

JVC

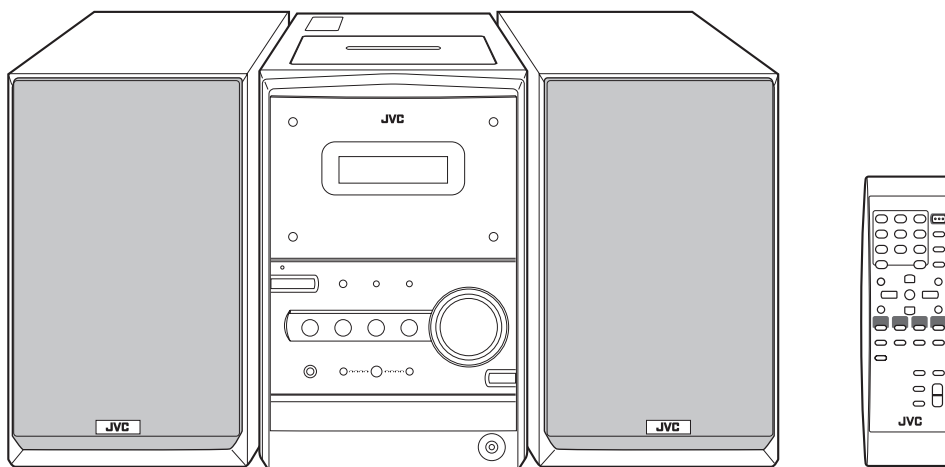
SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-P400

Area suffix

US ----- Singapore
UF ----- China
UP ----- Korea
UT ----- Taiwan
UW ----- Brazil, Mexico, Peru



SP-UXP400

CA-UXP400

SP-UXP400

COMPACT
disc
DIGITAL AUDIO

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SPECIFICATION

Amplifier section	Output Power	40 W (20 W + 20 W) at 4 Ω (10% THD)
	Speakers/Impedance	4 Ω - 16 Ω
	Audio Input AUX	400 mV/50 k Ω
Tuner section	FM tuning range	87.50 MHz - 108.00 MHz
	AM (MW) tuning range	531 kHz - 1 710 kHz (at 9 kHz intervals)
		530 kHz - 1 710 kHz (at 10 kHz intervals)
CD player section	Dynamic range	88 dB
	Signal-to-noise ratio	93 dB
	Wow and flutter	Immeasurable
Cassette deck section	Frequency response	Normal (type I):50 Hz - 14 000 Hz
	Wow and flutter	0.15% (WRMS)
Speakers	Speaker units	10 cm cone \times 1
	Impedance	4 Ω
	Dimensions (approx.)	145 mm \times 230 mm \times 191 mm (W/H/D)
	Mass (approx.)	1.8 kg each
General	Power requirement	AC 110 V/AC 127 V/AC 220 V/AC 230 V - AC 240 V (adjustable with the voltage selector), 50 Hz/60 Hz
	Power consumption	50 W (at operation)
		4.4 W (on standby)
	Dimensions (approx.)	170 mm \times 230 mm \times 311 mm (W/H/D)
Mass (approx.)	4.5 kg	

Design and specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

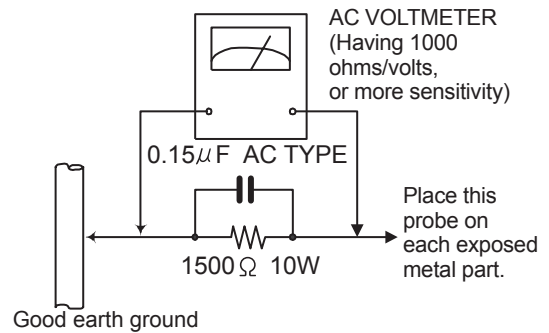
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 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 pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (■) and ICP (●) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.

(This regulation does not Except the J and C version)

1.5 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.

1.5.1 Grounding to prevent damage by static electricity

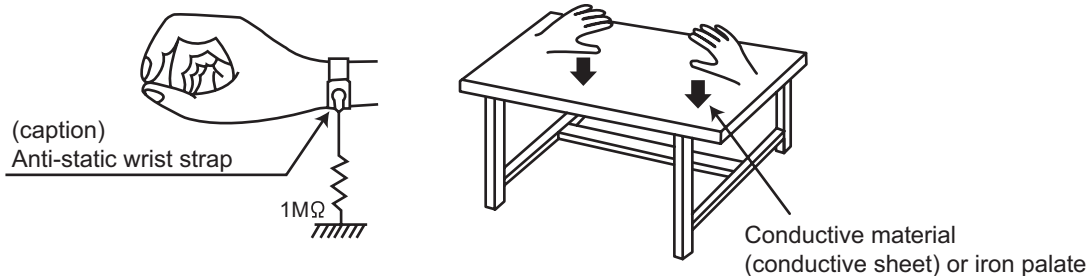
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

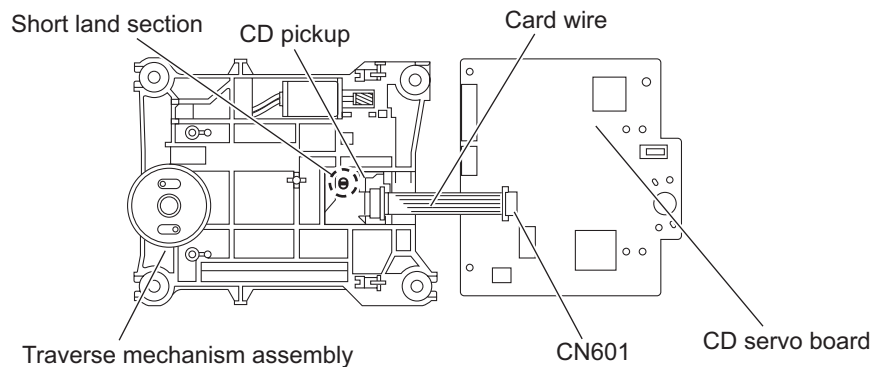
1.6 Handling the traverse unit (optical pickup)

- (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.

1.7 Attention when traverse unit is decomposed

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

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



1.8 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.

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

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

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

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 laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alltiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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CLASS 1
LASER PRODUCT

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

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 side panels L/R

(See Figs.1 to 4)

- (1) From the back side of the main body, remove the four screws **A** attaching the side panels L/R to the rear panel. (See Fig.1.)
- (2) From the bottom side of the main body, remove the two screws **B** attaching the side panels L/R to the bottom chassis. (See Fig.2.)
- (3) From the both sides of the main body, release the engagement sections (**a**, **b**) of the side panels L/R from the top cover assembly in the direction of the arrow. (See Figs.3 and 4.)
- (4) Remove the side panels L/R toward this side.

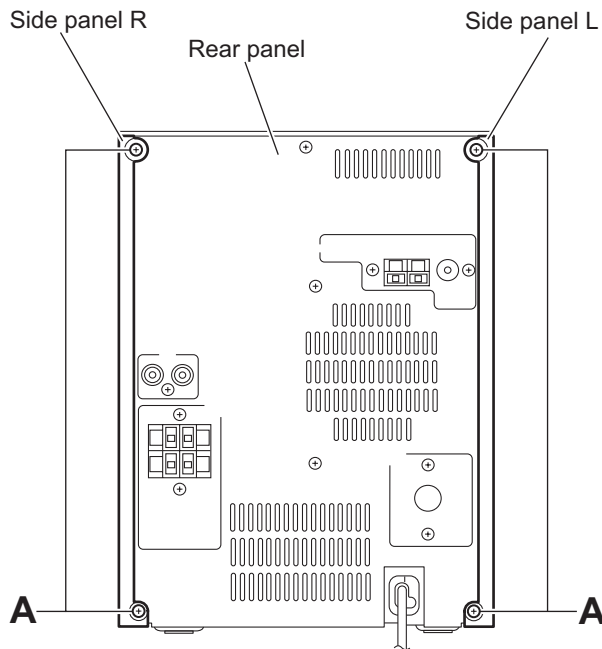


Fig.1

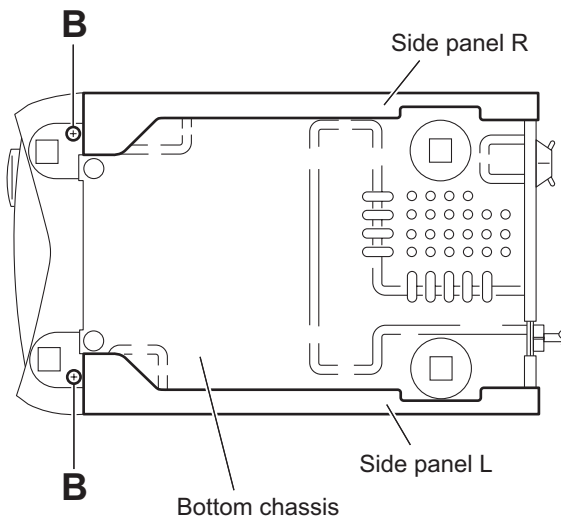


Fig.2

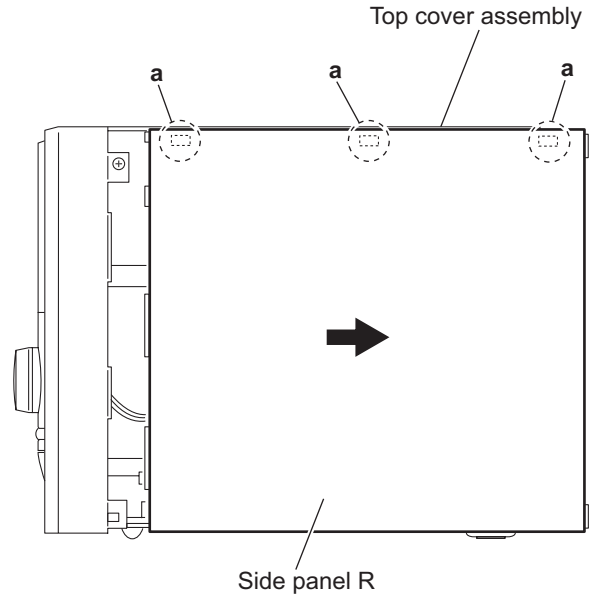


Fig.3

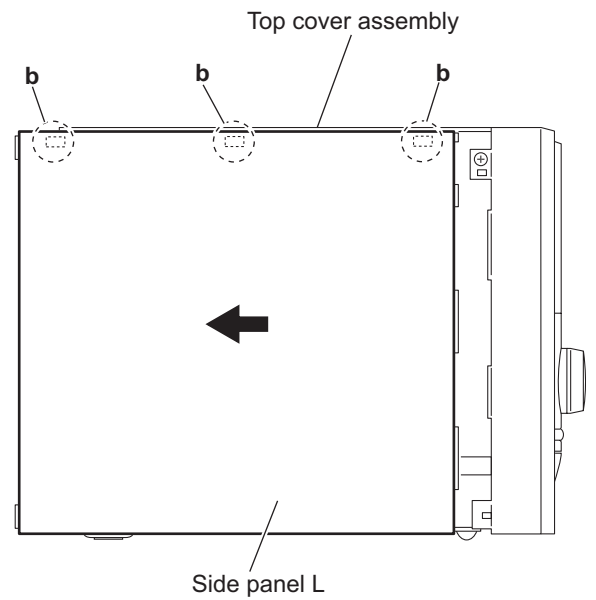
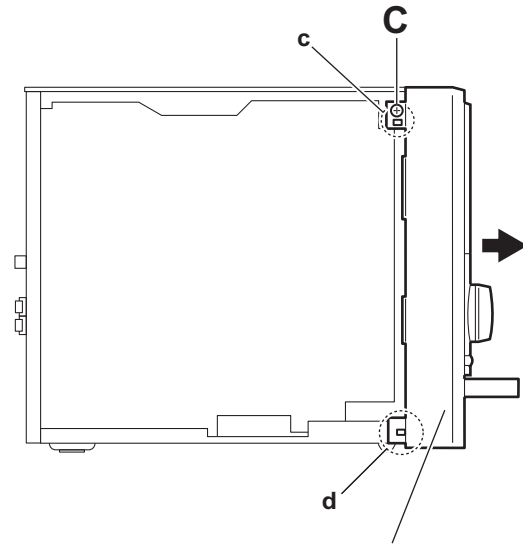


Fig.4

3.1.2 Removing the front panel assembly (See Figs.5 to 8)

- Prior to performing the following procedures, remove the side panels L/R.
 - (1) From the right side of the main body, push the slide cam and pull the tray out of the main body in the direction of the arrow 1. (See Fig.5.)
 - (2) Remove the tray fitting from the tray in the direction of the arrow 2. (See Fig.5.)
 - (3) From the both sides of the main body, remove the two screws **C** attaching the front panel assembly. (See Figs.6 and 7.)
 - (4) Release the two claws **c** and claws **d** to draw out the front panel assembly in the direction of the arrow. (See Figs.6 and 7.)
 - (5) From the right side of the main body, disconnect the card wire from the connector **CN730** on the main board. (See Fig.8.)
 - (6) Disconnect the wire from the connector **CN271** on the main board. (See Fig.8.)
 - (7) Remove the front panel assembly in the direction of the arrow. (See Fig.8.)



Front panel assembly
Fig.7

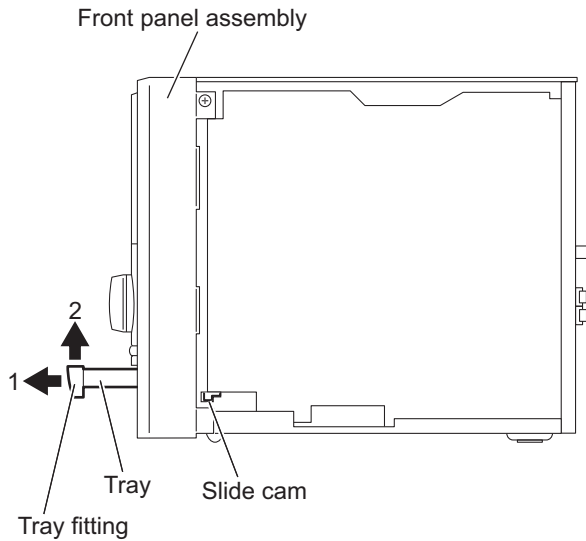


Fig.5

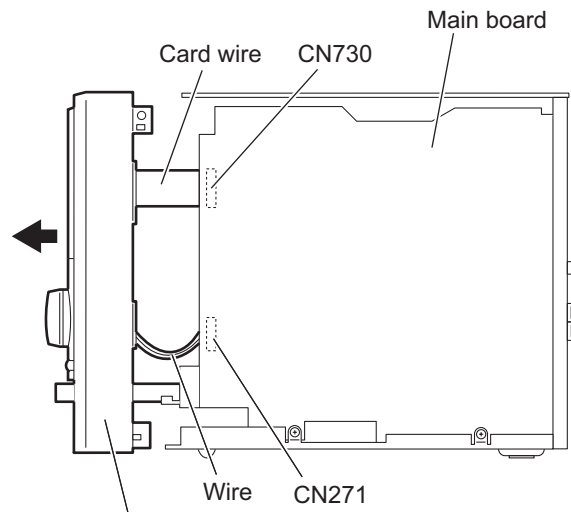
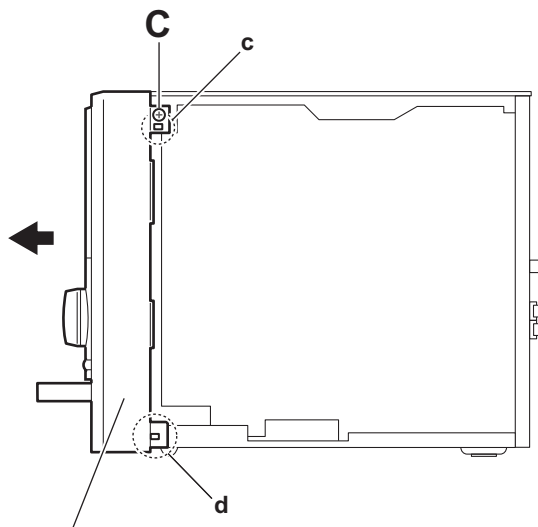


Fig.8



Front panel assembly

Fig.6

3.1.3 Removing the top cover assembly (See Figs.9 and 10)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the back side of the main body, remove the screw **D** attaching the top cover assembly to the rear panel. (See Fig.9.)
 - (2) From the right side of the main body, disconnect the card wires from the connectors (CN701, CN702) on the main board. (See Fig.10.)
 - (3) Take out the top cover assembly from the main body.

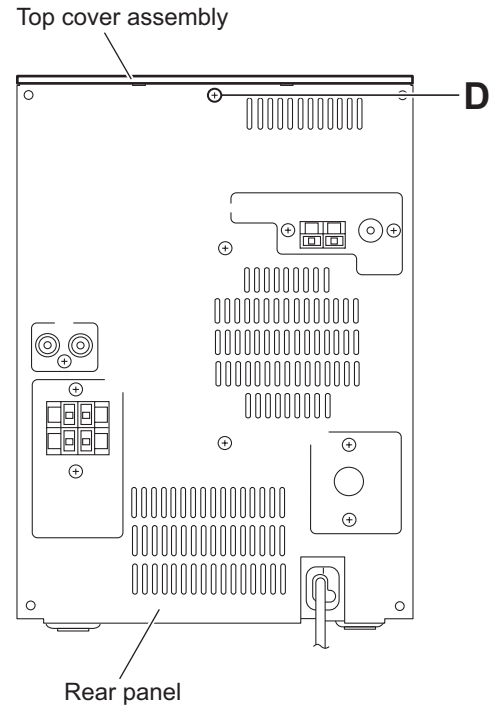


Fig.9

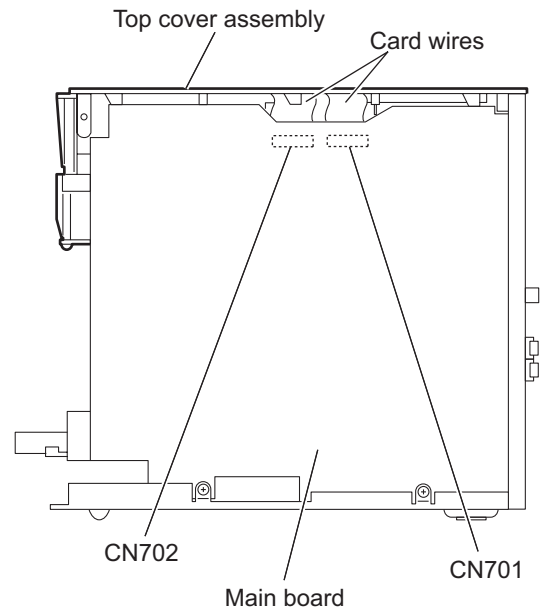


Fig.10

3.1.4 Removing the cassette mechanism assembly (See Fig.11)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly and top cover assembly.
 - (1) From the bottom side of the top cover assembly, disconnect the card wires from the connectors (CN33, CN34) on the head amp. & mechanism control board.
 - (2) Remove the four screws **E** attaching the cassette mechanism assembly and take out the cassette mechanism assembly from the top cover assembly.

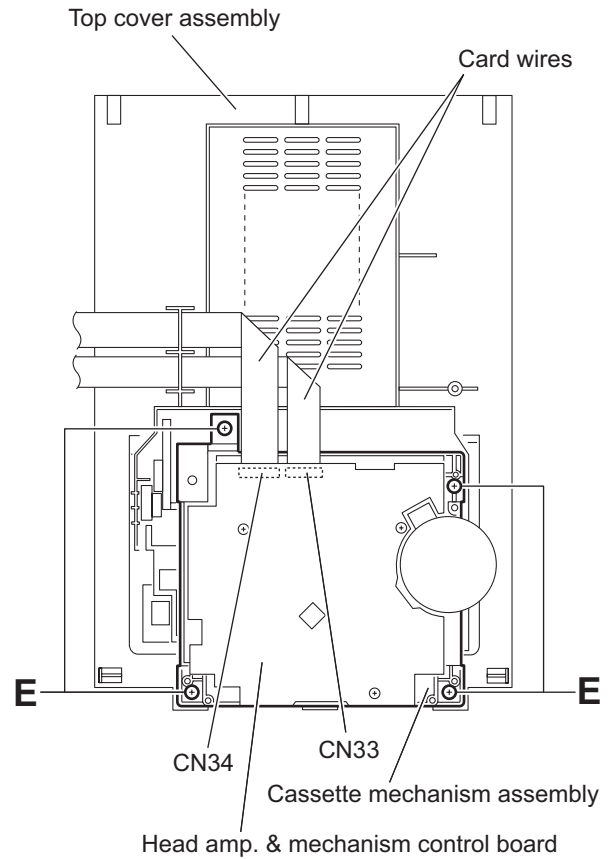


Fig.11

3.1.5 Removing the tuner (See Figs.12 and 13)

- Prior to performing the following procedures, remove the side panel L.
- (1) From the back side of the main body, remove the two screws **F** attaching the tuner to the rear panel. (See Fig.12.)
- (2) Disconnect the card wire from the connector **CN1** on the tuner. (See Fig.13.)

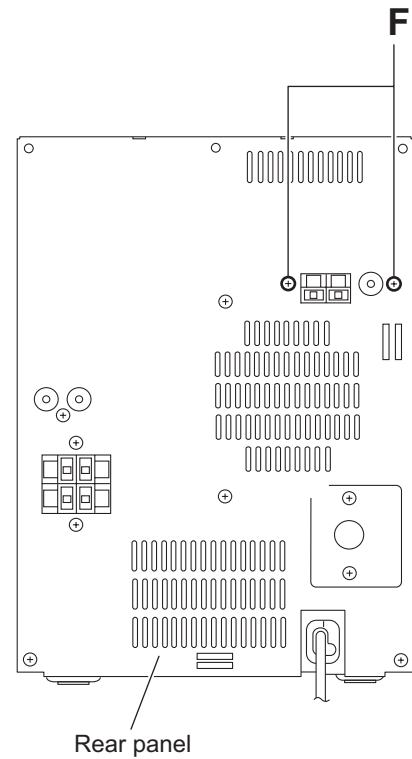


Fig.12

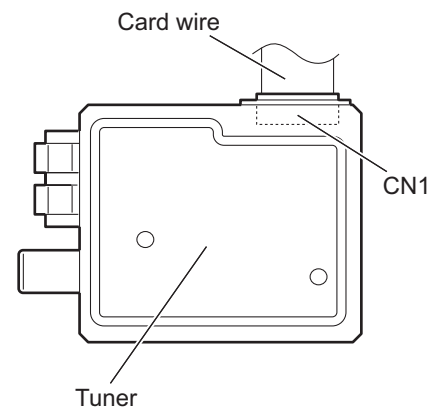


Fig.13

3.1.6 Removing the rear panel (See Fig.14)

- Prior to performing the following procedures, remove the side panels L/R.
 - (1) From the back side of the main body, remove the eight screws **G** attaching the rear panel.
 - (2) Release the engagement sections **e** and remove the rear panel.
 - (3) Disconnect the wire from the connector **CN711** on the main board.

Reference:

After connecting the wire to the connector **CN711**, fix the wire with the wire holder.

3.1.7 Removing the fan (See Figs.14 and 15)

- Prior to performing the following procedures, remove the side panels L/R and rear panel.
 - (1) From the outside of the rear panel, remove the two screws **H** attaching the fan bracket to the rear panel. (See Fig.14.)
 - (2) From the inside of the rear panel, move the fan bracket in the direction of the arrow to release the engagement sections (**f, g**). (See Fig.15.)
 - (3) Remove the fan bracket from the rear panel and remove the fan. (See Fig.15.)

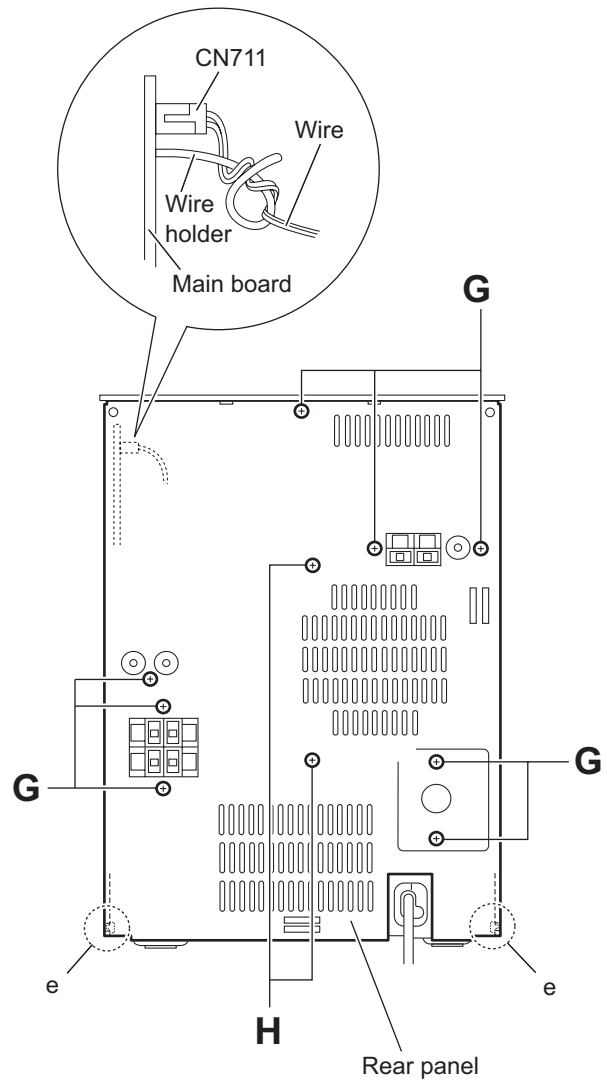


Fig.14

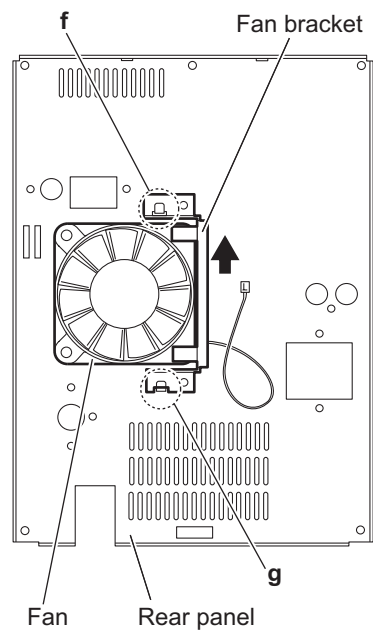


Fig.15

3.1.8 Removing the main board (See Fig.16)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner and rear panel.
 - (1) From the right side of the main body, remove the two screws **J** attaching the main board.
 - (2) Remove the main board toward this side and disconnect the connector [CN200](#) on the main board.
 - (3) From the forward side of the main board, disconnect the card wires from the connectors ([CN210](#), [CN221](#)).

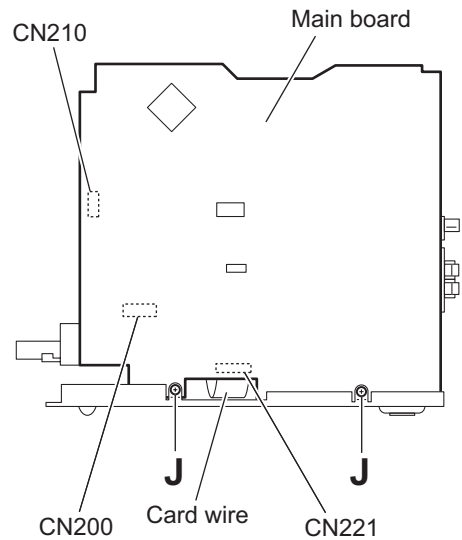


Fig.16

3.1.9 Removing the power supply board (See Fig.17)

- Prior to performing the following procedures, remove the side panel L and rear panel.
 - (1) From the left side of the main body, remove the screw **K** attaching the power supply board.
 - (2) Remove the power supply board toward this side and disconnect the connector [CN104](#) on the power supply board.
 - (3) From the forward side of the power supply board, disconnect the wires from the connectors ([CN101](#), [CN102](#), [CN103](#), [CN105](#)).

Reference:

When attaching the power supply board, insert the section **h** of the power supply board in the hole of the bottom chassis before attaching the screw **K**.

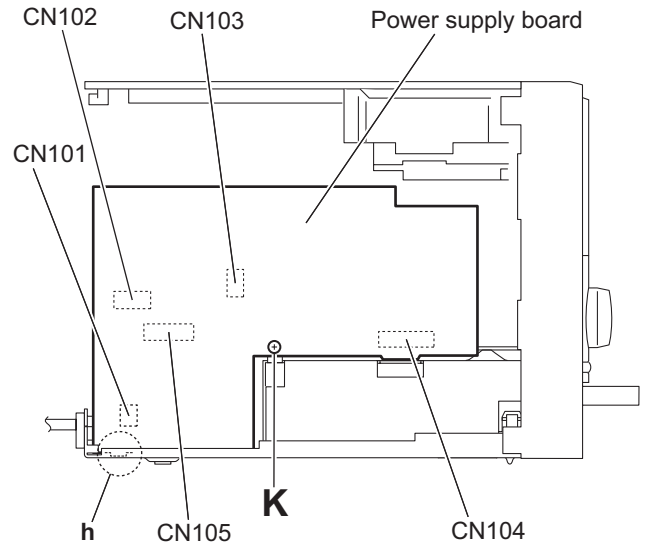


Fig.17

3.1.10 Removing the power amplifier board (See Fig.18)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board and power supply board.
 - (1) From the top side of the main body, remove the four screws **L** attaching the power amplifier board.
 - (2) Lift the power amplifier board and remove it from the engagement sections (**i, j**) of the shield case.

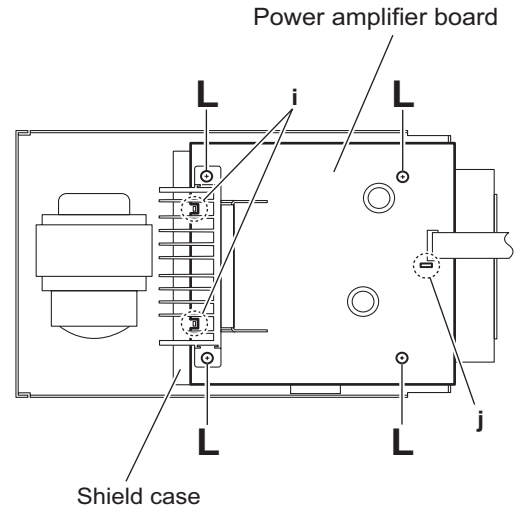


Fig.18

3.1.11 Removing the heat sink (See Fig.19.)

- Prior to performing the following procedure, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board, power supply board and power amplifier board.
 - (1) From the side of the power amplifier board, remove the two screws **M** attaching the heat sink.
 - (2) From the side of the power amplifier board, remove the two screws **N** attaching the heat sink.

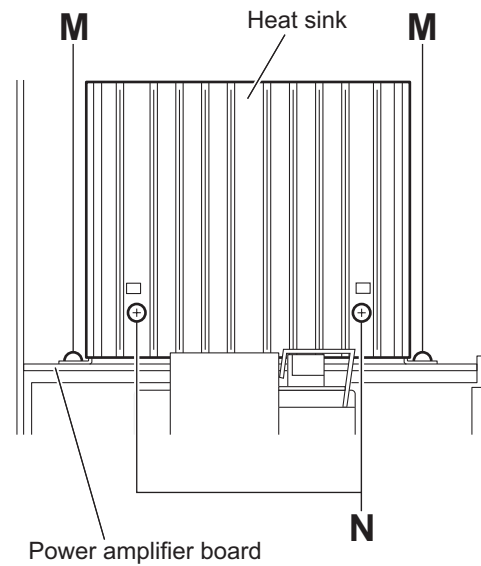


Fig.19

3.1.12 Removing the CD mechanism assembly (See Figs.20 and 21)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board and power supply board.

(1) From the top side of the main body, remove the four screws **P** attaching the shield case to the bottom chassis. (See Fig.20.)

Reference:

When attaching the shield case on the bottom chassis, align the projections (**k**, **m**, **n**) of the bottom chassis in the holes of the shield case. (See Fig.20.)

- (2) Take out the shield case with the power amplifier board from the bottom chassis.
- (3) Remove the three screws **Q** attaching the CD mechanism assembly to the bottom chassis. (See Fig.21.)

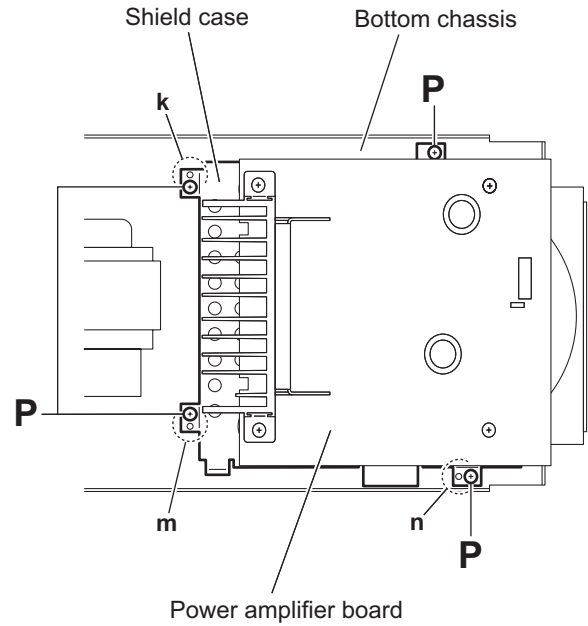


Fig.20

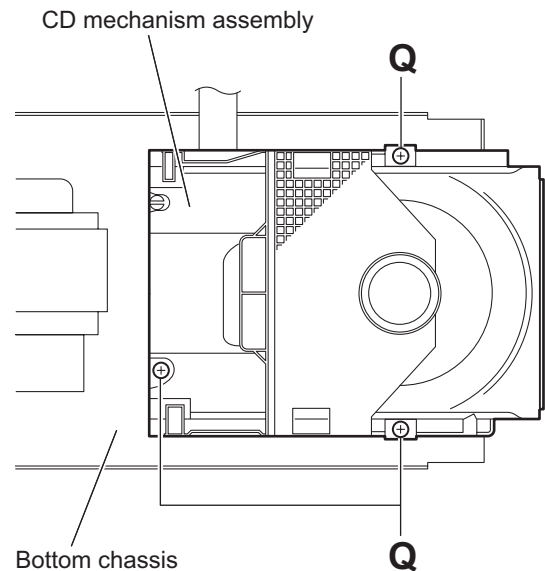


Fig.21

3.1.13 Removing the power transformer (See Figs.22 and 23)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly and rear panel.

(1) From the forward side of the power supply board, disconnect the wires from the connectors (CN102, CN103, CN105). (See Fig.22.)

Reference:

Remove the power supply board as required. (See Fig.17.)

(2) From the top side of the main body, remove the four screws **R** attaching the power transformer. (See Fig.23.)

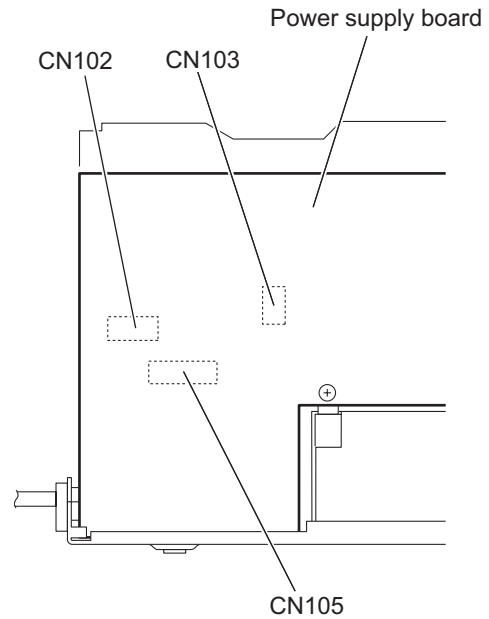


Fig.22

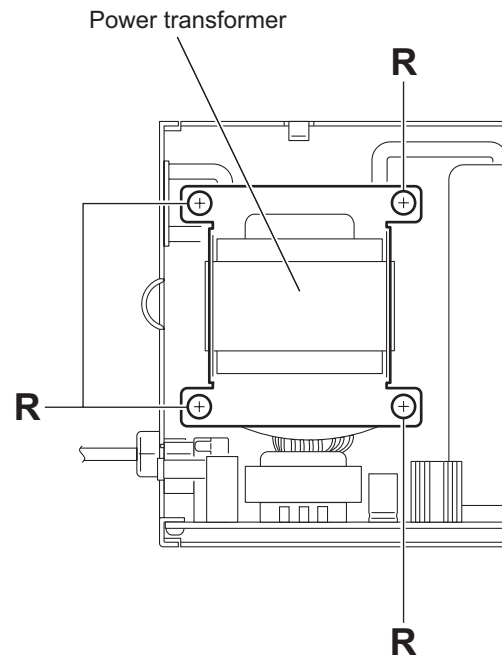


Fig.23

3.1.14 Removing the FL board (See Fig.24)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the inside of the front panel assembly, remove the four screws **S** attaching the FL board.
 - (2) Take out the FL board from the front panel assembly and disconnect the card wire from the connector [CN751](#) on the FL board.

Reference:

When attaching the FL board, align the projections **p** of the front panel assembly in the holes of the FL board.

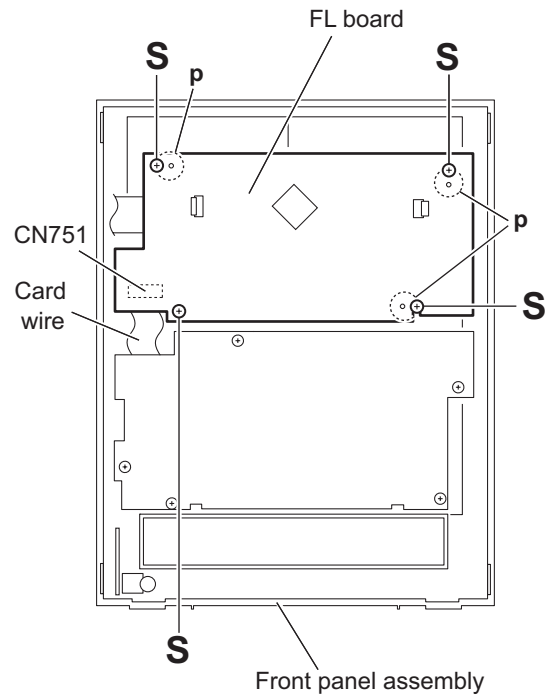


Fig.24

3.1.15 Removing the switch board (See Figs.25 and 26)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the front side of the front panel assembly, pull out the mic volume knob. (See Fig.25.)
 - (2) From the inside of the front panel assembly, remove the ten screws **T** attaching the switch board. (See Fig.26.)
 - (3) Take out the switch board from the front panel assembly and disconnect the card wire from the connector **CN760** on the switch board. (See Fig.26.)

Reference:

When attaching the switch board, align the projections **q** of the front panel assembly in the holes of the switch board. (See Fig.26.)

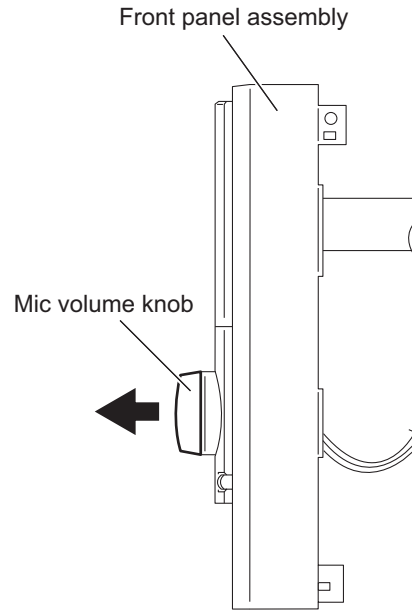


Fig.25

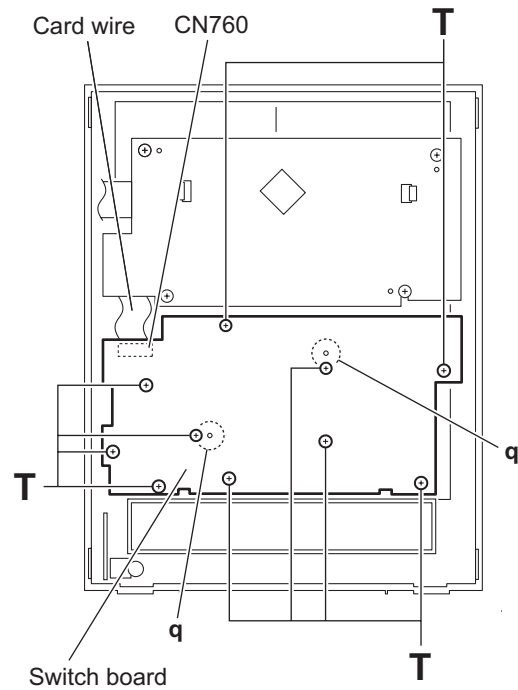


Fig.26

3.1.16 Removing the headphone jack board (See Fig.27)

- Prior to performing the following procedure, remove the side panels L/R and front panel assembly.
(1) From the inside of the front panel assembly, remove the screw **U** attaching the headphone jack board.

Reference:

After attaching the headphone jack board, fix the wire with the spacer.

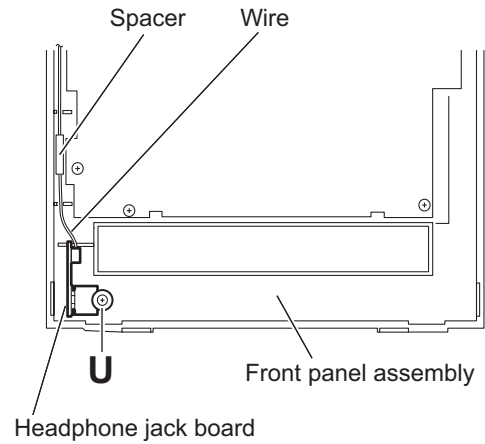


Fig.27

3.2 CD mechanism section

- Remove the CD mechanism assembly from the main body.
(See "3.1.12 Removing the CD mechanism assembly".)

3.2.1 Removing the tray assembly (See Figs.1 to 3)

- (1) From the right side of the CD mechanism assembly, push the slide cam and pull the tray assembly out of the CD mechanism assembly in the direction of the arrow. (See Fig.1)
- (2) From the top side of the CD mechanism assembly, remove the two screws **A** attaching the leaf spring to the bushing and remove the leaf spring. (See Fig.2)
- (3) Remove the bushing of the tray assembly from the projection **a** on the CD mechanism assembly and move the tray assembly in the direction of the arrow. (See Fig.3)
- (4) Remove the claw **b** of the tray assembly from the CD mechanism assembly and take out the tray assembly. (See Fig.3)

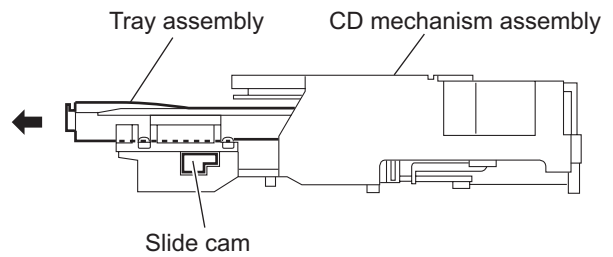


Fig.1

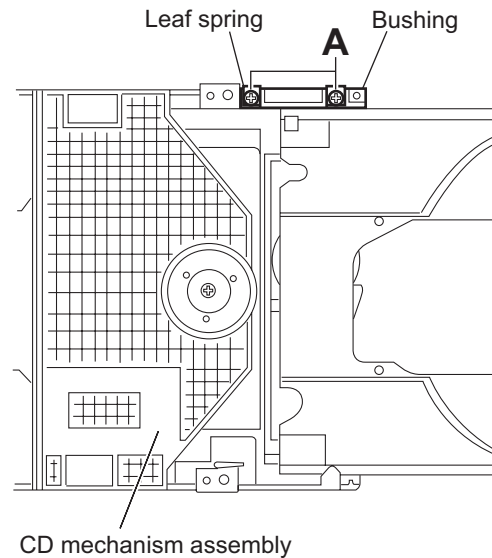


Fig.2

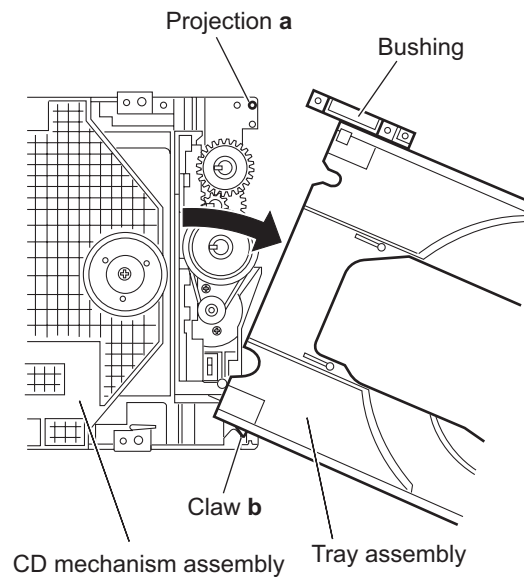


Fig.3

3.2.2 Removing the traverse mechanism assembly (See Figs.4)

- (1) From the bottom side of the CD mechanism assembly, remove the four screws **B** attaching the traverse mechanism

assembly.

(2) Disconnect the card wire from the connector [CN602](#) on the CD servo board and take out the CD traverse mechanism assembly with the CD servo board.

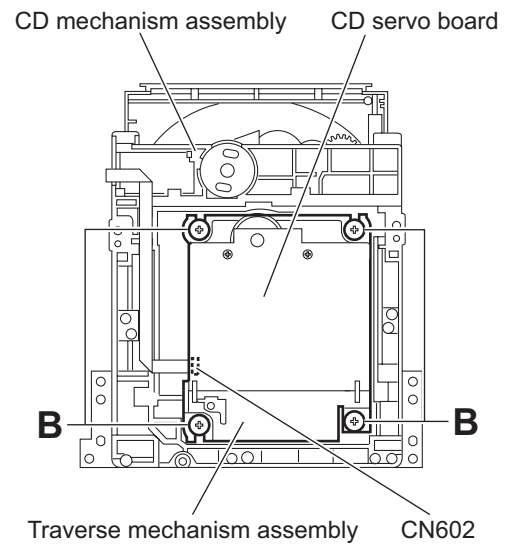


Fig.4

3.2.3 Removing the CD servo board (See Figs.5 and 6)

- Remove the traverse mechanism assembly.
 - (1) From the bottom side of the traverse mechanism assembly, remove the solders from the solder sections **c**. (See Fig.5)
 - (2) Remove the wire (yellow) from the solder sections **d**. (See Fig.5)
 - (3) Remove the wire (white) from the solder sections **e**. (See Fig.5)
 - (4) Remove the two screws **C** attaching the CD servo board. (See Fig.5)
 - (5) Remove the CD servo board from the claws **f** in the direction of the arrow and turn the CD servo board over. (See Fig.5)
 - (6) Solder the short land sections **g** on the CD pickup. (See Fig.6)
 - (7) Release the lock of the connector [CN601](#) on the CD servo board in the direction of the arrow and disconnect the card wire. (See Fig.6)

Caution:

- Solder the short land sections **g** on the CD pickup before disconnecting the card wire from the connector [CN601](#) on the CD servo board. If the card wire is disconnected without attaching solder, the CD pickup may be destroyed by static electricity. (See Fig.6)
- When attaching the CD servo board, be sure to remove solders from the short land sections **g** after connecting the card wire to the connector [CN601](#) on the CD servo board. (See Fig.6)

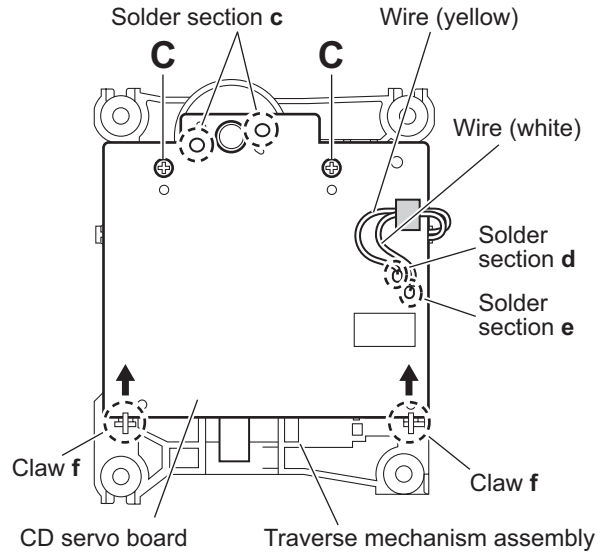


Fig.5

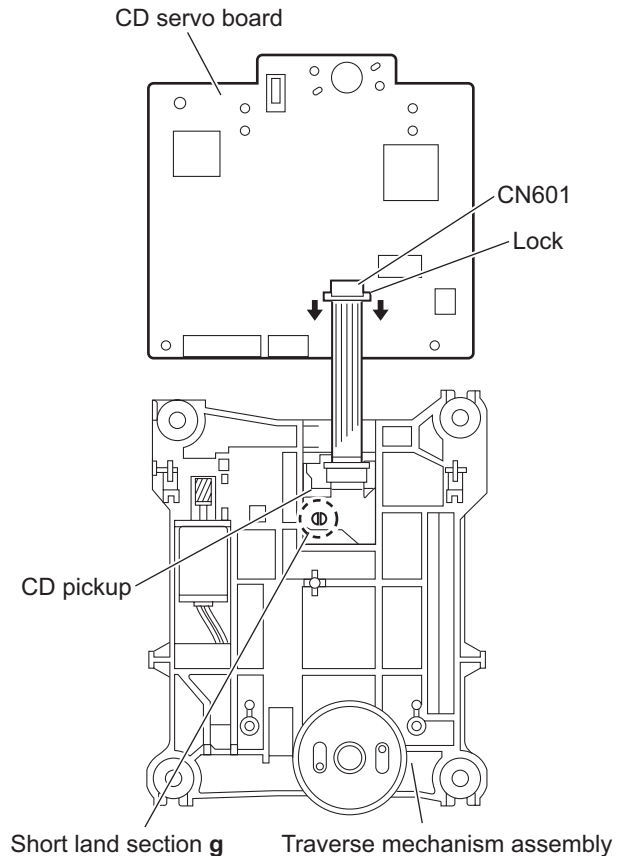


Fig.6

3.2.4 Removing the CD pickup (See Figs.7 to 9)

- Remove the traverse mechanism assembly.
 - (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the shaft holder. (See Fig.7)
 - (2) Release the joint **h** and take out the shaft holder. (See Fig.7)
 - (3) Remove the two screws **E** attaching the rack arm and take out the rack arm. (See Fig.8)
 - (4) Remove the feed middle gear and remove the screw shaft of the CD pickup from the section **i** on the traverse mechanism assembly. (See Fig.8)
 - (5) Remove the CD pickup from the section **j** of the traverse mechanism assembly and take out the CD pickup with the screw shaft. (See fig.8)
 - (6) Pull the screw shaft out of the CD pickup. (See Fig.8)
 - (7) From the bottom side of the CD pickup, solder the short land sections **k** on the CD pickup. (See Fig.9)
 - (8) Release the lock of the connector on the CD pickup in the direction of the arrow and disconnect the card wire. (See Fig.9)

Caution:

- Solder the short land sections **k** on the CD pickup before disconnecting the card wire from the connector on the CD pickup. If the card wire is disconnected without attaching solder, the CD pickup may be destroyed by static electricity. (See Fig.9)
- When attaching the CD pickup, be sure to remove solders from the short land sections **k** after connecting the card wire to the connector on the CD pickup. (See Fig.9)

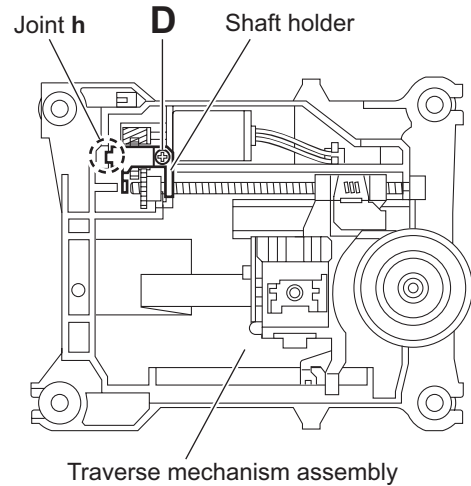


Fig.7

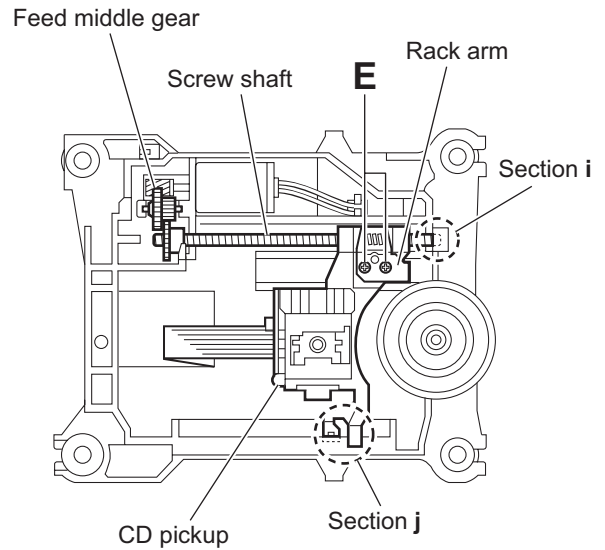


Fig.8

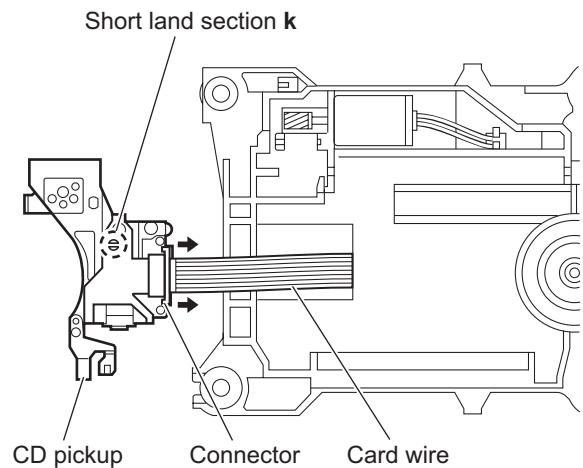


Fig.9

3.2.5 Attaching the CD pickup (See Figs.7 to 10)

- See "3.2.4 Removing the CD pickup".
 - (1) Remove solders from the short land sections **k** after connecting the card wire to the connector on the CD pickup. (See Fig.9)
 - (2) Attach the shaft. (See Fig.8)
 - (3) Align the CD pickup to the section **j** of the traverse mechanism assembly first, and set the screw shaft of the CD pickup in the sections **i** of the traverse mechanism assembly. (See Fig.8.)
 - (4) Attach the rack arm and feed middle gear. (See Fig.8)
 - (5) Attach the shaft holder. (See Fig.7)
 - (6) Turn the SS gear in the direction of the arrow 1 to move the CD pickup in the direction of the arrow 2. (See Fig.10)

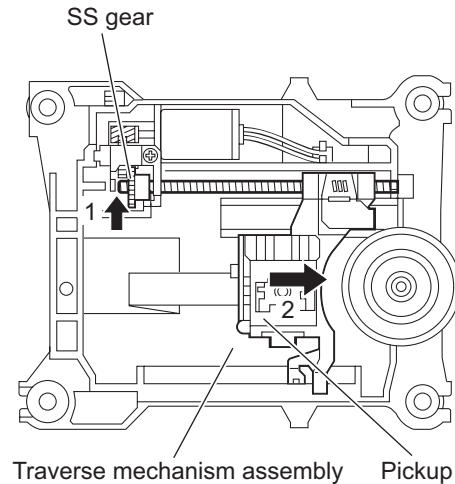


Fig.10

3.2.6 Removing the feed motor (See Figs.5, 7 and 11)

- Remove the traverse mechanism assembly.
 - (1) From the top side of the traverse mechanism assembly, remove the wire (yellow) from the solder sections **d** on the CD servo board. (See Fig.5)
 - (2) Remove the wire (white) from the solder sections **e** on the CD servo board. (See Fig.5)
 - (3) Remove the screw **D** attaching the shaft holder and take out the shaft holder. (See Fig.7)
 - (4) Remove the feed middle gear and remove the screw **E** attaching the feed motor. (See Fig.11)
 - (5) Take out the feed motor from the traverse mechanism assembly.

Reference:

When attaching the feed motor, pass the wires through the section **m** on the traverse mechanism assembly. (See Fig.11)

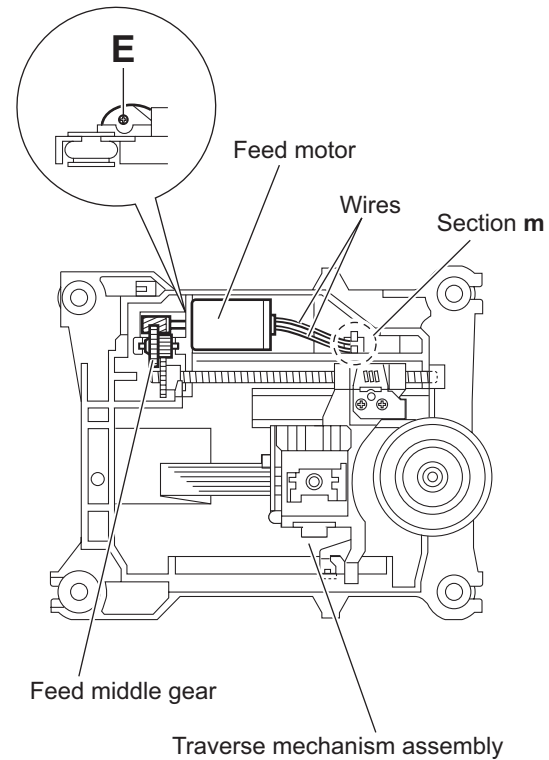


Fig.11

3.2.7 Removing the CD loading switch board (See Fig.12)

- (1) From the bottom side of the CD mechanism assembly, disconnect the card wire from the connector **CN1** on the CD loading switch board.
- (2) Remove the wires from the solder section **n** on the CD loading switch board.
- (3) Lift the CD loading switch board while pressing the claw **p** of the CD mechanism assembly in the direction of the arrow and remove it from the section **q**.

Reference:

- Put the wires on the section **r** after attaching the CD loading switch board to the CD mechanism assembly.
- Fix the claw **p** on the CD mechanism assembly with bonds after attaching the CD loading switch board.

3.2.8 Removing the motor (See Figs.12 and 13)

- Remove the tray assembly.
 - (1) From the bottom side of the CD mechanism assembly, remove the wires from the solder section **n** on the CD loading switch board. (See Fig.12)
 - (2) From the top side of the CD mechanism assembly, remove the belt from the motor pulley. (See Fig.13)

Note:

Take care not to attach grease on the belt.

- (3) Remove the two screws **F** attaching the motor to the CD mechanism assembly and take out the motor from the bottom side of the CD mechanism assembly. (See Fig.13)

Reference:

Put the wires on the section **r** after attaching the motor to the CD mechanism assembly. (See Fig.12)

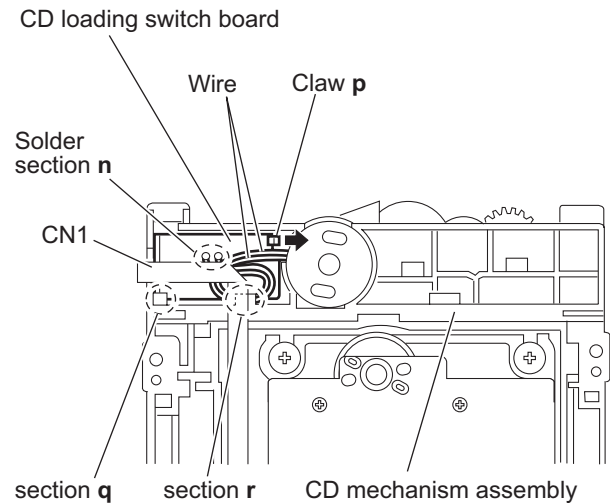


Fig.12

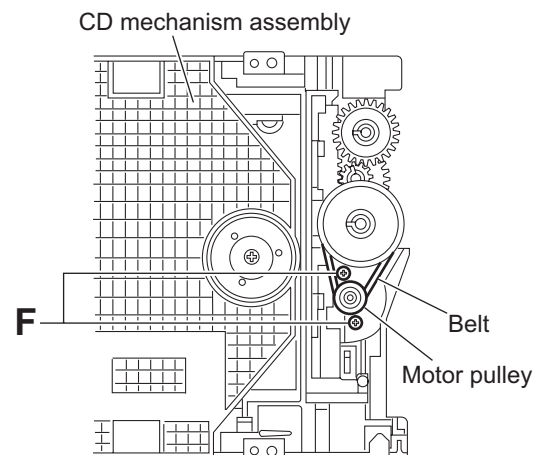


Fig.13

3.3 Cassette mechanism assembly

3.3.1 Removing the Play/Record & Clear head (See Fig.1~3)

- (1) While moving the trigger arm on the right side of the head mount in the direction of the arrow, turn the flywheel R counterclockwise until the head mount comes ahead and clicks.
- (2) The head turns counterclockwise as you turn the flywheel R counterclockwise (See Fig.2 and 3).
- (3) Disconnect the flexible wire from connector [CN31](#) on the head amplifier & mechanism control board.
- (4) Remove the spring from the back of the head.
- (5) Loosen the azimuth screw for reversing attaching the head.
- (6) Remove the head on the front side of the head mount.

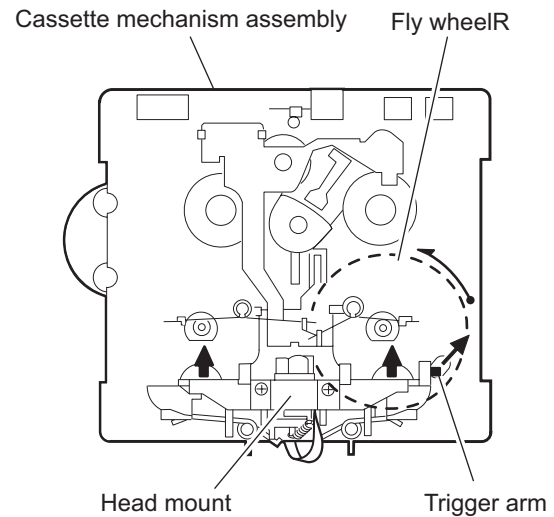


Fig.1

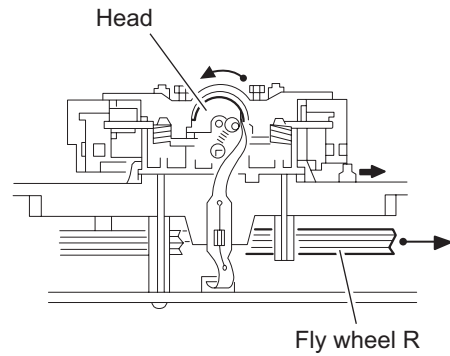


Fig.2

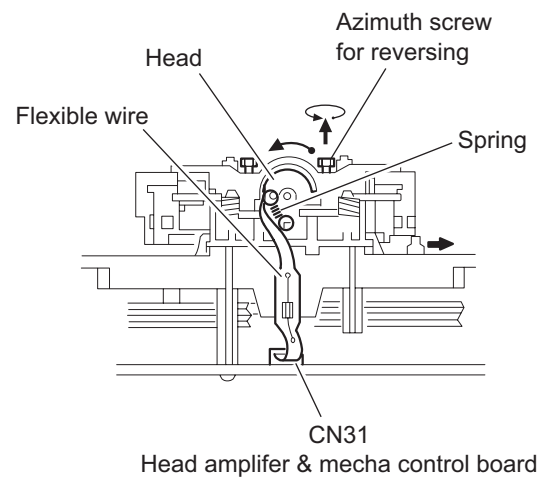


Fig.3

3.3.2 Removing the head amplifier & mechanism control board (See Fig.4)

- (1) Turn over the cassette mechanism assembly and remove the three screws **A** attaching the head amplifier & mechanism control board.
- (2) Disconnect the flexible wire from connector **CN31** on the head amplifier & mechanism control board.
- (3) Disconnect connector **CN32** of the head amplifier & mechanism control board from connector **CN1** on the reel pulse board. REFERENCE: If necessary, unsolder the 4-pin wire soldered to the main motor.

3.3.3 Removing the main motor (See Fig.4~7)

- (1) Remove the two screws **B**.
- (2) Half raise the motor and remove the capstan belt from the motor pulley.

ATTENTION:

Be careful to keep the capstan belt from grease. When reassembling, refer to Fig.6 and 7 for attaching the capstan belt.

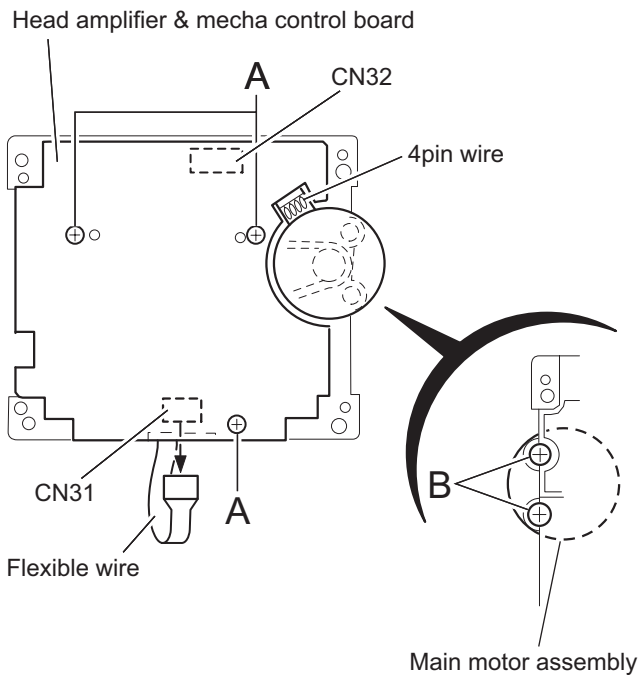


Fig.4

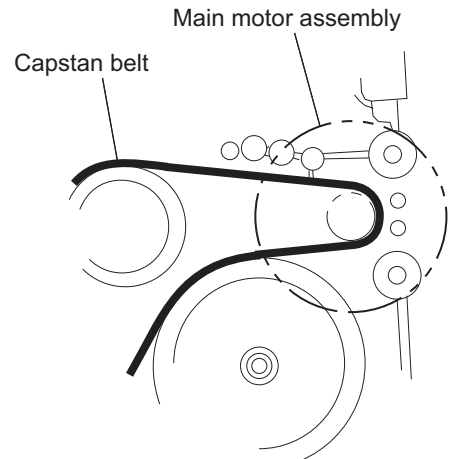


Fig.5

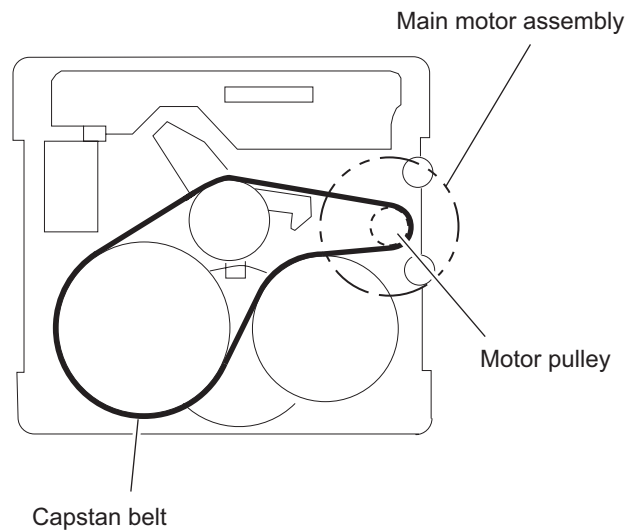


Fig.6

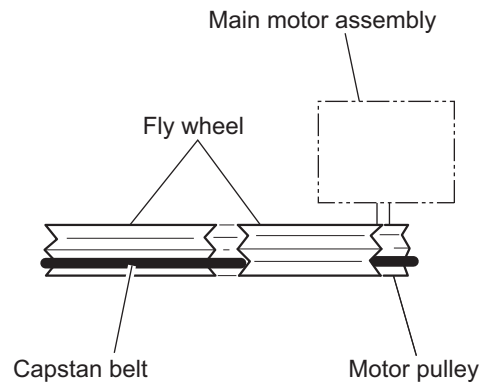


Fig.7

3.3.4 Removing the flywheel (See Fig.8, 9)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board and the main motor assembly.
 - (1) From the front side of the cassette mechanism, remove the slit washers attaching the capstan shaft **L** and **R**. Pull out the flywheels backward.

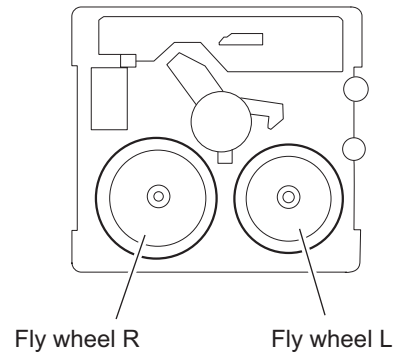


Fig.8

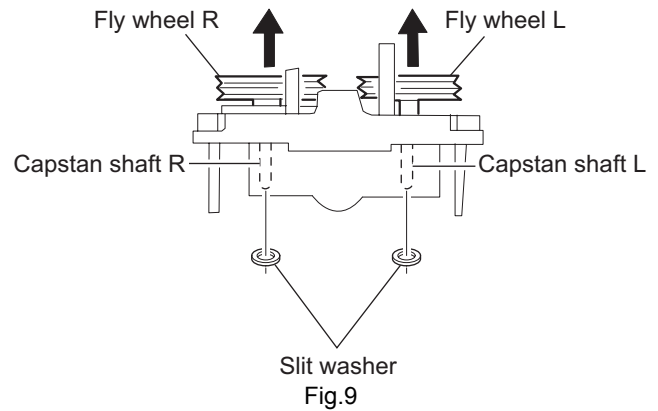


Fig.9

3.3.5 Removing the reel pulse board and solenoid (See Fig.10)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board.
 - (1) Remove the screw **C**.
 - (2) Release the tab **a**, **b**, **c**, **d** and **e** retaining the reel pulse board.
 - (3) Release the tab **f** and **g** attaching the solenoid on the reel pulse board.
 - (4) The reel pulse board and the solenoid come off.

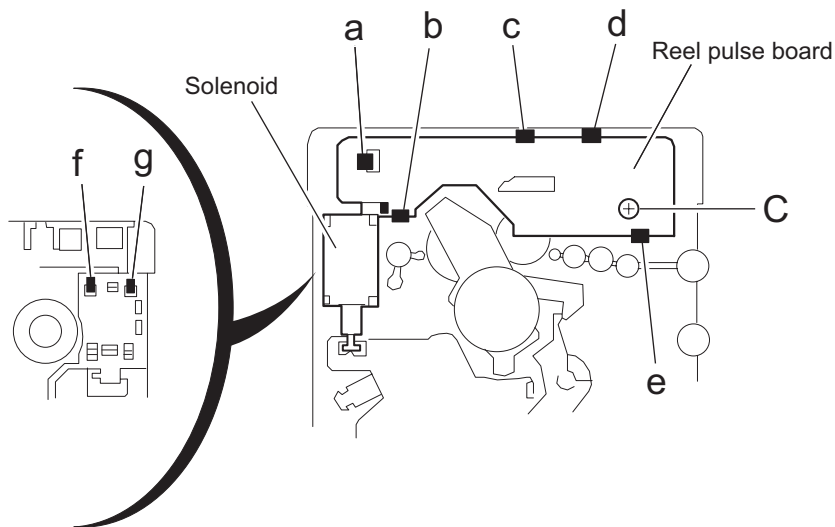


Fig.10

3.3.6 Reattaching the Play/ Record & Clear head (See Fig.11~13)

- (1) Reattaching the head mount assembly.
 - a) Change front of the direction cover of the head mount assembly to the left (Turn the head forward).
 - b) Fit the bosses **O'**, **P'**, **Q'**, **U'** and **V'** on the head mount assembly to the holes **P** and **V**, the slots **O**, **U** and **Q** of the mechanism sub assembly (See Fig.11 to 13).

CAUTION:

To remove the head mount assembly, turn the direction cover to the left to disengage the gear. If the gear can not be disengaged easily, push up the boss **Q'** slightly and raise the rear side of the head mounts slightly to return the direction lever to the reversing side.

- (2) Tighten the azimuth screw for reversing.
- (3) Reattach the spring from the back of the Play/ Record & Clear head.
- (4) Connect the flexible wire to connector **CN31** on the head amplifier & mechanism control board.

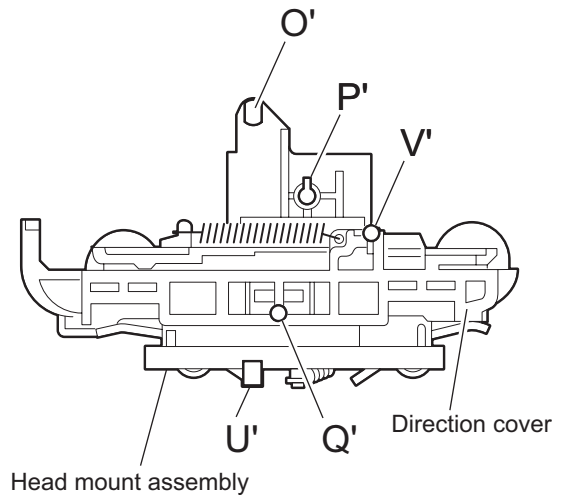


Fig.11

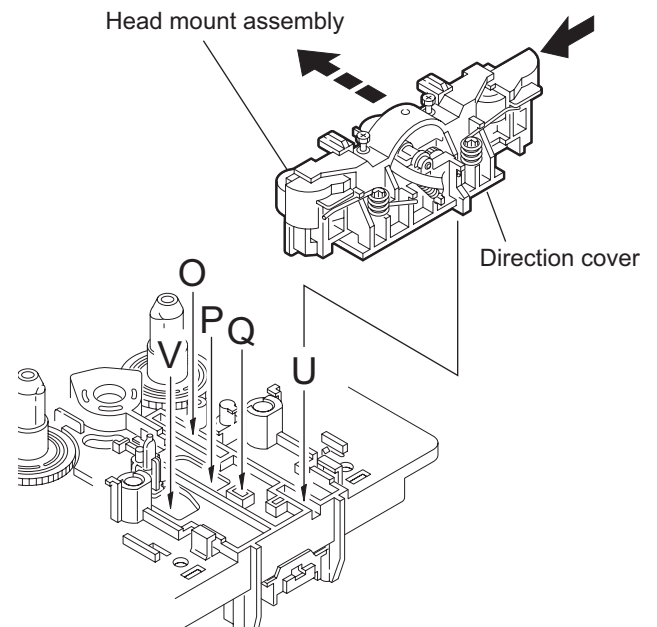


Fig.12

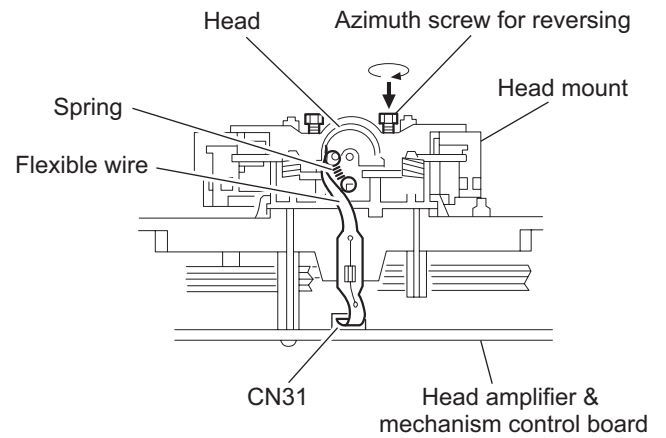


Fig.13

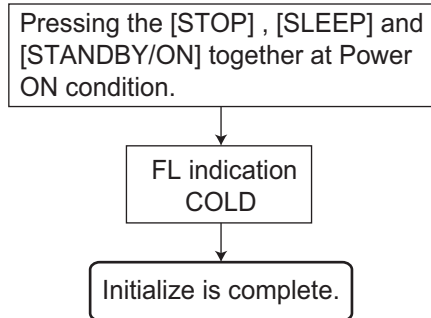
SECTION 4 ADJUSTMENT

4.1 Jigs and test instruments

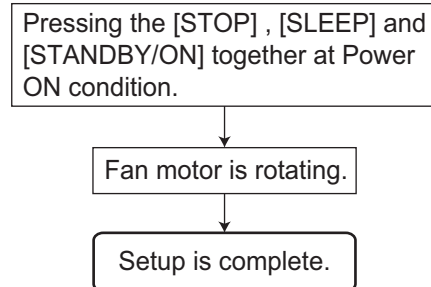
- Remote controller

4.2 Adjustment and check method

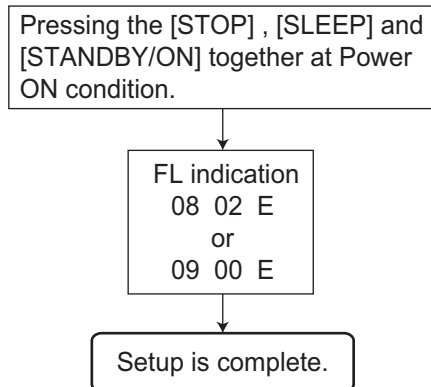
4.2.1 Initialize all data to the factory setting



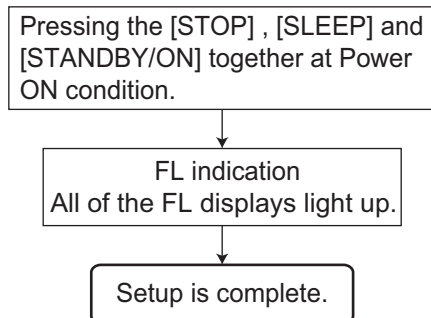
4.2.4 Fan motor ON/OFF check



4.2.2 Confirmation of the system micro computer

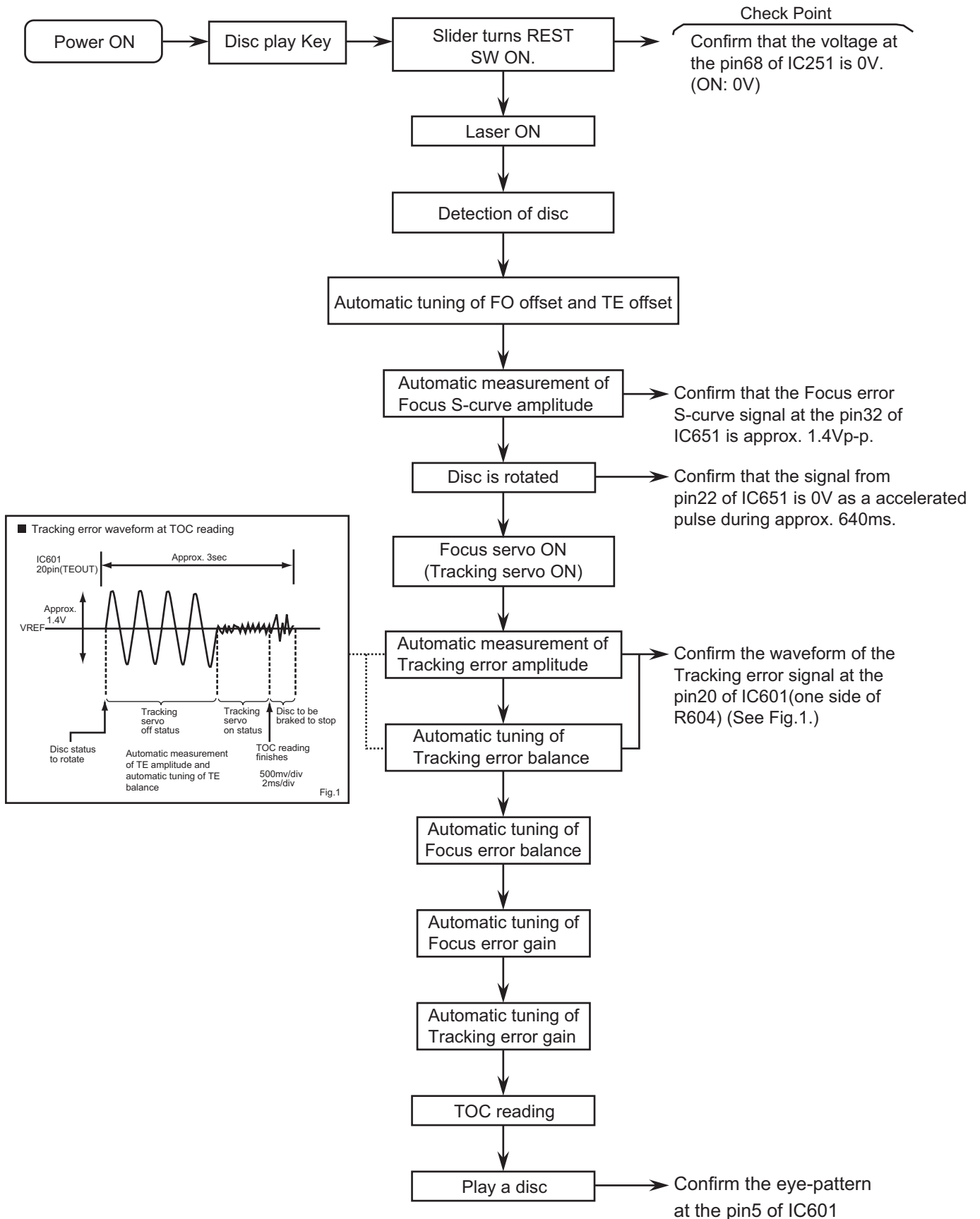


4.2.3 FL all lighting-up check



SECTION 5 TROUBLE SHOOTING

5.1 Flow of functional operation until TOC read (CD)



5.2 Maintenance of laser pickup (CD)

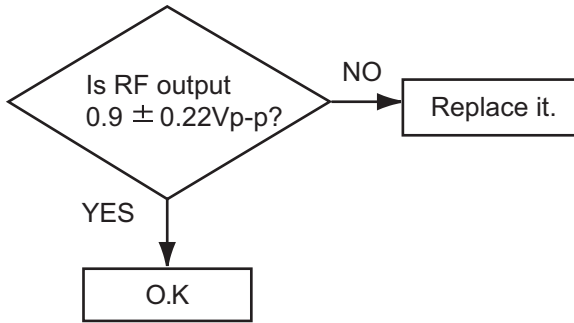
(1) Cleaning the pick up lens

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 below.



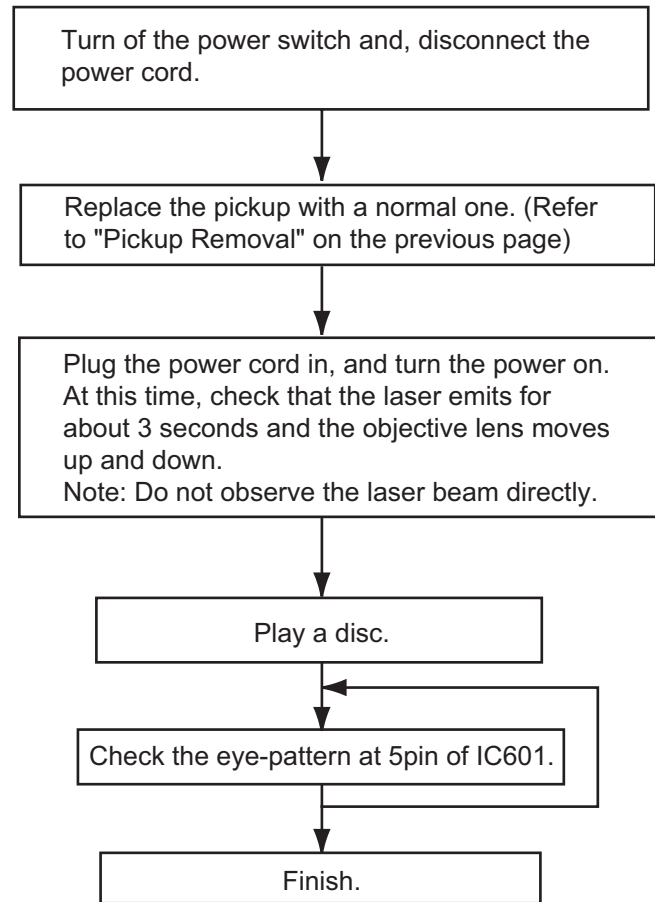
(3) Semi-fixed resistor on the APC PC board

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.

5.3 Replacement of laser pickup (CD)





JVC

Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB262)

JVC

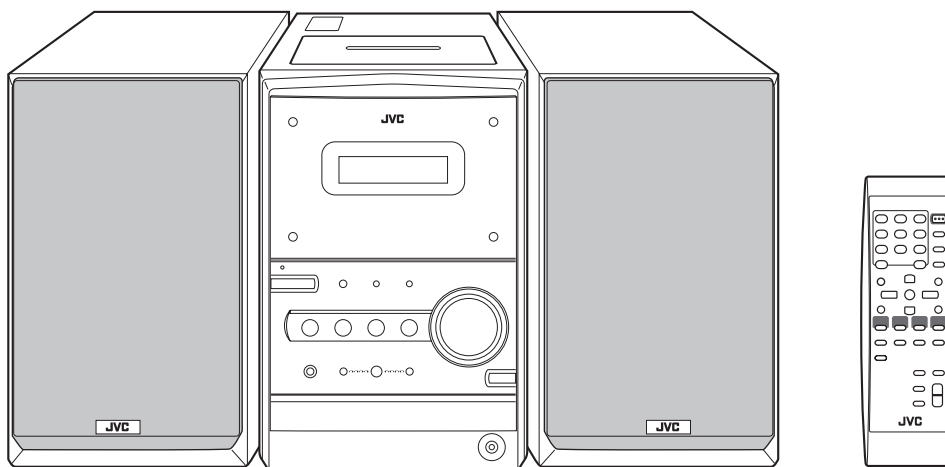
SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-P400

Area suffix

US ----- Singapore
UF ----- China
UP ----- Korea
UT ----- Taiwan
UW ----- Brazil, Mexico, Peru



SP-UXP400

CA-UXP400

SP-UXP400

COMPACT
disc
DIGITAL AUDIO

TABLE OF CONTENTS

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SPECIFICATION

Amplifier section	Output Power	40 W (20 W + 20 W) at 4 Ω (10% THD)
	Speakers/Impedance	4 Ω - 16 Ω
	Audio Input AUX	400 mV/50 k Ω
Tuner section	FM tuning range	87.50 MHz - 108.00 MHz
	AM (MW) tuning range	531 kHz - 1 710 kHz (at 9 kHz intervals)
		530 kHz - 1 710 kHz (at 10 kHz intervals)
CD player section	Dynamic range	88 dB
	Signal-to-noise ratio	93 dB
	Wow and flutter	Immeasurable
Cassette deck section	Frequency response	Normal (type I):50 Hz - 14 000 Hz
	Wow and flutter	0.15% (WRMS)
Speakers	Speaker units	10 cm cone \times 1
	Impedance	4 Ω
	Dimensions (approx.)	145 mm \times 230 mm \times 191 mm (W/H/D)
	Mass (approx.)	1.8 kg each
General	Power requirement	AC 110 V/AC 127 V/AC 220 V/AC 230 V - AC 240 V (adjustable with the voltage selector), 50 Hz/60 Hz
	Power consumption	50 W (at operation)
		4.4 W (on standby)
	Dimensions (approx.)	170 mm \times 230 mm \times 311 mm (W/H/D)
Mass (approx.)	4.5 kg	

Design and specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

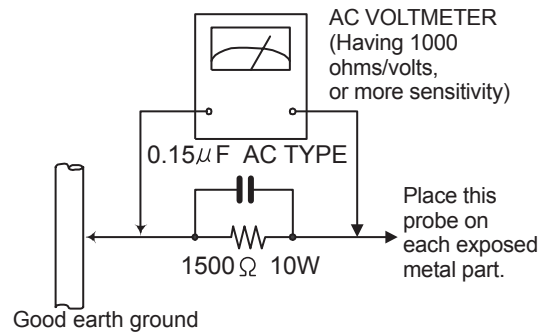
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 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 pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (■) and ICP (●) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (This regulation does not Except the J and C version)

1.5 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.

1.5.1 Grounding to prevent damage by static electricity

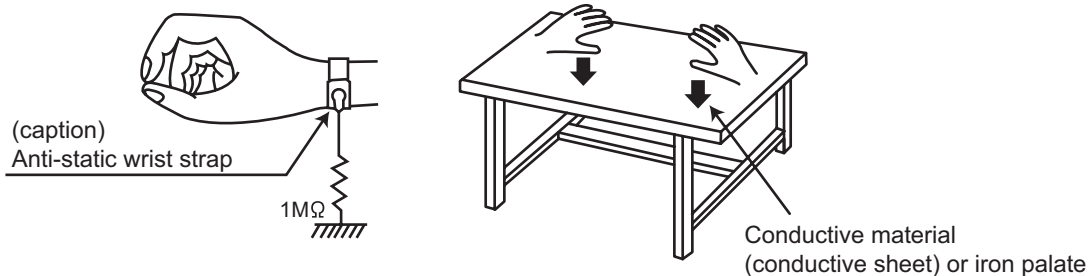
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

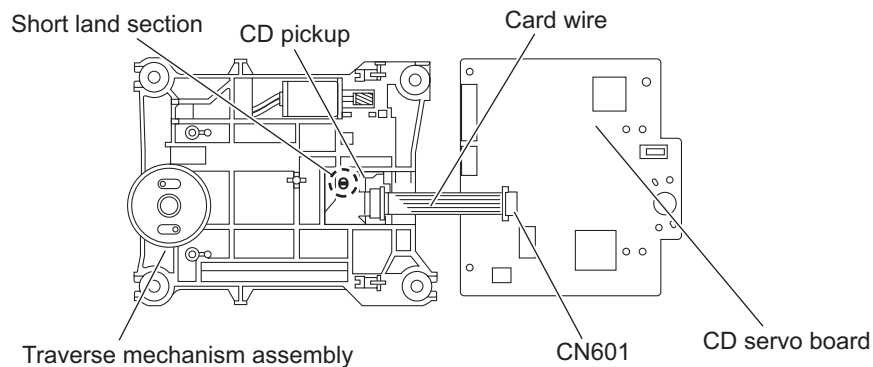
1.6 Handling the traverse unit (optical pickup)

- (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.

1.7 Attention when traverse unit is decomposed

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

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



1.8 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.

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

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

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

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 laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alltiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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CLASS 1
LASER PRODUCT

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

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 side panels L/R

(See Figs.1 to 4)

- (1) From the back side of the main body, remove the four screws **A** attaching the side panels L/R to the rear panel. (See Fig.1.)
- (2) From the bottom side of the main body, remove the two screws **B** attaching the side panels L/R to the bottom chassis. (See Fig.2.)
- (3) From the both sides of the main body, release the engagement sections (**a**, **b**) of the side panels L/R from the top cover assembly in the direction of the arrow. (See Figs.3 and 4.)
- (4) Remove the side panels L/R toward this side.

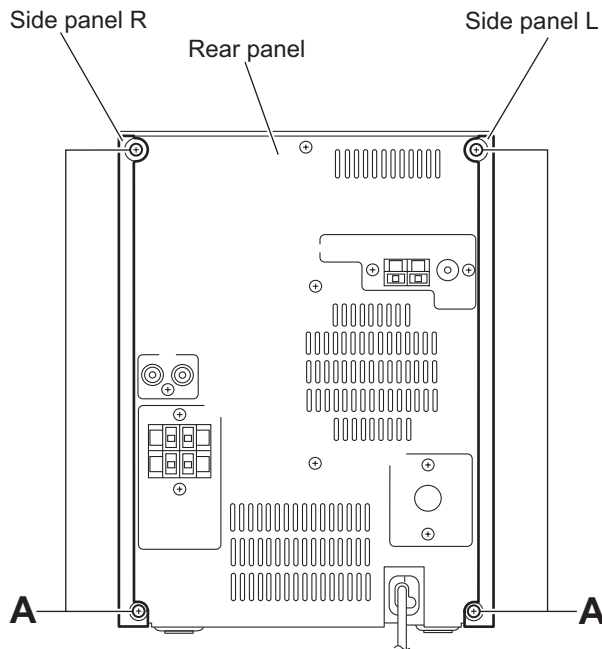


Fig.1

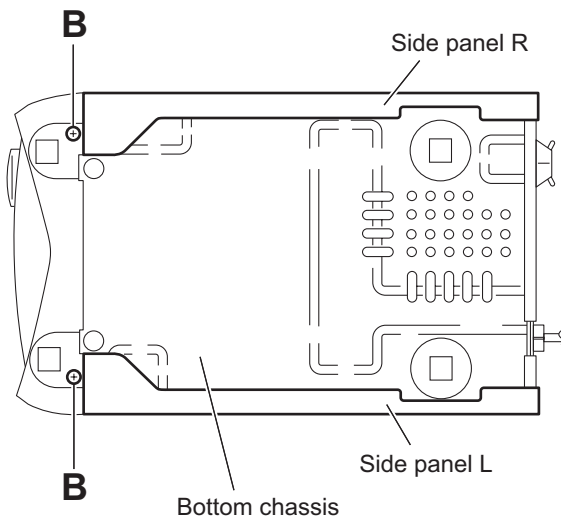


Fig.2

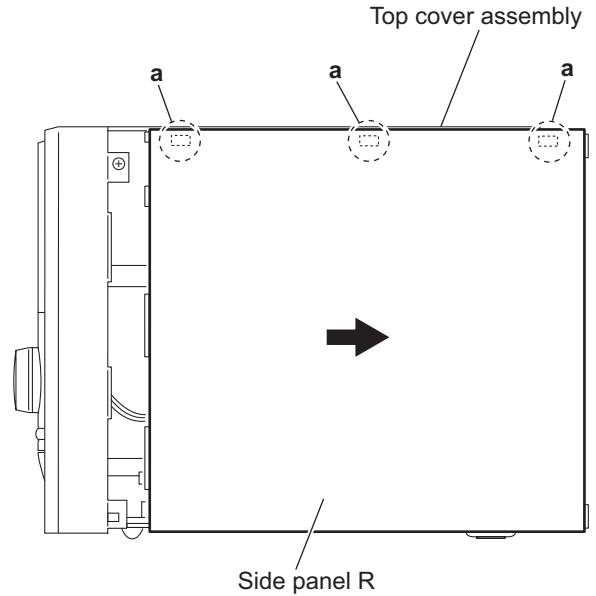


Fig.3

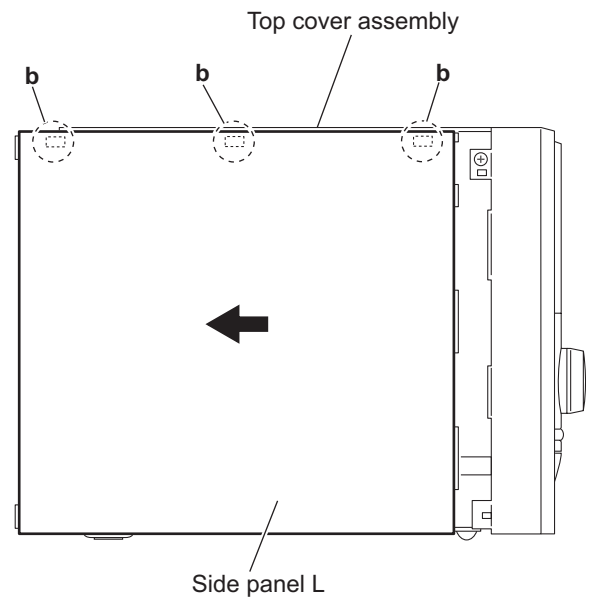
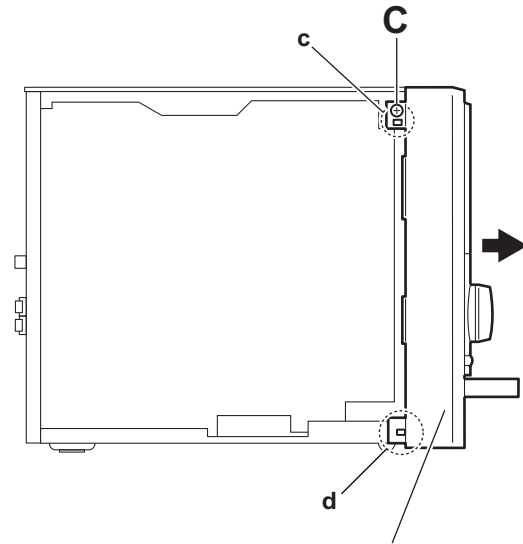


Fig.4

3.1.2 Removing the front panel assembly (See Figs.5 to 8)

- Prior to performing the following procedures, remove the side panels L/R.
 - (1) From the right side of the main body, push the slide cam and pull the tray out of the main body in the direction of the arrow 1. (See Fig.5.)
 - (2) Remove the tray fitting from the tray in the direction of the arrow 2. (See Fig.5.)
 - (3) From the both sides of the main body, remove the two screws **C** attaching the front panel assembly. (See Figs.6 and 7.)
 - (4) Release the two claws **c** and claws **d** to draw out the front panel assembly in the direction of the arrow. (See Figs.6 and 7.)
 - (5) From the right side of the main body, disconnect the card wire from the connector **CN730** on the main board. (See Fig.8.)
 - (6) Disconnect the wire from the connector **CN271** on the main board. (See Fig.8.)
 - (7) Remove the front panel assembly in the direction of the arrow. (See Fig.8.)



Front panel assembly
Fig.7

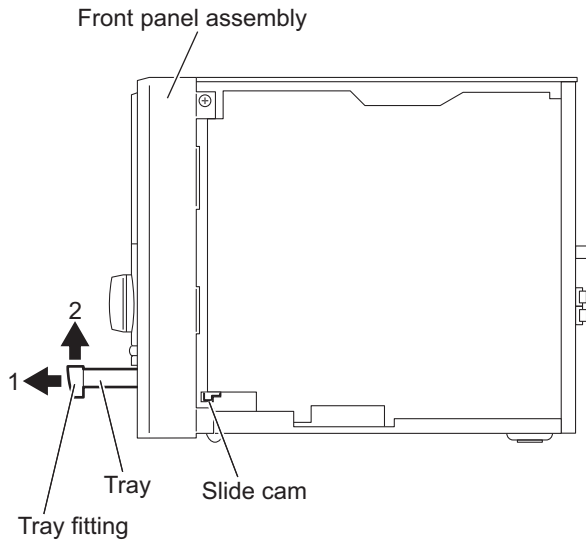


Fig.5

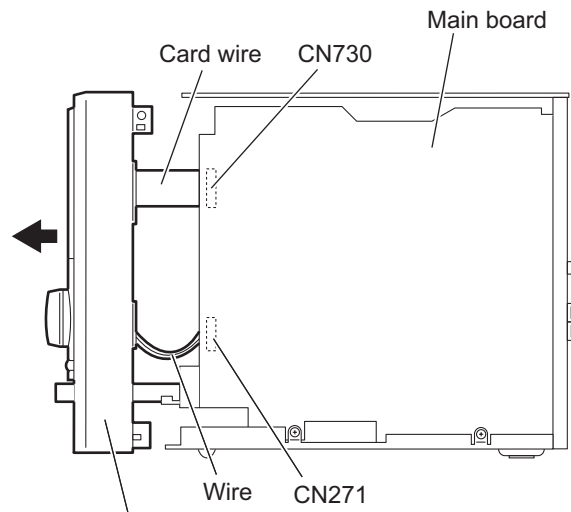
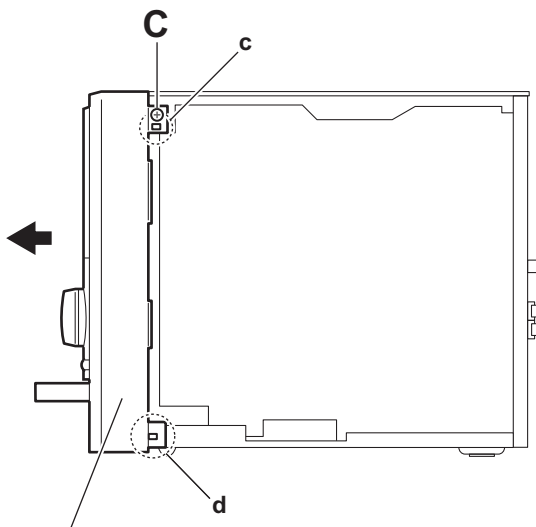


Fig.8



Front panel assembly

Fig.6

3.1.3 Removing the top cover assembly (See Figs.9 and 10)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the back side of the main body, remove the screw **D** attaching the top cover assembly to the rear panel. (See Fig.9.)
 - (2) From the right side of the main body, disconnect the card wires from the connectors ([CN701](#), [CN702](#)) on the main board. (See Fig.10.)
 - (3) Take out the top cover assembly from the main body.

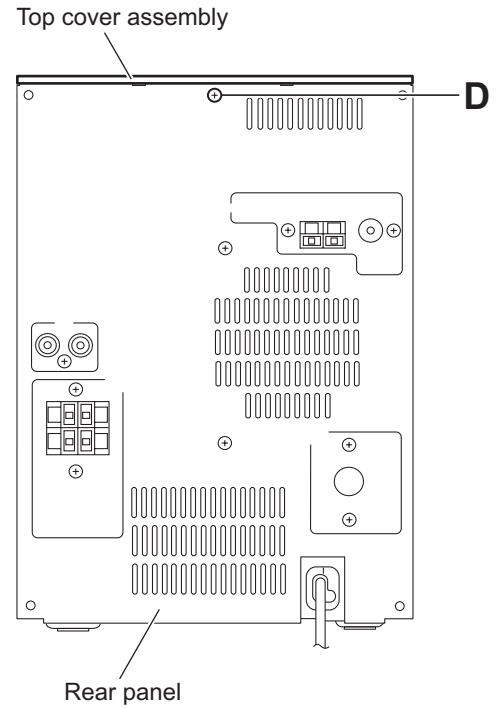


Fig.9

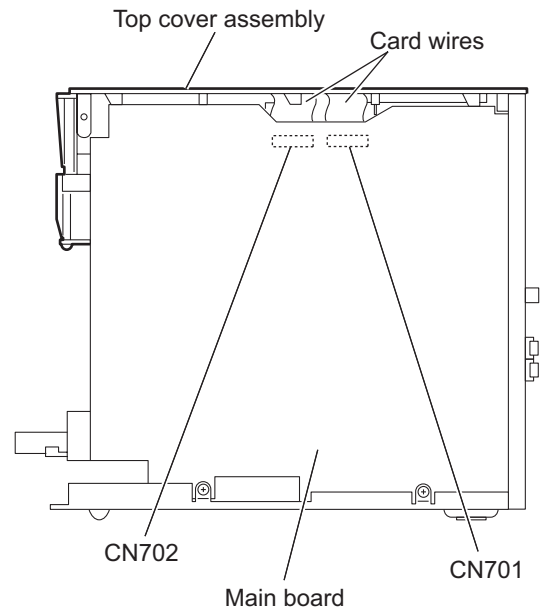


Fig.10

3.1.4 Removing the cassette mechanism assembly (See Fig.11)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly and top cover assembly.
 - (1) From the bottom side of the top cover assembly, disconnect the card wires from the connectors (CN33, CN34) on the head amp. & mechanism control board.
 - (2) Remove the four screws **E** attaching the cassette mechanism assembly and take out the cassette mechanism assembly from the top cover assembly.

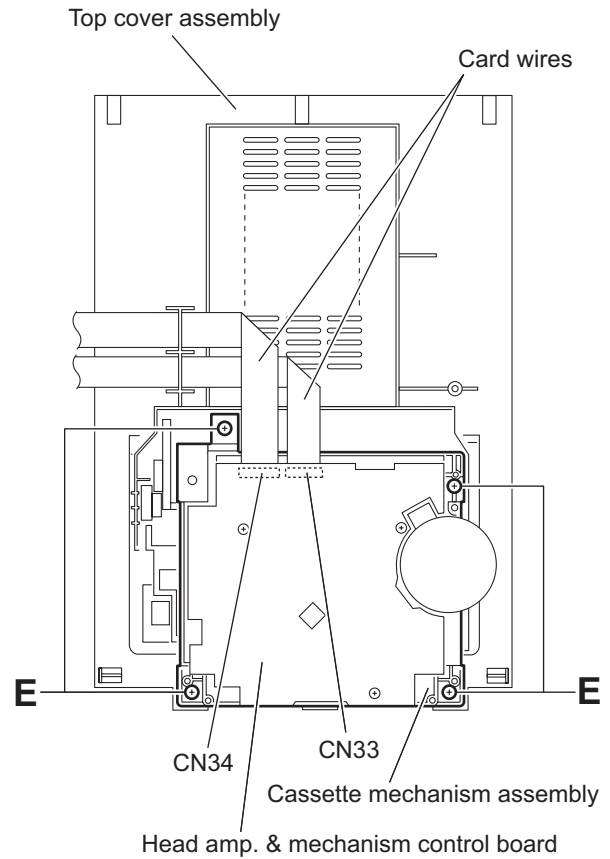


Fig.11

3.1.5 Removing the tuner (See Figs.12 and 13)

- Prior to performing the following procedures, remove the side panel L.
 - (1) From the back side of the main body, remove the two screws **F** attaching the tuner to the rear panel. (See Fig.12.)
 - (2) Disconnect the card wire from the connector **CN1** on the tuner. (See Fig.13.)

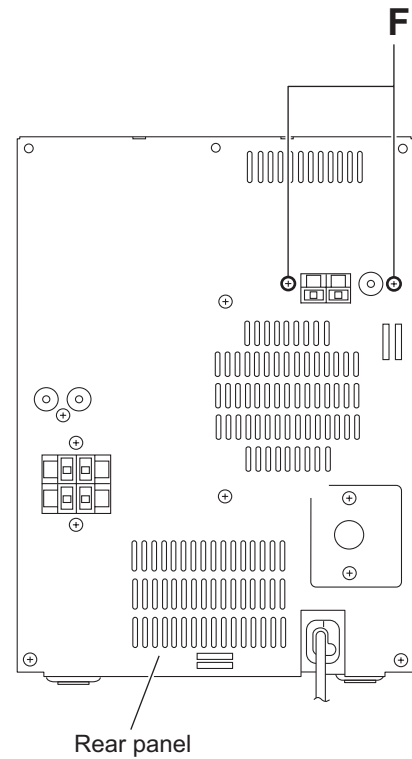


Fig.12

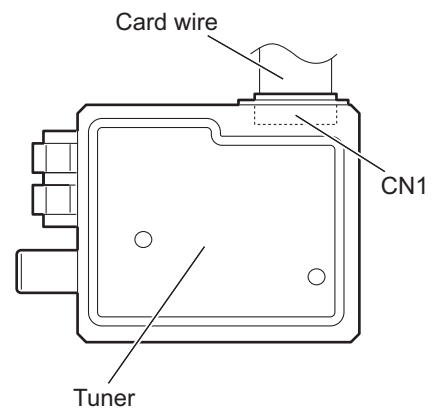


Fig.13

3.1.6 Removing the rear panel (See Fig.14)

- Prior to performing the following procedures, remove the side panels L/R.
 - (1) From the back side of the main body, remove the eight screws **G** attaching the rear panel.
 - (2) Release the engagement sections **e** and remove the rear panel.
 - (3) Disconnect the wire from the connector **CN711** on the main board.

Reference:

After connecting the wire to the connector **CN711**, fix the wire with the wire holder.

3.1.7 Removing the fan (See Figs.14 and 15)

- Prior to performing the following procedures, remove the side panels L/R and rear panel.
 - (1) From the outside of the rear panel, remove the two screws **H** attaching the fan bracket to the rear panel. (See Fig.14.)
 - (2) From the inside of the rear panel, move the fan bracket in the direction of the arrow to release the engagement sections (**f**, **g**). (See Fig.15.)
 - (3) Remove the fan bracket from the rear panel and remove the fan. (See Fig.15.)

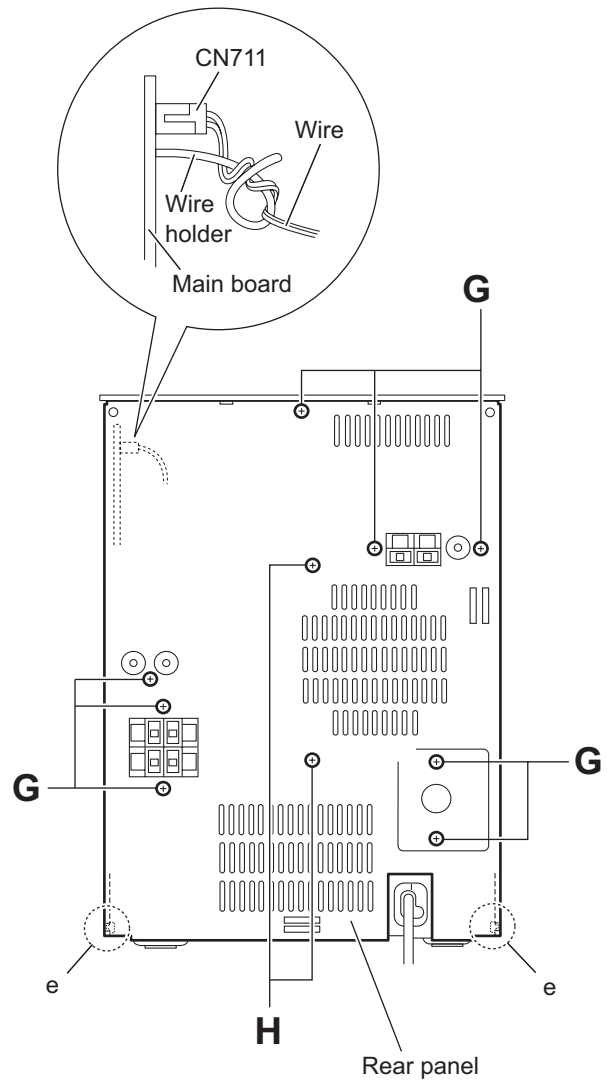


Fig.14

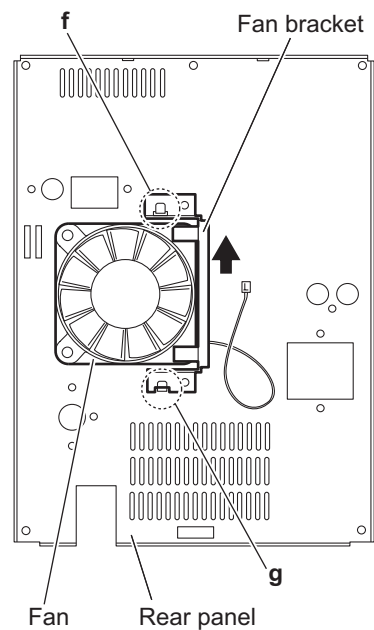


Fig.15

3.1.8 Removing the main board (See Fig.16)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner and rear panel.
 - (1) From the right side of the main body, remove the two screws **J** attaching the main board.
 - (2) Remove the main board toward this side and disconnect the connector [CN200](#) on the main board.
 - (3) From the forward side of the main board, disconnect the card wires from the connectors ([CN210](#), [CN221](#)).

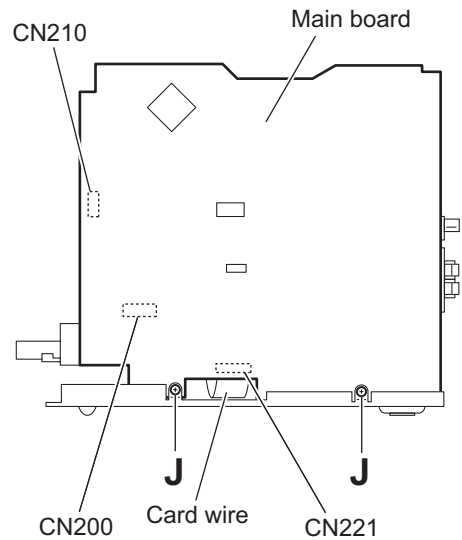


Fig.16

3.1.9 Removing the power supply board (See Fig.17)

- Prior to performing the following procedures, remove the side panel L and rear panel.
 - (1) From the left side of the main body, remove the screw **K** attaching the power supply board.
 - (2) Remove the power supply board toward this side and disconnect the connector [CN104](#) on the power supply board.
 - (3) From the forward side of the power supply board, disconnect the wires from the connectors ([CN101](#), [CN102](#), [CN103](#), [CN105](#)).

Reference:

When attaching the power supply board, insert the section **h** of the power supply board in the hole of the bottom chassis before attaching the screw **K**.

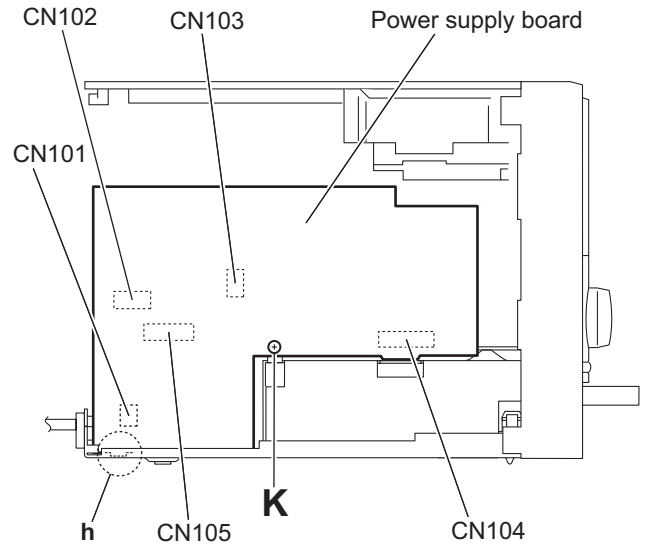


Fig.17

3.1.10 Removing the power amplifier board (See Fig.18)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board and power supply board.
 - (1) From the top side of the main body, remove the four screws **L** attaching the power amplifier board.
 - (2) Lift the power amplifier board and remove it from the engagement sections (**i, j**) of the shield case.

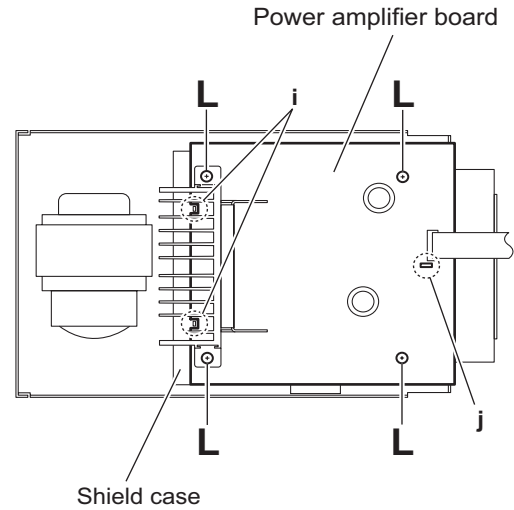


Fig.18

3.1.11 Removing the heat sink (See Fig.19.)

- Prior to performing the following procedure, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board, power supply board and power amplifier board.
 - (1) From the side of the power amplifier board, remove the two screws **M** attaching the heat sink.
 - (2) From the side of the power amplifier board, remove the two screws **N** attaching the heat sink.

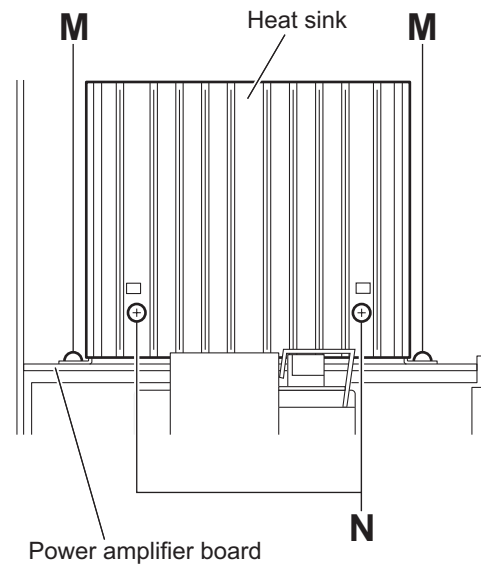


Fig.19

3.1.12 Removing the CD mechanism assembly (See Figs.20 and 21)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly, tuner, rear panel, main board and power supply board.

(1) From the top side of the main body, remove the four screws **P** attaching the shield case to the bottom chassis. (See Fig.20.)

Reference:

When attaching the shield case on the bottom chassis, align the projections (**k**, **m**, **n**) of the bottom chassis in the holes of the shield case. (See Fig.20.)

- (2) Take out the shield case with the power amplifier board from the bottom chassis.
- (3) Remove the three screws **Q** attaching the CD mechanism assembly to the bottom chassis. (See Fig.21.)

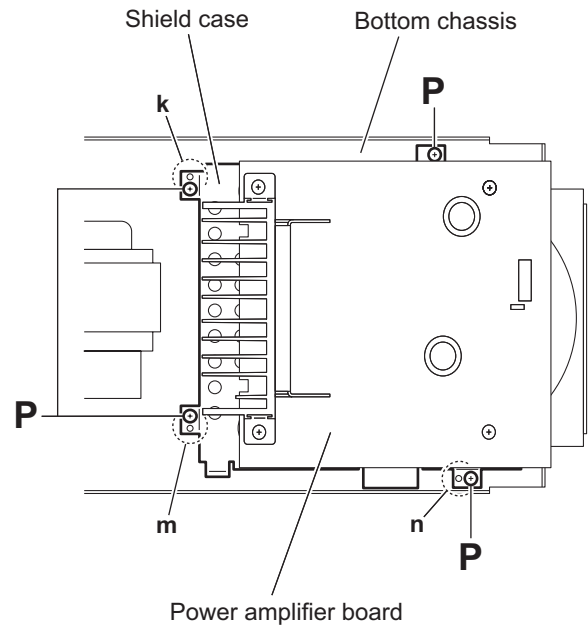


Fig.20

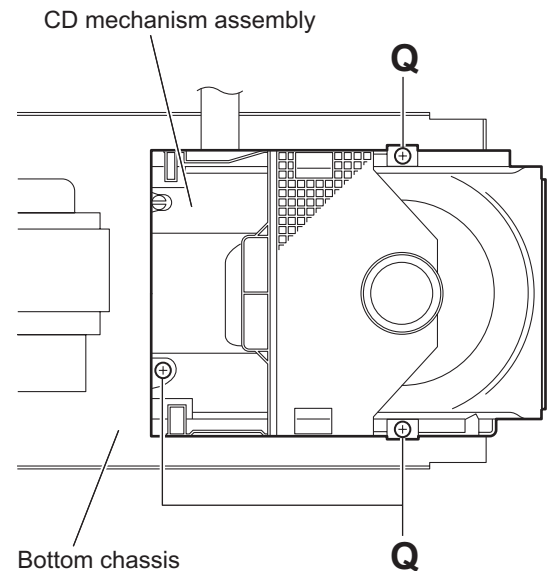


Fig.21

3.1.13 Removing the power transformer (See Figs.22 and 23)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top cover assembly and rear panel.

(1) From the forward side of the power supply board, disconnect the wires from the connectors (CN102, CN103, CN105). (See Fig.22.)

Reference:

Remove the power supply board as required. (See Fig.17.)

(2) From the top side of the main body, remove the four screws **R** attaching the power transformer. (See Fig.23.)

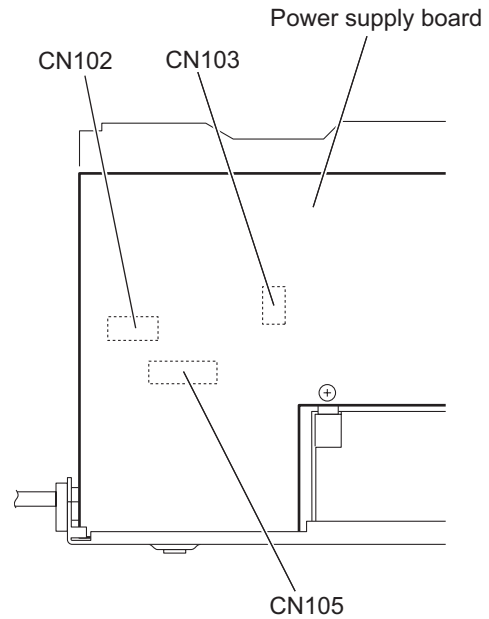


Fig.22

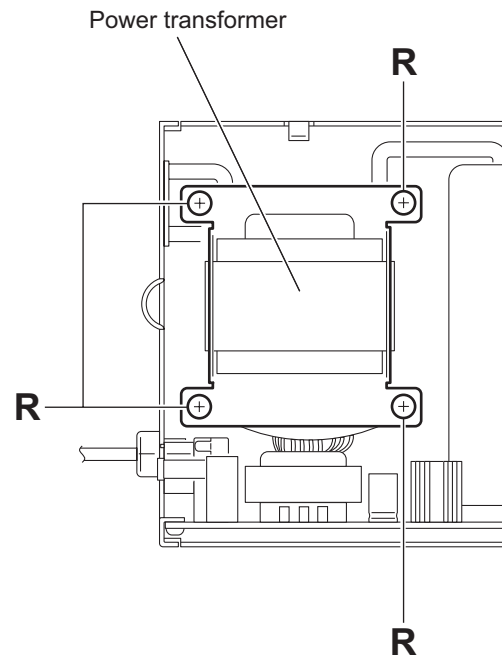


Fig.23

3.1.14 Removing the FL board (See Fig.24)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the inside of the front panel assembly, remove the four screws **S** attaching the FL board.
 - (2) Take out the FL board from the front panel assembly and disconnect the card wire from the connector [CN751](#) on the FL board.

Reference:

When attaching the FL board, align the projections **p** of the front panel assembly in the holes of the FL board.

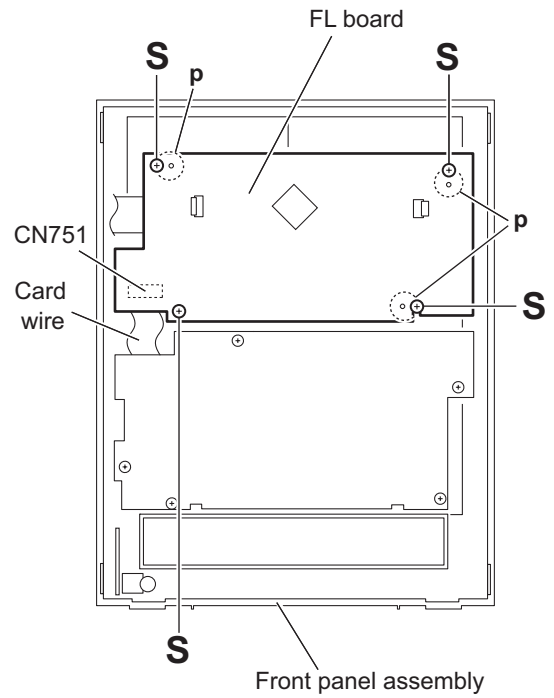


Fig.24

3.1.15 Removing the switch board (See Figs.25 and 26)

- Prior to performing the following procedures, remove the side panels L/R and front panel assembly.
 - (1) From the front side of the front panel assembly, pull out the mic volume knob. (See Fig.25.)
 - (2) From the inside of the front panel assembly, remove the ten screws **T** attaching the switch board. (See Fig.26.)
 - (3) Take out the switch board from the front panel assembly and disconnect the card wire from the connector **CN760** on the switch board. (See Fig.26.)

Reference:

When attaching the switch board, align the projections **q** of the front panel assembly in the holes of the switch board. (See Fig.26.)

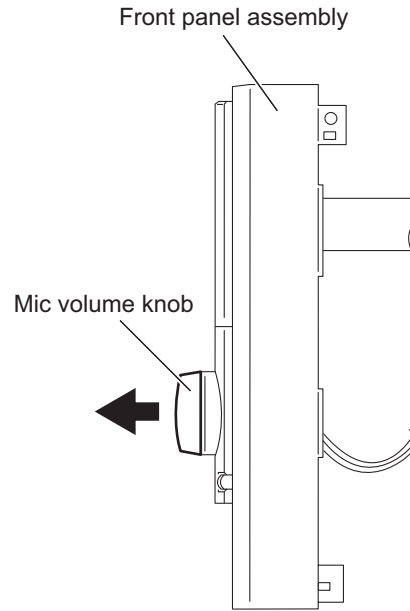


Fig.25

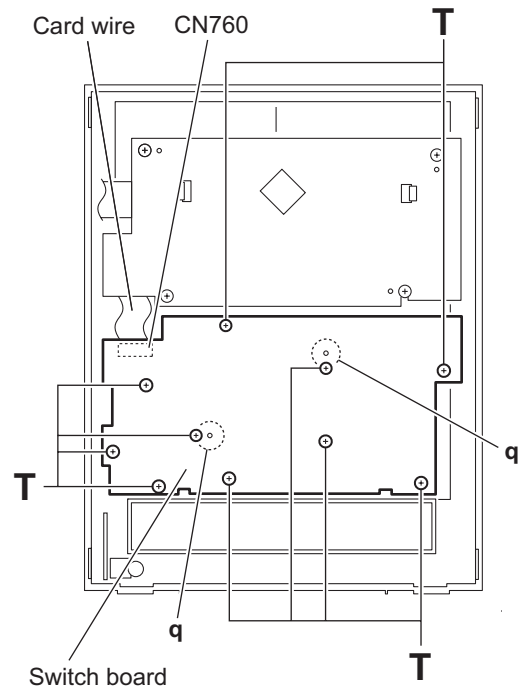


Fig.26

3.1.16 Removing the headphone jack board (See Fig.27)

- Prior to performing the following procedure, remove the side panels L/R and front panel assembly.
(1) From the inside of the front panel assembly, remove the screw **U** attaching the headphone jack board.

Reference:

After attaching the headphone jack board, fix the wire with the spacer.

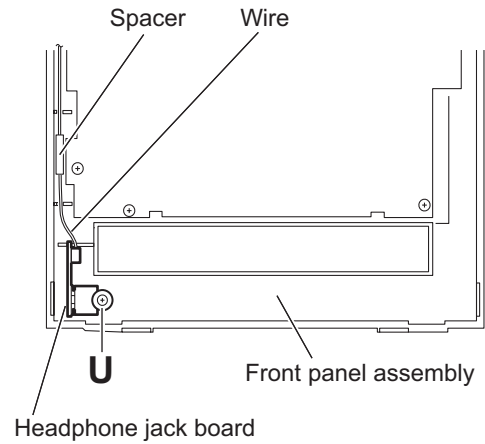


Fig.27

3.2 CD mechanism section

- Remove the CD mechanism assembly from the main body.
(See "3.1.12 Removing the CD mechanism assembly".)

3.2.1 Removing the tray assembly (See Figs.1 to 3)

- (1) From the right side of the CD mechanism assembly, push the slide cam and pull the tray assembly out of the CD mechanism assembly in the direction of the arrow. (See Fig.1)
- (2) From the top side of the CD mechanism assembly, remove the two screws **A** attaching the leaf spring to the bushing and remove the leaf spring. (See Fig.2)
- (3) Remove the bushing of the tray assembly from the projection **a** on the CD mechanism assembly and move the tray assembly in the direction of the arrow. (See Fig.3)
- (4) Remove the claw **b** of the tray assembly from the CD mechanism assembly and take out the tray assembly. (See Fig.3)

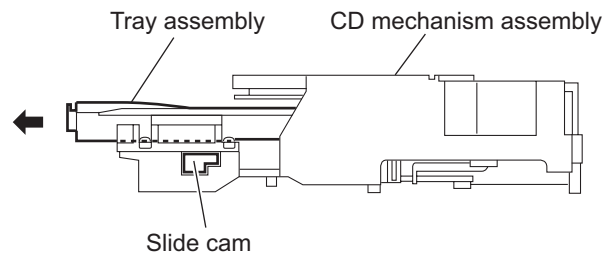


Fig.1

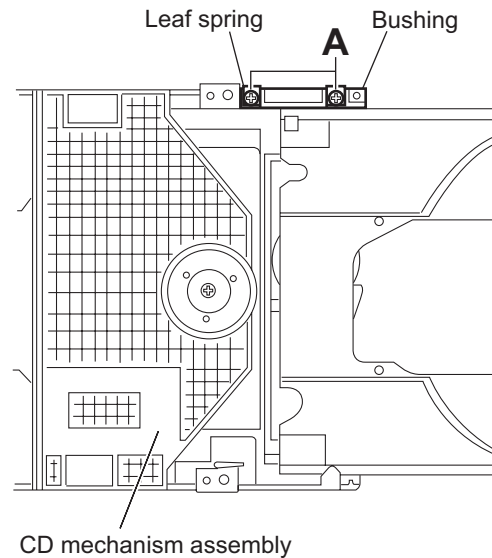


Fig.2

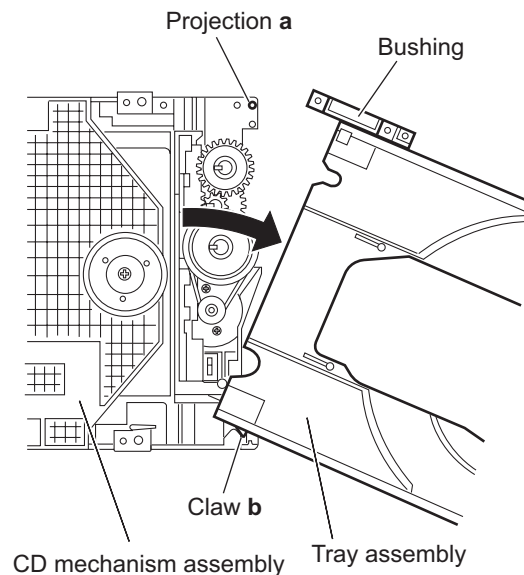


Fig.3

3.2.2 Removing the traverse mechanism assembly (See Figs.4)

- (1) From the bottom side of the CD mechanism assembly, remove the four screws **B** attaching the traverse mechanism

assembly.

(2) Disconnect the card wire from the connector [CN602](#) on the CD servo board and take out the CD traverse mechanism assembly with the CD servo board.

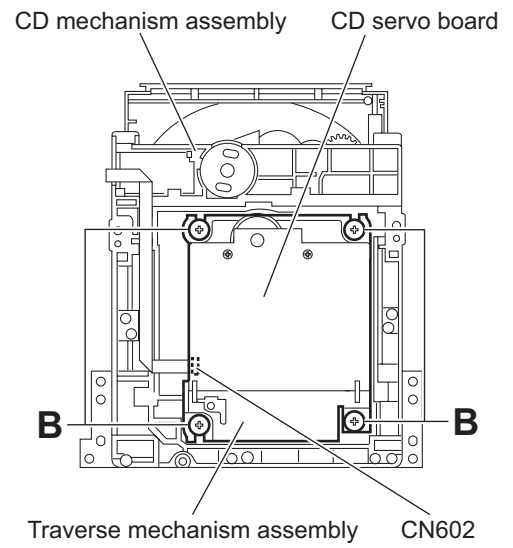


Fig.4

3.2.3 Removing the CD servo board (See Figs.5 and 6)

- Remove the traverse mechanism assembly.
 - (1) From the bottom side of the traverse mechanism assembly, remove the solders from the solder sections **c**. (See Fig.5)
 - (2) Remove the wire (yellow) from the solder sections **d**. (See Fig.5)
 - (3) Remove the wire (white) from the solder sections **e**. (See Fig.5)
 - (4) Remove the two screws **C** attaching the CD servo board. (See Fig.5)
 - (5) Remove the CD servo board from the claws **f** in the direction of the arrow and turn the CD servo board over. (See Fig.5)
 - (6) Solder the short land sections **g** on the CD pickup. (See Fig.6)
 - (7) Release the lock of the connector [CN601](#) on the CD servo board in the direction of the arrow and disconnect the card wire. (See Fig.6)

Caution:

- Solder the short land sections **g** on the CD pickup before disconnecting the card wire from the connector [CN601](#) on the CD servo board. If the card wire is disconnected without attaching solder, the CD pickup may be destroyed by static electricity. (See Fig.6)
- When attaching the CD servo board, be sure to remove solders from the short land sections **g** after connecting the card wire to the connector [CN601](#) on the CD servo board. (See Fig.6)

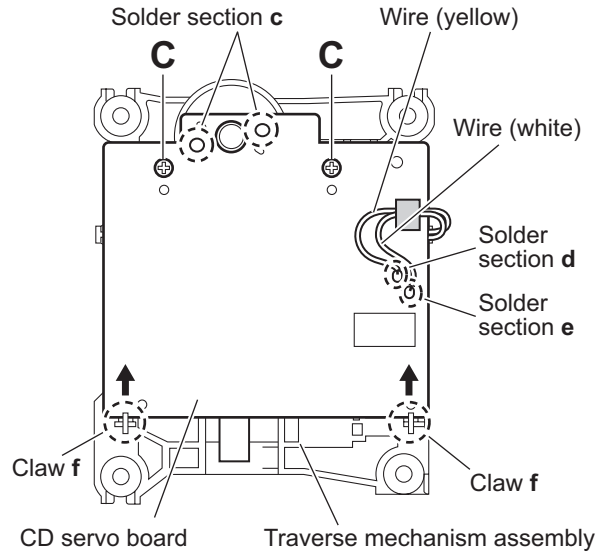


Fig.5

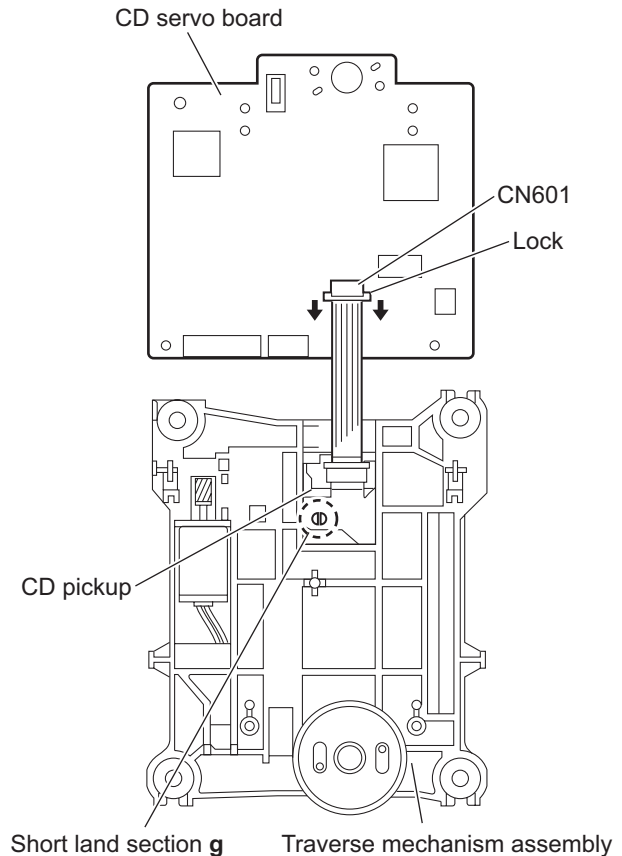


Fig.6

3.2.4 Removing the CD pickup (See Figs.7 to 9)

- Remove the traverse mechanism assembly.
 - (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the shaft holder. (See Fig.7)
 - (2) Release the joint **h** and take out the shaft holder. (See Fig.7)
 - (3) Remove the two screws **E** attaching the rack arm and take out the rack arm. (See Fig.8)
 - (4) Remove the feed middle gear and remove the screw shaft of the CD pickup from the section **i** on the traverse mechanism assembly. (See Fig.8)
 - (5) Remove the CD pickup from the section **j** of the traverse mechanism assembly and take out the CD pickup with the screw shaft. (See fig.8)
 - (6) Pull the screw shaft out of the CD pickup. (See Fig.8)
 - (7) From the bottom side of the CD pickup, solder the short land sections **k** on the CD pickup. (See Fig.9)
 - (8) Release the lock of the connector on the CD pickup in the direction of the arrow and disconnect the card wire. (See Fig.9)

Caution:

- Solder the short land sections **k** on the CD pickup before disconnecting the card wire from the connector on the CD pickup. If the card wire is disconnected without attaching solder, the CD pickup may be destroyed by static electricity. (See Fig.9)
- When attaching the CD pickup, be sure to remove solders from the short land sections **k** after connecting the card wire to the connector on the CD pickup. (See Fig.9)

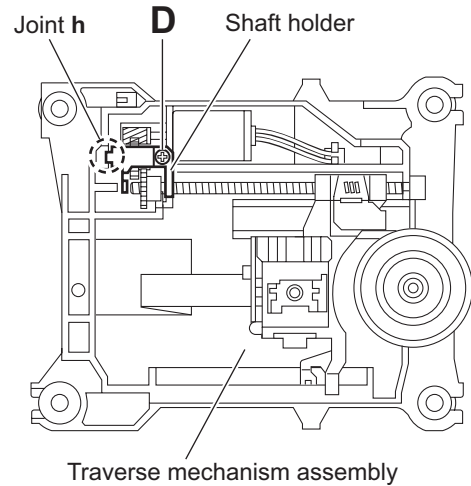


Fig.7

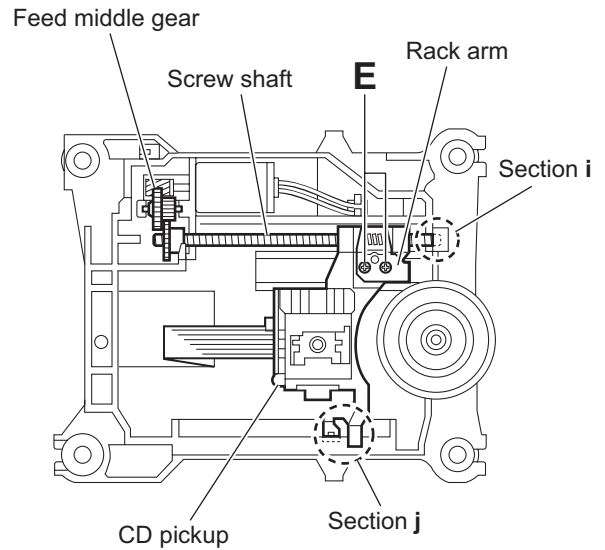


Fig.8

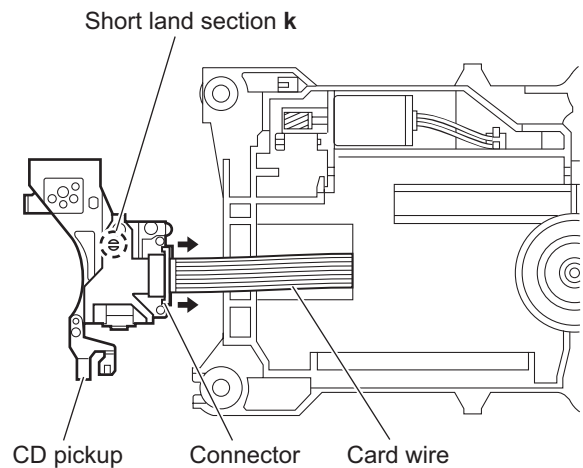


Fig.9

3.2.5 Attaching the CD pickup (See Figs.7 to 10)

- See "3.2.4 Removing the CD pickup".
 - (1) Remove solders from the short land sections **k** after connecting the card wire to the connector on the CD pickup. (See Fig.9)
 - (2) Attach the shaft. (See Fig.8)
 - (3) Align the CD pickup to the section **j** of the traverse mechanism assembly first, and set the screw shaft of the CD pickup in the sections **i** of the traverse mechanism assembly. (See Fig.8.)
 - (4) Attach the rack arm and feed middle gear. (See Fig.8)
 - (5) Attach the shaft holder. (See Fig.7)
 - (6) Turn the SS gear in the direction of the arrow 1 to move the CD pickup in the direction of the arrow 2. (See Fig.10)

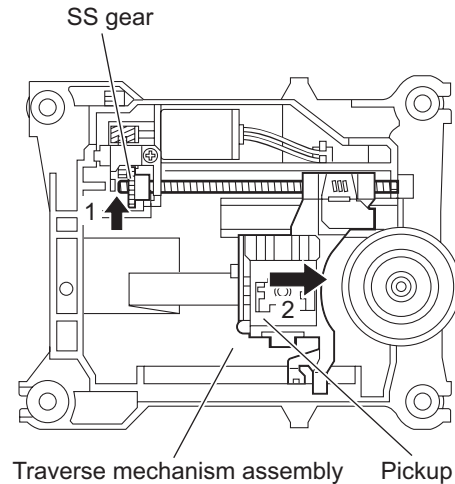


Fig.10

3.2.6 Removing the feed motor (See Figs.5, 7 and 11)

- Remove the traverse mechanism assembly.
 - (1) From the top side of the traverse mechanism assembly, remove the wire (yellow) from the solder sections **d** on the CD servo board. (See Fig.5)
 - (2) Remove the wire (white) from the solder sections **e** on the CD servo board. (See Fig.5)
 - (3) Remove the screw **D** attaching the shaft holder and take out the shaft holder. (See Fig.7)
 - (4) Remove the feed middle gear and remove the screw **E** attaching the feed motor. (See Fig.11)
 - (5) Take out the feed motor from the traverse mechanism assembly.

Reference:

When attaching the feed motor, pass the wires through the section **m** on the traverse mechanism assembly. (See Fig.11)

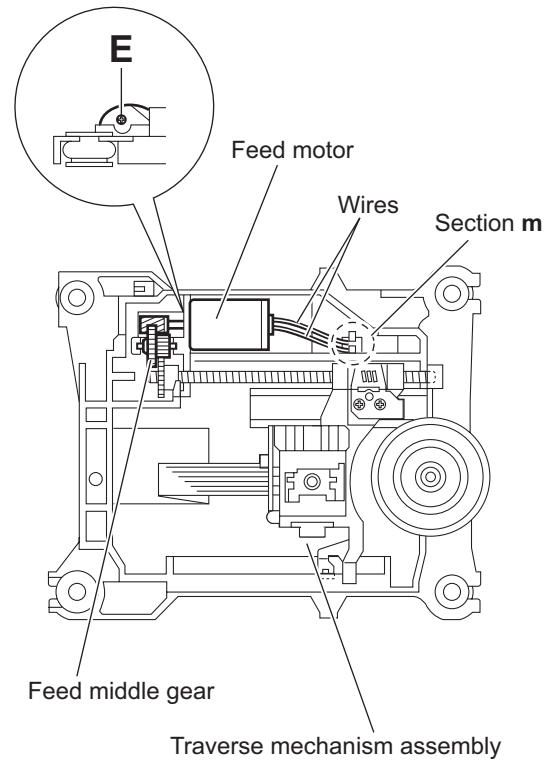


Fig.11

3.2.7 Removing the CD loading switch board (See Fig.12)

- (1) From the bottom side of the CD mechanism assembly, disconnect the card wire from the connector **CN1** on the CD loading switch board.
- (2) Remove the wires from the solder section **n** on the CD loading switch board.
- (3) Lift the CD loading switch board while pressing the claw **p** of the CD mechanism assembly in the direction of the arrow and remove it from the section **q**.

Reference:

- Put the wires on the section **r** after attaching the CD loading switch board to the CD mechanism assembly.
- Fix the claw **p** on the CD mechanism assembly with bonds after attaching the CD loading switch board.

3.2.8 Removing the motor (See Figs.12 and 13)

- Remove the tray assembly.
 - (1) From the bottom side of the CD mechanism assembly, remove the wires from the solder section **n** on the CD loading switch board. (See Fig.12)
 - (2) From the top side of the CD mechanism assembly, remove the belt from the motor pulley. (See Fig.13)

Note:

Take care not to attach grease on the belt.

- (3) Remove the two screws **F** attaching the motor to the CD mechanism assembly and take out the motor from the bottom side of the CD mechanism assembly. (See Fig.13)

Reference:

Put the wires on the section **r** after attaching the motor to the CD mechanism assembly. (See Fig.12)

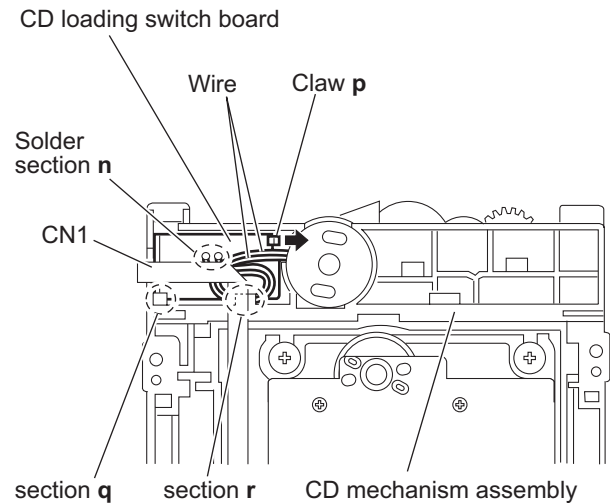


Fig.12

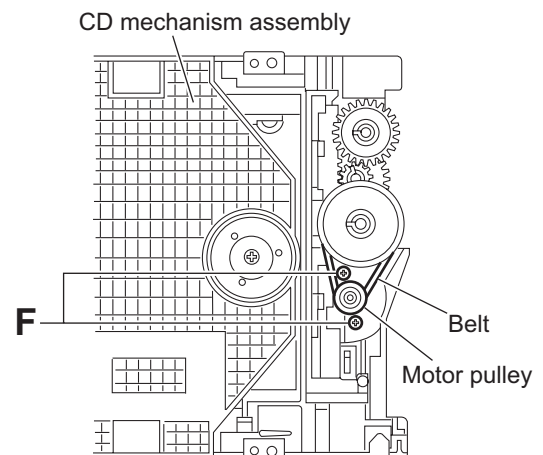


Fig.13

3.3 Cassette mechanism assembly

3.3.1 Removing the Play/Record & Clear head (See Fig.1~3)

- (1) While moving the trigger arm on the right side of the head mount in the direction of the arrow, turn the flywheel R counterclockwise until the head mount comes ahead and clicks.
- (2) The head turns counterclockwise as you turn the flywheel R counterclockwise (See Fig.2 and 3).
- (3) Disconnect the flexible wire from connector [CN31](#) on the head amplifier & mechanism control board.
- (4) Remove the spring from the back of the head.
- (5) Loosen the azimuth screw for reversing attaching the head.
- (6) Remove the head on the front side of the head mount.

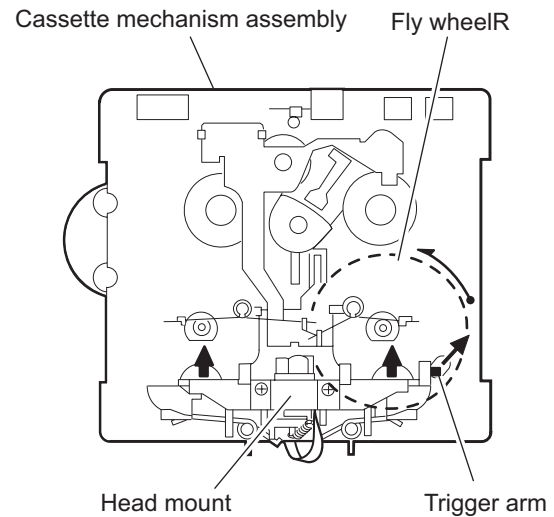


Fig.1

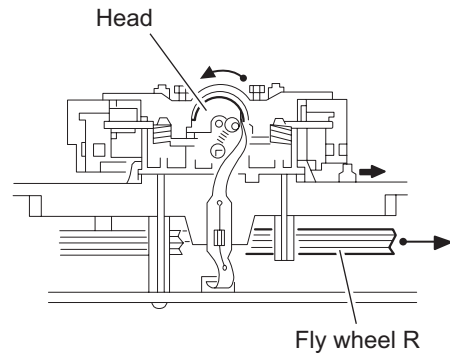


Fig.2

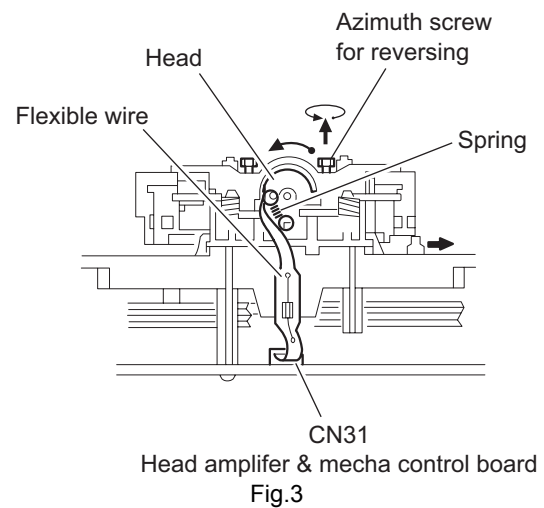


Fig.3

3.3.2 Removing the head amplifier & mechanism control board (See Fig.4)

- (1) Turn over the cassette mechanism assembly and remove the three screws **A** attaching the head amplifier & mechanism control board.
- (2) Disconnect the flexible wire from connector **CN31** on the head amplifier & mechanism control board.
- (3) Disconnect connector **CN32** of the head amplifier & mechanism control board from connector **CN1** on the reel pulse board. REFERENCE: If necessary, unsolder the 4-pin wire soldered to the main motor.

3.3.3 Removing the main motor (See Fig.4~7)

- (1) Remove the two screws **B**.
- (2) Half raise the motor and remove the capstan belt from the motor pulley.

ATTENTION:

Be careful to keep the capstan belt from grease. When reassembling, refer to Fig.6 and 7 for attaching the capstan belt.

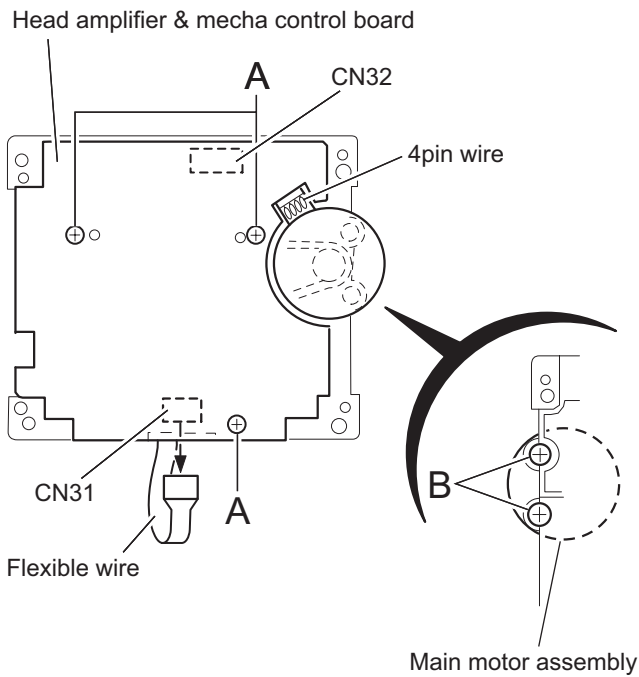


Fig.4

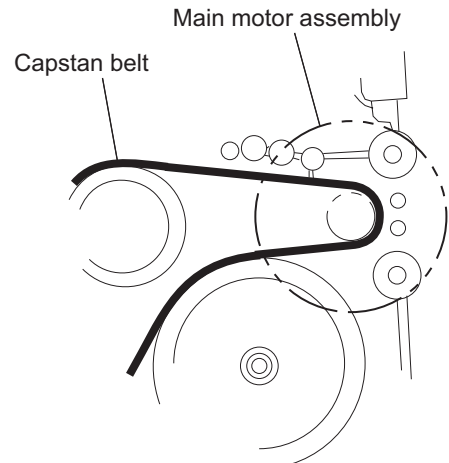


Fig.5

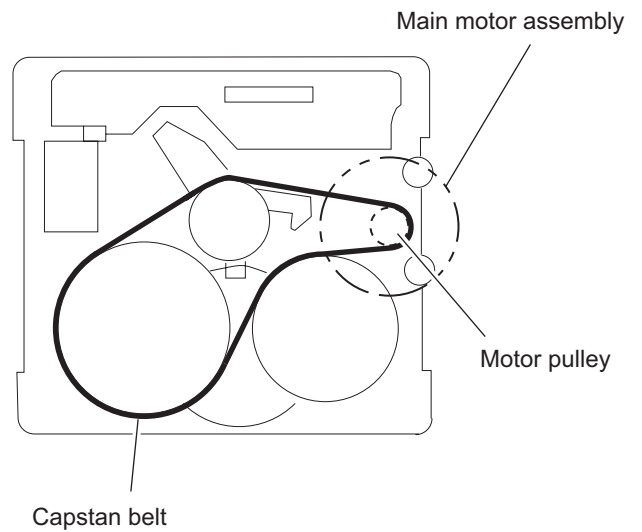


Fig.6

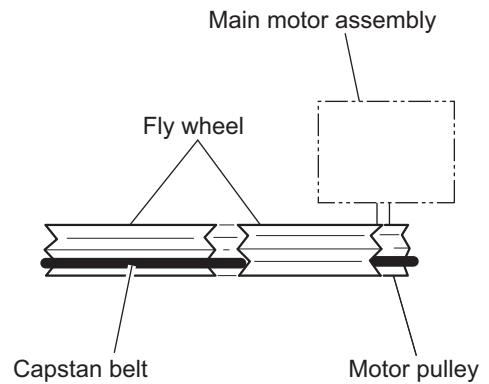
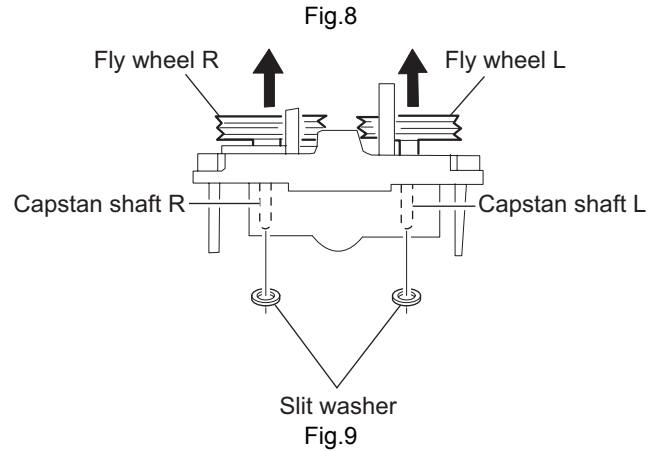
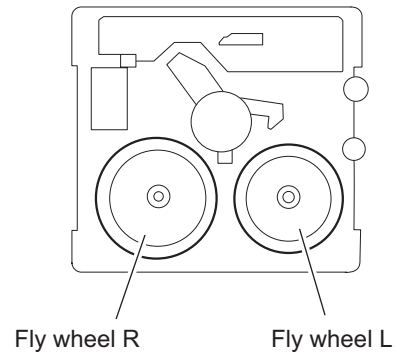


Fig.7

3.3.4 Removing the flywheel (See Fig.8, 9)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board and the main motor assembly.
 - (1) From the front side of the cassette mechanism, remove the slit washers attaching the capstan shaft **L** and **R**. Pull out the flywheels backward.



3.3.5 Removing the reel pulse board and solenoid (See Fig.10)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board.
 - (1) Remove the screw **C**.
 - (2) Release the tab **a**, **b**, **c**, **d** and **e** retaining the reel pulse board.
 - (3) Release the tab **f** and **g** attaching the solenoid on the reel pulse board.
 - (4) The reel pulse board and the solenoid come off.

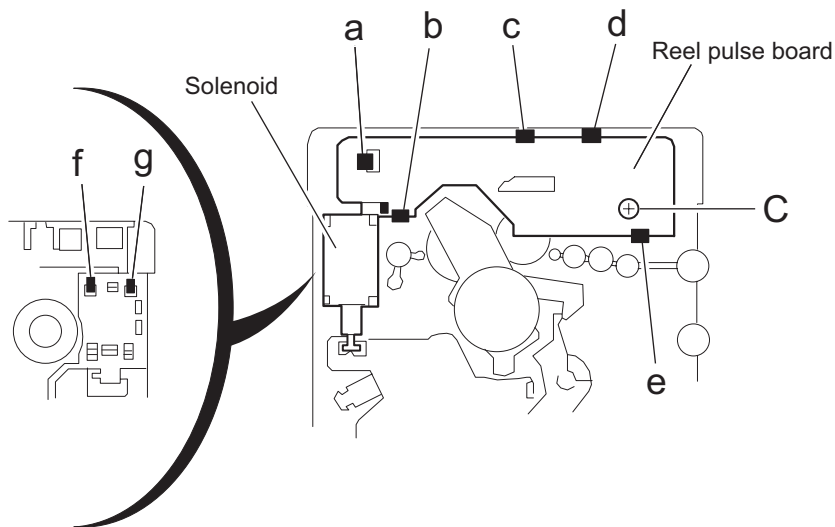


Fig.10

3.3.6 Reattaching the Play/ Record & Clear head (See Fig.11~13)

- (1) Reattaching the head mount assembly.
 - a) Change front of the direction cover of the head mount assembly to the left (Turn the head forward).
 - b) Fit the bosses **O'**, **P'**, **Q'**, **U'** and **V'** on the head mount assembly to the holes **P** and **V**, the slots **O**, **U** and **Q** of the mechanism sub assembly (See Fig.11 to 13).

CAUTION:

To remove the head mount assembly, turn the direction cover to the left to disengage the gear. If the gear can not be disengaged easily, push up the boss **Q'** slightly and raise the rear side of the head mounts slightly to return the direction lever to the reversing side.

- (2) Tighten the azimuth screw for reversing.
- (3) Reattach the spring from the back of the Play/ Record & Clear head.
- (4) Connect the flexible wire to connector **CN31** on the head amplifier & mechanism control board.

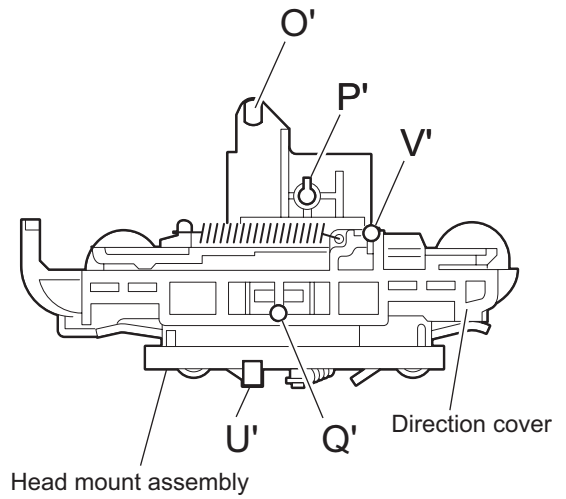


Fig.11

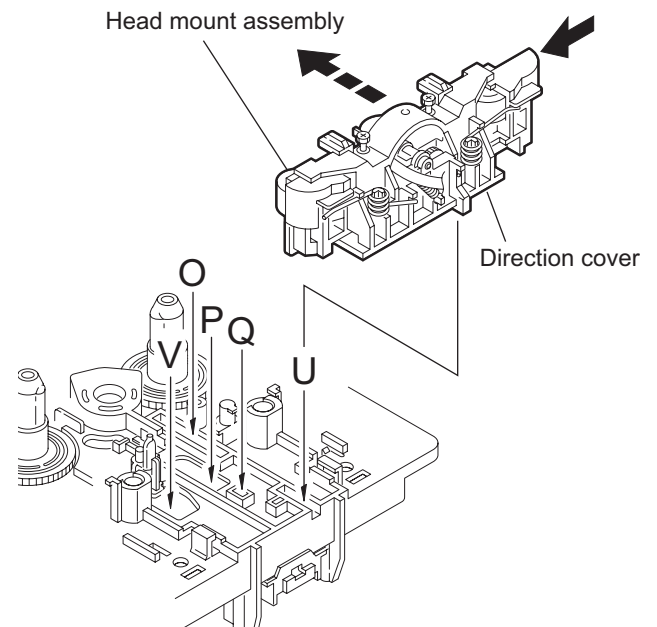


Fig.12

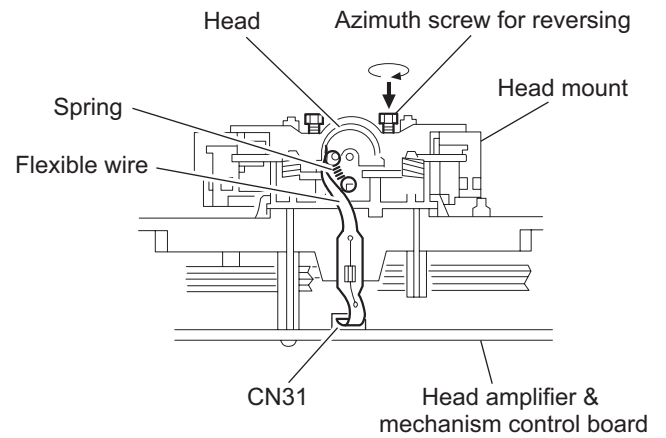


Fig.13

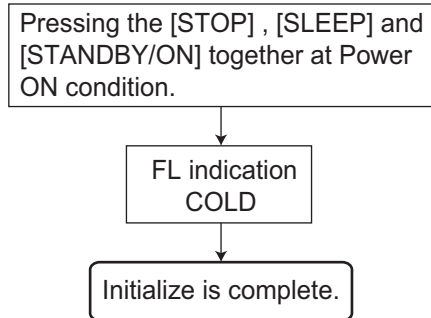
SECTION 4 ADJUSTMENT

4.1 Jigs and test instruments

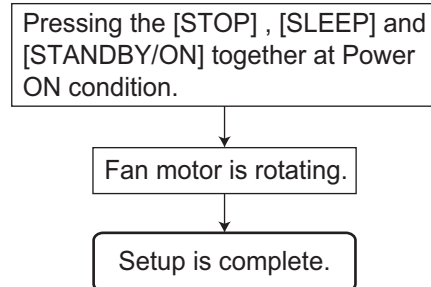
- Remote controller

4.2 Adjustment and check method

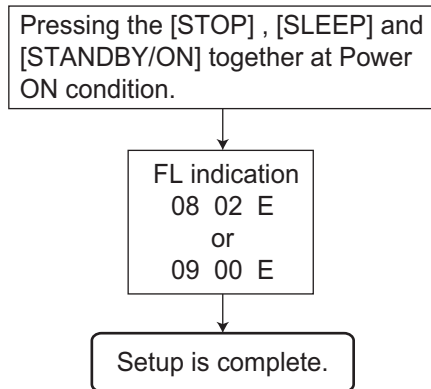
4.2.1 Initialize all data to the factory setting



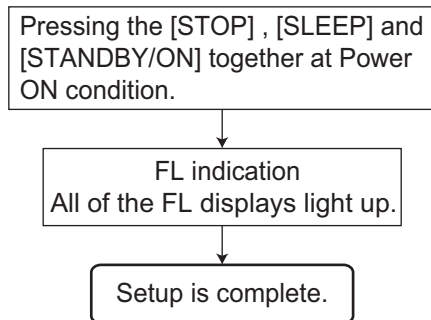
4.2.4 Fan motor ON/OFF check



4.2.2 Confirmation of the system micro computer

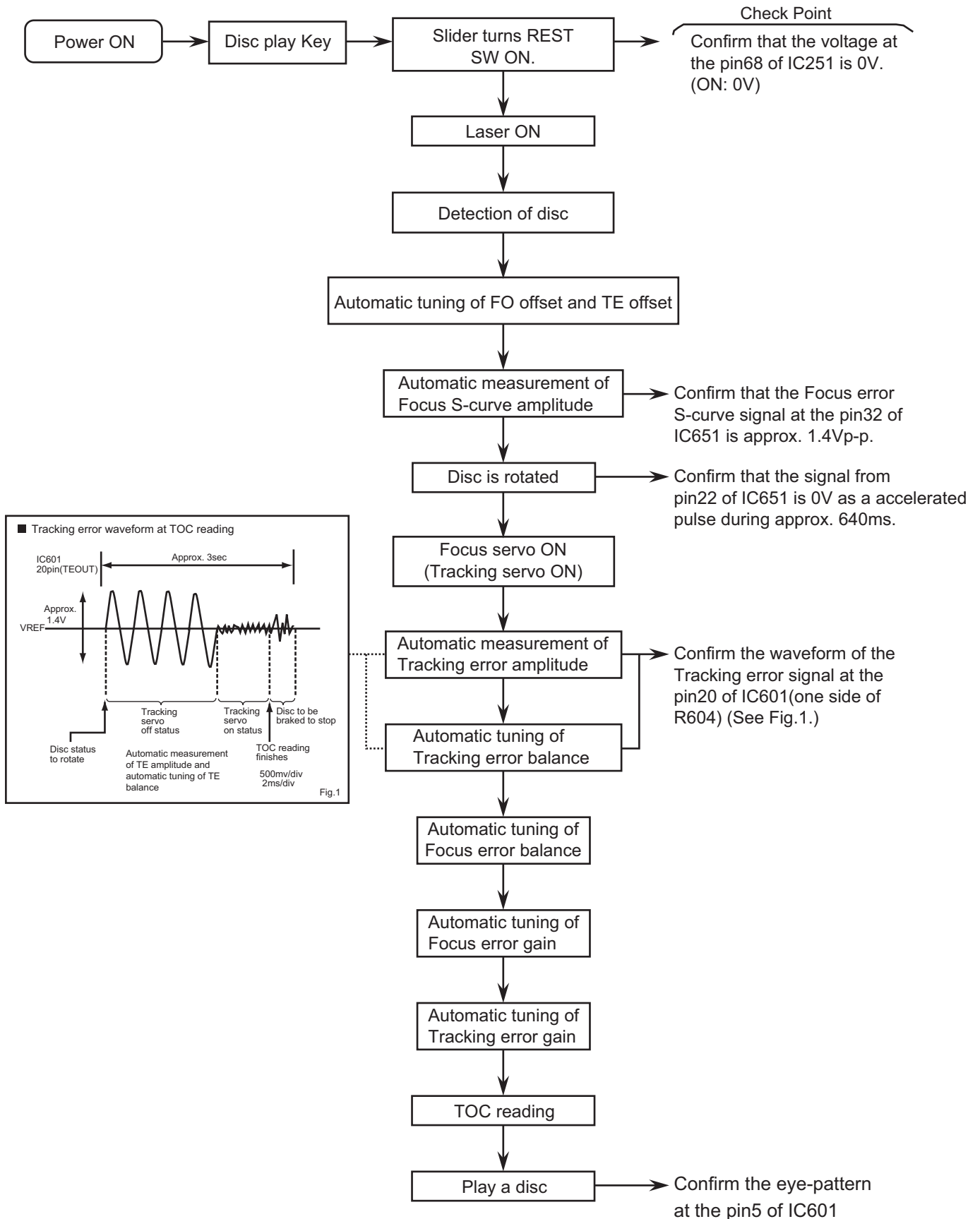


4.2.3 FL all lighting-up check



SECTION 5 TROUBLE SHOOTING

5.1 Flow of functional operation until TOC read (CD)



5.2 Maintenance of laser pickup (CD)

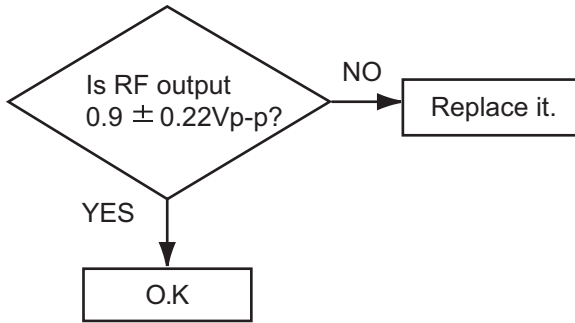
(1) Cleaning the pick up lens

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 below.



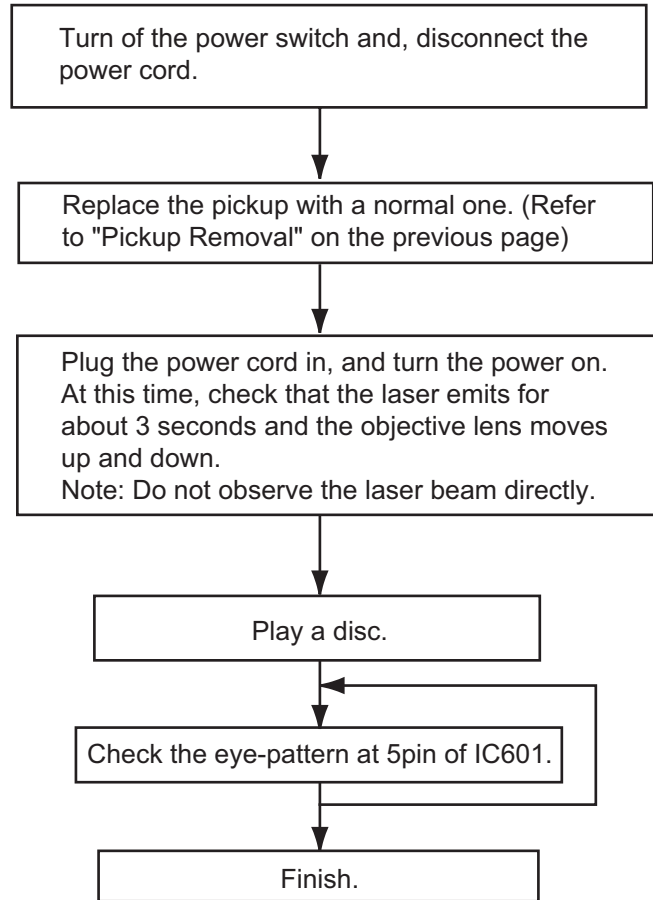
(3) Semi-fixed resistor on the APC PC board

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.

5.3 Replacement of laser pickup (CD)





JVC

Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB262)

PARTS LIST

[UX-P400]

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

Area suffix

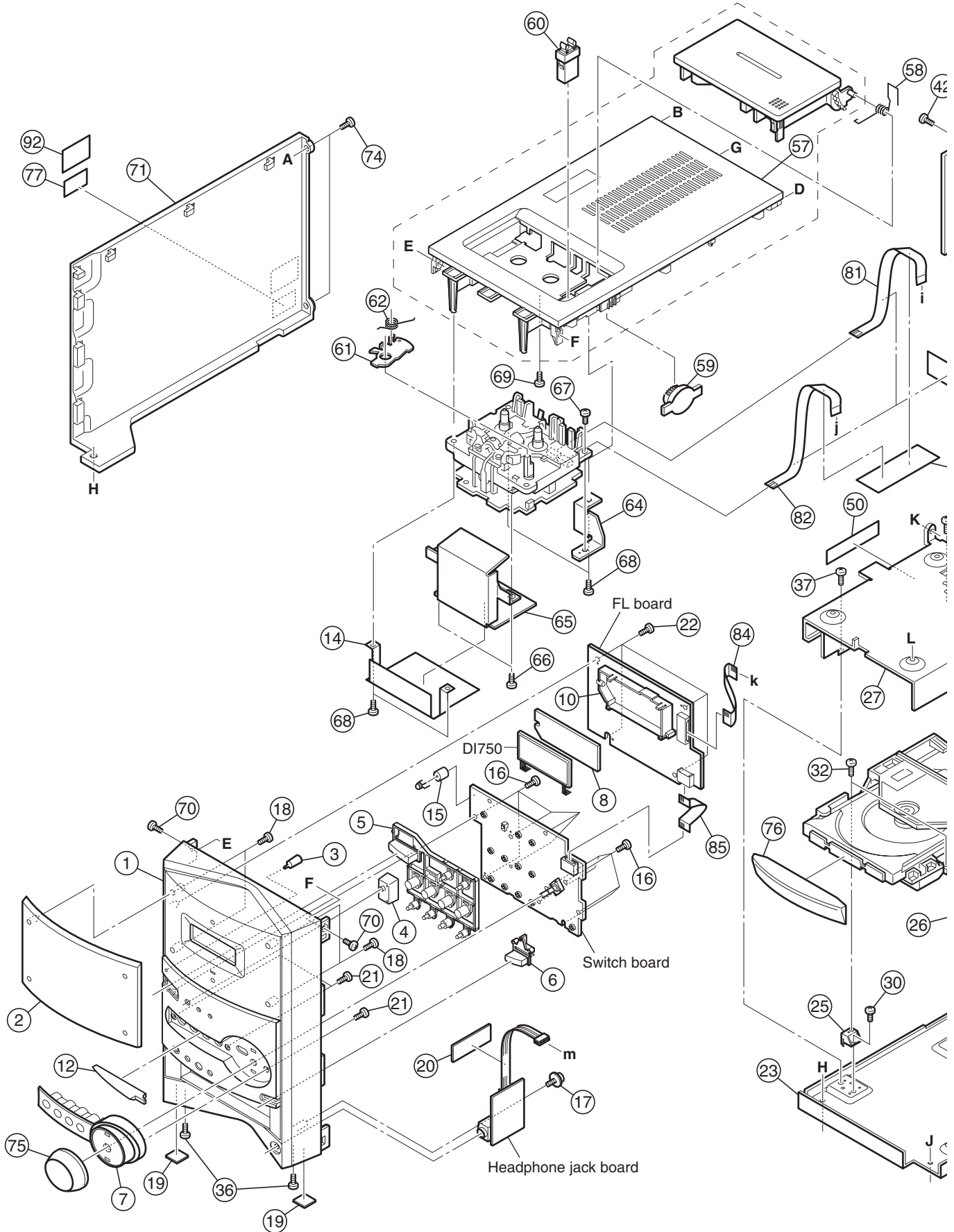
US ----- Singapore
UF ----- China
UP ----- Korea
UT ----- Taiwan
UW ----- Brazil, Mexico, Peru

- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3- 2
Speaker assembly and parts list (US,UP,UT,UW) (Block No.M2)	3- 6
CD mechanism assembly and parts list (Block No.MB)	3- 7
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Packing materials and accessories parts list (Block No.M3)	3-18

Exploded view of general assembly and parts list

Block No. M 1 M M



General assembly

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

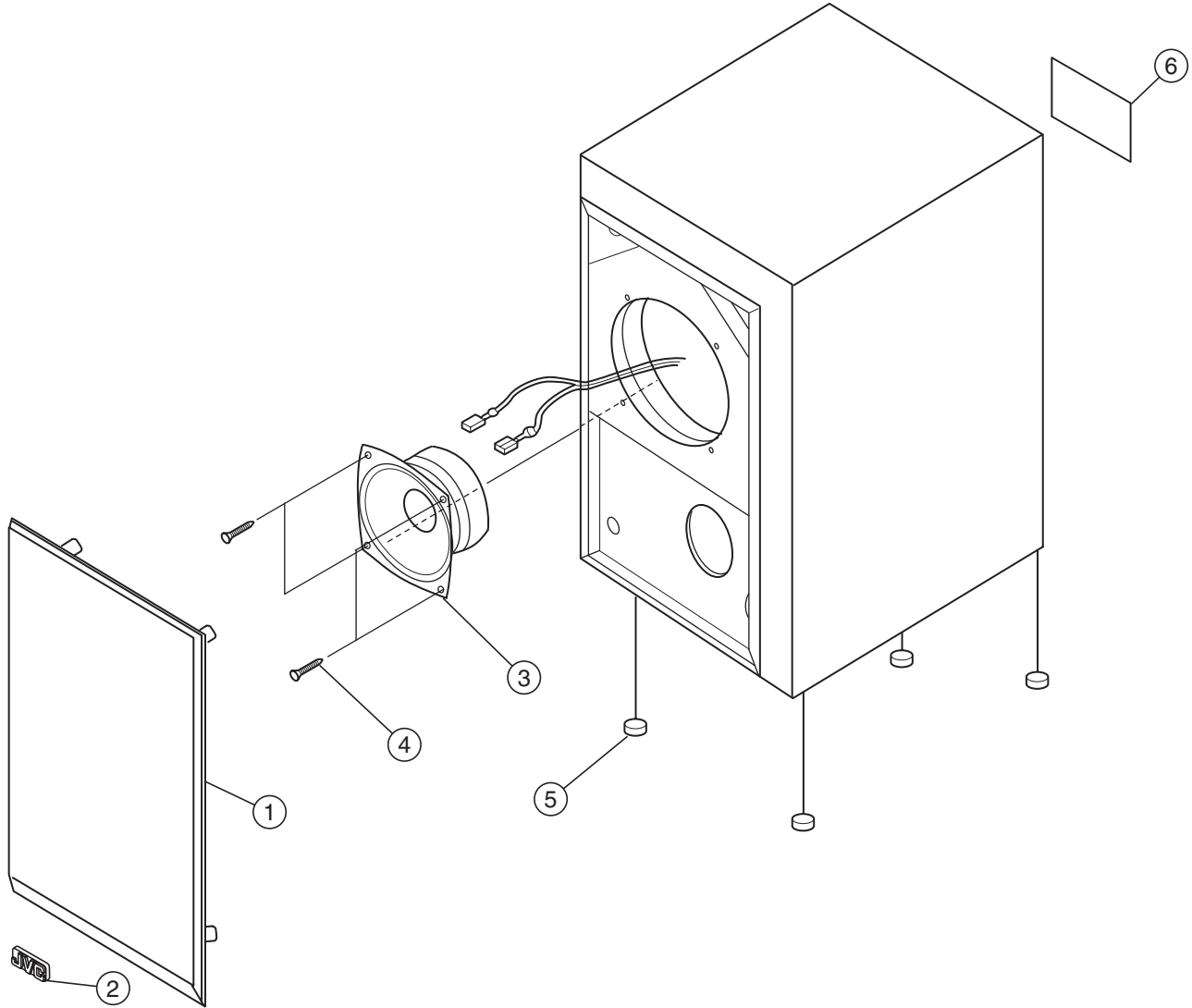
△	Symbol No.	Part No.	Part Name	Description	Local
	1	GV10189-015A	FRONT PANEL		
	2	GV30569-003A	FRONT LENS		
	3	GV40470-001A	STANDBY LENS		
	4	GV40471-001A	REMOTE LENS		
	5	GV20265-001A	MAIN BUTTON		
	6	GV40472-001A	EJECT BUTTON		
	7	GV30555-002A	VOL PLATE		
	8	GV40473-002A	LCD LENS		
	10	GV30557-001A	LCD HOLDER		
	11	E70945-H40B	HEAT SINK		
	12	GV40478-003A	LED LENS		
	13	QYSBSG3008Z	TAP SCREW	M3 x 8mm	
	14	GV30616-001A	SHIELD		P400UP
	15	GV40203-002A	LED HOLDER		
	16	QYSBSF2608Z	TAP SCREW	M2.6 x 8mm(x10)	
	17	GV40035-001A	SPECIAL SCREW		
	18	QYSDSF2006M	TAP SCREW	M2 x 6mm(x4)	
	19	GV40313-002A	FELT SPACER	(x2)	
	20	GV30349-007A	SPACER		
	21	QYSBSF2606Z	TAP SCREW	M2.6 x 6mm(x3)	
	22	QYSBSF2608Z	TAP SCREW	M2.6 x 8mm(x4)	
	23	GV10190-001A	BOTTOM CHASSIS		
	24	GV40313-002A	FELT SPACER	(x2)	
	25	GV40474-001A	MECHA HOLDER F	(x2)	
	26	GV40479-001A	MECHA HOLDER R		
	27	GV20269-002A	SHIELD CASE		
	28	E3400-444	FELT SPACER		
	29	GV40242-004A	COMMON SPACER		
	30	QYSDST3005Z	TAP SCREW	M3 x 5mm(x2)	
	31	QYSDST3005Z	TAP SCREW	M3 x 5mm(x2)	
	32	QYSBSF3008Z	TAP SCREW	M3 x 8mm(x3)	
	33	QYSBST4006Z	TAP SCREW	M4 x 6mm(x4)	
△	34	QMPR480-200-JC	POWER CORD(EU)	2m BLACK	P400UF
△	34	QMPR310-200-JC	POWER CORD(EU)	2m BLACK	P400UP
△	34	QMPR600-200-JD	POWER CORD(EU)	2m BLACK	P400UT
△	34	QMPK200-200-JD	POWER CORD(EU)	2m BLACK	P400US,P400UW
△	35	QZW0033-001	STRAIN RELIEF		
	36	QYSSST3008Z	TAP SCREW	M3 x 8mm(x2)	
	37	QYSDST3005Z	TAP SCREW	M3 x 5mm(x4)	
	38	GV40480-002A	IC HOLDER		
	39	GV30559-007A	HEAT SINK		P400US,P400UT,P400UW
	40	QYSBST3006E	TAP SCREW	M3 x 6mm(x2)	
	41	QYSBSG3012Z	TAP SCREW	M3 x 12mm(x2)	
	42	QYSBSTG3006Z	TAP SCREW	M3 x 6mm	
	43	QYSBSTG3006Z	TAP SCREW	M3 x 6mm	
	44	QYSBSTG3006Z	TAP SCREW	M3 x 6mm(x2)	
	45	QYSBST3006E	TAP SCREW	M3 x 6mm(x2)	
	46	GV20270-033A	REAR PANEL		P400UF,P400UP
	46	GV20270-035A	REAR PANEL		P400US,P400UT,P400UW
	47	QAU0347-001	TUNER		P400UP
	47	QAU0346-001	TUNER	TU 1	P400UF,P400US,P400UT,P400UW
	48	GV40481-001A	FAN BRACKET		
	49	QAR0230-001	FAN		
	50	LV41843-002A	LASER CAUTION		
	51	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x2)	
	52	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x2)	
	53	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x2)	
	54	QYSBSGY3008E	TAP SCREW	M3 x 8mm	
	55	QYSBSGY3008E	TAP SCREW	M3 x 8mm	
	56	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x2)	P400US,P400UT,P400UW
	57	GV20288-003A	TOP COVER ASSY		
	58	GV40506-001A	DOOR SPRING		
	59	GV40034-001A	DAMPER ASSY.		
	60	GV40220-001A	LACH		
	61	VKL7850-002	EJECT SAFETY(R)		
	62	VKW5258-003	TORSION SPRING		
	63	GV30349-022A	SPACER	(x2)	
	64	GV40229-001A	SUPPORT BRACKET		
	65	GV30071-001A	HEAD SHIELD		
	66	QYSBSF2608Z	TAP SCREW	M2.6 x 8mm(x2)	
	67	QYSBSF3008Z	TAP SCREW	M3 x 8mm	
	68	QYSBSF3010Z	TAP SCREW	M3 x 10mm(x4)	
	69	GV40035-001A	SPECIAL SCREW		
	70	QYSSSF3008Z	TAP SCREW	M3 x 8mm(x2)	

△	Symbol No.	Part No.	Part Name	Description	Local
	71	GV10194-004A	SIDE PANEL L		
	72	GV10195-001A	SIDE PANEL R		
	73	QYSBSGY3010E	TAP SCREW	M3 x 10mm(x2)	
	74	QYSBSGY3010E	TAP SCREW	M3 x 10mm(x2)	
	75	GV30563-001A	MIC VOL KNOB		
	76	GV30564-003A	TRAY FITTING		
	77	GV30565-002A	RATING LABEL		P400UF
	77	GV30565-006A	RATING LABEL		P400US,P400UT,P400UW
△	78	QMF51W2-R63-J8	FUSE	F 1001	P400UF,P400UP
△	78	QMF51W2-1R25-J8	FUSE	F 1001	P400US,P400UT,P400UW
△	79	QMF51W2-1R25-J8	FUSE	F 1003	
△	80	QMF51W2-6R3-J8	FUSE	F 1005	
	81	QUQH12-0922AJ	CARD WIRE		
	82	QUQH12-1022AJ	CARD WIRE		
	83	QUQH12-1113AJ	CARD WIRE	FC 1	
	84	QUQH12-1508AJ	CARD WIRE		
	85	QUQH12-1008AJ	CARD WIRE		
	86	QUQH12-1114AJ	CARD WIRE		
	87	QUQM10-1716AJ	CARD WIRE		
△	88	QQT0426-002	POWER TRANSF		P400UF,P400UP
△	88	QQT0426-003	POWER TRANSF		P400US,P400UT,P400UW
	89	LV43268-001A	CCC LABEL		P400UF
	90	E70891-001	CLASS 1 LABEL		P400UP,P400UT
△	91	QMF51W2-R63-J8	FUSE	F 1002	P400US,P400UT,P400UW
	92	GV30497-017A	UT LABEL		P400UT
	92	GV30230-010A	UP LABEL		P400UP

Speaker assembly and parts list

Block No. **M** **2** **M** **M**

(US,UP,UT,UW)



Speaker (US,UP,UT,UW)

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	UP4-BK-00-01	SARAN BOARD	(x2)	
2	UP4-MK-00-01	MARK	(x2)	
3	UP4-WO-00-01	CONE SPEAKER	(x2)	
4	UP4-ML-00-01	TAPPING SCREW	(x8)	
5	UP4-JD-00-01	RUBBER MAT	(x8)	
6	UP4-HT-02-01	RATING LABEL	(x2)	

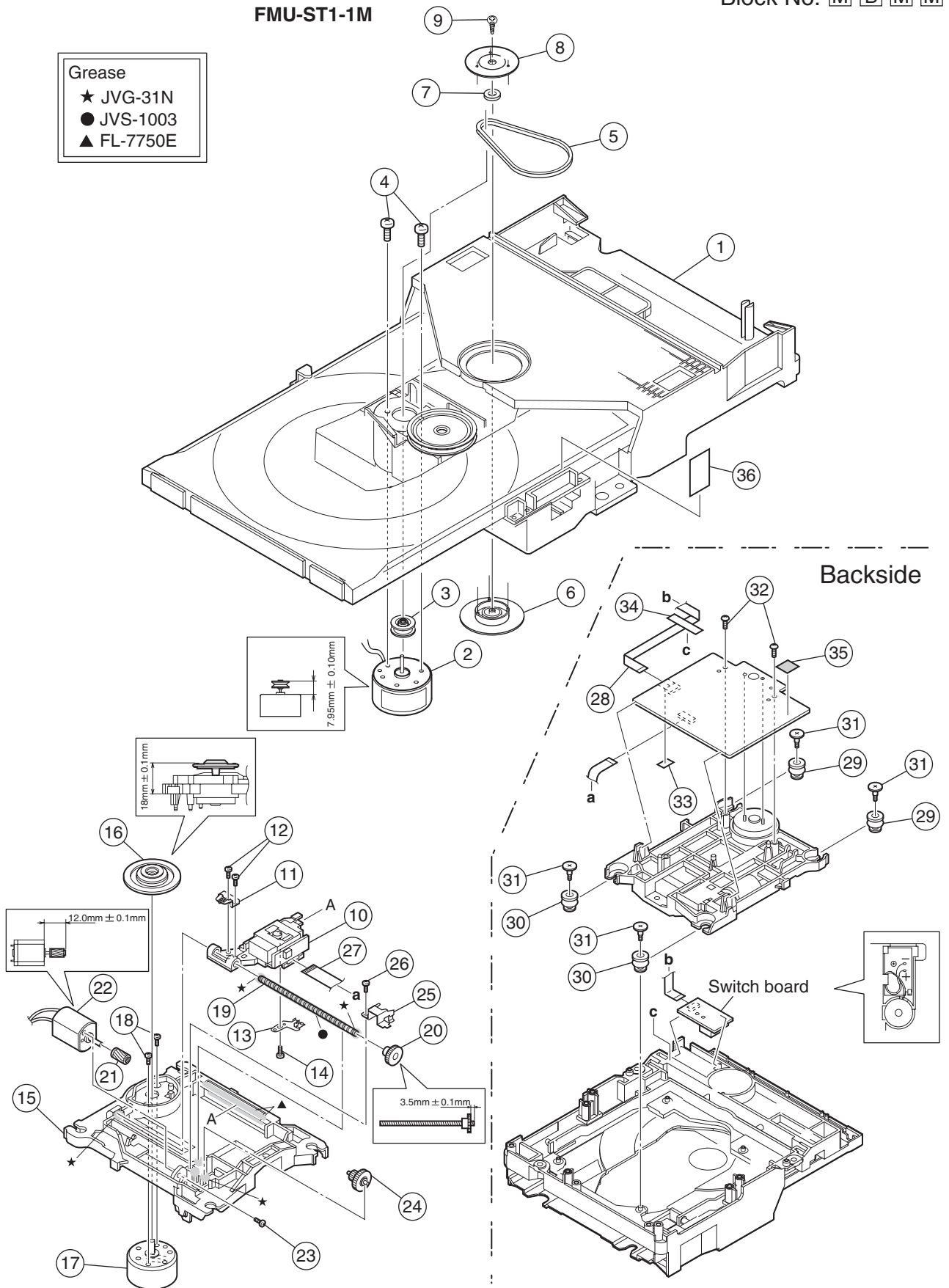
CD mechanism assembly and parts list

Block No. M B M M

FMU-ST1-1M

Grease

- ★ JVG-31N
- JVS-1003
- ▲ FL-7750E



CD mechanism

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

Symbol No.	Part No.	Part Name	Description	Local
1	LE10283-014A	LOADER SUB ASSY		
2	QAR0197-001	MOTOR		
3	LV42087-002A	MOTOR PULLEY		
4	QYSPSPU1730Z	SCREW	M1.7 x 3mm(x2)	
5	LE40897-001A	BELT		
6	LV34586-001A	CD CLAMPER		
7	LV42930-003A	P.C.MAGNET		
8	LE40899-001A	YOKE		
9	LV41741-001A	SPECIAL SCREW		
10	OPTIMA-725B2	CD PICK UP		
11	LV34564-001A	RACK ARM		
12	QYSPSPT1720M	SCREW	M1.7 x 2mm(x2)	
13	LV31744-001A	P.S.SPRING		
14	QYSPSGT1425M	TAP SCREW	1.4mm x 2.5mm	
15	LV10855-001A	TM CHASSIS		
16	LV43468-001A	T.T ASSY		
17	QAR0302-001	SPINDLE MOTOR		
18	VKZ4743-001	SPECIAL SCREW	(x2)	
19	LV40157-001A	SCREW SHAFT		
20	LV43651-001A	SS GEAR		
21	LV43650-001A	F MOTOR GEAR		
22	QAR0303-001	FEED MOTOR		
23	QYSPSPT2030M	SCREW	M2 x 3mm	
24	LV34565-002A	F MIDDLE GEAR		
25	LV34563-001A	SHAFT HOLDER		
26	QYSPSFT1740Z	TAP SCREW	M1.7 x 4mm	
27	QUQ105-1506BB	FFC		
28	LV43805-001A	FFC		
29	LE40900-003A	INSULATOR	(x2)	
30	LE40900-004A	INSULATOR	(x2)	
31	LE40901-001A	SPECIAL SCREW	(x4)	
32	QYSBSF2006Z	TAP SCREW	M2 x 6mm(x2)	
33	VYSH101-034	SPACER		
34	LV30225-096A	SPACER		
35	LV30225-073A	SPACER		
36	LV43828-001A	SPACER		

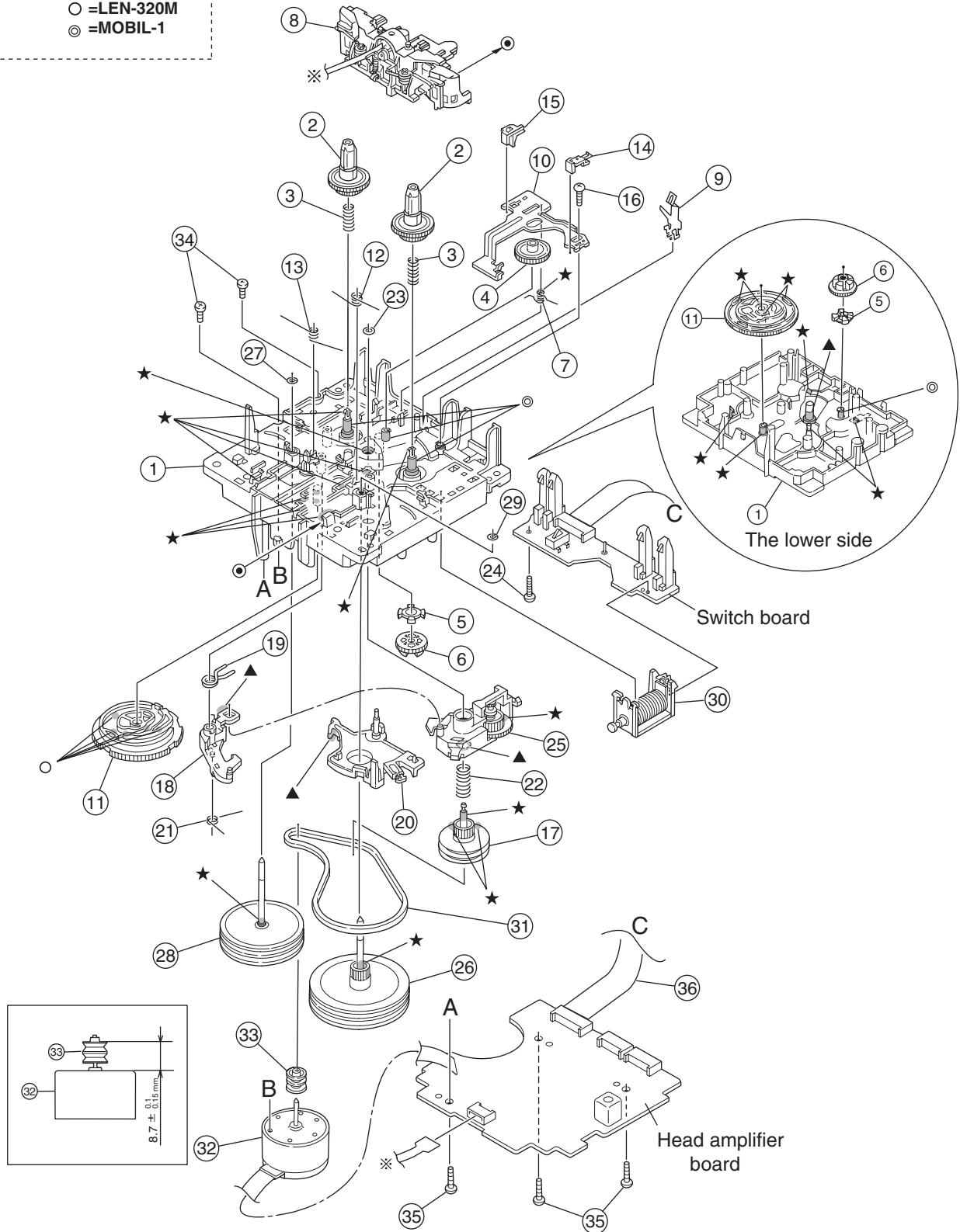
Cassette mechanism assembly and parts list

Block No. M P M M

SLC-S303M

Grease

- ★ =EM-30L
- ▲ =UD-24
- =LEN-320M
- ◎ =MOBIL-1



Cassette mechanism

Block No. [M][P][M][M]

Symbol No.	Part No.	Part Name	Description	Local
1	VKS1165-00N	CHASSIS B. ASSY		
2	VKS2274-002	REEL GEAR	(x2)	
3	VKW5286-002	B.T. SPRING	(x2)	
4	VKS5559-001	PLAY IDLE GEAR		
5	VKS5595-002	BLIND		
6	VKS5560-003	FR IDLE GEAR		
7	LV42013-001A	EARTH SPRING		
8	SLC303HMB-1	HEAD MOUNT ASSY		
9	VKY3149-002	CASSETTE SP.		
10	LV31786-002A	PLAY LEVER		
11	VKS1166-003	CONTROL CAM		
12	VKW5279-002	HEAD BASE SP(R)		
13	VKW5280-001	HEAD BASE SP(L)		
14	LV41584-001A	BRAKE(R)		
15	LV41585-003A	BRAKE(L)		
16	QYSBSF2005Z	SCREW	2mm x 5mm	
17	VKS5603-00G	MAIN PULLEY ASS		
18	VKS3785-001MM	FR ARM		
19	VKW5284-002	SWING SPRING		
20	VKS2278-003	TRIGGER ARM		
21	VKW5301-001	FR SPRING		
22	VKW5266-001	ELEVATOR SPRING		
23	WDL214025	WASHER		
24	QYSBSF2005Z	SCREW	2mm x 5mm	
25	VKS3786-00G	CLUTCH ASSY		
26	VKF3205-00B	F.WHEEL ASSY(R)		
27	WDL183425	SLIT WASHER		
28	VKF3207-00C	F.WHEEL ASSY(L)		
29	WDL173525-6	SLIT WASHER		
30	VKZ3174-00B	DC SOLENOID		
31	LV42836-001A	CAPSTAN BELT		
32	QAR0309-001	D.C.MOTOR		
33	VKR4761-003	MOTOR PULLEY		
34	QYSPSP2604Z	SCREW	2.6mm x 4mm(x2)	
35	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x3)	
36	QUQH12-0906BF	WIRE		

Electrical parts list

Main board

Block No. [0][1][0][0]

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC200	LC75342M-X	IC			C2104	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
IC202	JCV8011-X	IC			C2106	QTE1E28-106Z	E CAPACITOR	10uF 25V	
IC240	KIA7810API	IC			C2107	QTE1E28-106Z	E CAPACITOR	10uF 25V	
IC241	PQ033RD01SZ	IC			C2108	QFLC1HJ-272Z	M CAPACITOR	2700pF 50V J	
IC701	MN101C49GFL2	MASK ROM			C2109	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
IC703	BD4740G-W	IC			C2110	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
IC705	KIA78S06P-T	IC			C2116	QTE1H28-105Z	E CAPACITOR	1uF 50V	
					C2121	QTE1H28-106Z	E CAPACITOR	10uF 50V	
					C2122	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C2123	QTE1H28-106Z	E CAPACITOR	10uF 50V	
Q2200	2SC3576-JVC-T	TRANSISTOR			C2132	QFLC1HJ-222Z	M CAPACITOR	2200pF 50V J	
Q2220	2SD601A/R/-X	TRANSISTOR			C2180	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
Q2221	UN2111-X	TRANSISTOR			C2181	QDXB1CM-332Y	C CAPACITOR	3300pF 16V M	
Q2410	KTC2026/Y/	TRANSISTOR			C2200	QTE1C06-107Z	E CAPACITOR	100uF 16V	
Q7001	UN2214-X	TRANSISTOR			C2201	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
Q7002	UN2215-X	TRANSISTOR			C2202	QTE1C06-107Z	E CAPACITOR	100uF 16V	
Q7146	UN2215-X	TRANSISTOR			C2203	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
Q7154	2SD601A/R/-X	TRANSISTOR			C2204	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q7158	2SD601A/R/-X	TRANSISTOR			C2220	QTE1C06-476Z	E CAPACITOR	47uF 16V	
Q7161	UN2211-X	TRANSISTOR			C2221	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
Q7162	UN2211-X	TRANSISTOR			C2222	QFLC1HJ-273Z	M CAPACITOR	0.027uF 50V J	
Q7246	UN2211-X	TRANSISTOR			C2223	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q7300	2SB709A/RS/-X	TRANSISTOR			C2224	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
Q7301	UN2215-X	TRANSISTOR			C2225	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q7302	KRC110M-T	TRANSISTOR			C2226	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q7320	2SB709A/RS/-X	TRANSISTOR			C2227	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q7321	UN2215-X	TRANSISTOR			C2228	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q7340	2SD601A/R/-X	TRANSISTOR			C2229	QETN1HM-224Z	E CAPACITOR	0.22uF 50V M	
Q7360	2SB709A/RS/-X	TRANSISTOR			C2230	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q7361	UN2215-X	TRANSISTOR			C2231	QETN1HM-684Z	E CAPACITOR	0.68uF 50V M	
					C2232	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D2400	MTZJ11C-T2	Z DIODE			C2233	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
D2401	1SS133-T2	DIODE			C2274	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D2402	1N4003S-T5	SI DIODE			C2280	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
D2403	1N4003S-T5	SI DIODE			C2282	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
D2410	MTZJ3.9B-T2	Z DIODE			C2400	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
D2411	1SS133-T2	DIODE			C2401	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
D2413	MTZJ6.8C-T2	Z DIODE			C2410	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D7001	1SS133-T2	DIODE			C2411	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
D7002	1SS133-T2	DIODE			C2412	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
D7003	MTZJ5.1A-T2	Z DIODE			C2413	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
D7062	1SS133-T2	DIODE			C2414	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
D7161	1SS133-T2	DIODE			C7001	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D7300	1SS133-T2	DIODE			C7002	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
D7301	1SS133-T2	DIODE			C7004	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
D7320	1SS133-T2	DIODE			C7005	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
D7340	1N4003S-T5	SI DIODE			C7006	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
D7341	1SS133-T2	DIODE			C7007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D7350	MTZJ6.2C-T2	Z DIODE			C7008	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
D7351	1SS133-T2	DIODE			C7009	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
D7352	1SS133-T2	DIODE			C7103	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
D7353	1SS133-T2	DIODE			C7112	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
D7354	1SS133-T2	DIODE			C7113	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
					C7180	QCBB1HK-151Y	C CAPACITOR	150pF 50V K	
C2000	QCBB1HK-221Y	C CAPACITOR	220pF 50V K		C7181	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C2001	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7182	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C2002	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7320	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2003	QTE1H28-106Z	E CAPACITOR	10uF 50V		C7340	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2004	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7350	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C2006	QTE1E28-106Z	E CAPACITOR	10uF 25V		C7351	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2007	QTE1E28-106Z	E CAPACITOR	10uF 25V		C7352	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2008	QFLC1HJ-272Z	M CAPACITOR	2700pF 50V J		C7353	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2009	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C7367	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2010	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C7371	QCBB1HK-561Y	C CAPACITOR	560pF 50V K	
C2016	QTE1H28-105Z	E CAPACITOR	1uF 50V		C7372	QCBB1HK-561Y	C CAPACITOR	560pF 50V K	
C2021	QTE1H28-106Z	E CAPACITOR	10uF 50V						
C2023	QTE1H28-106Z	E CAPACITOR	10uF 50V		R2000	QRE141J-303Y	C RESISTOR	30kΩ 1/4W J	
C2032	QFLC1HJ-222Z	M CAPACITOR	2200pF 50V J		R2001	QRE141J-303Y	C RESISTOR	30kΩ 1/4W J	
C2080	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z		R2002	QRE141J-912Y	C RESISTOR	9.1kΩ 1/4W J	
C2081	QDXB1CM-332Y	C CAPACITOR	3300pF 16V M		R2003	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
C2100	QCBB1HK-221Y	C CAPACITOR	220pF 50V K		R2004	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
C2101	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R2006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C2102	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R2007	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
C2103	QTE1H28-106Z	E CAPACITOR	10uF 50V		R2008	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R2010	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J		R7151	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2012	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		R7152	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2013	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		R7153	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2020	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R7154	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2021	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7155	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R2022	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R7156	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2079	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R7160	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2100	QRE141J-303Y	C RESISTOR	30kΩ 1/4W J		R7161	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2101	QRE141J-303Y	C RESISTOR	30kΩ 1/4W J		R7162	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2102	QRE141J-912Y	C RESISTOR	9.1kΩ 1/4W J		R7173	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2103	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		R7177	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2104	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J		R7180	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7181	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2107	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J		R7182	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2108	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		R7183	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2112	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		R7184	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2113	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		R7185	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2120	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R7186	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2121	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7187	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2122	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R7202	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2179	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R7203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2200	QRE141J-471Y	C RESISTOR	470Ω 1/4W J		R7204	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2201	QRE141J-101Y	C RESISTOR	100Ω 1/4W J						
R2202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R2203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R7205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2220	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J						P400 UF,P4 00UP, P400 US,P4 00UT P400 UW
R2221	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J						
R2222	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R7205	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2223	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J		R7207	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2224	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R7208	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2225	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J		R7221	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2226	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R7228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2227	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		R7229	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2228	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J		R7243	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2229	QRE141J-101Y	C RESISTOR	100Ω 1/4W J		R7246	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2410	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J		R7252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2411	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		R7261	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2710	QRE141J-151Y	C RESISTOR	150Ω 1/4W J		R7262	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2711	QRE141J-151Y	C RESISTOR	150Ω 1/4W J		R7280	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7001	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R7282	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7002	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7283	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R7300	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7301	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7005	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R7302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7006	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R7320	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7045	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7046	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R7340	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R7049	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7341	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R7060	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R7342	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7061	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7360	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7062	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R7361	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7102	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R7103	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		L2080	QQR0797-002	COIL		
R7104	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		L2180	QQR0797-002	COIL		
R7105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L2710	QLL231K-470Y	COIL	47uH K	
R7106	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		L2711	QLL231K-470Y	COIL	47uH K	
R7107	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		L2712	QLL231K-470Y	COIL	47uH K	
R7108	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		L7001	QLL231K-100Y	COIL	10uH K	
R7109	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R7118	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		B2900	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7119	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		B2901	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7120	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		B7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7121	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		B7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7122	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		B7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7123	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		B7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7124	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		B7017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		B7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	P400 UW
R7126	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R7127	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN200	QGB2510J1-07	CONNECTOR	B-B (1-7)	
R7128	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN210	QGF1205C1-11	CONNECTOR	FFC/FFC (1-11)	
R7129	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN221	QGF1016F1-17	CONNECTOR	FFC/FFC (1-17)	
R7131	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R7132	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R7135	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R7136	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R7145	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R7146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R7149	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local
CN271	QGA2501C1-05	CONNECTOR	W-B (1-5)	
CN700	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN701	QGF1205F1-10	CONNECTOR	FFC/FPC (1-10)	
CN702	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	
CN711	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN730	QGF1205C1-15	CONNECTOR	FFC/FPC (1-15)	
J200	QNN0420-001	SURROUND JACK		
J271	QNS0170-001	HEADPHONE JACK		
J280	QNB0038-001	SPK. TERMINAL		
K2070	QQR0621-001Z	COIL		
K2170	QQR0621-001Z	COIL		
K2503	NQR0339-001X	FERRITE BEADS		
K7001	QQR0621-001Z	COIL		
K7300	QQR0621-001Z	COIL		
PP9	QZW0038-001	WIRE CLAMP		
S2200	GV30349-006A	SPACER		
S2202	GV30349-006A	SPACER		
X7001	QAX0718-001Z	CRYSTAL	8.000000MHz	

Power board

Block No. [0][2][0][0]

△ Symbol No.	Part No.	Part Name	Description	Local
△ IC411	LA4628	IC		
IC750	NJU6433FG1	LCD DRIVER		
IC760	GP1UM261XK	IR DETECT UNIT	38kHz	
Q1001	KTC3199/GLJ-T	TRANSISTOR		
Q1002	KTC1027/OYI-T	TRANSISTOR		
Q1003	2SD1266/P/	TRANSISTOR		P400 US,P4 00UT, P400 UW
Q4121	2SC3576-JVC-T	TRANSISTOR		
Q4122	2SC3576-JVC-T	TRANSISTOR		
Q4123	KRA102M-T	DIGI TRANSISTOR		
Q4131	KRA109M-T	DIGI TRANSISTOR		
Q4132	KRA109M-T	DIGI TRANSISTOR		
Q4133	KRA109M-T	DIGI TRANSISTOR		
Q4134	KRA109M-T	DIGI TRANSISTOR		
△ Q4135	KRC109M-T	DIGI TRANSISTOR		
Q7600	KRC111M-T	TRANSISTOR		
△ D1001	1N5401-TM	SI DIODE		
△ D1002	1N5401-TM	SI DIODE		
△ D1003	1N5401-TM	SI DIODE		
△ D1004	1N5401-TM	SI DIODE		
△ D1005	6A10E2	SI DIODE		
△ D1006	6A10E2	SI DIODE		
△ D1007	6A10E2	SI DIODE		
△ D1008	6A10E2	SI DIODE		
D1013	MTZJ6.2C-T2	Z DIODE		
D1014	1N4003S-T5	SI DIODE		
D1015	1SS133-T2	DIODE		
D1018	MTZJ11C-T2	Z DIODE		P400 US,P4 00UT, P400 UW
D7500	SELU1E54CM-S	LED		
D7601	SPR-39MWWF	LED	RED-GREEN	
D7602	1SS133-T2	DIODE		
D7603	1SS133-T2	DIODE		
C1001	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1002	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1003	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1004	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1005	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1006	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1007	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1008	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C1013	QDXB1CM-472Y	C CAPACITOR	4700pF 16V M	
C1014	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C1015	QETM1EM-108	E CAPACITOR	1000uF 25V M	P400 UF,P4 00UP
C1015	QETN1JM-477Z	E CAPACITOR	470uF 63V M	P400 US,P4 00UT, P400 UW
△ C1016	QCZ9105-472	C CAPACITOR	4700pF 250V M	P400 US,P4 00UT, P400 UW
C1017	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J	
C4001	QETM1EM-478	E CAPACITOR	4700uF 25V M	
C4101	QETM1EM-828	E CAPACITOR	8200uF 25V M	
C4102	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4103	QTE1H28-105Z	E CAPACITOR	1uF 50V	
C4107	QETN1AM-336Z	E CAPACITOR	33uF 10V M	
C4108	QTE1H28-105Z	E CAPACITOR	1uF 50V	
C4109	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C4110	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C4111	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C4112	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C4113	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C4114	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C4115	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C4117	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C4118	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C4121	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4131	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M	
C4132	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M	
C7500	QEK1AM-107Z	E CAPACITOR	100uF 10V M	
C7505	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C7600	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C7601	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C7602	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C7603	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
R1001	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R1002	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
△ R1004	QRZ9042-2R2X	F RESISTOR	2.2Ω	P400 US,P4 00UT, P400 UW
R1005	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	P400 US,P4 00UT, P400 UW
R1006	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J	P400 US,P4 00UT, P400 UW
R4101	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R4102	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R4103	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R4104	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R4105	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R4106	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R4107	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R4108	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R4121	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R4122	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R4123	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R4131	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R4132	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R4133	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R4134	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R7500	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7501	QRE141J-134Y	C RESISTOR	130kΩ 1/4W J	
R7502	QRE141J-241Y	C RESISTOR	240Ω 1/4W J	
R7601	QRE141J-161Y	C RESISTOR	160Ω 1/4W J	
R7602	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7603	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7604	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J	
R7605	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
R7606	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R7607	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R7609	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R7610	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7611	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J	
R7612	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
R7613	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R7614	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
△ L1001	QQR1145-001	COIL		P400 UP
△ T1002	QQT0253-002	POWER TRANSF		P400 UF,P4 00UP
△ T1002	QQT0370-011	POWER TRANSF		P400 US,P4 00UT, P400 UW
△ CN101	QGA7901C1-02	CONNECTOR	W-B (1-2)	
△ CN102	QGA7901C1-02	CONNECTOR	W-B (1-2)	P400 UF,P4 00UP
△ CN102	QGA7901C1-03	CONNECTOR	W-B (1-3)	P400 US,P4 00UT, P400 UW
CN103	QGA3901C1-04	CONNECTOR	W-B (1-4)	
CN104	QGB2510J1-10	CONNECTOR	B-B (1-10)	
△ CN105	QGA7901C1-04	CONNECTOR	W-B (1-4)	P400 US,P4 00UT, P400 UW
CN401	QGB2510K2-07	CONNECTOR	B-B (1-7)	
CN402	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN403	QGB2510K2-10	CONNECTOR	B-B (1-10)	
CN750	QGF1205F1-15	CONNECTOR	FFC/FPC (1-15)	
CN751	QGF1205F1-10	CONNECTOR	FFC/FPC (1-10)	
CN760	QGF1205F1-10	CONNECTOR	FFC/FPC (1-10)	
DI750	QLD0312-001	LCD MODULE		
JS760	QSW1060-001	ROTARY SW		
△ RY101	QSK0124-001	RELAY		
△ S1001	QSW0812-001	VOLTAGE SWITCH		P400 US,P4 00UT, P400 UW
S7600	QSW0825-001Z	TACT SW		
S7601	QSW0825-001Z	TACT SW		
S7602	QSW0825-001Z	TACT SW		
S7603	QSW0825-001Z	TACT SW		
S7604	QSW0825-001Z	TACT SW		
S7605	QSW0825-001Z	TACT SW		
S7606	QSW0825-001Z	TACT SW		
S7607	QSW0825-001Z	TACT SW		
S7608	QSW0825-001Z	TACT SW		
S7609	QSW0825-001Z	TACT SW		
S7610	QSW0825-001Z	TACT SW		
S7611	QSW0825-001Z	TACT SW		
Z1001	QNG0003-001Z	FUSE CLIP		
Z1002	QNG0003-001Z	FUSE CLIP		
Z1003	QNG0003-001Z	FUSE CLIP		P400 US,P4 00UT, P400 UW
Z1004	QNG0003-001Z	FUSE CLIP		P400 US,P4 00UT, P400 UW
Z1007	QNG0003-001Z	FUSE CLIP		
Z1008	QNG0003-001Z	FUSE CLIP		
Z1009	QNG0003-001Z	FUSE CLIP		
Z1010	QNG0003-001Z	FUSE CLIP		

Block No. [0][3][0][0]

△ Symbol No.	Part No.	Part Name	Description	Local
IC201	BR24L08FV-W-X	IC		
IC251	MN101C61GNA	IC		
IC601	AN22002A-W	IC		
IC651	MN6627934CH	IC		
IC671	A42L2604V-45L	IC		
IC681	SN74AHC1G32DC-X	IC		
IC682	SN74LV08APW-X	IC		
IC801	LA6575H-X	IC		
Q291	2SB1424/QR/-W	TRANSISTOR		
Q631	2SA1037AK/RS/-X	TRANSISTOR		
Q851	2SB1424/QR/-W	TRANSISTOR		
D601	1SS355-X	SI DIODE		
C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C252	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C253	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C259	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C291	QERF0JM-226Z	E CAPACITOR	22uF 6.3V M	
C603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C605	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C606	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C609	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C610	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C614	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C615	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C616	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C622	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C624	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C631	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C633	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C641	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C651	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C653	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C655	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C657	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C659	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C661	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C662	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C663	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C664	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C665	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C666	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C667	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C669	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C672	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C673	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C674	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C675	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C676	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C677	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C678	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C681	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C690	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C801	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C802	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C803	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C804	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C805	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C806	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C850	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C851	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
R253	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

CD servo board

△ Symbol No.	Part No.	Part Name	Description	Local
R255	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R256	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R258	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R265	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R271	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R274	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R278	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R285	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R286	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R287	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R288	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R293	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R294	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R295	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R296	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R297	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R298	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R601	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R602	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R603	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R604	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R607	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R608	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R611	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R613	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R617	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R631	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R632	NRSA63J-3R9X	MG RESISTOR	3.9Ω 1/16W J	
R634	NRSA63J-3R9X	MG RESISTOR	3.9Ω 1/16W J	
R635	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R636	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R651	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R654	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R655	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R656	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R657	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R658	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R659	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R661	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R662	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R665	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R666	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R667	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R668	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R669	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R671	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R672	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R673	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R674	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R675	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R676	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R678	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R679	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R681	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R682	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R801	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R803	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R805	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R806	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R807	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R809	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R811	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R812	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R814	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R815	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R816	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R821	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R851	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R852	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
CN601	QGF0527F2-15W	CONNECTOR	FFC/FPC (1-15)	
CN602	QGF1036F1-05	CONNECTOR	FFC/FPC (1-5)	
CN651	QGF1036F1-17	CONNECTOR	FFC/FPC (1-17)	
K251	NQR0007-002X	FERRITE BEADS		
K252	NQR0007-002X	FERRITE BEADS		
K654	NQR0007-002X	FERRITE BEADS		
SW601	QSW1047-001	PUSH SWITCH		
X251	QAX0684-001Z	C RESONATOR	8.38MHz	
X651	NAX0476-001X	CRYSTAL	33.8688MHz	

CD loading switch board

Block No. [0][4][0][0]

△ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1007-001	DETECT SWITCH		

Cassette switch board

Block No. [0][5][0][0]

△ Symbol No.	Part No.	Part Name	Description	Local
IC1	SG-105F3-BB,C	PHOTO SENSOR		
D1	1SR139-400-T2	SI DIODE		
R371	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
VR37	QVP0077-103Z	TRIM RESISTOR	10kΩ	
CN1	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	
FW100	QUM024-07A2Z3	PARA RIBON WIRE		
P1	QNZ0104-001	POST PIN		
SW1	QSW0832-001	CASS.SWITCH		
SW2	QSW0832-001	CASS.SWITCH		
SW5	QSW0832-001	CASS.SWITCH		
SW6	QSW0859-001	DETECT SWITCH		

Head amp. board

Block No. [0][6][0][0]

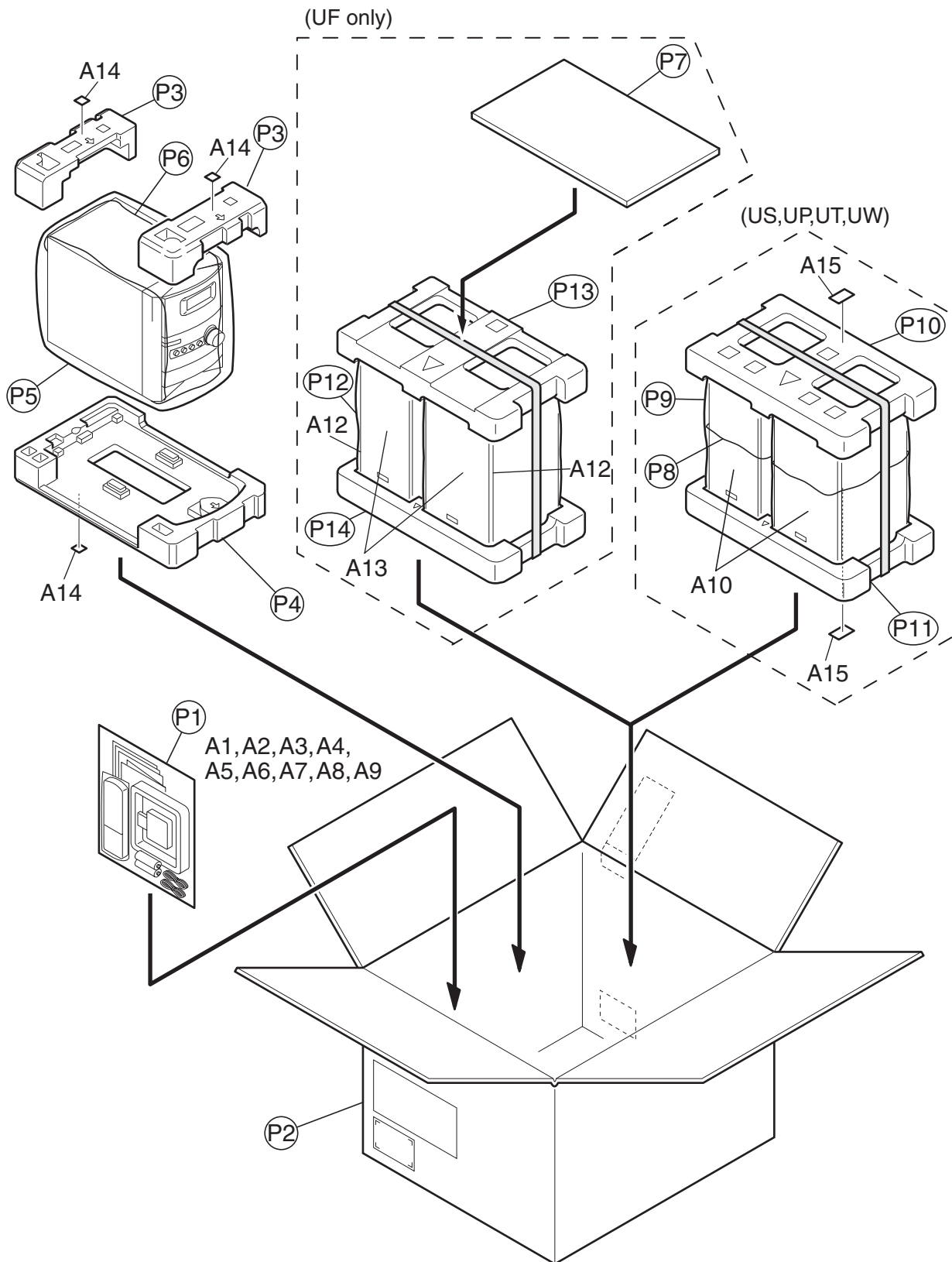
△ Symbol No.	Part No.	Part Name	Description	Local
IC32	HA12238F	IC		
IC33	CD4094BC	IC		
Q302	2SC2001/K/-T	TRANSISTOR		
Q305	2SC2001/K/-T	TRANSISTOR		
Q342	KRA111M-T	DIGI TRANSISTOR		
Q343	2SC3576-JVC-T	TRANSISTOR		
Q344	2SC3576-JVC-T	TRANSISTOR		
Q345	2SC3576-JVC-T	TRANSISTOR		
Q346	2SC3576-JVC-T	TRANSISTOR		
Q347	KRC107M-T	DIGI TRANSISTOR		
Q371	KTA1271/OY/-T	TRANSISTOR		
Q372	KRC107M-T	DIGI TRANSISTOR		
Q375	2SB562/C/-T	TRANSISTOR		
Q376	KTC3199/GL/-T	TRANSISTOR		
D340	MTZJ5.1B-T2	Z DIODE		
D375	MTZJ5.1B-T2	Z DIODE		
C101	QDGB1HK-821Y	C CAPACITOR	820pF 50V K	
C102	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C103	QFLA1HJ-104Z	M CAPACITOR	0.1uF 50V J		R341	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
C104	QCBB1HK-221Y	C CAPACITOR	220pF 50V K		R342	QRE141J-243Y	C RESISTOR	24kΩ 1/4W J	
C105	QCBB1HK-391Y	C CAPACITOR	390pF 50V K		R343	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	
C106	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		R344	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C107	QCBB1HK-271Y	C CAPACITOR	270pF 50V K		R345	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C109	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		R346	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C110	QDYB1CM-682Y	C CAPACITOR	6800pF 16V M		R347	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
C113	QFLA1HJ-104Z	M CAPACITOR	0.1uF 50V J		△ R353	QRZ9005-100X	FUSI RESISTOR	10Ω	
C120	QCSB1HK-4R7Y	C CAPACITOR	4.7pF 50V K		R372	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
C121	QCBB1HK-331Y	C CAPACITOR	330pF 50V K		R375	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
C201	QDGB1HK-821Y	C CAPACITOR	820pF 50V K		R376	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C202	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M		VR31	QVP0008-203Z	TRIM RESISTOR	20kΩ	
C203	QFLA1HJ-104Z	M CAPACITOR	0.1uF 50V J						
C204	QCBB1HK-221Y	C CAPACITOR	220pF 50V K		L301	QQR1118-002	OSC COIL(BIAS)		
C205	QCBB1HK-391Y	C CAPACITOR	390pF 50V K		L303	QQL244K-100Z	COIL	10uH K	
C206	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M						
C207	QCBB1HK-271Y	C CAPACITOR	270pF 50V K		CN31	QGF1205F1-06	CONNECTOR	FFC/FPC (1-6)	
C209	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		CN32	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	
C210	QDYB1CM-682Y	C CAPACITOR	6800pF 16V M		CN33	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	
C213	QFLA1HJ-104Z	M CAPACITOR	0.1uF 50V J		CN34	QGF1201F3-10	CONNECTOR	FFC/FPC (1-10)	
C220	QCSB1HK-4R7Y	C CAPACITOR	4.7pF 50V K		H32	GV40397-002A	IC HOLDER		
C221	QCBB1HK-331Y	C CAPACITOR	330pF 50V K						
C300	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M						
C301	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M						
C304	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M						
C306	FQETJ1AM-227Z	E CAPACITOR							
C307	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K						
C308	QDXB1CM-152Y	C CAPACITOR	1500pF 16V M						
C310	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K						
C313	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M						
C314	QCFB1HZ-105Y	C CAPACITOR	1uF 50V Z						
C316	QFG32AJ-223Z	PP CAPACITOR	0.022uF 100V J						
C319	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J						
C331	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M						
C340	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M						
C341	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M						
C342	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M						
C371	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M						
C374	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M						
C376	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M						
R101	QRE141J-512Y	C RESISTOR	5.1kΩ 1/4W J						
R102	QRE141J-512Y	C RESISTOR	5.1kΩ 1/4W J						
R104	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R105	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J						
R106	QRE141J-113Y	C RESISTOR	11kΩ 1/4W J						
R107	QRE141J-912Y	C RESISTOR	9.1kΩ 1/4W J						
R108	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J						
R110	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R116	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J						
R121	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R201	QRE141J-512Y	C RESISTOR	5.1kΩ 1/4W J						
R202	QRE141J-512Y	C RESISTOR	5.1kΩ 1/4W J						
R204	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R205	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J						
R206	QRE141J-113Y	C RESISTOR	11kΩ 1/4W J						
R207	QRE141J-912Y	C RESISTOR	9.1kΩ 1/4W J						
R208	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J						
R210	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R216	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J						
R221	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R301	QRE141J-221Y	C RESISTOR	220Ω 1/4W J						
R302	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R303	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
△ R304	QRJ146J-101X	UNF C RESISTOR	100Ω 1/4W J						
R305	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R306	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J						
△ R310	QRJ146J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J						
R313	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J						
R314	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R315	QRE141J-101Y	C RESISTOR	100Ω 1/4W J						
R327	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J						
R335	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R336	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J						
R337	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J						
R338	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J						
R339	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J						
R340	QRE141J-681Y	C RESISTOR	680Ω 1/4W J						

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Packing materials and accessories parts list

Block No. **M** **3** **M** **M**



Packing and accessories

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

△	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GVT0128-011A	INST BOOK	CHI(PEKIN)	P400UF
	A 1	GVT0128-010A	INST BOOK	KOR	P400UP
	A 1	GVT0128-008A	INST BOOK	ENG CHI(PEKIN)	P400US
	A 1	GVT0128-012A	INST BOOK	CHI(TAIWAN)	P400UT
	A 1	GVT0128-002A	INST BOOK	ENG SPA POR	P400UW
	A 2	QAL0014-001	AM LOOP ANT		
	A 3	QAL0457-001	ANT.WIRE		
△	A 4	QAM0112-002	PLUG ADAPTOR		P400US,P400UW
	A 5	RM-SUXP400U	REMOCON		
	A 6	-----	BATTERY	(x2)	
	A 7	BT-59019-1	WARRANTY CARD		P400UF
	A 7	BT-56013-1	WARRANTY CARD		P400UP
	A 8	BT-59021-2	SVC CENTRE LIST		P400UF
△	A 9	VMZ0139-001	CONTHI PLUG		P400UT
	A 10	UXP400E-SPBOX	SPEAKER BOX	(x2)	P400US,P400UP,P400UT,P400UW
	A 12	9910007721	NET ASSY	(x2)	P400UF
	A 13	UXP400K-SPBOX	SPEAKER BOX	(x2)	P400UF
	A 14	LV43644-001A	LABEL	(x3)	P400UP
	A 15	LV43644-001A	LABEL	(x2)	P400UP
	P 1	QPC02503515P	POLY BAG	25cm x 35cm	
	P 2	GV20291-001A	CARTON ASSY.		P400UF
	P 2	GV20267-006A	CARTON ASSY		P400UP,P400US,P400UT,P400UW
	P 3	GV10196-001A	CUSHION(TOP)		
	P 4	GV10197-001A	CUSHION(BTM)		
	P 5	QPC05006515P	POLY BAG	50cm x 65cm	
	P 6	GV40168-009A	MIRAMA SHEET		
	P 7	GV40237-005A	CARTON SPACER		P400UF
	P 8	UP4-KS-00-01	MIRROR MAT	(x2)	P400US,P400UP,P400UT,P400UW
	P 9	UP4-KO-00-01	POLY BAG	(x2)	P400US,P400UP,P400UT,P400UW
	P 10	UP4-KF-01-01	CUSHION(TOP)		P400US,P400UP,P400UT,P400UW
	P 11	UP4-KF-02-01	CUSHION(BOTTOM)		P400US,P400UP,P400UT,P400UW
	P 12	8500041601	POLY BAG	(x2)	P400UF
	P 13	8000055301	CUSHION(TOP)		P400UF
	P 14	8000055311	CUSHION(BOTTOM)		P400UF