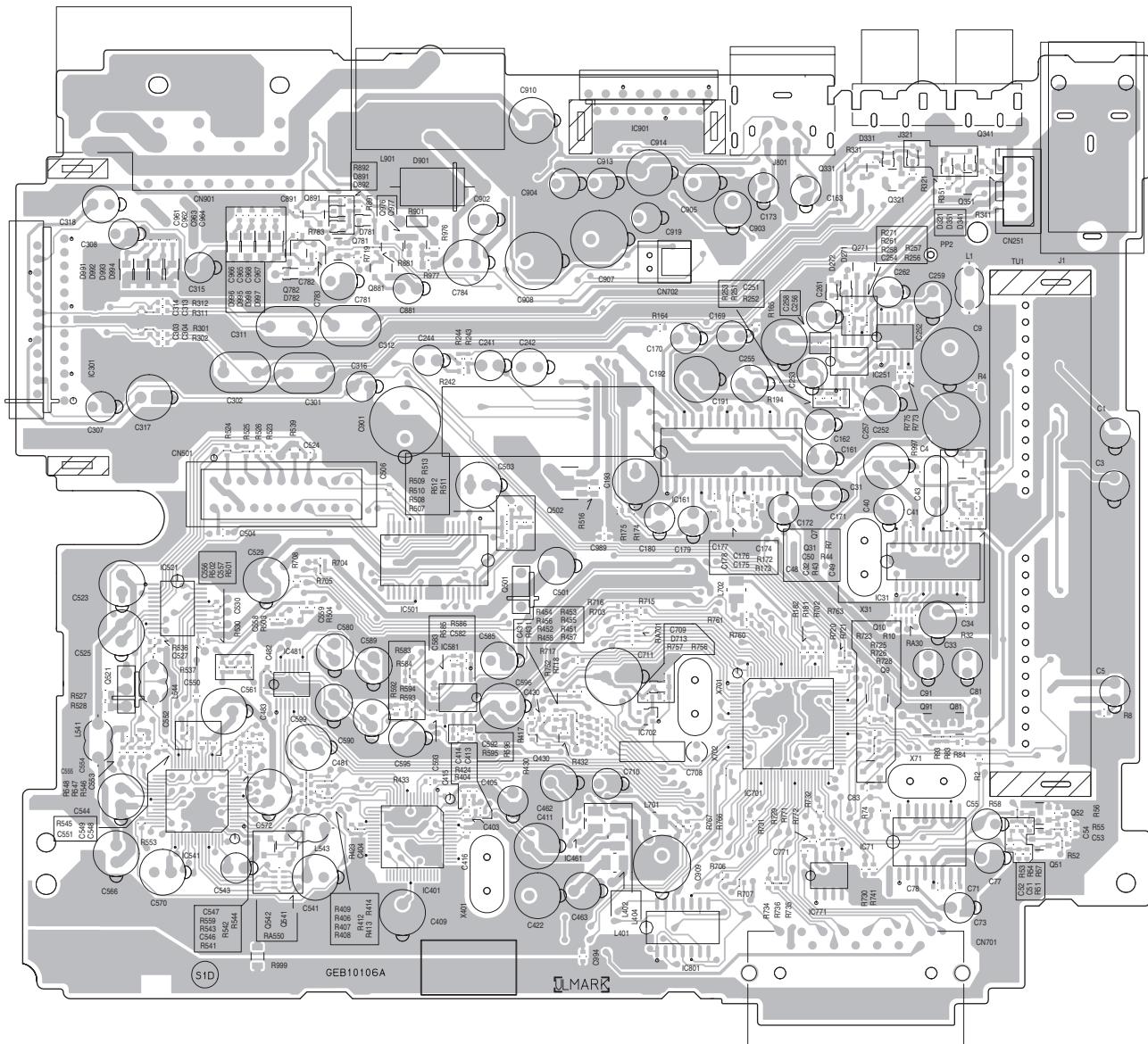
SW PWB: GEB10100A



Printed circuit boards

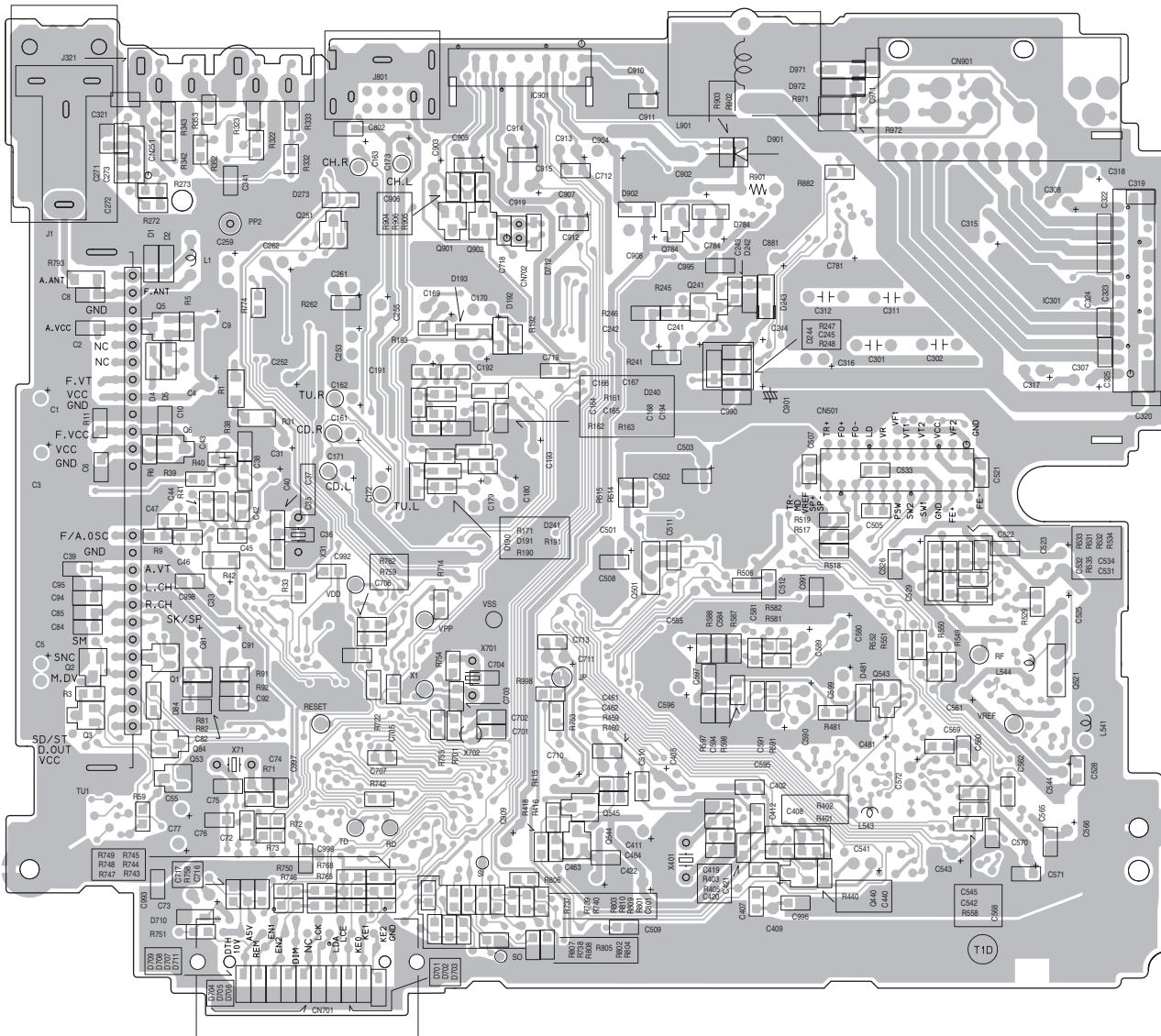
■ Main board

Forward side



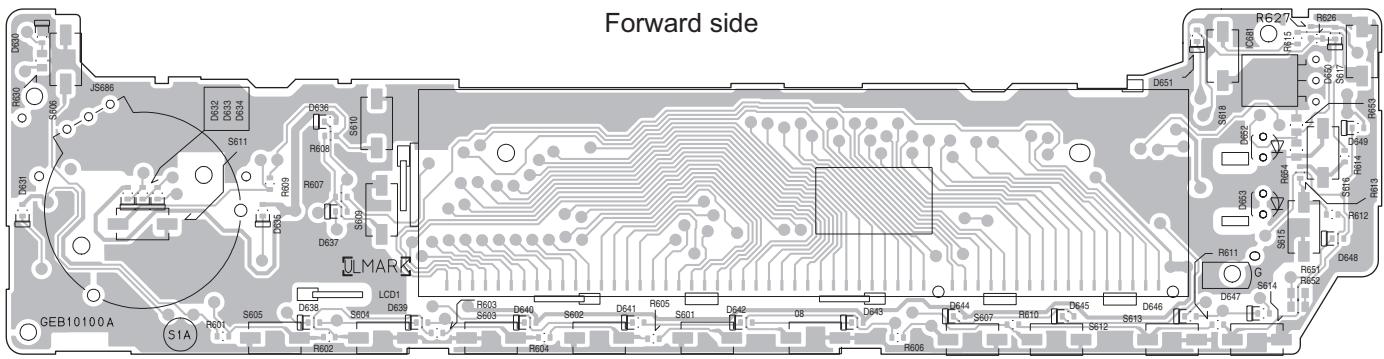
■ Main board

Reverse side

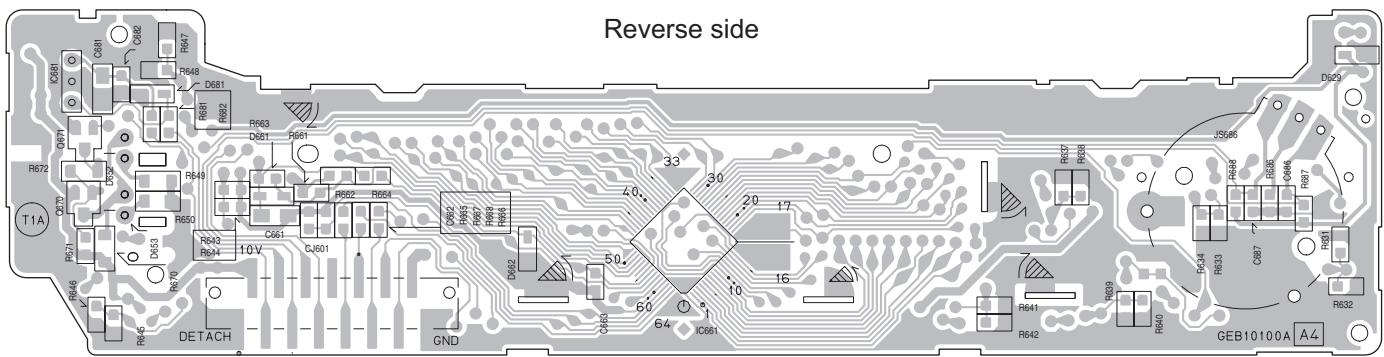


■ Front board

Forward side



Reverse side



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