

# JVC

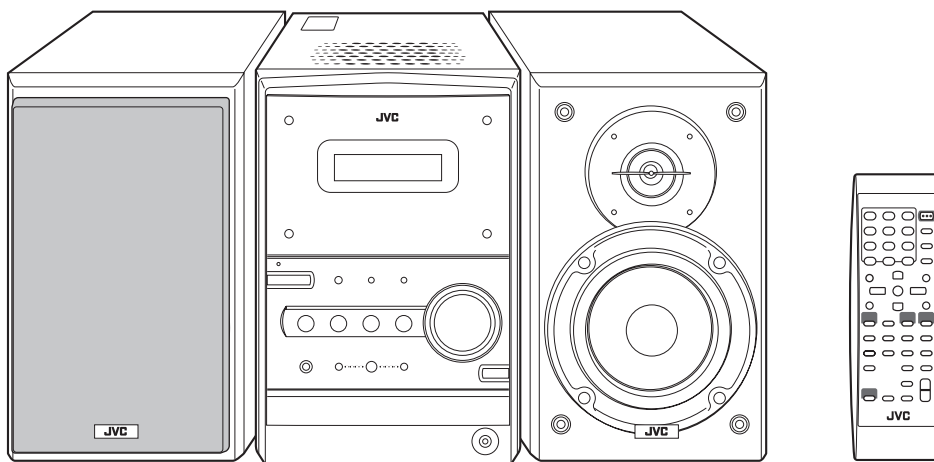
## SERVICE MANUAL

### COMPACT COMPONENT SYSTEM

# FS-P550

Area suffix

C ----- Canada



**AV COMPU LINK**

### TABLE OF CONTENTS

1	PRECAUTION.....	1-3
2	SPECIFIC SERVICE INSTRUCTIONS.....	1-6
3	DISASSEMBLY.....	1-7
4	ADJUSTMENT.....	1-25
5	TROUBLESHOOTING.....	1-31

## SPECIFICATION

Amplifier section	Output Power:80 W		HIGH:40 W (20 W + 20 W) at 4 Ω (10% THD)
			LOW:40 W (20 W + 20 W) at 4 Ω (10% THD)
	Audio Input		AUX:400 mV/50 kΩ
	Digital output		DVD OPTICAL DIGITAL OUT:-21 dBm to -15 dBm (660 nm ±30 nm)
	Video output		Color system:NTSC (interlaced/progressive)
	VIDEO (composite)		1 V(p-p)/75 Ω
	S-VIDEO		Y (luminance):1 V(p-p)/75 Ω
			C (chrominance, burst):0.286 V(p-p)/75 Ω
	COMPONENT		(Y):1 V(p-p)/75 Ω
(PB/PR):0.7 V(p-p)/75 Ω			
Speakers/Impedance		4Ω - 16Ω	
Tuner section	FM tuning range		87.5 MHz - 108.0 MHz
	AM (MW) tuning range		530 kHz - 1 710 kHz
Disc player section	Playable disc		DVD Video/DVD Audio CD/VCD/SVCD CD-R/CD-RW (CD/SVCD/VCD/MP3/WMA/JPEG format) DVD-R/DVD-RW (Video format)
	Dynamic range		90 dB
	Horizontal resolution		500 lines
	Wow and flutter		Immeasurable
Speakers	Speaker units	HIGH	4 cm (1 5/8 in.) cone × 1
		LOW	10 cm (3 15/16 in.) cone × 1
	Impedance	HIGH	4Ω
		LOW	4Ω
	Dimensions (approx.)		145 mm × 230 mm × 202 mm (5 3/4 in. × 9 1/16 in. × 8in.) (W/H/D)
	Mass (approx.)		2.2 kg (4.9 lbs) each
General	Power requirement		AC 120 V , 60 Hz
	Power consumption		90 W (at operation) 1.8 W (on standby)
	Dimensions (approx.)		170 mm × 230 mm × 311 mm (6 3/4 in. × 9 1/16 in. × 12 1/4in.) (W/H/D)
	Mass (approx.)		5.0 kg (11.1 lbs)

Designs and Specifications are subject to change without notice.

# SECTION 1 PRECAUTION

## 1.1 Safety Precautions

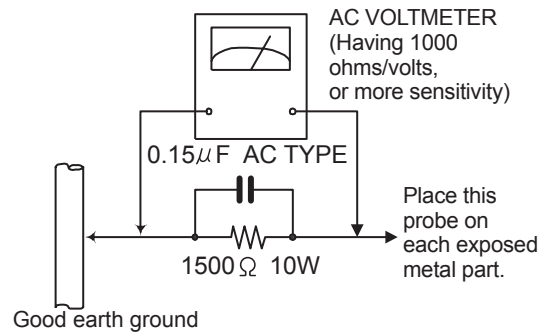
- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in 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 ( $\Delta$ ) 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 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1,500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ 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 " $\Delta$ " 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

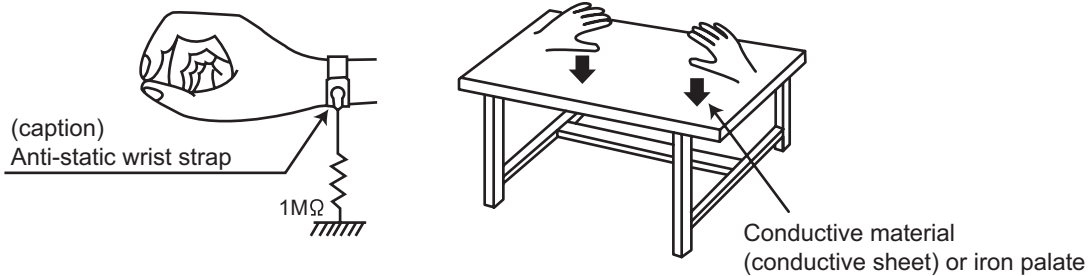
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

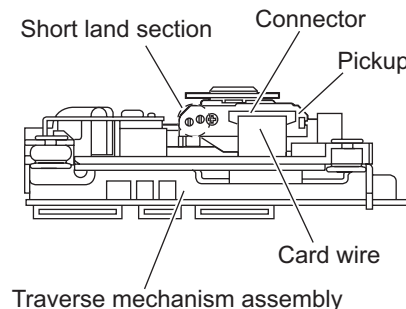
## 1.6 Handling the traverse unit (optical pickup)

- (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

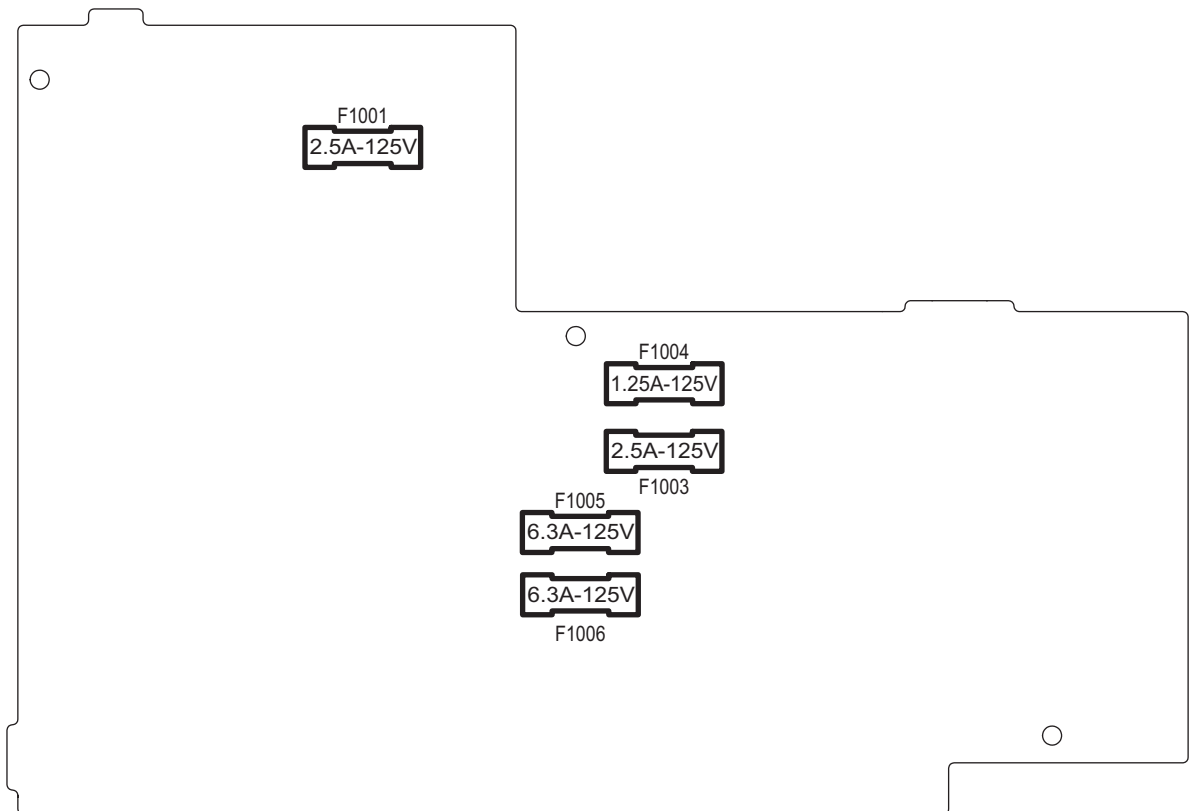
**\*Please refer to "Disassembly method" in the text for the pickup unit.**

- 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.

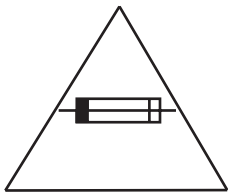


## 1.8 Importance administering point on the safety

### Power supply board



### For USA and Canada / pour Etats - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 2.5 A/125 V for F1001 and F1003, 1.25 A/125 V for F1004, 6.3 A/125 V for F1005 and F1006.

This symbol specifies the type of fast operating fuse.

Précaution: Pour la protection continue contre les risques d'incendie, remplacer uniquement par le même type: fusible 2,5 A/125 V pour les F1001 et F1003, 1,25 A/125 V pour le F1004, et 6,3 A/125 V pour les F1005 et F1006.

Ce symbole spécifie le type de fusible à action rapide.

## **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 panel in the direction of the arrow. (See Figs.3 and 4.)
- (4) Remove the side panels L/R toward this side.

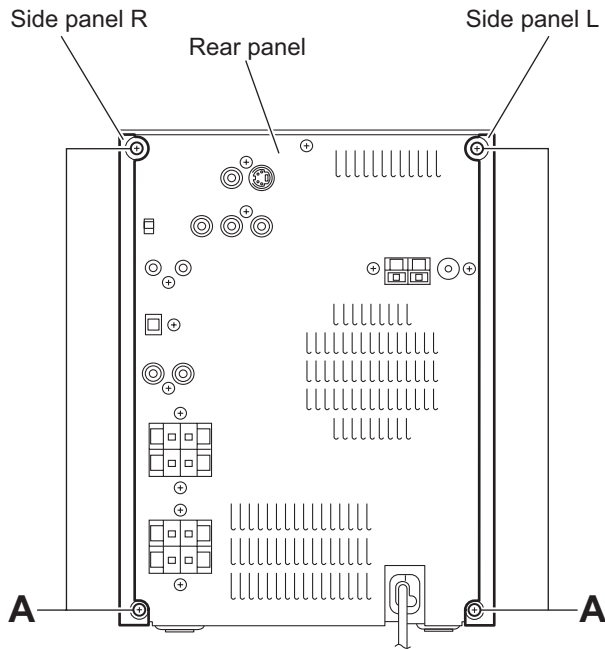


Fig.1

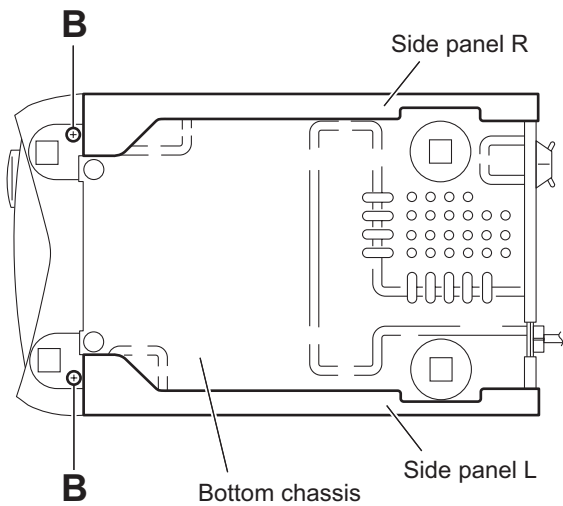


Fig.2

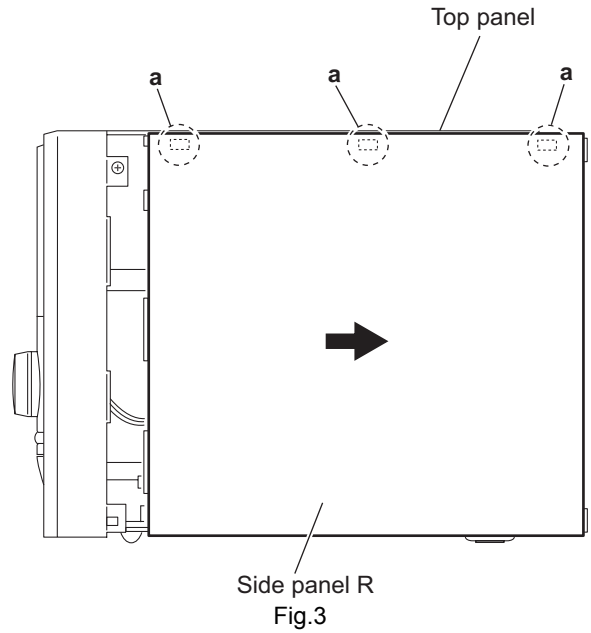


Fig.3

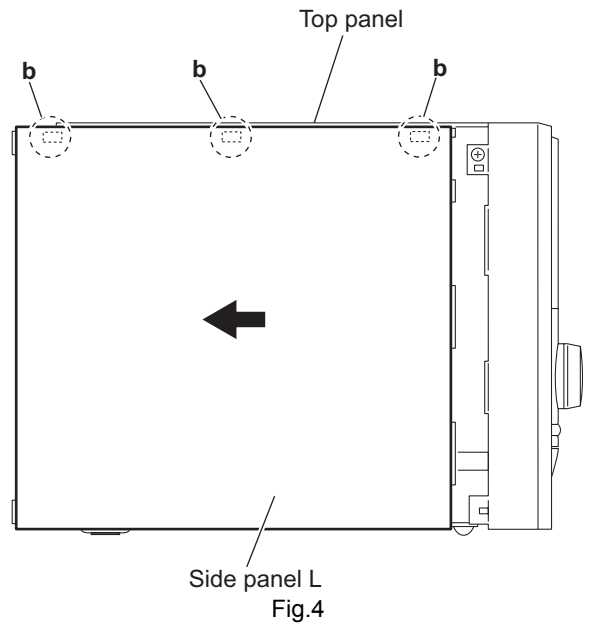
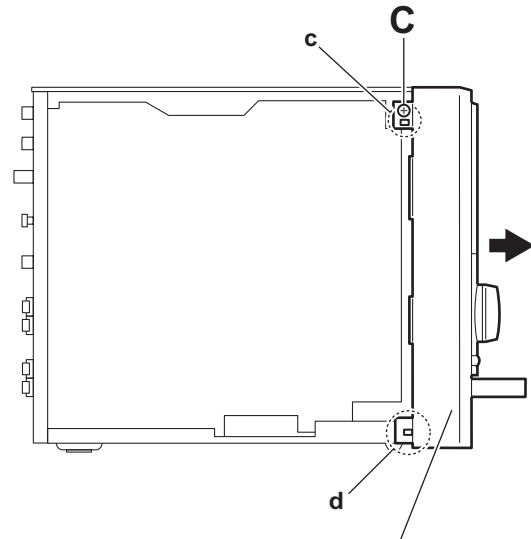


Fig.4

### 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 assembly out of the main body in the direction of the arrow 1. (See Fig.5.)
  - (2) Remove the tray fitting from the tray assembly 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 **CN270** 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

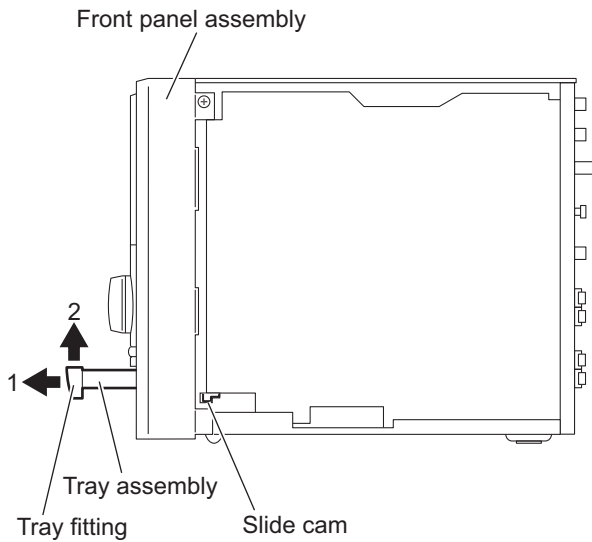
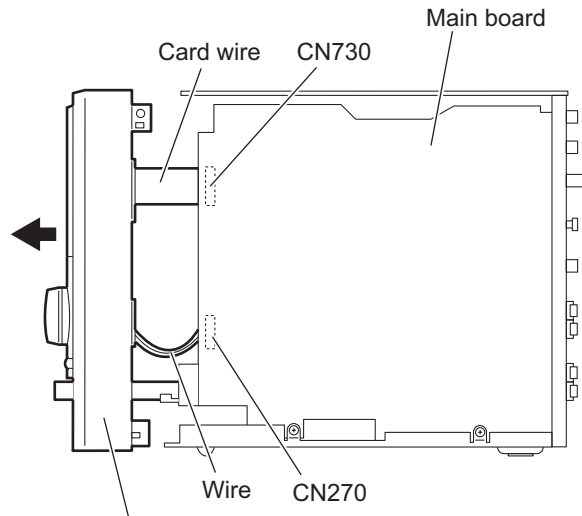
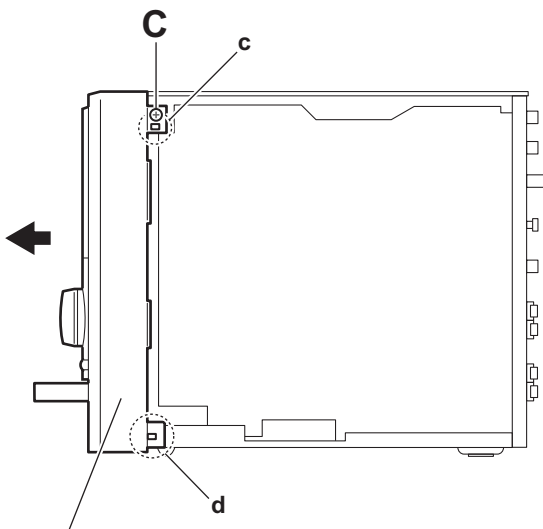


Fig.5



Front panel assembly  
Fig.8



Front panel assembly  
Fig.6



### 3.1.3 Removing the top panel (See Fig.9)

- 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 panel to the rear panel.
  - (2) Take out the top panel from the main body.

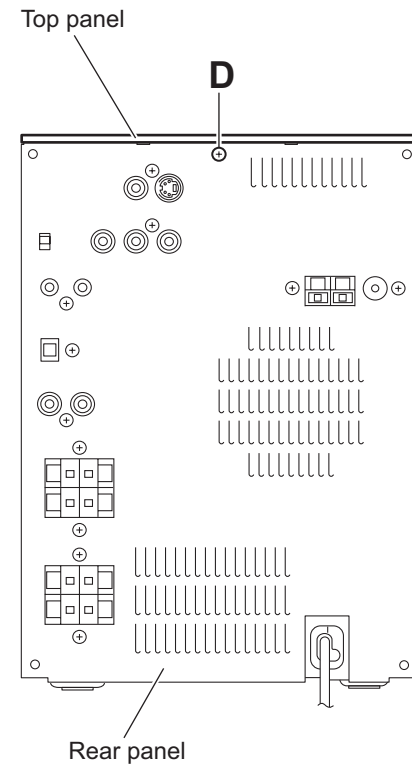
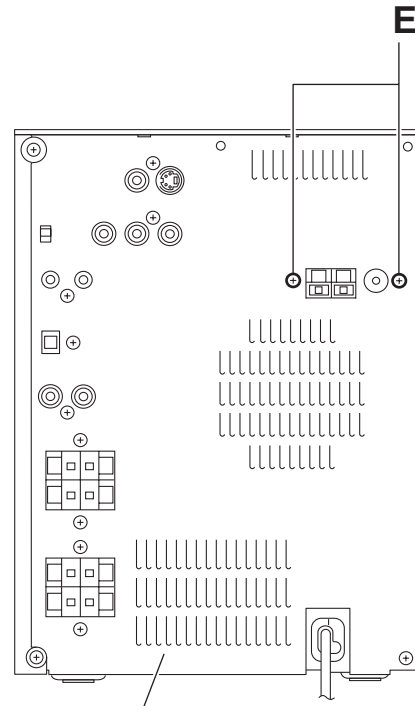


Fig.9

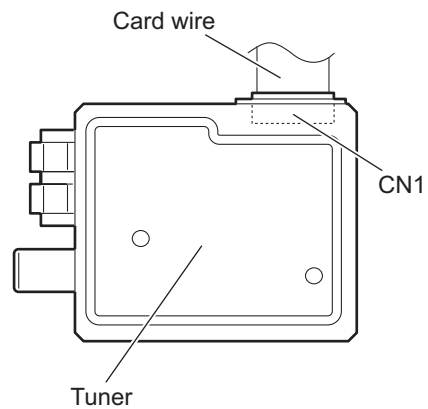
### 3.1.4 Removing the tuner (See Figs.10 and 11)

- Prior to performing the following procedures, remove the side panel L.
  - (1) From the back side of the main body, remove the two screws **E** attaching the tuner to the rear panel. (See Fig.10.)
  - (2) Disconnect the card wire from the connector **CN1** on the tuner. (See Fig.11.)



Rear panel

Fig.10



Tuner

Fig.11

### 3.1.5 Removing the rear panel (See Fig.12)

- Prior to performing the following procedures, remove the side panels L/R.
  - (1) From the back side of the main body, remove the twelve screws **F** attaching the rear panel.
  - (2) Release the engagement sections **e** and remove the rear panel.

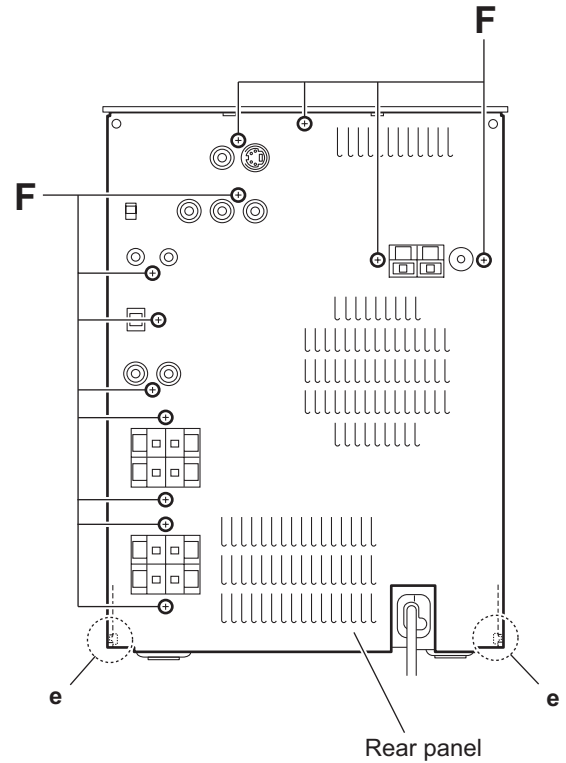


Fig.12

### 3.1.6 Removing the video board (See Fig.13)

- Prior to performing the following procedures, remove the side panels L/R and rear panel.
  - (1) From the forward side of the video board, disconnect the card wires from connector [CN300](#).
  - (2) Disconnect the wire to the connector [CN301](#) on the video board.

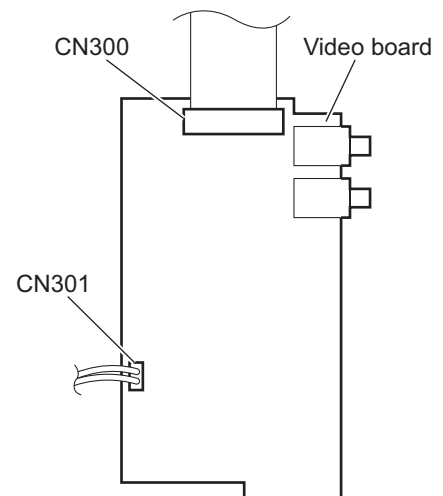


Fig.13

### 3.1.7 Removing the fan (See Fig.14)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top panel and rear panel.
  - (1) From the front side of the main body, remove the two screws **G** attaching the fan bracket to the heat sink B.
  - (2) Remove the two screws **H** attaching the fan to the fan bracket.

#### Reference:

- Remove the tuner and video board as required. (See Figs.10, 11, and 13)
- When attaching the screws **H**, attach the wire holders with them.

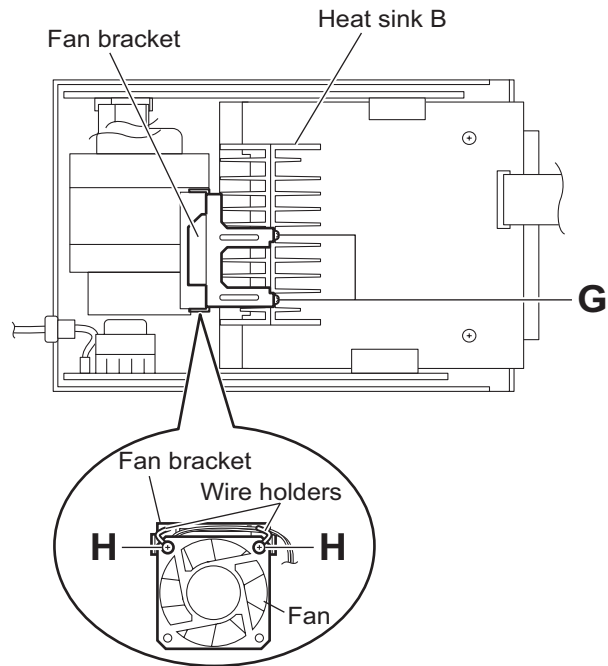


Fig.14

### 3.1.8 Removing the main board (See Fig.15)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top panel, tuner, rear panel and video board.
  - (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**, **CN220**, **CN720**).

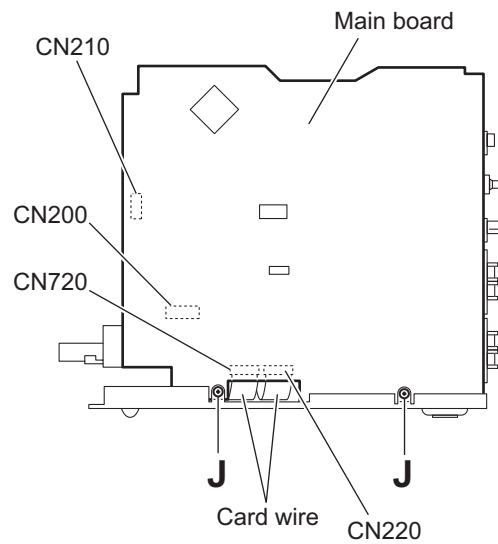


Fig.15

### 3.1.9 Removing the power supply board (See Fig.16)

- 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](#)).

#### Reference:

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

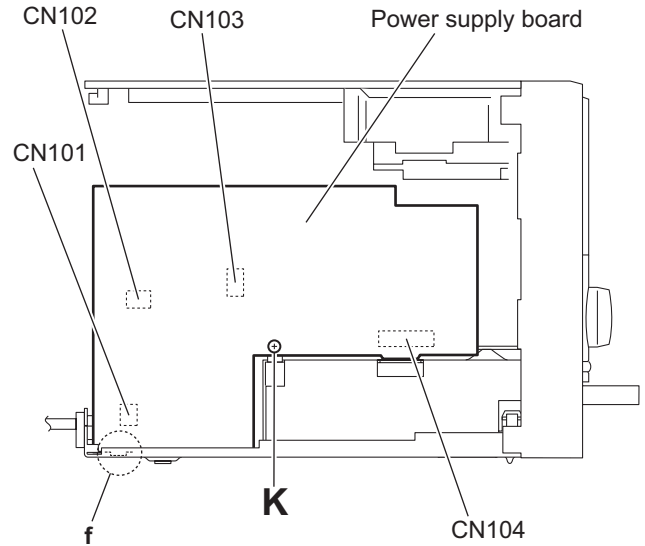


Fig.16

### 3.1.10 Removing the power amplifier board (See Fig.17)

- Prior to performing the following procedures, remove the side panels L/R, front panel assembly, top panel, tuner, rear panel, video board and main board.
  - (1) From the top side of the main body, remove the four screws **L** attaching the power amplifier board.
  - (2) From the forward side of the power amplifier board, disconnect the card wire from the connector ([CN404](#)).
  - (3) Lift the power amplifier board and remove it from the engagement sections (**g**, **h**) of the shield case.
  - (4) Remove the power amplifier board toward this side and disconnect the connector [CN403](#) on the power amplifier board.

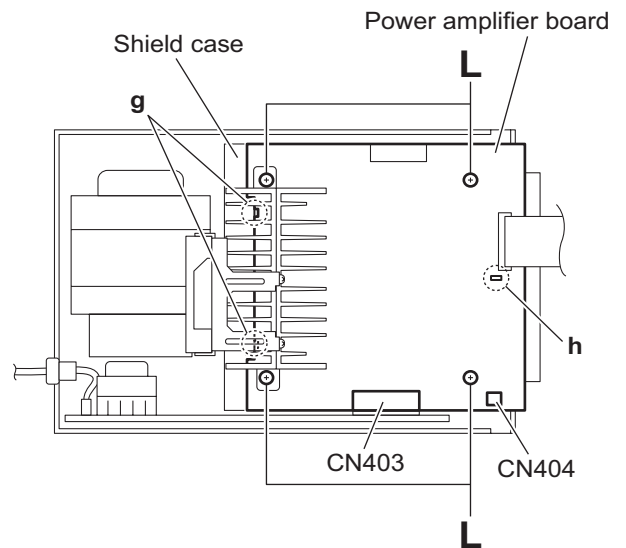


Fig.17

### 3.1.11 Removing the heat sink and heat sink B (See Figs.18 and 19)

- Prior to performing the following procedure, remove the side panels L/R, front panel assembly, top panel, rear panel and fan.
  - (1) From the top side of the main body, remove the two screws **M** attaching the heat sink on the power amplifier board. (See Fig.18.)
  - (2) From the side of the power amplifier board, remove the two screws **N** attaching the heat sink. (See Fig.18.)
  - (3) From the front side of the main body, remove the three screws **P** attaching the heat sink B. (See Fig.19.)

#### Reference:

Remove the tuner and video board as required.(See Figs.10, 11 and 13.)

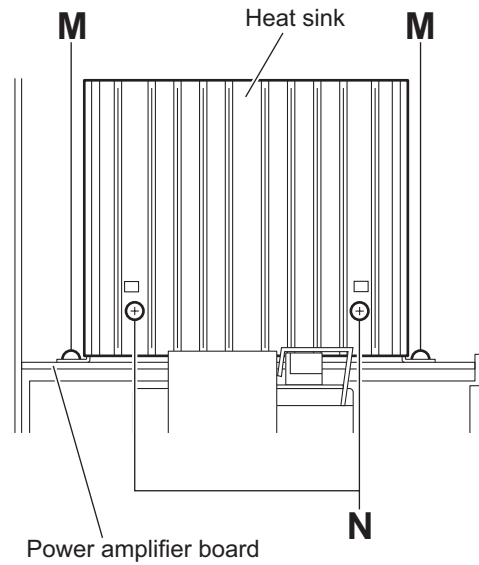


Fig.18

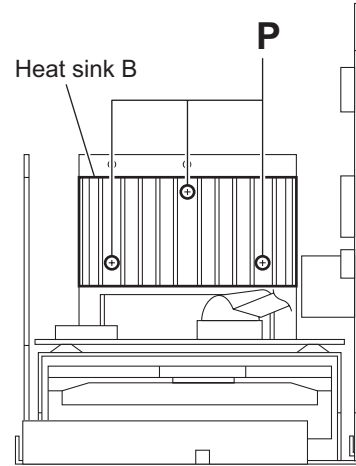


Fig.19

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

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

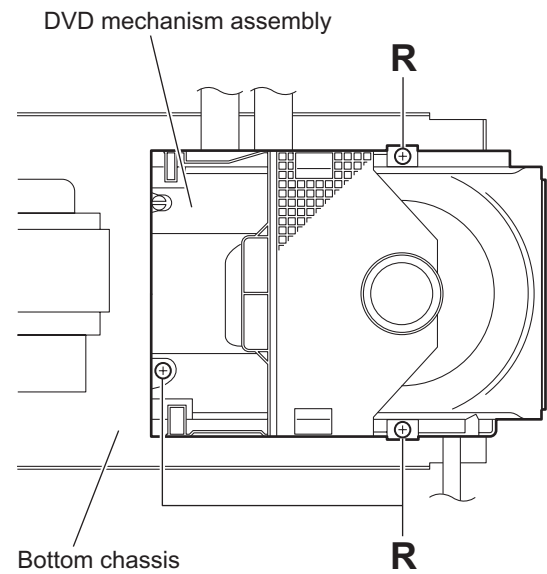
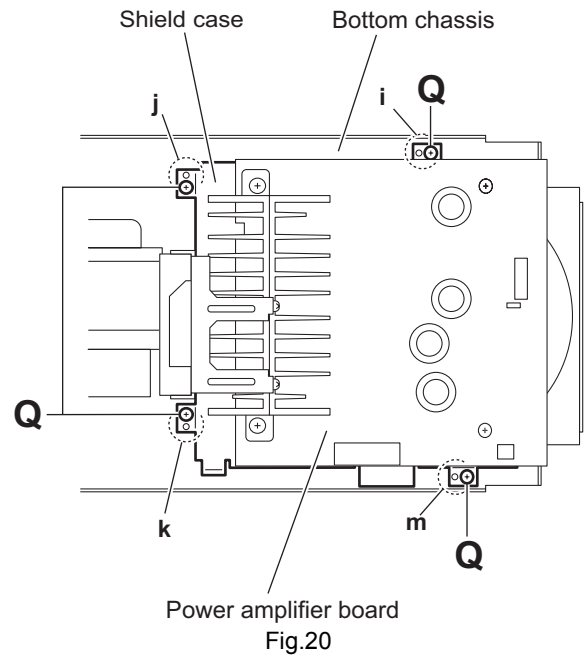
(1) From the top side of the main body, remove the four screws **Q** attaching the shield case to the bottom chassis. (See Fig.20.)

#### Reference:

When attaching the shield case on the bottom chassis, align the projections (**i**, **j**, **k**, **m**) 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. (See Fig.20.)

(3) Remove the three screws **R** attaching the DVD mechanism assembly to the bottom chassis. (See 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 panel, rear panel and main board.

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

#### Reference:

Remove the tuner , video board and the power supply board as required. (See Figs.10, 11, 13 and 16.)

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

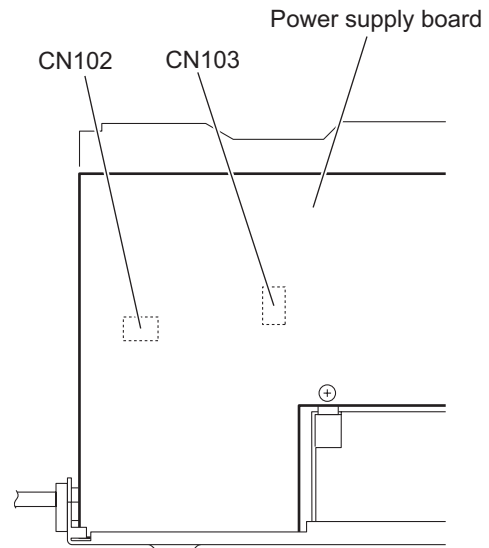


Fig.22

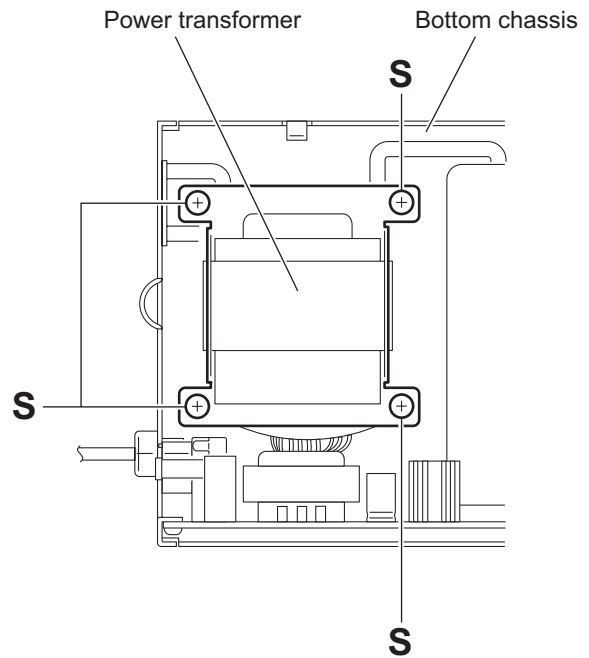


Fig.23

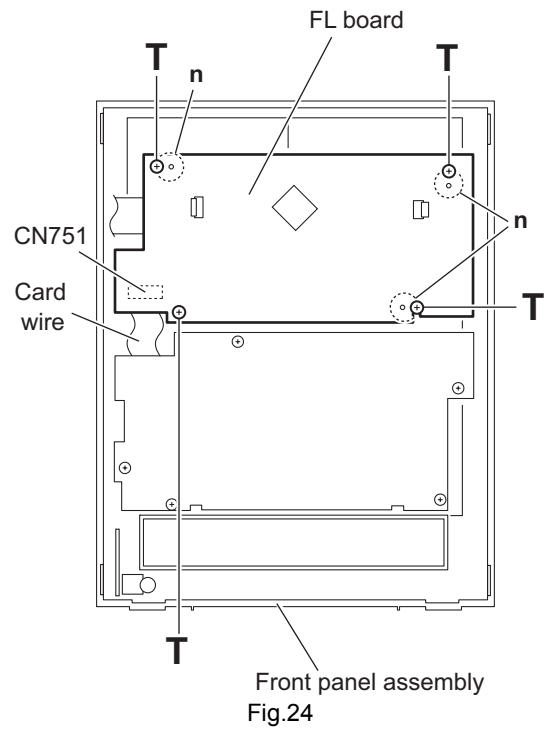


### 3.1.14 Removing the FL board (See Fig.24)

- 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 **T** 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 **n** of the front panel assembly in the holes of the FL board.



### 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 volume knob in to the direction of the arrow. (See Fig.25.)
  - (2) From the inside of the front panel assembly, remove the ten screws **U** 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 **p** of the front panel assembly in the holes of the switch board. (See Fig.26.)

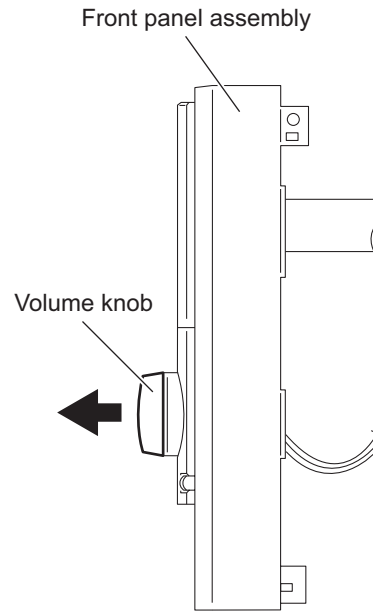


Fig.25

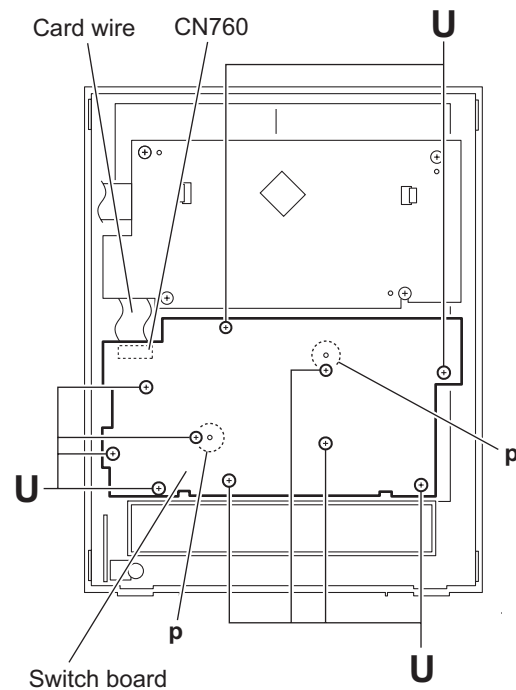


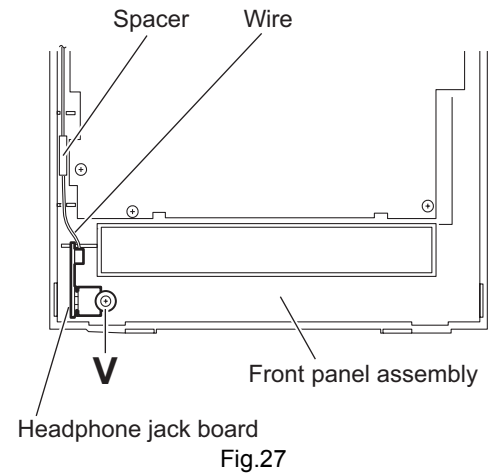
Fig.26

### 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 **V** attaching the headphone jack board.

#### Reference:

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

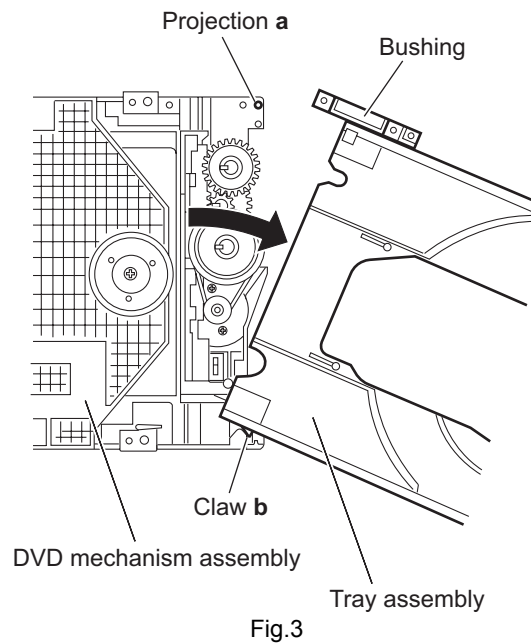
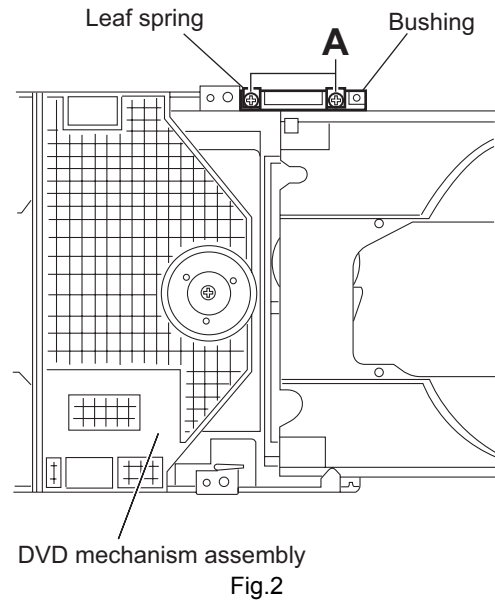
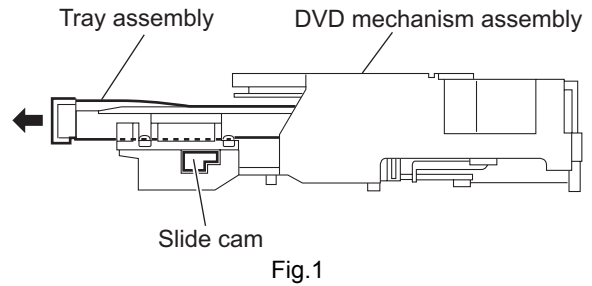


### 3.2 DVD mechanism section

- Prior to performing the following procedures, remove the DVD mechanism assembly from the main body.  
(See "3.1.12 Removing the DVD mechanism assembly".)

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

- (1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the DVD mechanism assembly in the direction of the arrow. (See Fig.1.)
- (2) From the top side of the DVD 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 DVD 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 DVD mechanism assembly and take out the tray assembly. (See Fig.3.)

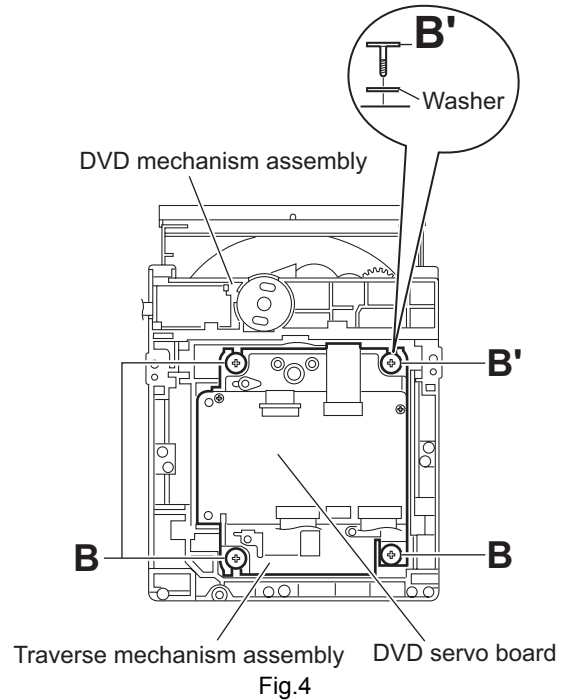


### 3.2.2 Removing the traverse mechanism assembly (See Figs.4)

- (1) From the bottom side of the DVD mechanism assembly, remove the three screws **B** and screw **B'** attaching the traverse mechanism assembly and take out the DVD traverse mechanism assembly with the DVD servo board.

#### Reference:

When attaching the screw **B'**, attach the washer with it.

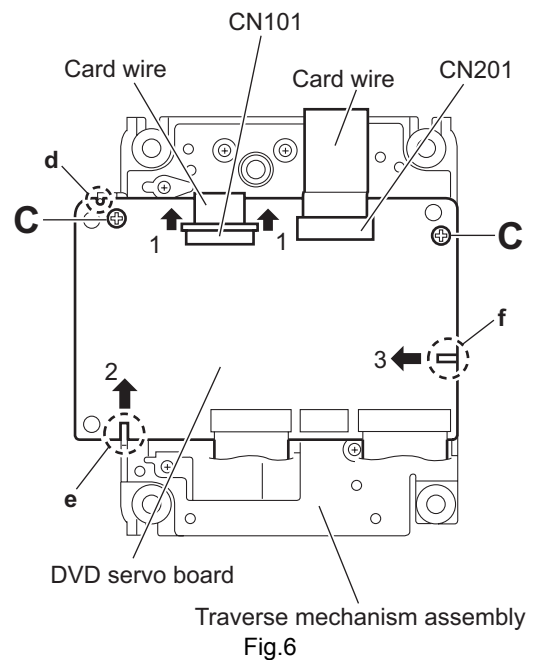
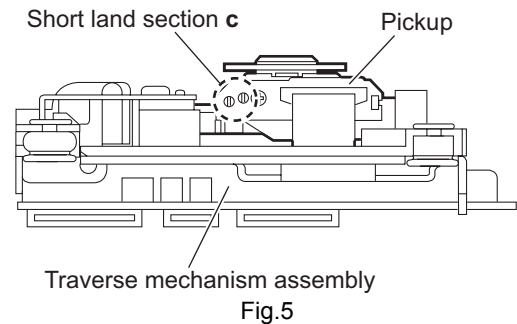


### 3.2.3 Removing the DVD servo board (See Figs.5 and 6)

- Prior to performing the following procedures, remove the traverse mechanism assembly.
- (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
- (2) From the bottom side of the traverse mechanism assembly, release the lock of the connector **CN101** on the DVD servo board in the direction of the arrow **1** and disconnect the card wire. (See Fig.6.)

#### Caution:

- Solder the short land sections **c** on the pickup before disconnecting the card wire from the connector **CN101** on the DVD servo board. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 6.)
  - When attaching the DVD servo board, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector **CN101** on the DVD servo board. (See Figs.5 and 6.)
- (3) Disconnect the card wire from the connector **CN201** on the DVD servo board. (See Fig.6.)
  - (4) Remove the two screws **C** attaching the DVD servo board. (See Fig.6.)
  - (5) Remove the DVD servo board from the engagement section **d** in an upward and remove the engagement section **f** in the direction 3 while removing the engagement section **e** in the direction of the arrow 2. (See Fig.6.)



### 3.2.4 Removing the pickup (See Figs.5,7 to 9)

- Prior to performing the following procedures, remove the traverse mechanism assembly.

- (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
- (2) Release the lock of the connector on the pickup in the direction of the arrow and disconnect the card wire. (See Fig.7.)

**Caution:**

- Solder the short land sections **c** on the pickup before disconnecting the card wire from the connector on the pickup. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 7.)
- When attaching the pickup, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)

- (3) Remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
- (4) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
- (5) Remove the shaft of the pickup from the section **h** on the traverse mechanism assembly and remove the shaft from the section **i** while moving it in the direction of the arrow. (See Fig.8.)
- (6) Remove the pickup from the section **j** of the traverse mechanism assembly and take out the pickup with the shaft. (See fig.8.)
- (7) From the bottom side of the pickup, remove the two screws **E** attaching the SW actuator and LEAD spring. (See Fig.9.)
- (8) Pull the shaft out of the pickup. (See Fig.9.)

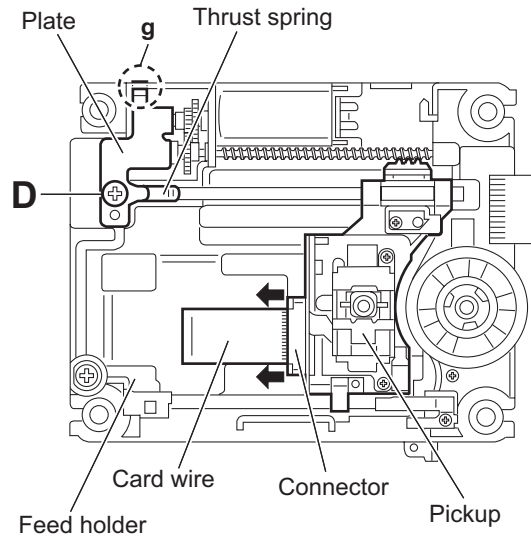


Fig.7

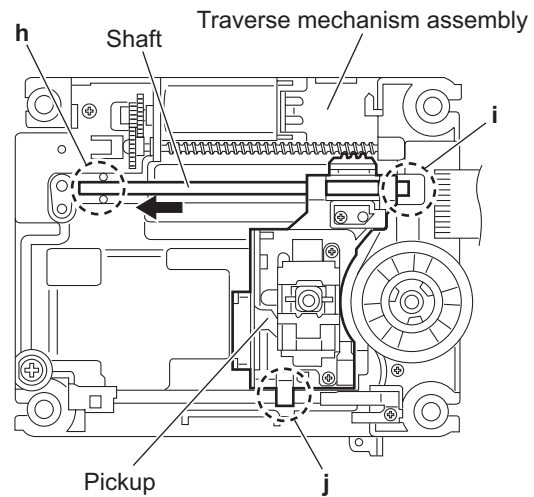


Fig.8

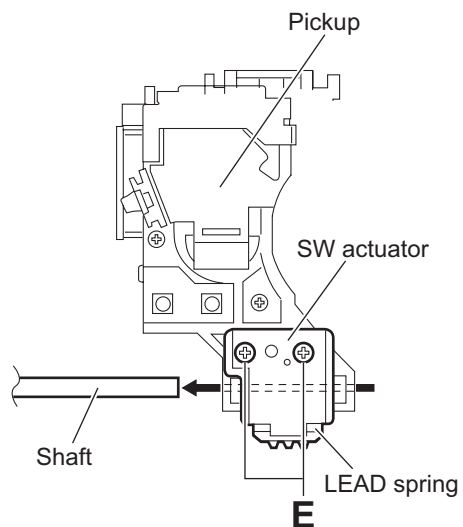


Fig.9

### 3.2.5 Attaching the pickup (See Figs.5,7 to 10)

- See "3.2.4 Removing the pickup".
  - (1) Attach the shaft, SW actuator and LEAD spring to the pickup. (See Fig.9.)
  - (2) Align the pickup to the section **j** of the traverse mechanism assembly first, and set the both ends of the shaft of the pickup in the sections **g** and **i** of the traverse mechanism assembly. (See Fig.8.)
  - (3) Attach the plate and thrust spring. (See Fig.7.)
  - (4) Remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)
  - (5) Turn the feed gear **M** in the direction of the arrow **1** to move the pickup in the direction of the arrow **2**. (See Fig.10.)

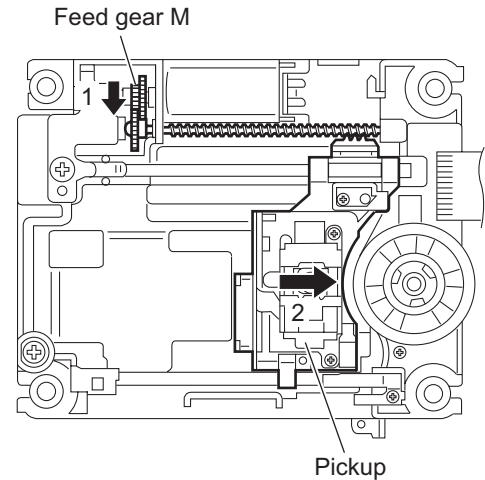


Fig.10

### 3.2.6 Removing the feed motor (See Figs.7,11 and 12)

- Prior to performing the following procedures, remove the traverse mechanism assembly.
  - (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
  - (2) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
  - (3) Remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)

#### Reference:

When attaching the feed motor, pass the wire through the section **m** on the spindle base. (See Fig.11.)

- (4) Remove the feed holder, feed motor, lead screw, feed gear **E** and feed gear **M** at the same time after removing the two screws **F** attaching the feed holder. (See Fig.11.)
- (5) From the side of the feed holder, remove the two screws **G** attaching the feed motor. (See Fig.12.)

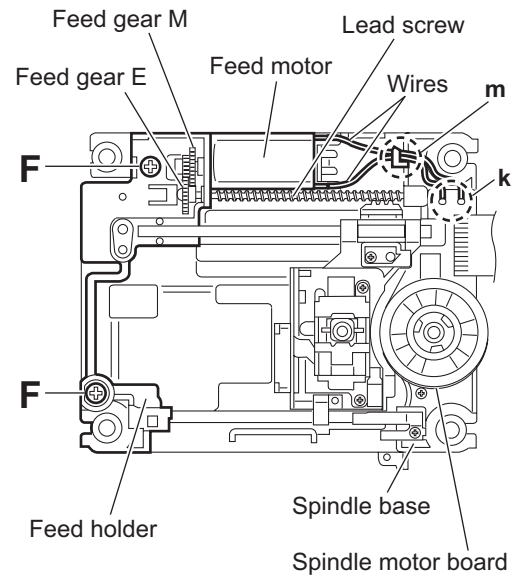


Fig.11

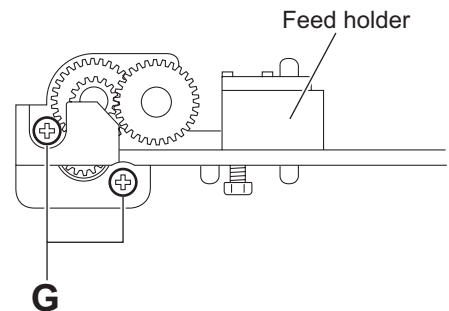


Fig.12

### 3.2.7 Removing the spindle motor board (See Figs.11 and 13)

- Prior to performing the following procedures, remove the traverse mechanism assembly and DVD servo board.
  - (1) From the top side of the traverse mechanism assembly, remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)
  - (2) From the bottom side of the traverse mechanism assembly, remove the three screws **H** attaching the spindle motor board. (See Fig.13.)

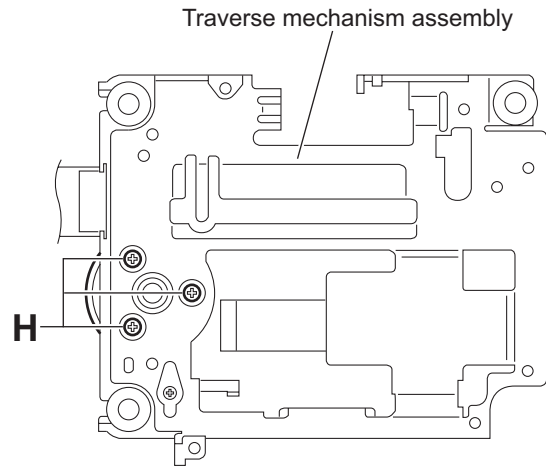


Fig.13

### 3.2.8 Removing the switch board (See Fig.14.)

- (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** on the switch board.
- (2) Lift the switch board while pressing the claw **p** of the DVD 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 switch board to the DVD mechanism assembly.
- Fix the claw **p** on the DVD mechanism assembly with bonds after attaching the switch board.

### 3.2.9 Removing the motor (See Figs.14 and 15)

- Prior to performing the following procedures, remove the tray assembly.
  - (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** on the switch board. (See Fig.14.)
  - (2) From the top side of the DVD mechanism assembly, remove the belt from the motor pulley. (See Fig.15.)

#### Note:

Take care not to attach grease on the belt.

- (3) Remove the two screws **J** attaching the motor to the DVD mechanism assembly and take out the motor from the bottom side of the DVD mechanism assembly. (See Fig.15.)

#### Reference:

Put the wires on the section **r** after attaching the motor to the DVD mechanism assembly. (See Fig.14.)

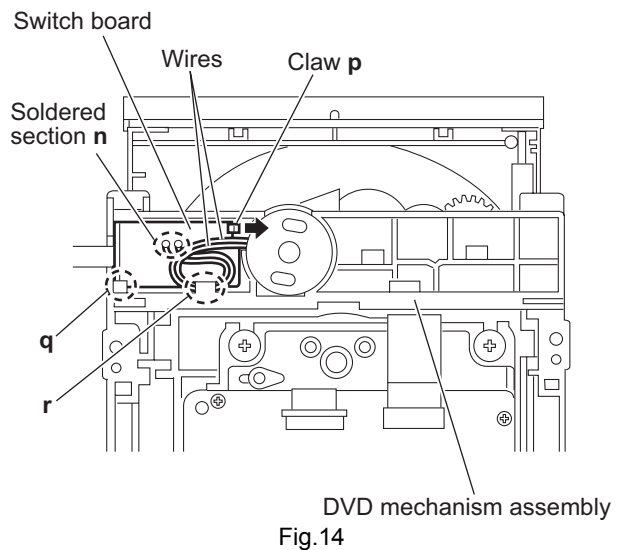


Fig.14

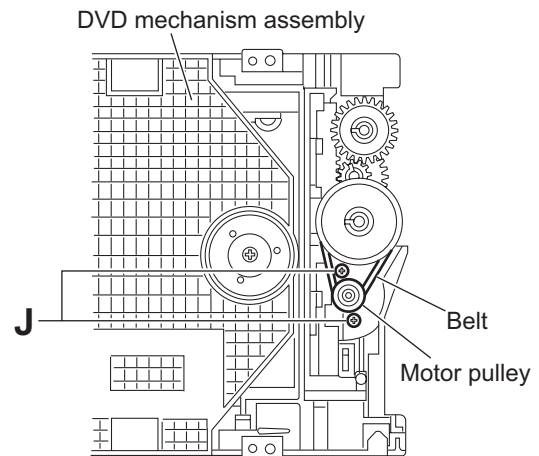


Fig.15

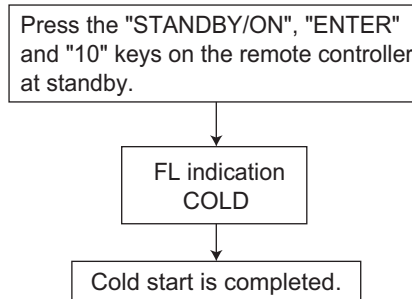


## SECTION 4 ADJUSTMENT

### 4.1 Special mode 1

#### 4.1.1 Cold start

Cold start processing.



#### 4.1.2 Tray lock

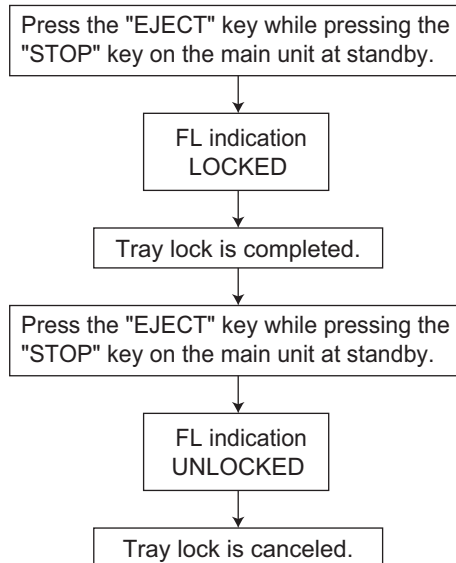
Loader-mecha is locked.

EJECT processing isn't done by pushing EJECT key at tray lock on state.

Then display to LOCKED / UNLOCKED.

EJECT is pushed, pushing STOP again, tray lock is off.

Back up to tray locked ON/OFF.



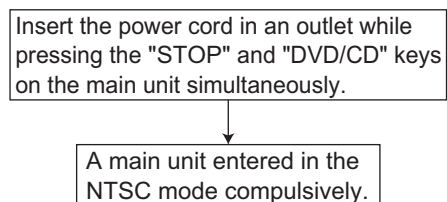
#### 4.1.3 Compulsive NTSC mode

Into the compulsive NTSC mode.

Hereafter, only first power-on, start by NTSC unrelated NTSEL-SW.

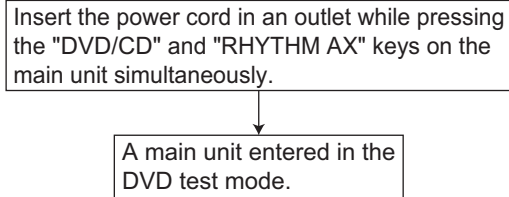
(Send command to module)

Mode is clear at POWER OFF.



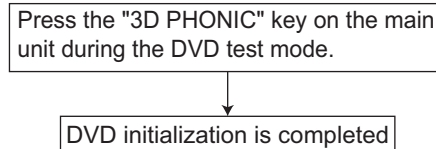
#### 4.1.4 DVD test mode

Into the DVD test mode. Test mode contents is refer to module spec.  
DVD test mode is canceled by POWER OFF and except source DVD.



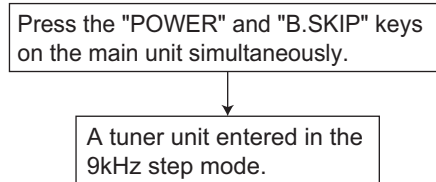
#### 4.1.5 DVD initialize

DVD module initialized.  
LCD segment is light on at initialize completed.



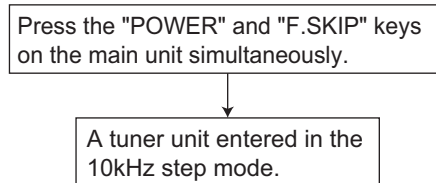
#### 4.1.6 TUNER AM switch to 9kHz-step only U version

AM frequency change to 9kHz at U-version.

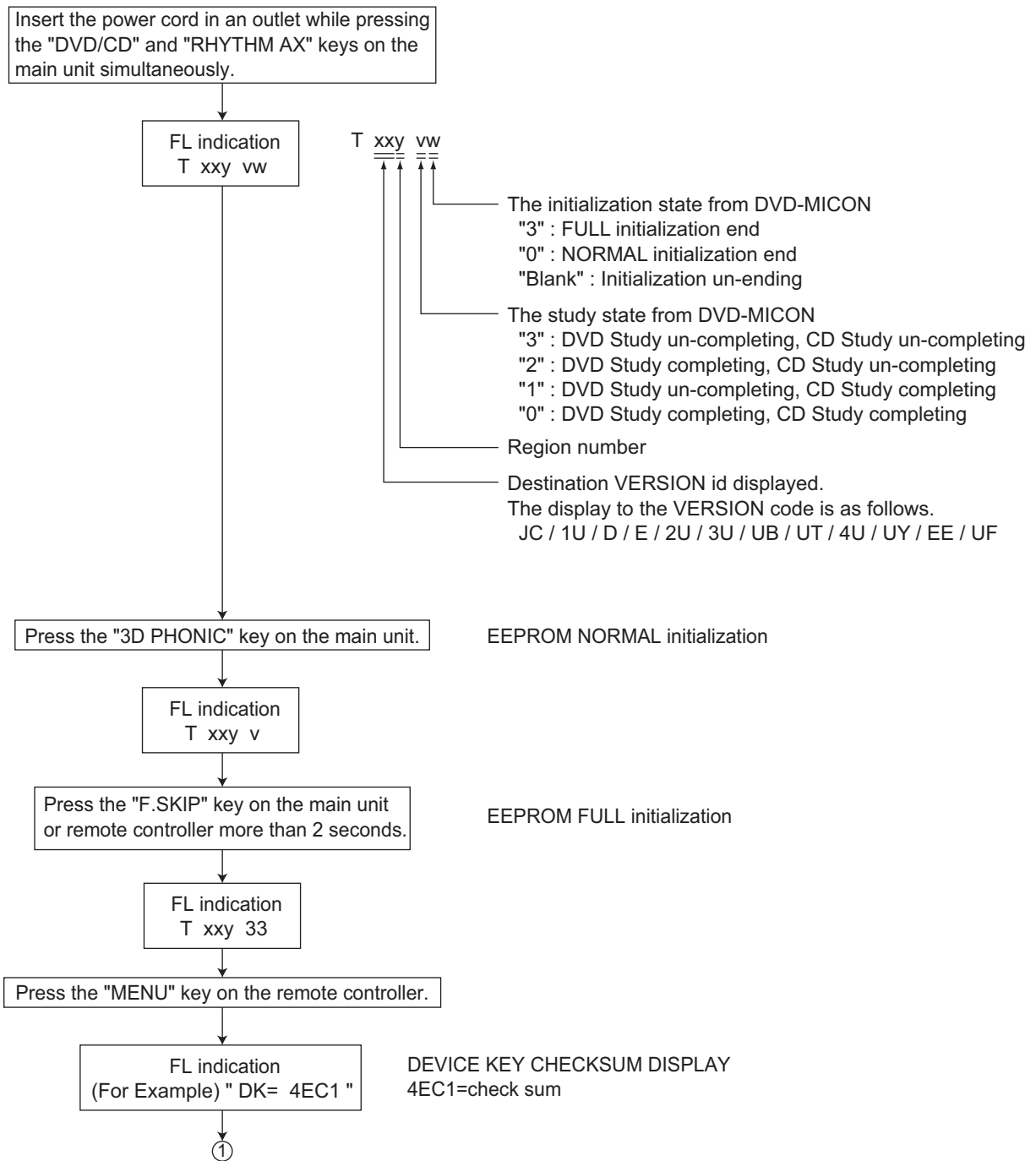


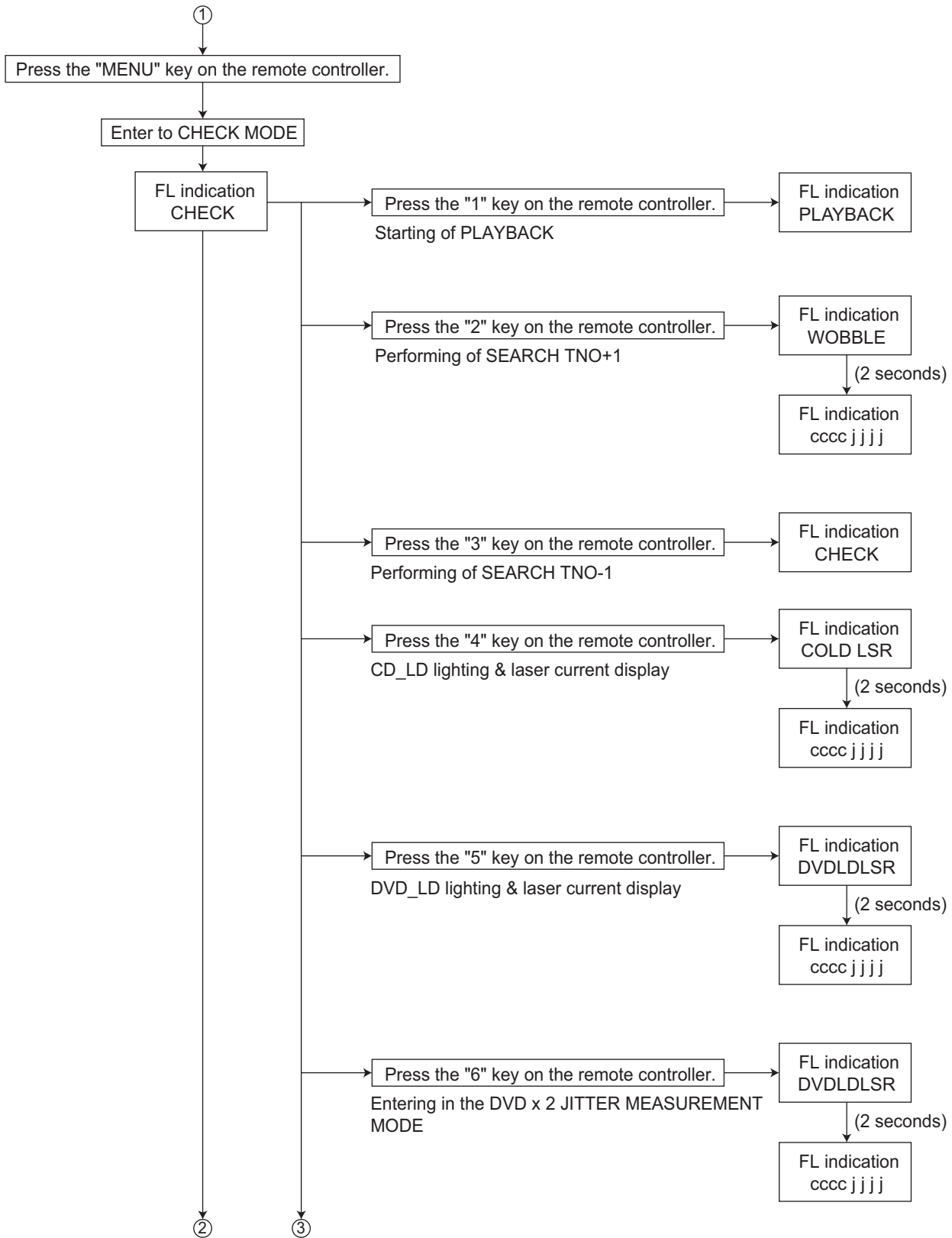
#### 4.1.7 TUNER AM switch to 10kHz-step only U version

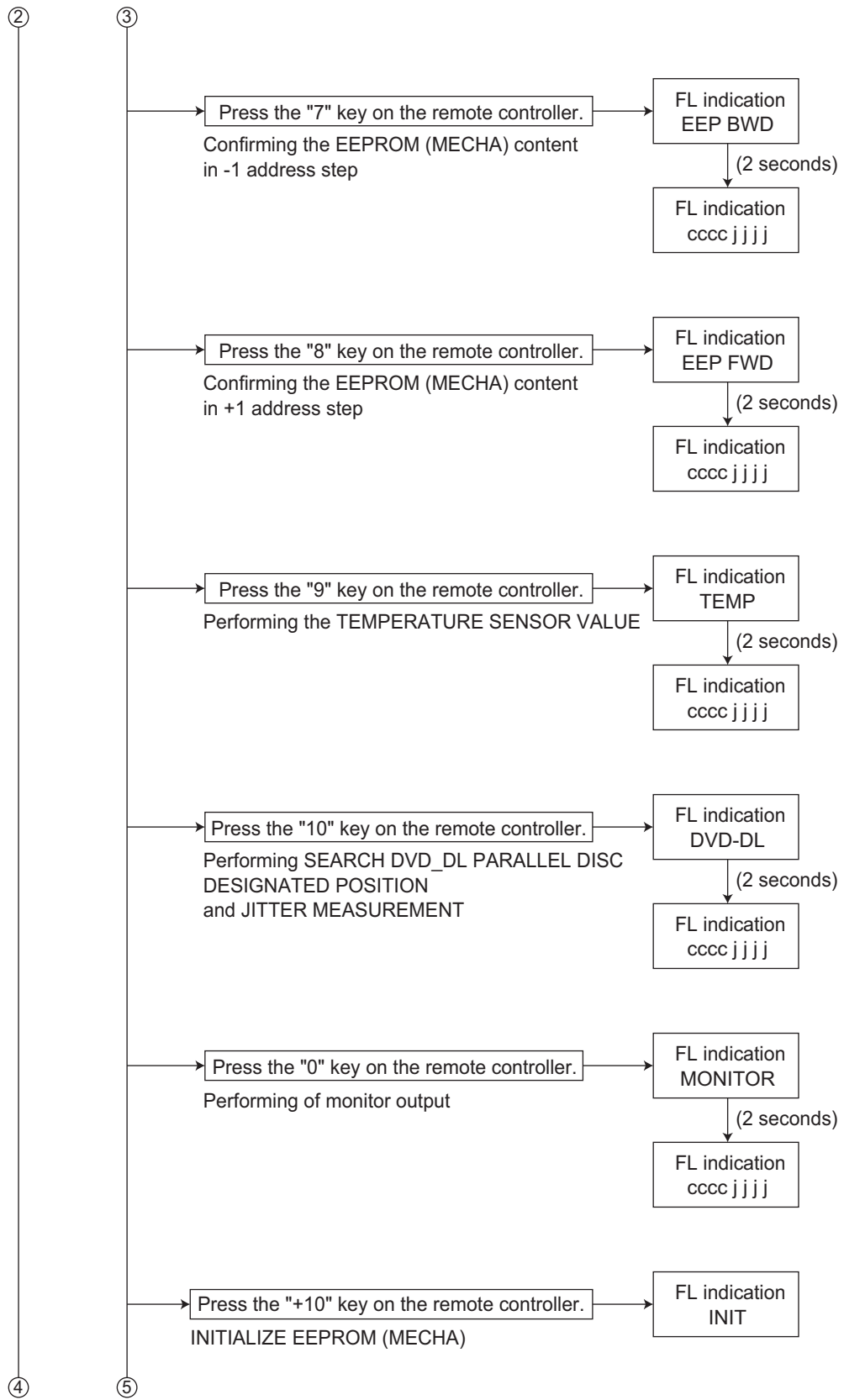
AM frequency change to 10kHz at U-version.

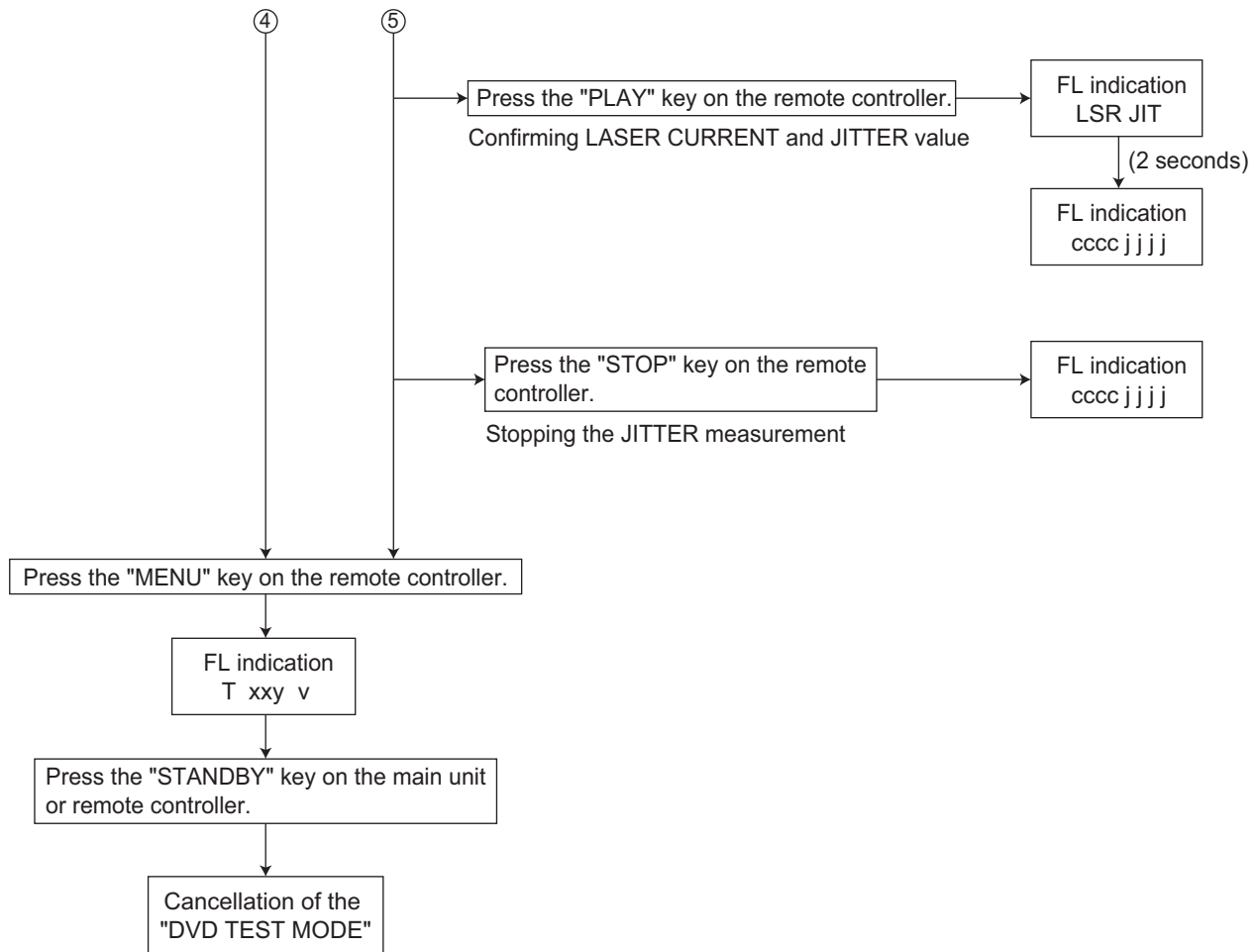


## 4.2 DVD TEST MODE









## **SECTION 5 TROUBLESHOOTING**

This service manual does not describe TROUBLESHOOTING.



**JVC**

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

(No.MB229)