

JVC

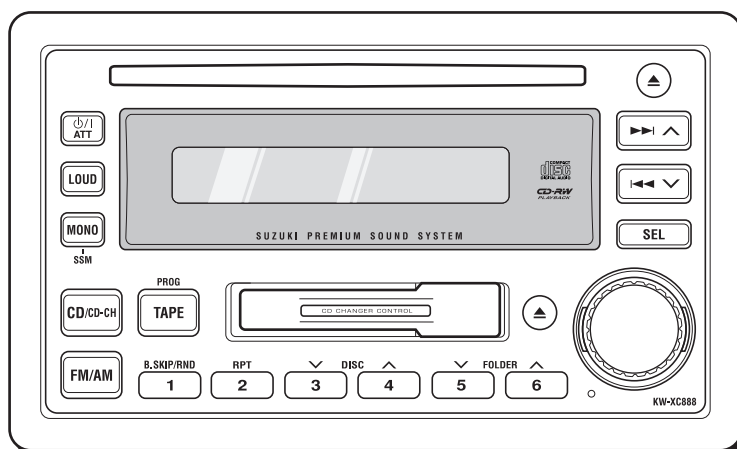
SERVICE MANUAL

CD/CASSETTE RECEIVER

KW-XC888

Area suffix

UN -----Asean



CD-RW
PLAYBACK

compact disc
DIGITAL AUDIO

TABLE OF CONTENTS

1	PRECAUTION.....	1-3
2	SPECIFIC SERVICE INSTRUCTIONS.....	1-6
3	DISASSEMBLY	1-7
4	ADJUSTMENT	1-38
5	TROUBLESHOOTING	1-42


SPECIFICATION


AUDIO AMPLIFIER SECTION		
Maximum Power Output (DC 16V)	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (10% THD)	Front	25 W per channel into 4 Ω .
	Rear	25 W per channel into 4 Ω .
Load Impedance		4 Ω (4 to 8 Ω allowance)
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
[FM Tuner]	Usable Sensitivity	6 dB μ V
	Stereo Separation	28 dB
[AM Tuner]	Sensitivity	30 dB μ V
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of channels		2 channels (stereo)
Frequency Response		30 Hz to 20 000 Hz
Signal-to-Noise Ratio		75 dB
Wow and Flutter		Less than measurable limit
Channel Separation (1 kHz)		65 dB
CASSETTE DECK SECTION		
Frequency Response		30 Hz to 16 000 Hz
Wow and Flutter		0.2 % (WRMS)
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Dimensions (W \times H \times D)	Installation Size	178 mm \times 100 mm \times 175 mm
	Front Panel Size	183 mm \times 103 mm \times 15 mm
Mass		2.2 kg (excluding accessories)

Design and specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 Safety Precautions

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

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

1.2 Preventing static electricity

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

1.2.1 Grounding to prevent damage by static electricity

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

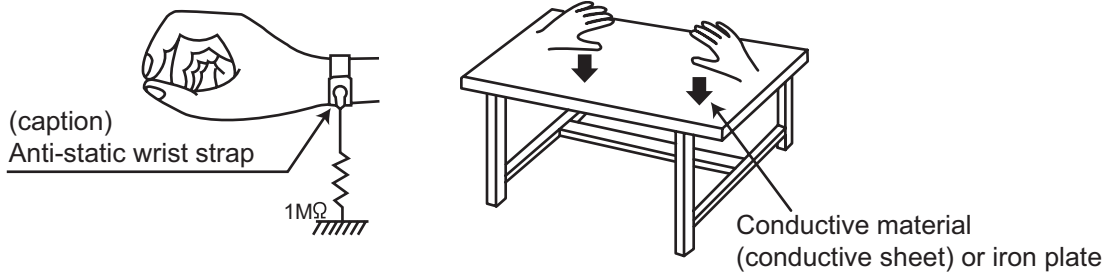
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

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

(2) Ground yourself

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



(3) Handling the optical pickup

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

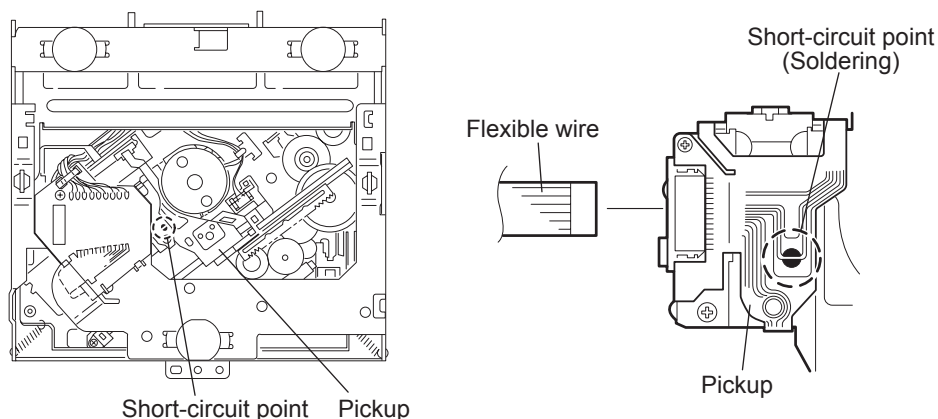
1.3 Handling the traverse unit (optical pickup)

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

1.4 Attention when traverse unit is decomposed

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

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



1.5 Important for laser products

1.CLASS 1 LASER PRODUCT


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

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

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

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

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

 **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 alttiina 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 alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body section

3.1.1 Removing the front panel assembly (See Figs.1 and 2)

- (1) From the both side of the main body, remove the two screws **A** attaching the front panel assembly. (See Figs.1 and 2.)
- (2) Release the four joints **a** and remove the front panel assembly in the direction of the arrow. (See Figs.1 and 2.)

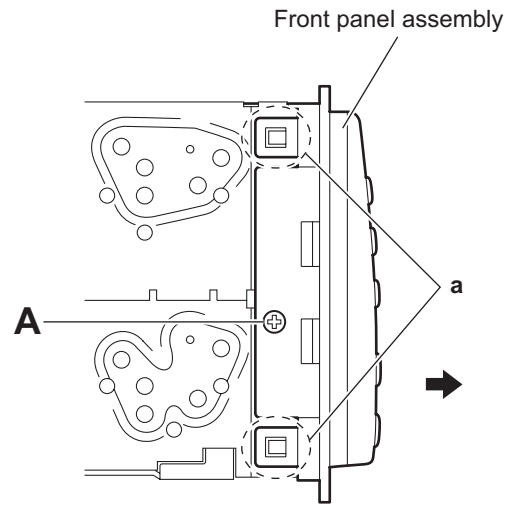


Fig.1

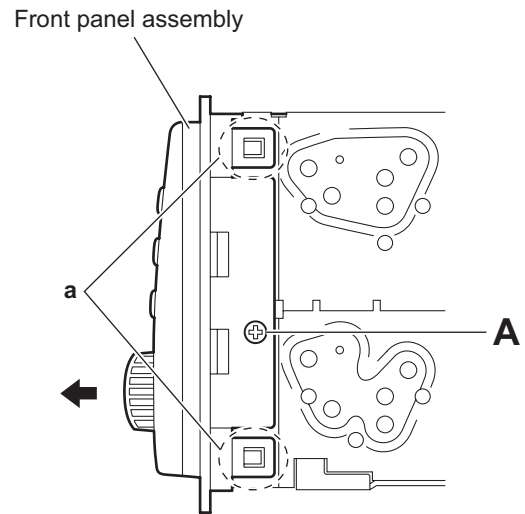


Fig.2

3.1.2 Removing the heat sink (See Figs.3 and 4)

- (1) From the back side of the main body, remove the six screws **B** attaching the heat sink. (See Fig.3.)
- (2) Remove the heat sink from the main body.

Note:

- Before attaching the heat sink, attach the cooling rubbers on the power amplifier IC. (See Fig.4)
- When attaching the heat sink, set the projections **b** on the rear bracket in the holes of the heat sink. (See Fig.3.)

3.1.3 Removing the rear bracket (See Fig.4)

- Prior to performing the following procedures, remove the heat sink.
- (1) From the back side of the main body, remove the eight screws **C** attaching the rear bracket.
- (2) Remove the rear bracket from the main body.

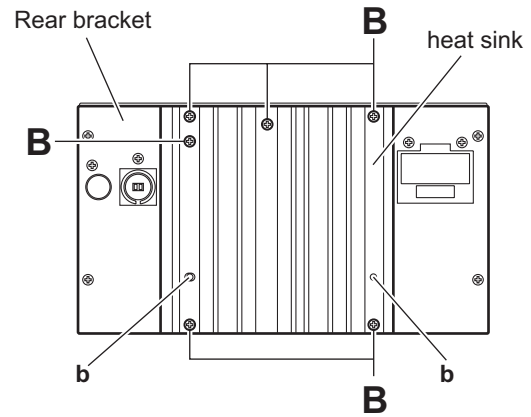


Fig.3

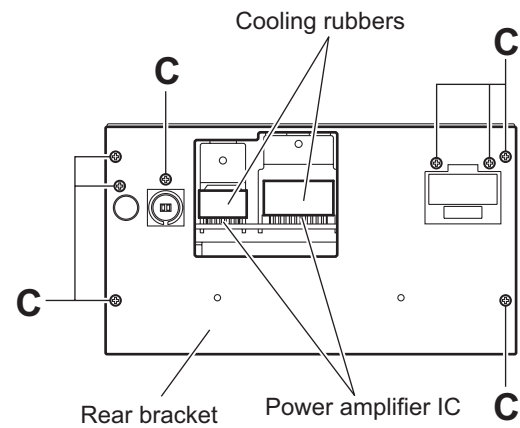


Fig.4

3.1.4 Removing the bottom chassis assembly (See Fig.5)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and rear bracket.
 - (1) From the bottom side of the main body, remove the four screws **D** attaching the bottom chassis assembly.
 - (2) Take out the bottom chassis assembly from the main body.

Reference:

When attaching the bottom chassis assembly, set the projections **c** of the main body in the holes of the bottom chassis assembly.

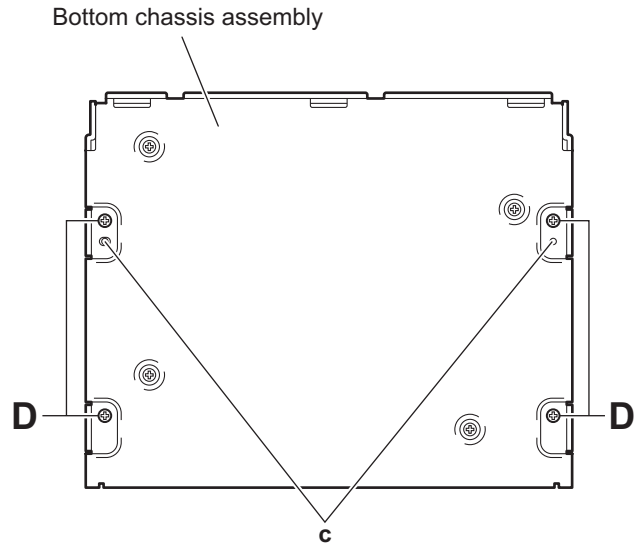


Fig.5

3.1.5 Removing the mechanism control board (See Fig.6)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, rear bracket and bottom chassis assembly.
 - (1) From the inside of the bottom chassis assembly, disconnect the card wire from the connector [CN403](#) on the mechanism control board.
 - (2) Disconnect the wire from the connector [CN402](#) on the mechanism control board.
 - (3) Remove the three screws **E** attaching the mechanism control board.
 - (4) Take out the mechanism control board from the bottom chassis assembly.

Reference:

- When attaching the mechanism control board, set the projections **d** of the bottom chassis assembly in the holes of the mechanism control board.
- After attaching the mechanism control board, fix the wire with the wire clamp as before.

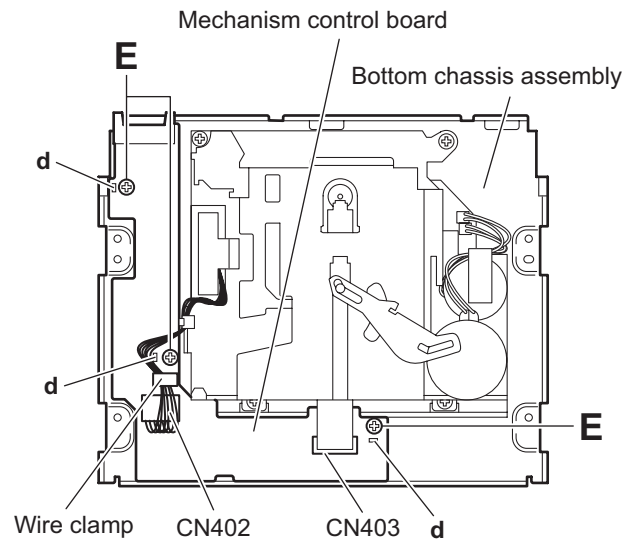


Fig.6

3.1.6 Removing the cassette mechanism assembly (See Fig.7)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, rear bracket and bottom chassis assembly.
 - (1) From the inside of the bottom chassis assembly, disconnect the card wire from the connector [CN403](#) on the mechanism control board.
 - (2) Disconnect the wire from the connector [CN402](#) on the mechanism control board.
 - (3) Remove the four screws **F** attaching the cassette mechanism assembly.

Reference:

After attaching the mechanism control board, fix the wire with the wire clamp as before.

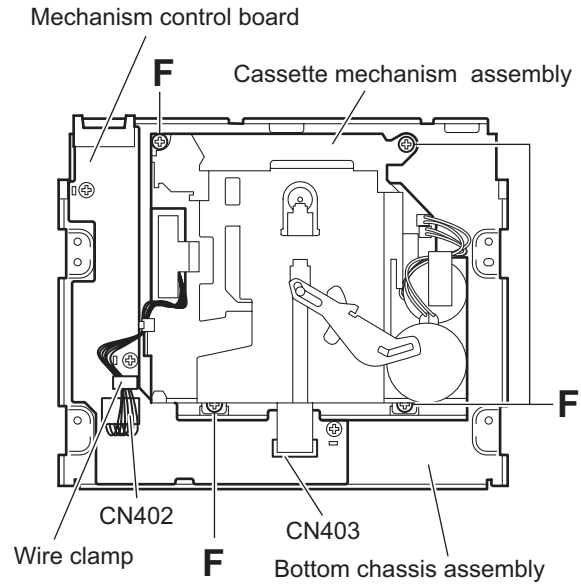


Fig.7

3.1.7 Removing the middle chassis assembly (See Fig.8)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, rear bracket and bottom chassis assembly.
 - (1) From the bottom side of the main body, remove the four screws **G** attaching the middle chassis assembly.
 - (2) Disconnect the connector [CN501](#) of the main board on the middle chassis assembly from the CD mechanism assembly in an upward direction.

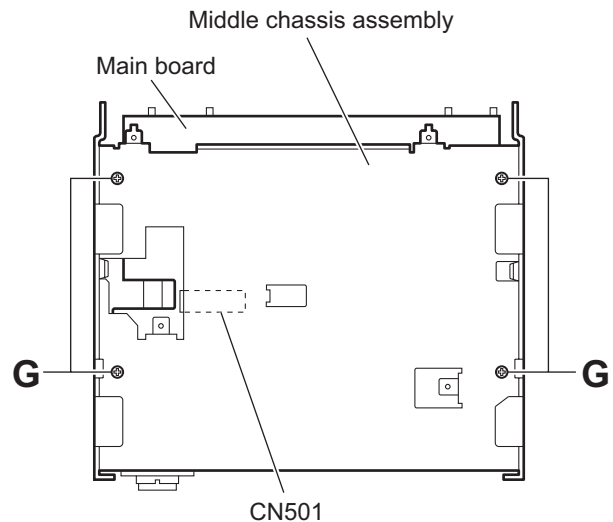


Fig.8

3.1.8 Removing the main board (See Fig.9)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, rear bracket, bottom chassis assembly and middle chassis assembly.

(1) From the top side of the middle chassis assembly, remove the four screws **H** attaching the main board on the middle chassis.

(2) Remove the main board from the middle chassis.

Reference:

When attaching the main board, set the projections **e** of the middle chassis in the holes of the main board.

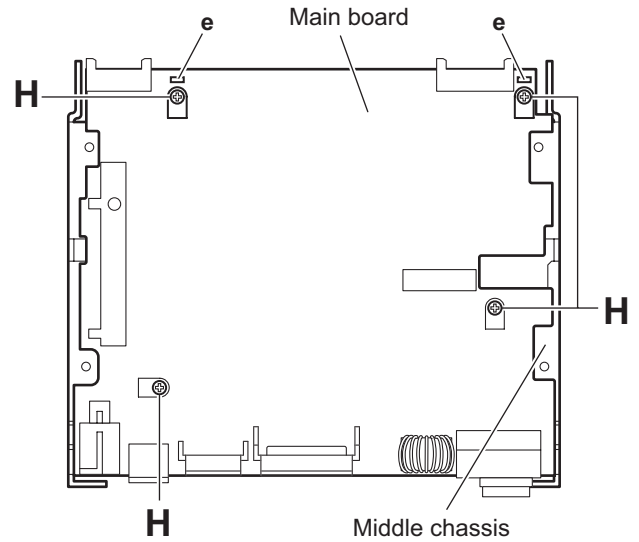


Fig.9

3.1.9 Removing the CD mechanism assembly (See Fig.10)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, rear bracket, bottom chassis assembly and middle chassis assembly.

(1) From the inside of the top chassis assembly, remove the three screws **J** attaching the CD mechanism assembly.

(2) Take out the CD mechanism assembly from the top chassis.

Reference:

When attaching the CD mechanism assembly, set the projections **f** of the top chassis in the holes of the CD mechanism assembly.

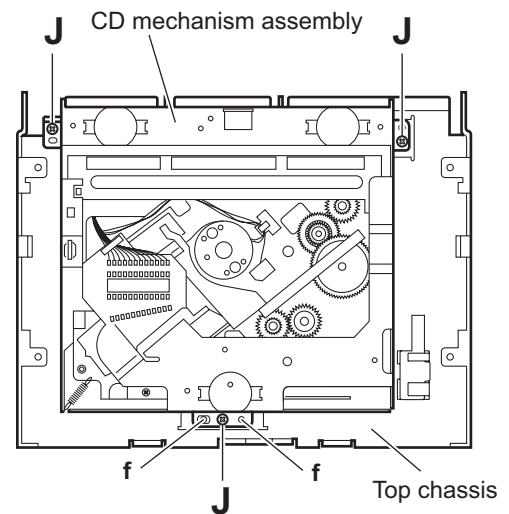


Fig.10

3.1.10 Removing the LCD switch board (See Fig.11)

- Prior to performing the following procedures, remove the front panel assembly.

(1) From the inside of front panel assembly, remove the ten screws **K** attaching the LCD switch board.

(2) Release the sections **g** while extending the lower section of the front panel assembly in the direction of the arrow and take out the LCD switch board.

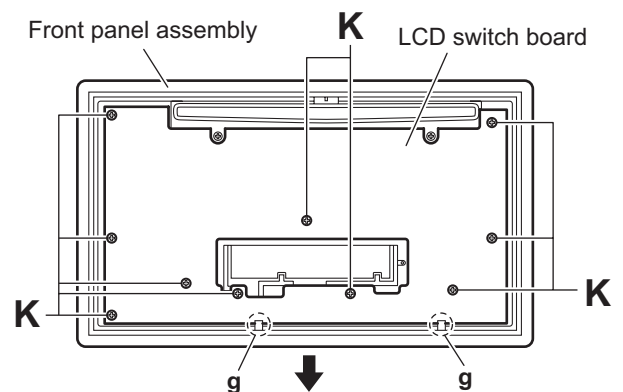


Fig.11

3.2 CD Mechanism Assembly

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

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

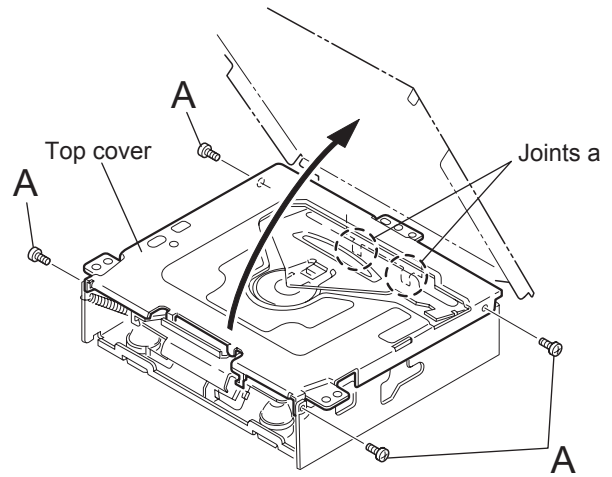


Fig.1

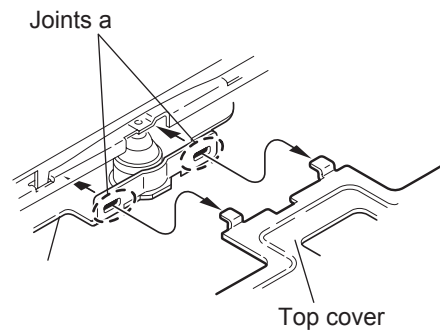


Fig.2

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

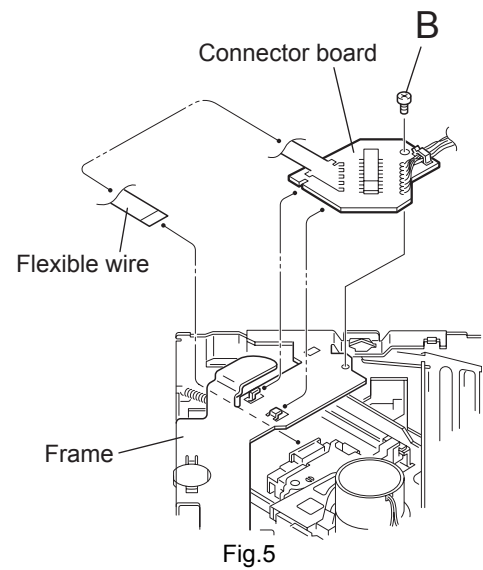
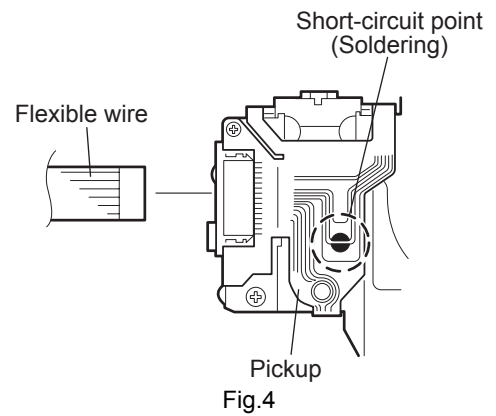
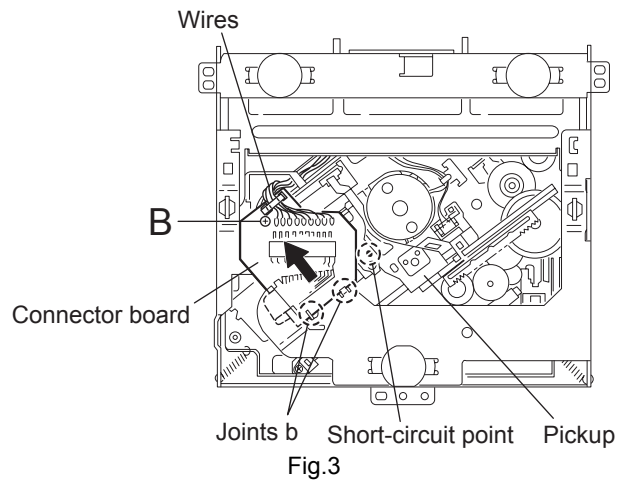
CAUTION:

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

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

CAUTION:

Unsolder the short-circuit point after reassembling.



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

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

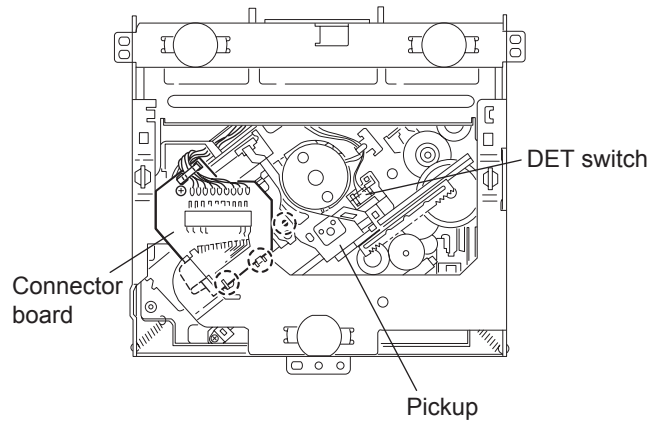


Fig.6

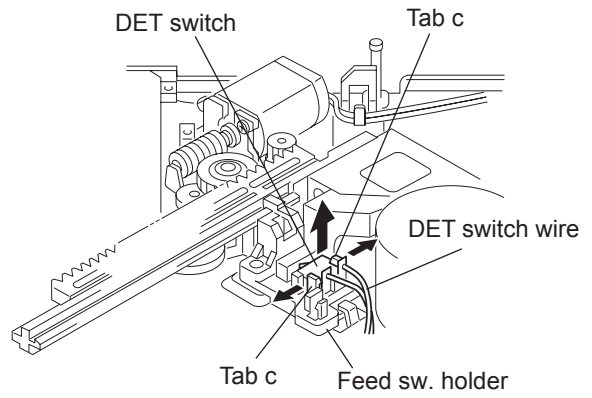


Fig.7

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

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

CAUTION:

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

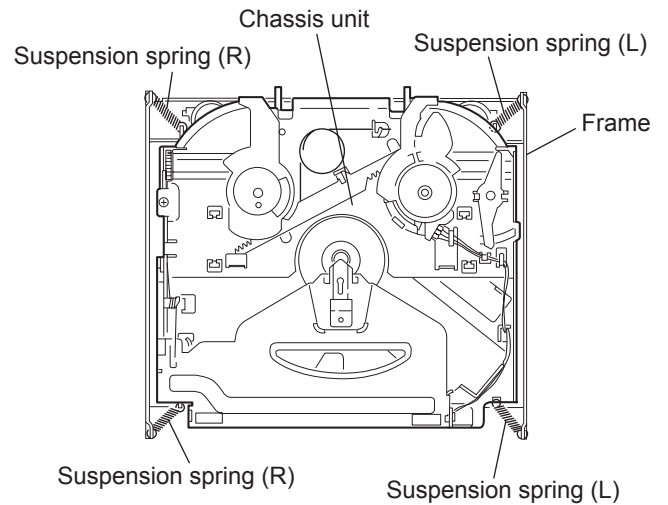


Fig.8

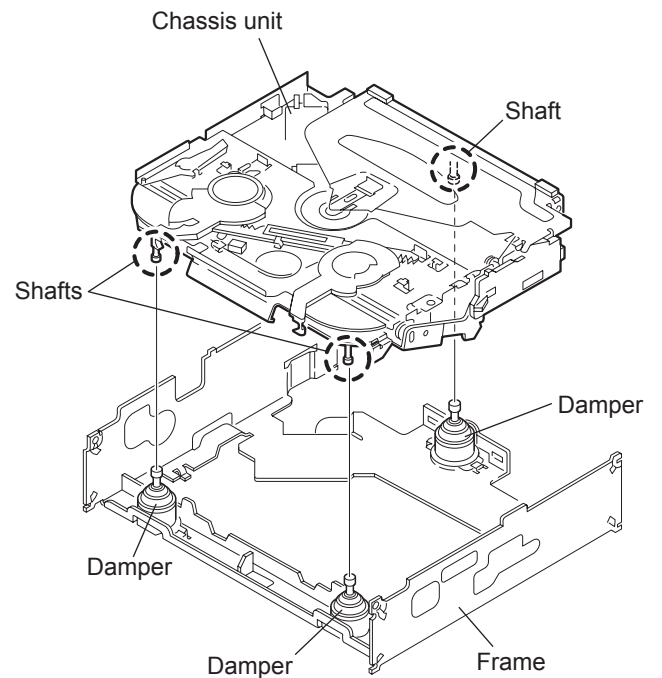
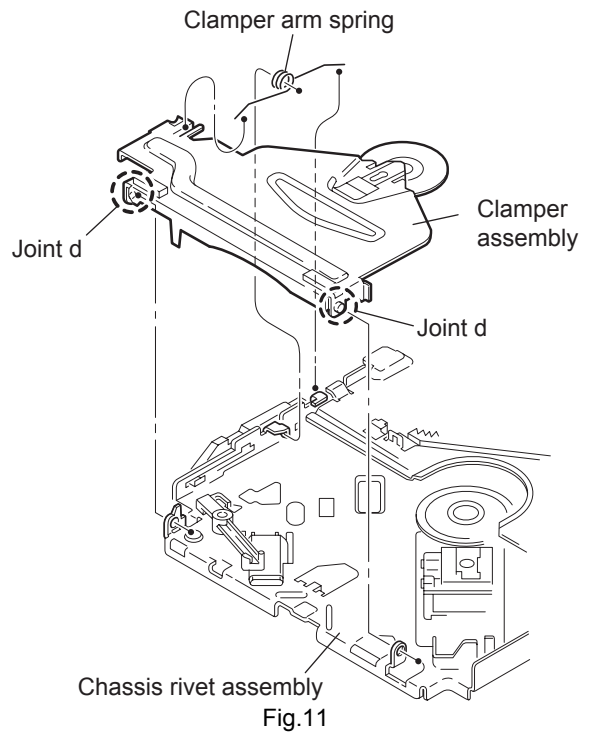
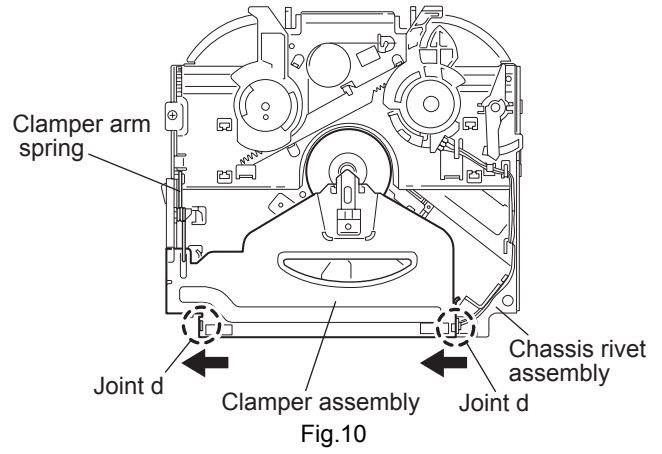


Fig.9

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

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

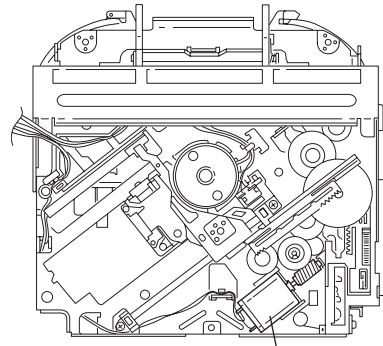


3.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

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

CAUTION:

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



Loading / feed motor assembly
Fig.12

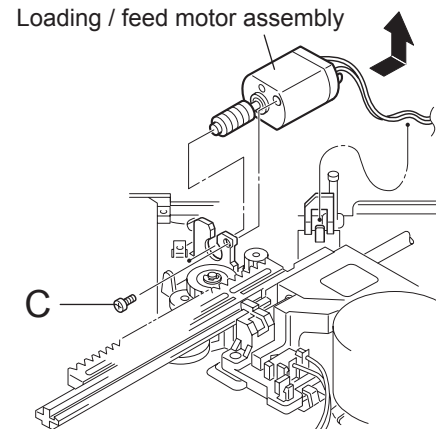


Fig.13

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

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

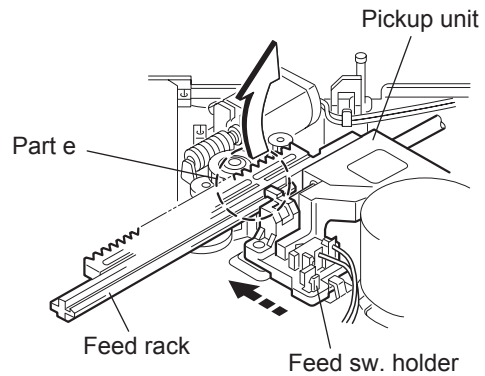


Fig.15

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

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

CAUTION:

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

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

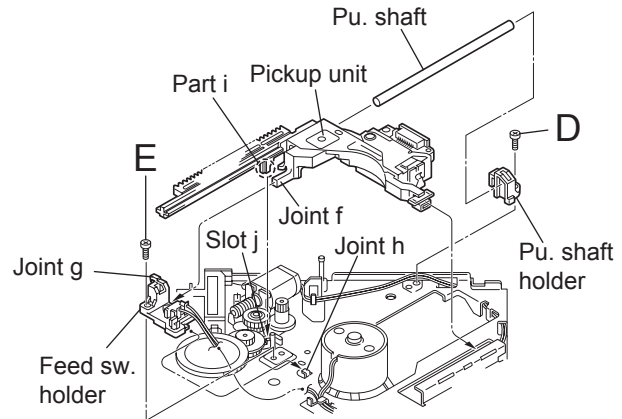


Fig.16

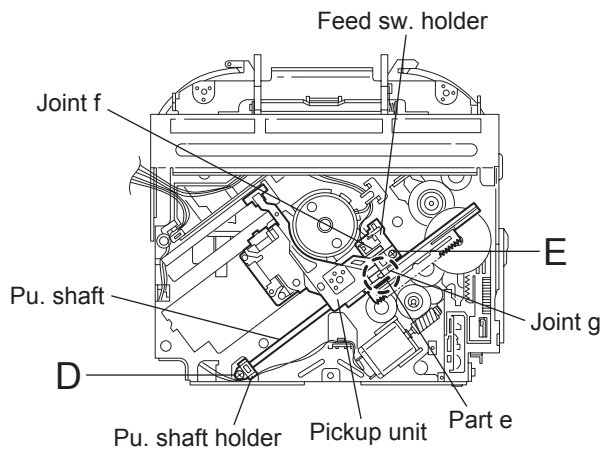


Fig.14

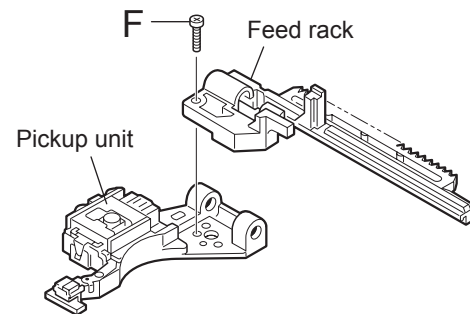


Fig.17

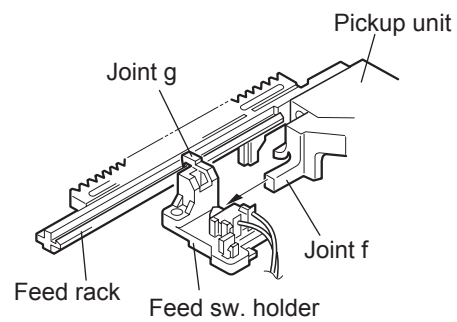


Fig.18

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

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

CAUTION:

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

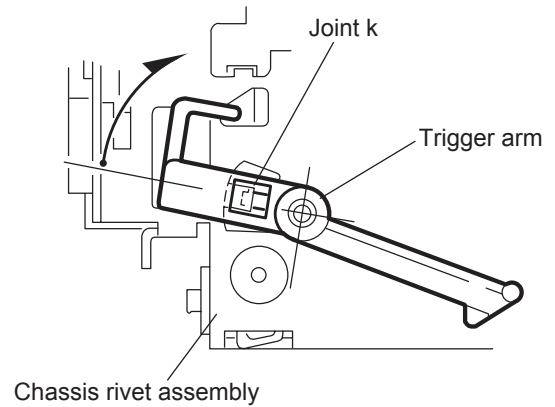


Fig.19

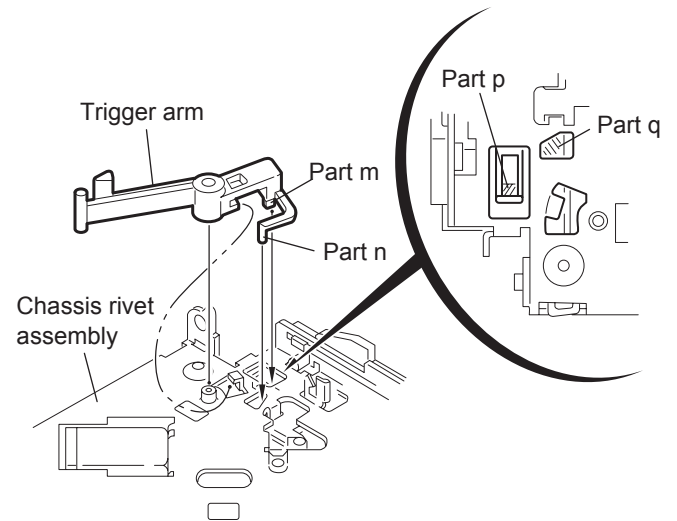


Fig.20

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

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

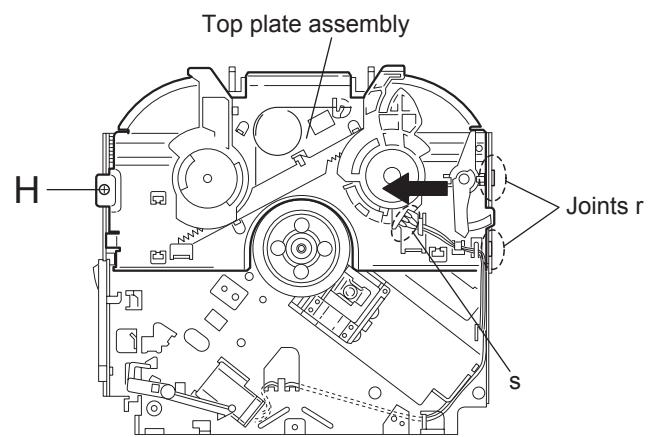


Fig.21

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

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

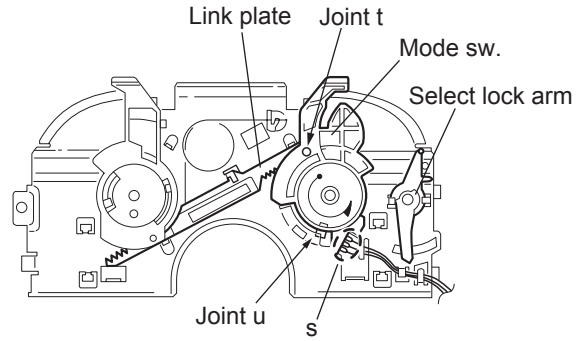


Fig.22

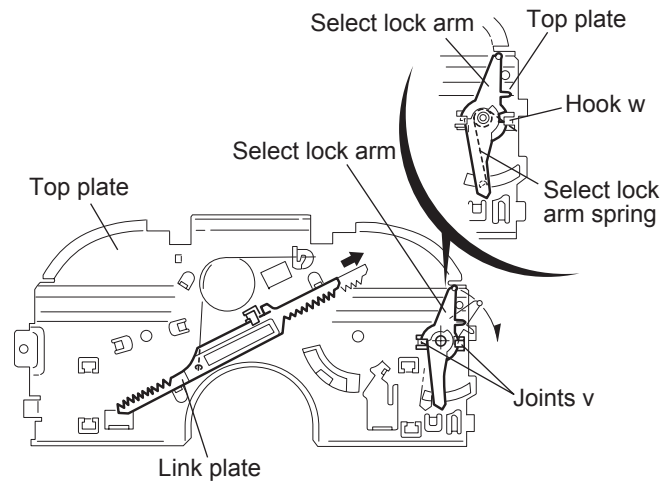


Fig.23

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

REFERENCE:

Reverse the above removing procedure.

- (1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook w on the top plate.
- (2) Set the other longer end of the select lock arm spring to the boss x on the underside of the select lock arm, and join the select lock arm to the slots (joint v). Turn the select lock arm as shown in the figure.
- (3) Reattach the mode sw. while setting the part t to the first peak of the link plate gear, and join the joint u.

CAUTION:

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

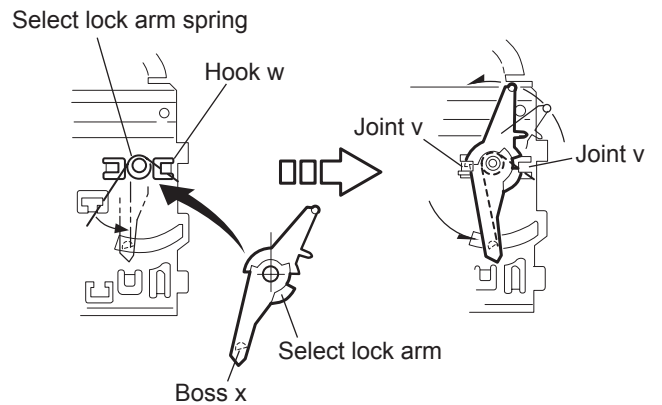


Fig.24

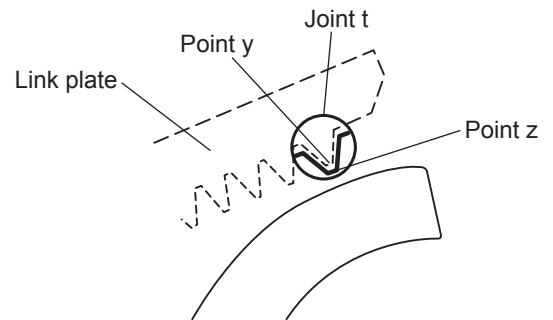


Fig.25

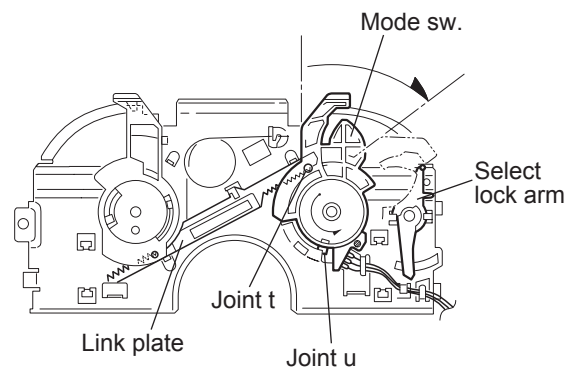


Fig.26

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

• Prior to performing the following procedure, remove the top plate assembly.

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

REFERENCE:

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

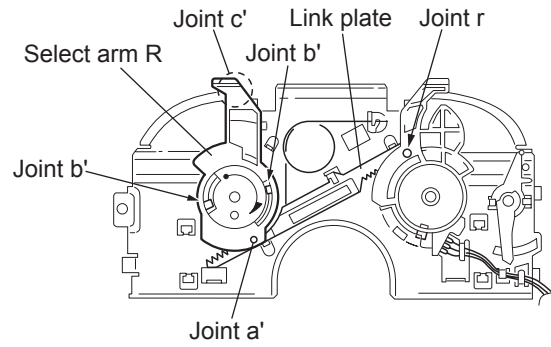


Fig.27

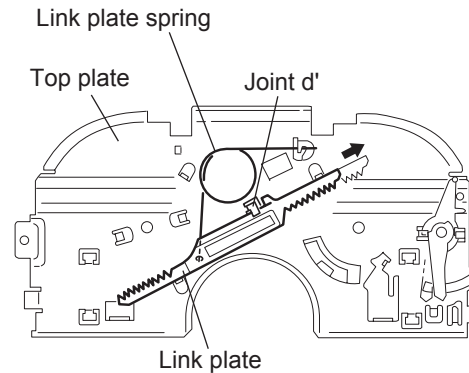


Fig.28

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

REFERENCE:

Reverse the above removing procedure.

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

CAUTION:

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

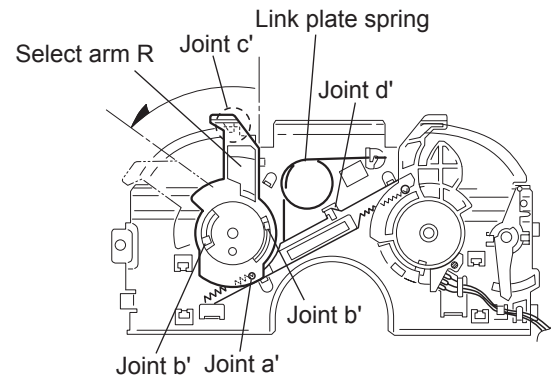


Fig.29

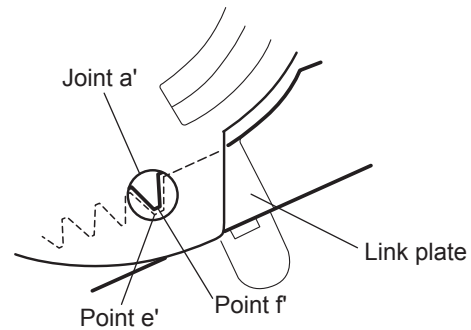


Fig.30

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

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

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

Remove the roller guide and the HL washer from the shaft of the loading roller assembly.

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

CAUTION:

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

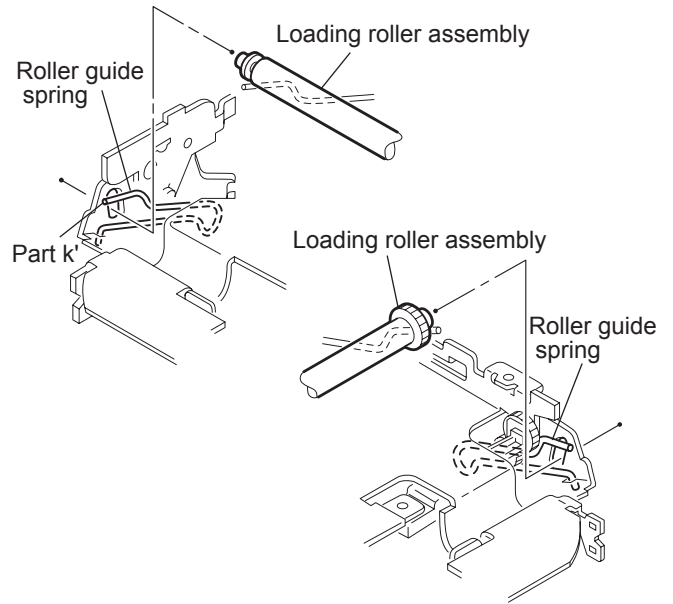


Fig.32

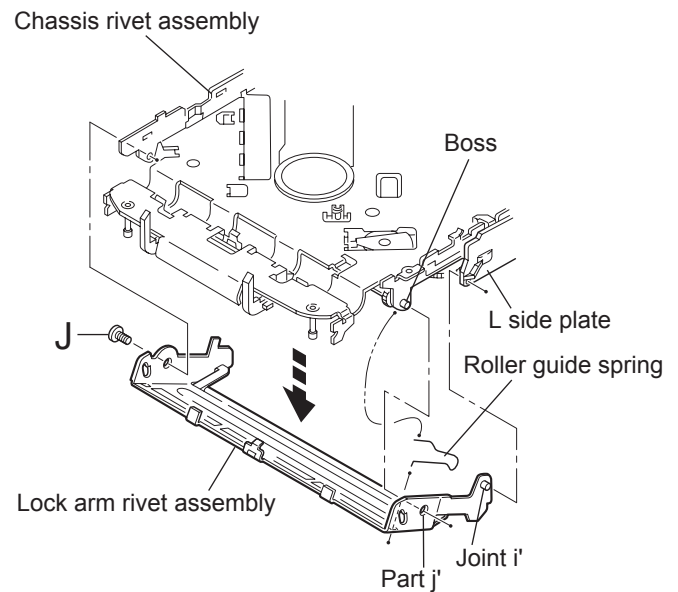


Fig.33

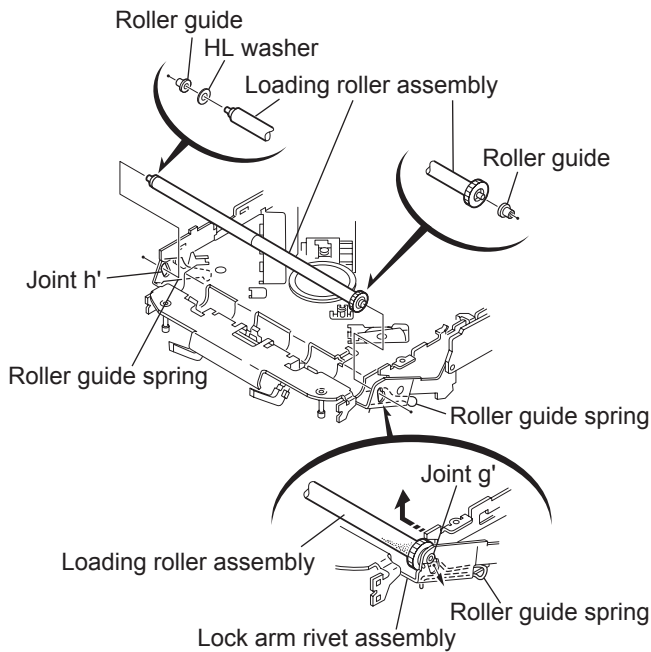


Fig.31

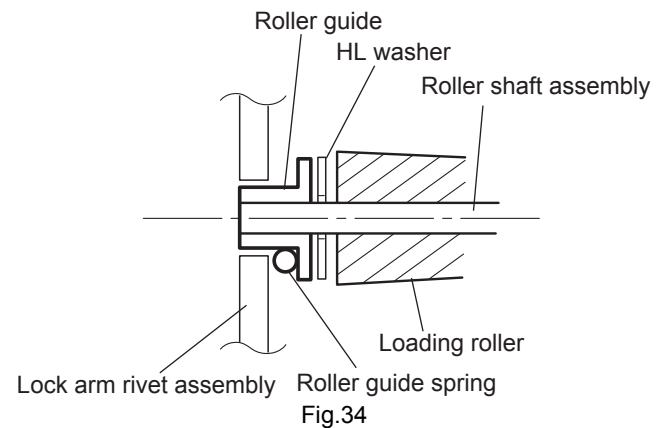
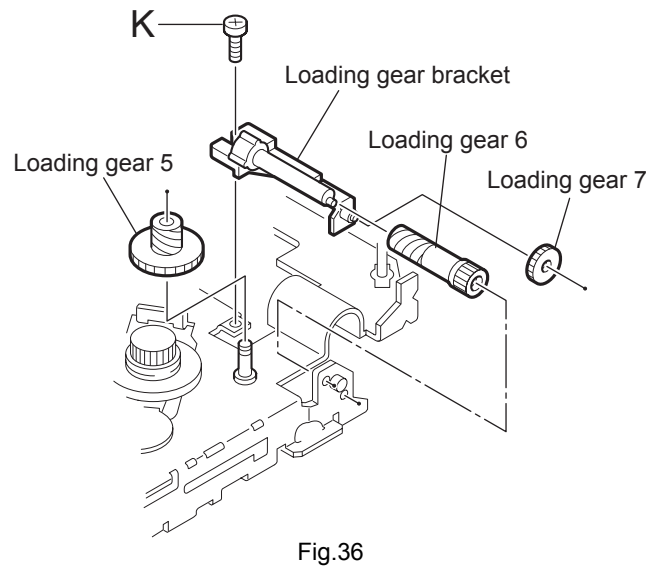
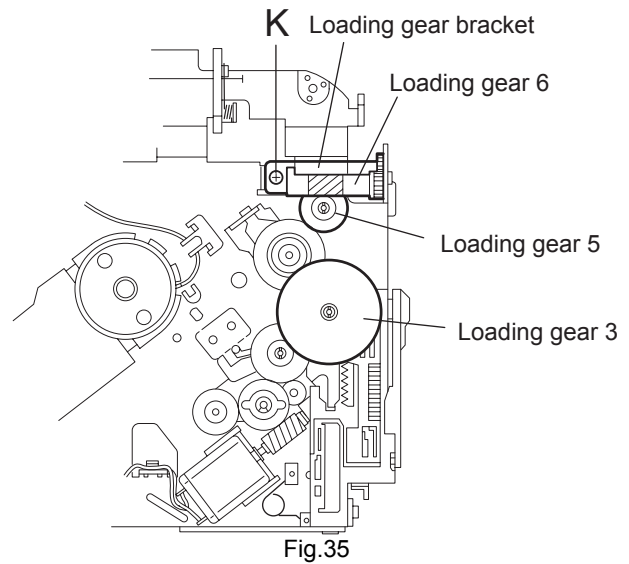


Fig.34

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

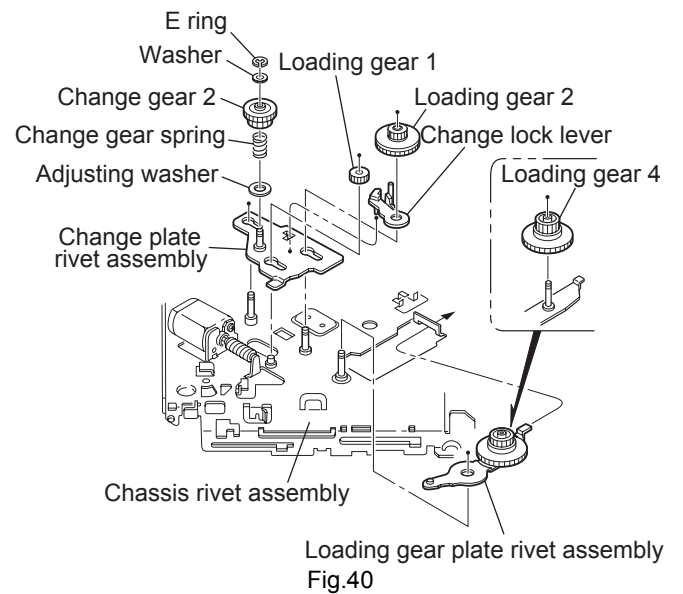
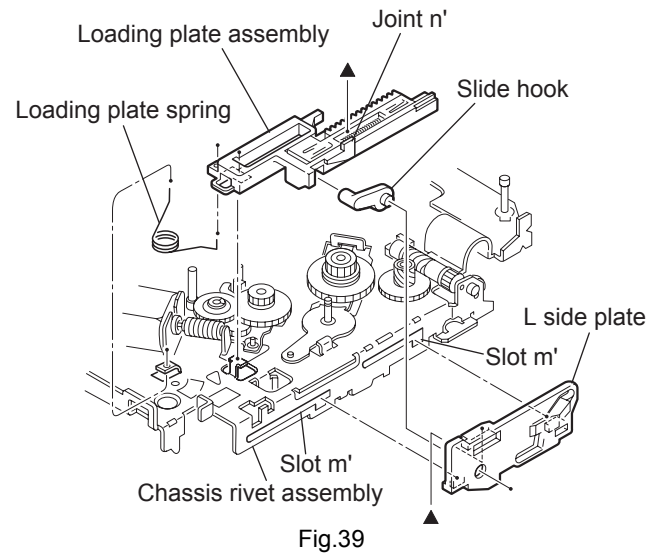
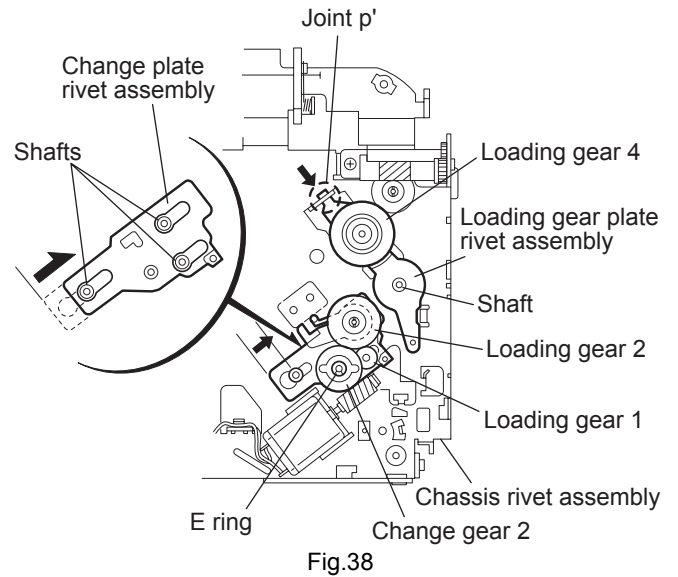
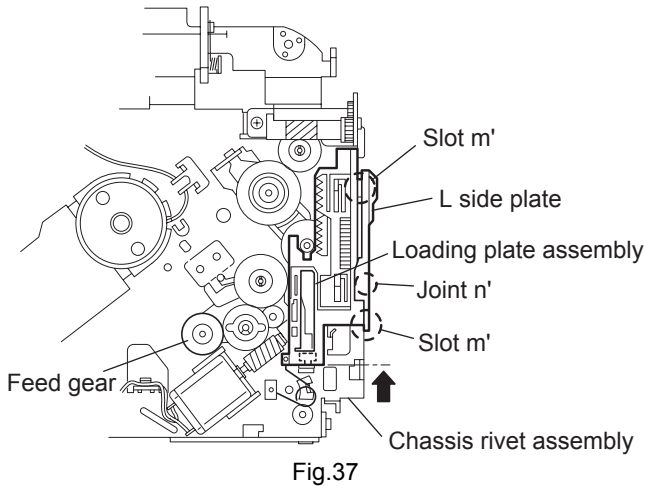
- Prior to performing the following procedure, remove the top cover, chassis unit, pickup unit and top plate assembly.
 - (1) Remove the screw **K** attaching the loading gear bracket.
The loading gear 6 and 7 come off the loading gear bracket.
 - (2) Pull out the loading gear 5.



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

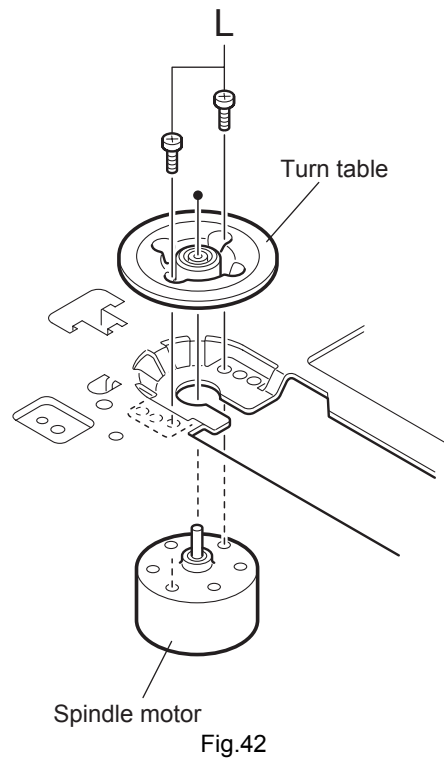
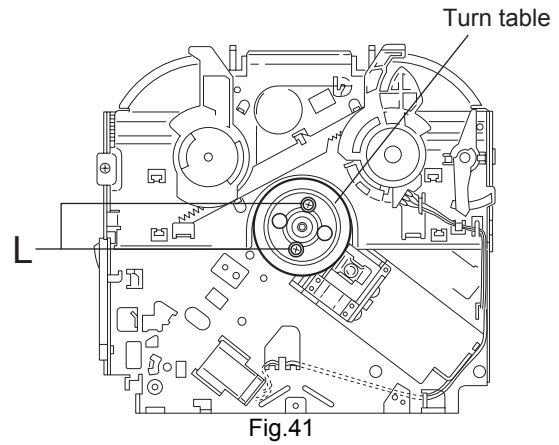
- Prior to performing the following procedure, remove the top cover, chassis unit, top plate assembly and pickup unit.
- Pull out the loading gear 3. (See Fig.35.)

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



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

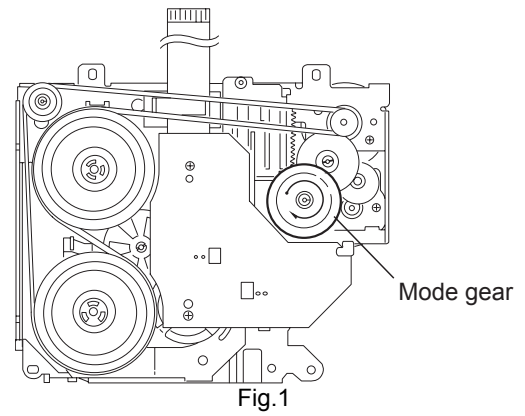
- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and clasper assembly.
 - (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
 - (2) Unsolder the wire on the connector board if necessary.



3.3 Cassette mechanism assembly

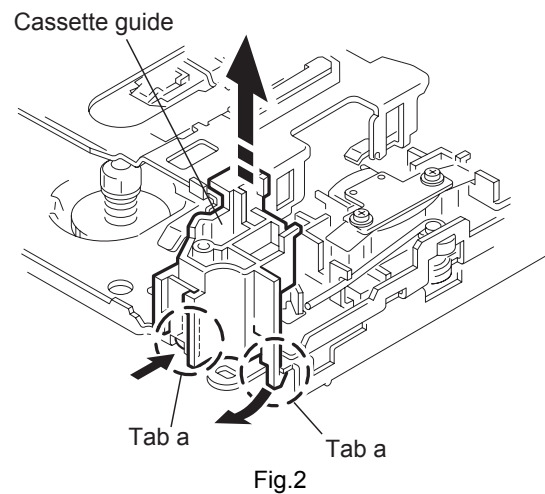
REFERENCE:

Prior to performing the following procedures, turn the mode gear on the bottom of the body until the respective part comes to the EJECT position (Refer to Fig.1).



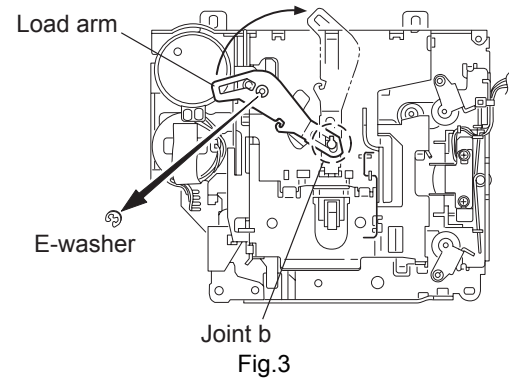
3.3.1 Removing the cassette guide (See Fig.2)

- (1) Turn the mode gear to set to RVS play or subsequent mode.
- (2) Remove the cassette guide from the main chassis while releasing each two joint tabs **a** in the direction of the arrow.



3.3.2 Removing the load arm (See Fig.3)

- (1) Remove the E-washer attaching the load arm.
- (2) Move the load arm in the direction of the arrow and release the joint **b** on the cassette catch.



3.3.3 Removing the cassette hanger assembly / cassette holder (See Fig.4 to 7)

- (1) Check the mode is set to EJECT. Push down the front part of the cassette holder and move in the direction of the arrow to release the joint **c**.
- (2) Move the rear part of the cassette hanger assembly in the direction of the arrow to release it from the two joint bosses **d**.
- (3) Release the holder stabilizer spring from the hooks **e** and **f**, then pull out from the cassette hanger assembly.
- (4) Bring up the rear side of the cassette hanger assembly to release the joint **g** and **h**.
- (5) Pull out the cassette catch from the cassette hanger assembly.

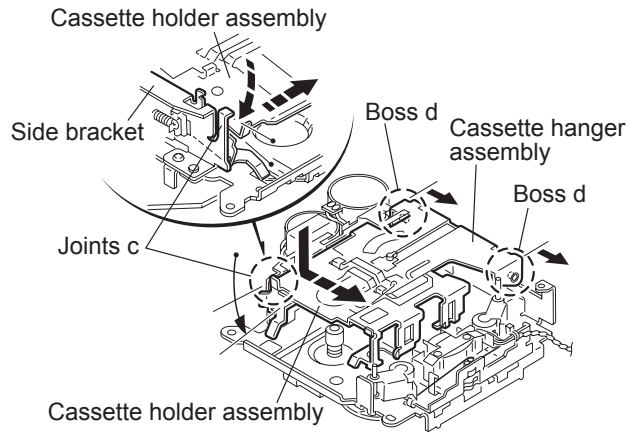


Fig.4

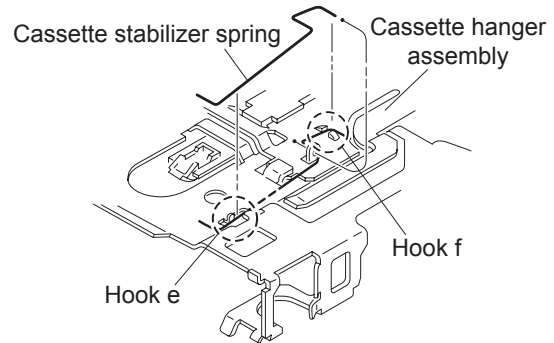


Fig.5

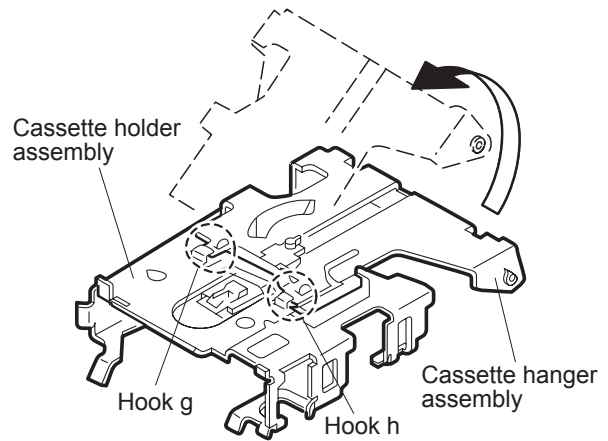


Fig.6

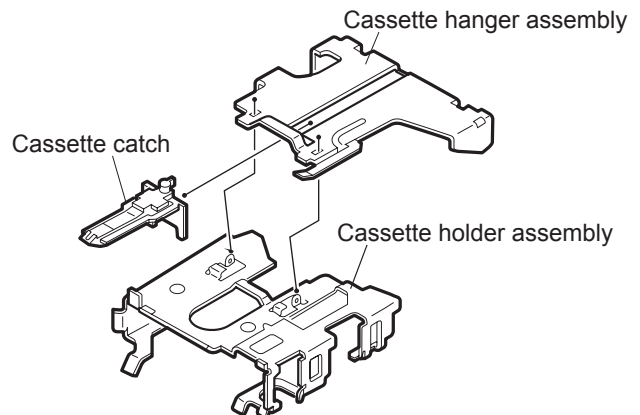


Fig.7

3.3.4 Removing the side bracket assembly (See Fig.8 to 10)

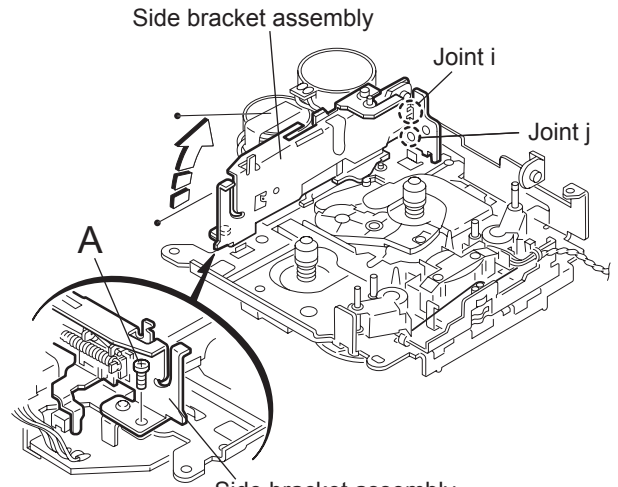
- (1) Remove the screw **A** attaching the side bracket assembly.
- (2) Detach the front side of the side bracket assembly upward and pull out forward to release the joint **i** and **j** in the rear.

CAUTION:

When reassembling, make sure that the boss **k** of the main chassis is set in the notch of the load rack under the side bracket assembly. Do not reattach the load rack on the boss **k**.

CAUTION:

After reattaching the side bracket assembly, confirm operation.



Side bracket assembly
Fig.8

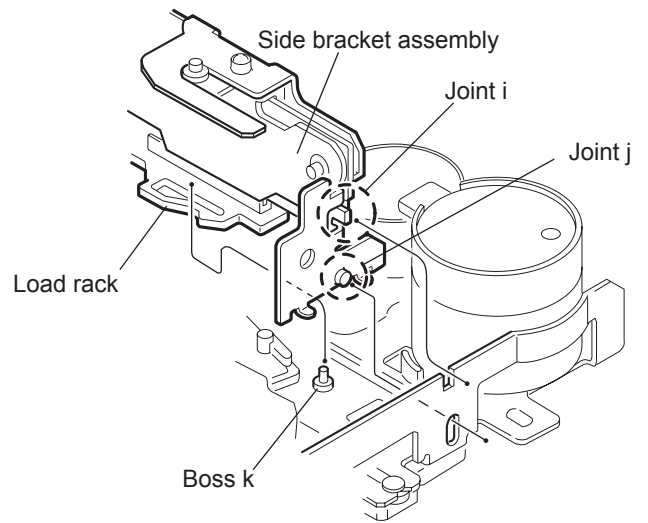


Fig.9

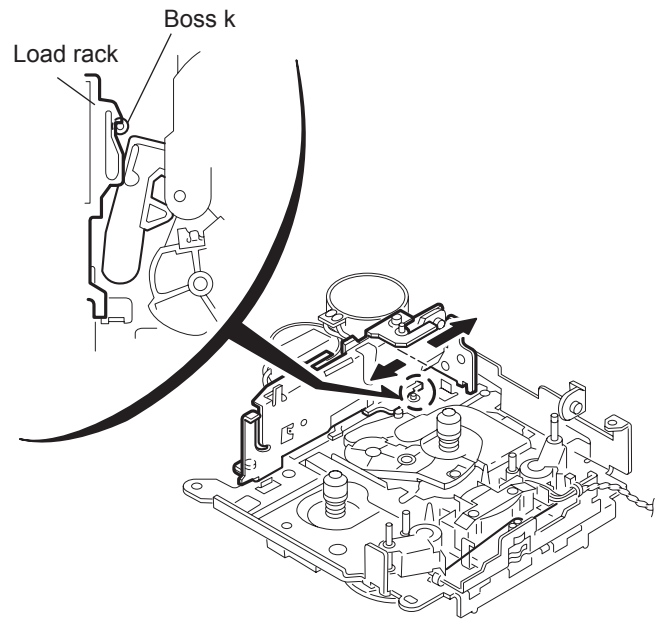


Fig.10

**3.3.5 Removing the pinch arm (F) assembly
(See Fig.11 and 12)**

- (1) Remove the polywasher and pull out the pinch arm (F) assembly.
- (2) Remove the compulsion spring.

**3.3.6 Removing the pinch arm (R) assembly
(See Fig.11 and 12)**

- (1) Remove the polywasher and pull out the pinch arm (R) assembly.

**3.3.7 Removing the slide chassis assembly
(See Fig.13 and 14)**

REFERENCE:

- It is not necessary to remove the head and the tape guide.
- (1) Move the slide chassis assembly in the direction of the arrow to release the two joints I and remove from the main chassis.
 - (2) Remove the rack link.

CAUTION:

When reassembling, first reattach the rack link, and next fit the boss m and hook n of the slide chassis assembly to the hole of the main chassis, and engage the two joints I.

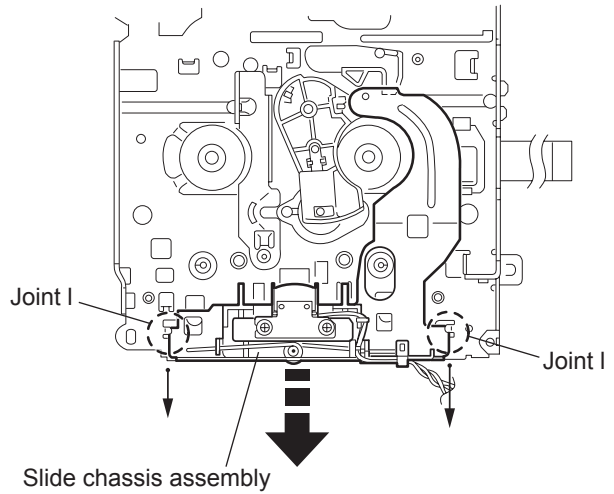


Fig.13

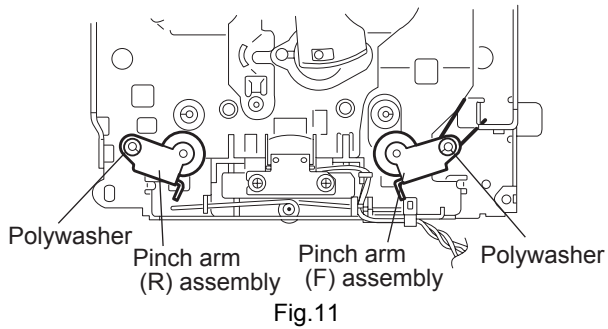


Fig.11

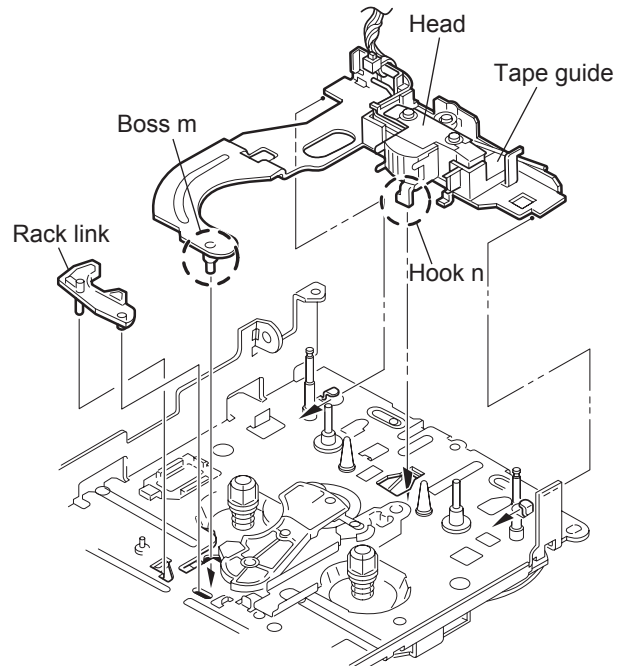


Fig.14

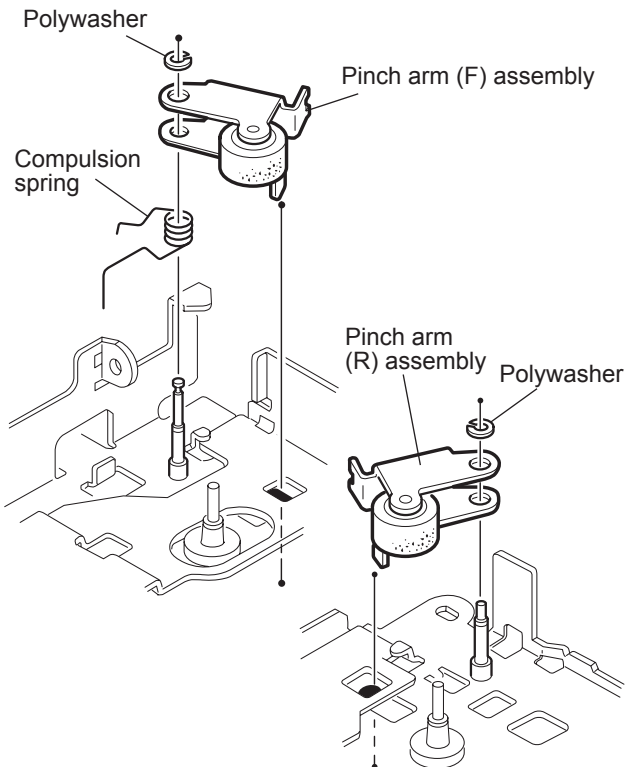


Fig.12

3.3.8 Removing the head / tape guide (See Fig.16 and 17)

REFERENCE:

It is not necessary to remove the slide chassis assembly.

- (1) Remove the band attaching the wire to the head.
- (2) Remove the two screws **B**, the head and the head support spring.
- (3) Remove the pinch arm spring from the tape guide.
- (4) Remove the tape guide and the pinch spring arm.

CAUTION:

When reattaching the pinch arm spring, set both end of it to the pinch spring arm (remarked **o**).

CAUTION:

When reattaching the head, set the wires into the groove of the tape guide (Fig.16).

3.3.9 Removing the flywheel assembly (F) & (R) (See Fig.18 and 19)

REFERENCE:

It is not necessary to remove the slide chassis assembly.

- (1) Remove the belt at the bottom.
- (2) Remove the two polywashers on the upper side.
- (3) Pull out each flywheel assembly downward.

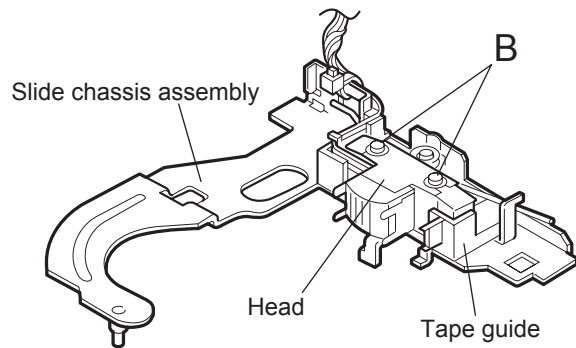


Fig.15

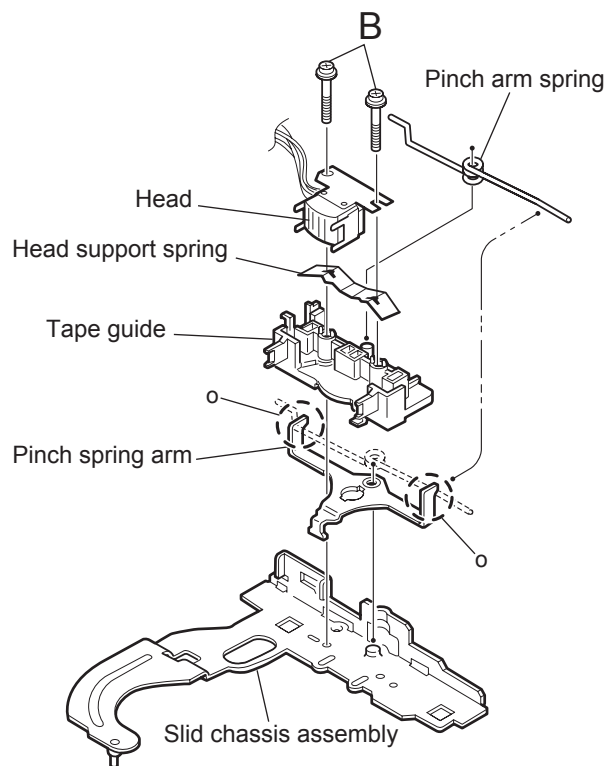
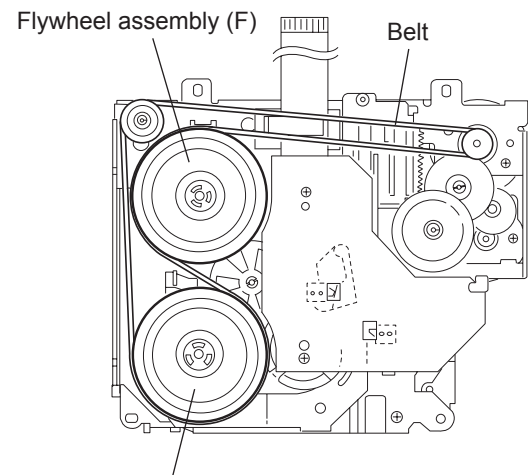
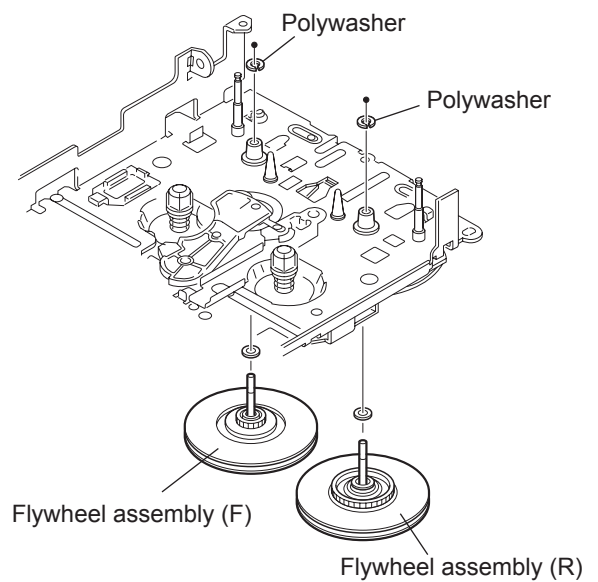


Fig.16



Flywheel assembly (R)

Fig.17



Flywheel assembly (F)

Flywheel assembly (R)

Fig.18

3.3.10 Disassembling the flywheel assembly (F)
(See Fig.19 and 20)

- (1) Push and turn counterclockwise the spring holder (F) to release the three joints p on the bottom of the flywheel.
- (2) The spring holder (F), the TU spring and the friction gear play come off.
- (3) Remove the polywasher and felt.

3.3.11 Disassembling the flywheel assembly (R)
(See Fig.19 and 20)

- (1) Push and turn clockwise the spring holder (R) to release the three joints q on the bottom of the flywheel.
- (2) The spring holder (R), the FF spring and the friction gear FF come off.
- (3) Remove the polywasher and the felt.

3.3.12 Removing the reel board
(See Fig.21 and 22)

- (1) Remove the two screws C attaching the reel board.
- (2) Move the reel board in the direction of the arrow to release the joint r.
- (3) Unsolder the wires if necessary.

CAUTION:

When reattaching, confirm operation of the MODE switch and the ST-BY switch. The mode position between EJECT and ST-BY is optimum for reattaching. Connect the card wire extending from the reel board to the FFC pad before reattaching the reel board.

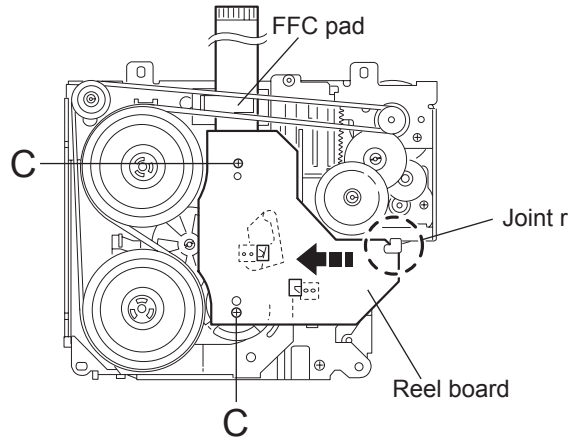


Fig.21

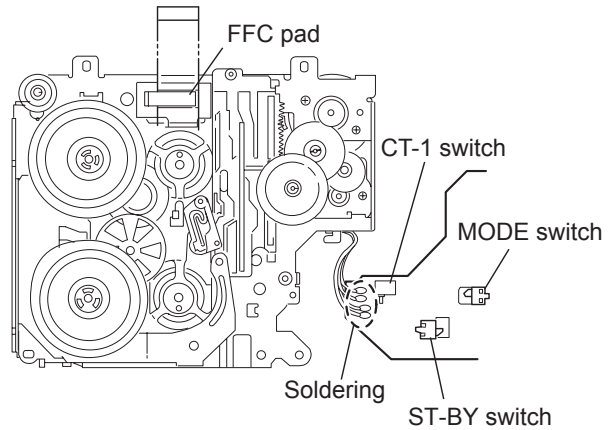


Fig.22

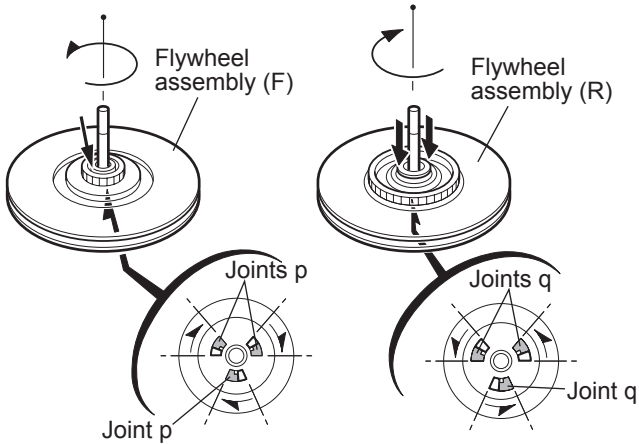


Fig.19

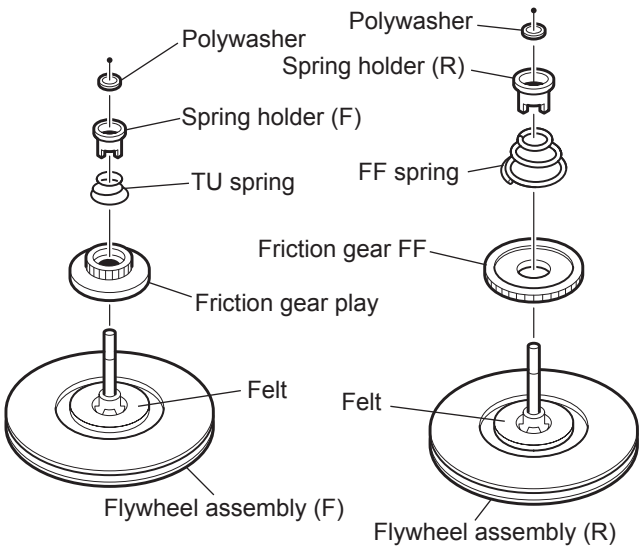


Fig.20

**3.3.13 Removing the gear base arm / gear base link assembly
(See Fig.23 to 25)**

- (1) Move the gear base arm in the direction of the arrow.
- (2) Insert a slotted screwdriver to the gear base spring under the gear base arm, and release the gear base arm upward from the boss on the gear base assembly.
- (3) Remove the gear base arm from the main chassis while releasing the two joints **s**.
- (4) Move the gear base link assembly in the direction of the arrow to release the two joints **t**.

REFERENCE:

When reattaching the gear base arm, make sure that the boss on the gear base assembly is inside the gear base spring.

**3.3.14 Removing the FFC pad
(See Fig.25 and 27)**

- (1) Push each joint hook **u** of the FFC pad and remove toward the bottom.

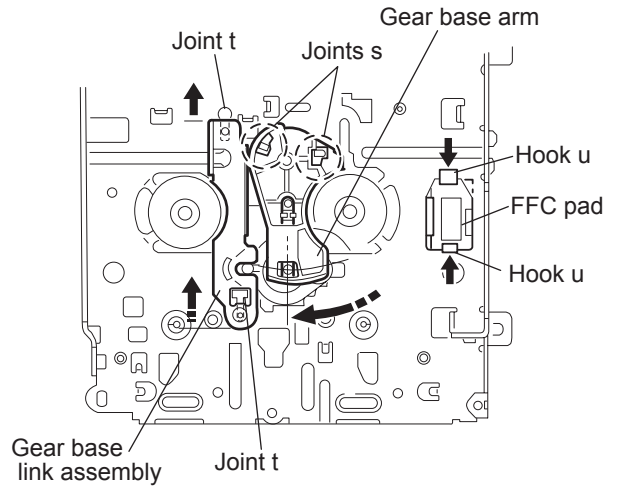


Fig.23

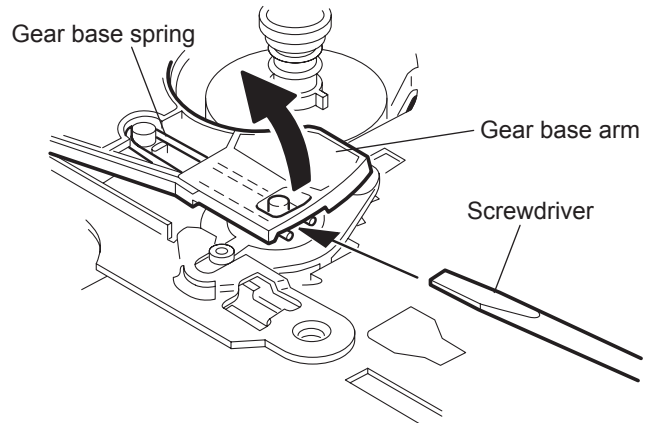


Fig.24

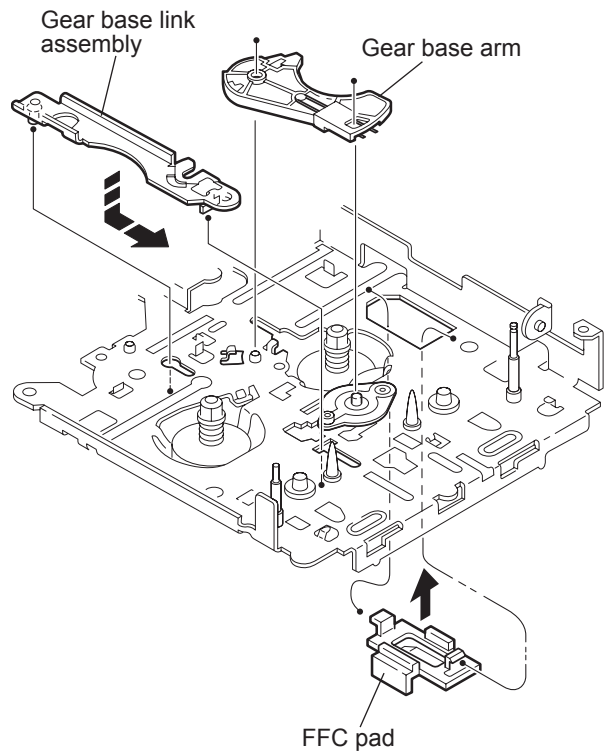


Fig.25

3.3.15 Removing the mode gear
(See Fig.26 and 29)

- (1) Remove the polywasher on the bottom and pull out the mode gear.

3.3.16 Removing the mode switch actuator
(See Fig.26, 27 and 29)

- (1) Pull out the mode switch actuator at the bottom.

REFERENCE:

When reattaching the mode switch actuator to the main chassis, make sure to set on the shaft and insert **v** into the slot **w**.

3.3.17 Removing the direction link / direction plate
(See Fig.27 to 29)

- (1) Remove the polywasher attaching the direction link.
- (2) Bring up the direction link to release the three joints **x**, **y** and **z** at a time.
- (3) Move the direction plate in the direction of the arrow to release the two joints **a**'.

REFERENCE:

When reattaching the direction plate, engage the two joints **a**' and move in the direction of the arrow (Refer to Fig.28).

REFERENCE:

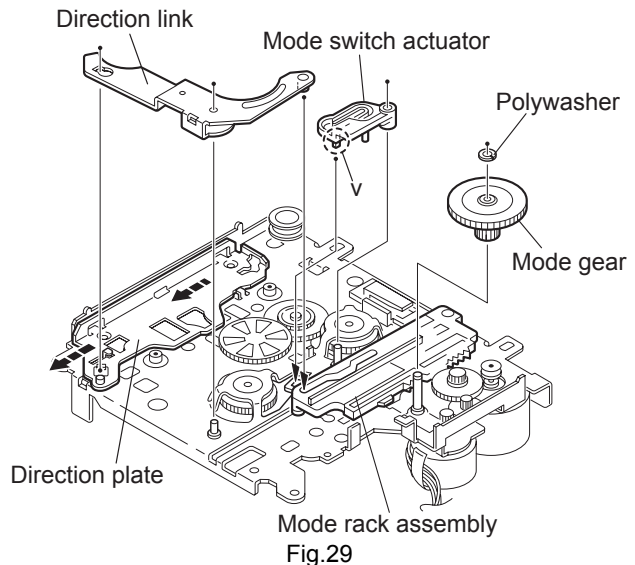
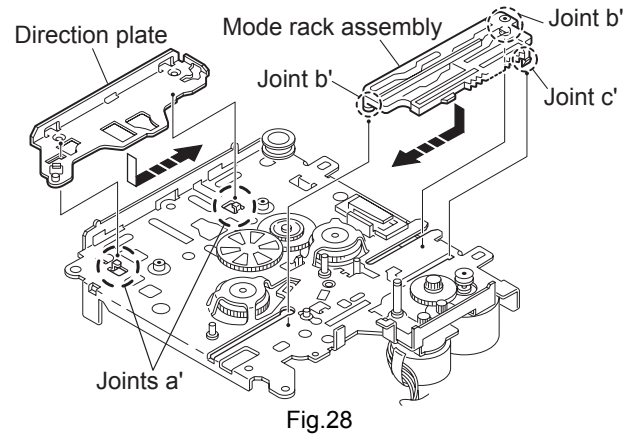
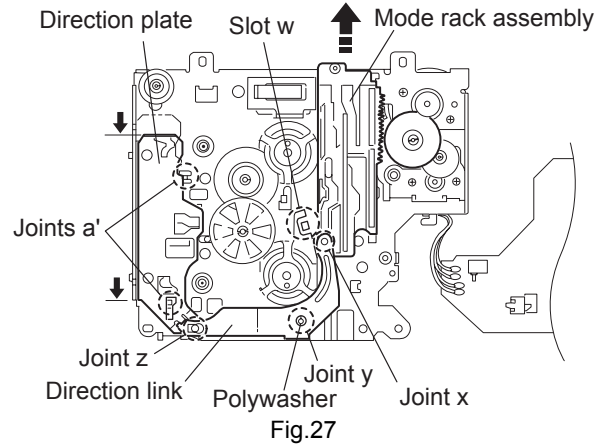
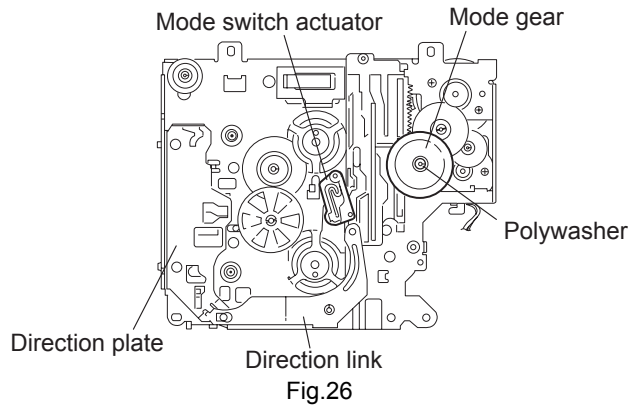
When reattaching the direction link, move the direction plate in the direction of the arrow and engage the three joint **x**, **y** and **z** at a time (Refer to Fig.29).

3.3.18 Removing the mode rack assembly
(See Fig.27 and 28)

- (1) Move the mode rack assembly in the direction of the arrow to release the two joints **b**' and the joint **c**'.

REFERENCE:

When reattaching, set the two **b**' on the bottom of the mode rack assembly into the slots of the main chassis and move in the direction of the arrow (See Fig.28).



3.3.19 Removing the gear base assembly / take up gear / reflector gear
(See Fig.30 to 32)

- (1) Push in the pin **d'** of the gear base assembly on the upper side of the body and move the reflector gear toward the bottom, then pull out.
- (2) Remove the polywasher on the bottom and pull out the take up gear.
- (3) Move the gear base assembly in the direction of the arrow to release it from the two slots **e'** of the main chassis.

REFERENCE:

The parts are damaged when removed. Please replace with new ones.

3.3.20 Removing the reel driver / reel spindle
(See Fig.32)

- (1) Draw out the reel driver from the shaft on the main chassis and remove the reel driver spring and the reel spindle respectively.

CAUTION:

The reel driver is damaged when removed. Please replace with a new one.

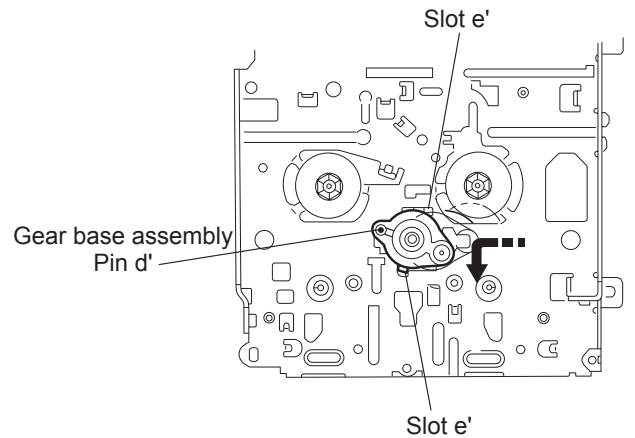


Fig.30

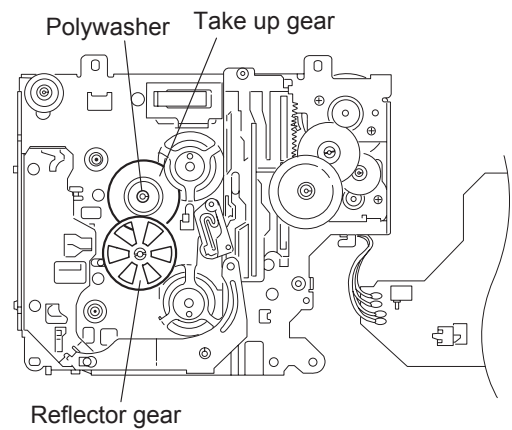


Fig.31

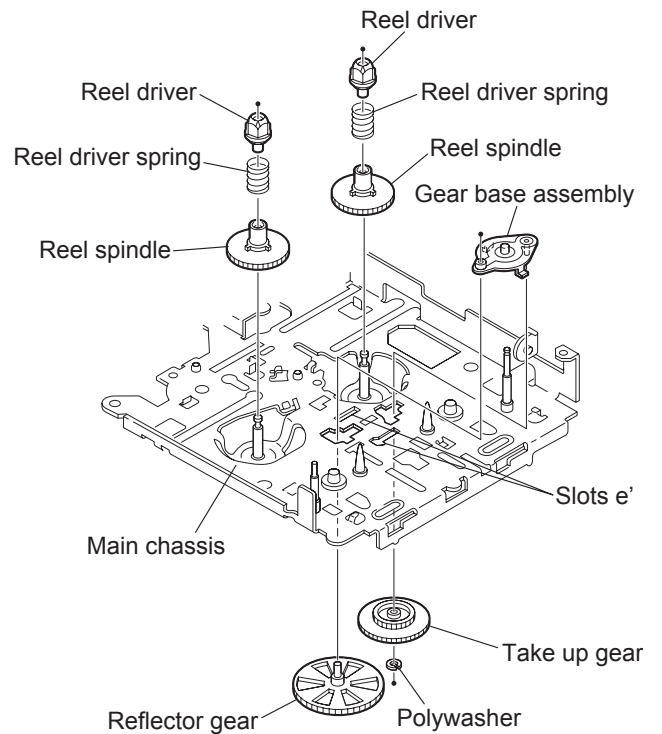


Fig.32

**3.3.21 Removing the side bracket assembly
(See Fig.33 to 37)**

- (1) Remove the eject cam plate spring.
- (2) Push the joint f' through the slot to remove the load rack downward.
- (3) Move the eject cam limiter in the direction of the arrow to release it from the boss g' of the side bracket assembly and from the two joints h'.
- (4) Move the eject cam plate in the direction of the arrow to release the joint i'.

CAUTION:

When reassembling, confirm operation of each part before reattaching the eject cam plate spring.

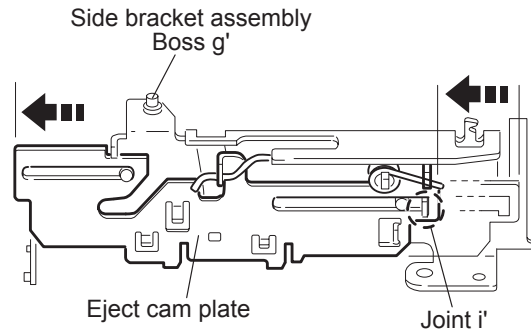


Fig.36

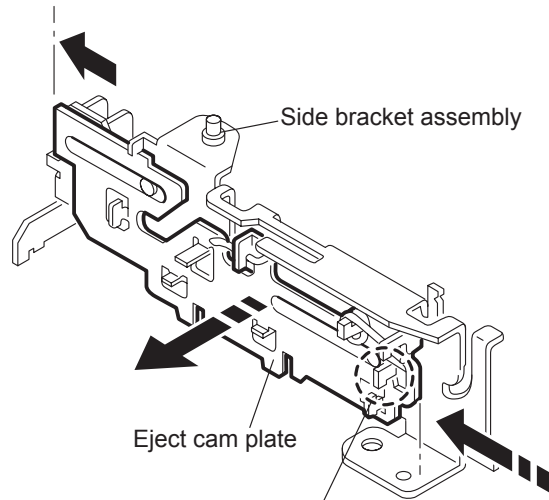


Fig.37

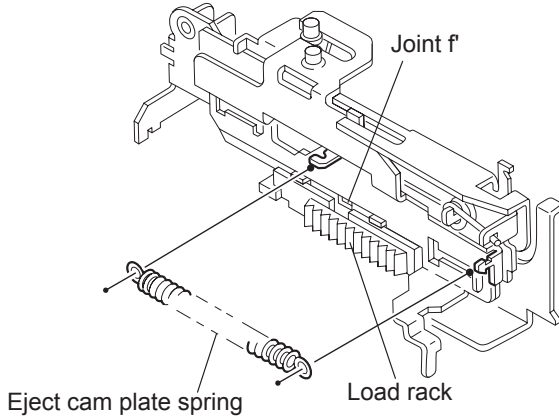


Fig.33

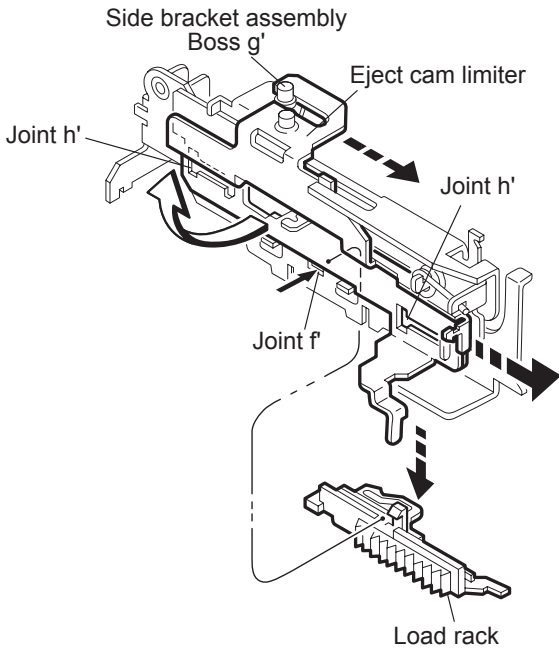


Fig.34

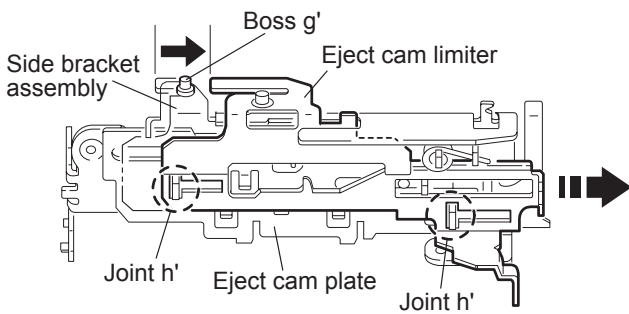


Fig.35

3.3.22 Removing the main motor assembly / sub motor assembly
(See Fig.38 to 40)

- (1) Remove the belt at the bottom.
- (2) Remove the polywasher and pull out the mode gear.
- (3) Pull out the reduction gear **(B)**.
- (4) Remove the polywasher and pull out the reduction gear **(A)**.
- (5) Remove the two screws attaching the main motor assembly.
- (6) Remove the two screws **E** attaching the sub motor assembly.
- (7) Unsolder the wires on the reel board if necessary.

CAUTION:

When reassembling, adjust the length of the wires extending from the sub motor assembly by attaching them to the side of the sub motor assembly with the wires extending from the main motor assembly using a spacer.

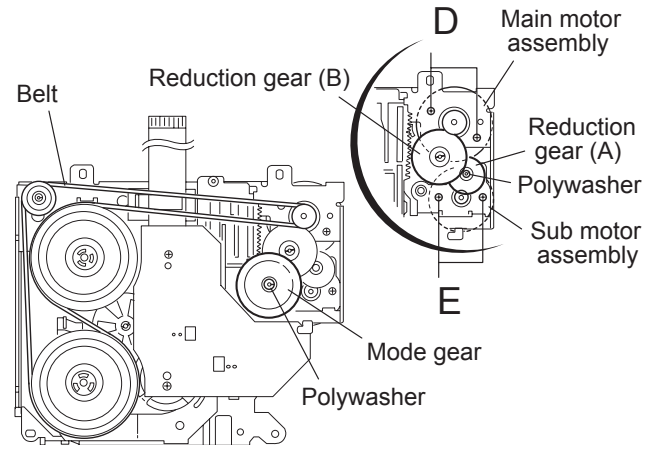


Fig.38

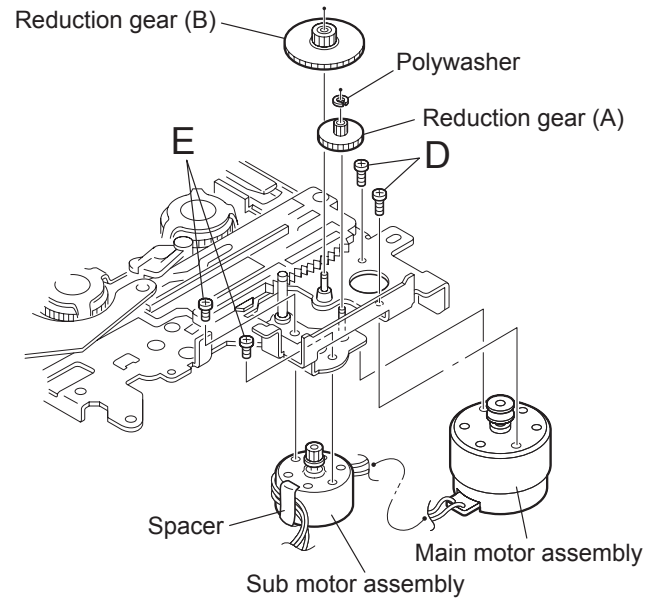


Fig.39

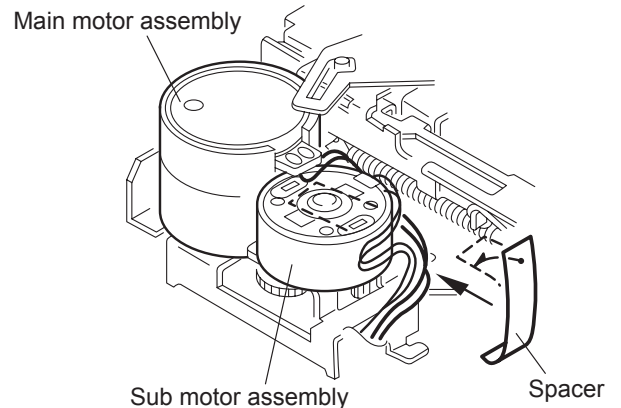


Fig.40

SECTION 4 ADJUSTMENT

4.1 Adjustment method

4.1.1 Test instruments required for adjustment

- (1) Digital oscilloscope (100MHz)
- (2) Frequency counter meter
- (3) Electric voltmeter
- (4) Wow & flutter meter
- (5) Test tapes
 - VT724:for DOLBY level measurement
 - VT739:For playback frequency measurement
 - VT712:For wow flutter & tape speed measurement
 - VT703:For head azimuth measurement
- (6) Torque gauge:Cassette type for CTG-N(Mechanism adjustment)
- (7) Test disc (JVC:CTS1000)

4.1.2 Measuring conditions (Amplifier section)

Power supply voltage :DC14.4V(11 to 16V allowance)

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

Output Level :1.0V/20k Ω load (250 nWb/m)

4.1.3 Standard volume position

Balance and Bass, Treble volume, Fader:Center (Indication "0")

Loudness, Dolby NR, Sound, Cruise : Off

Volume position is about 2V at speaker output with following conditions, Playback the test tape VT721.

AM mode :999kHz/62dB, INT/400Hz, 30% modulation signal on receiving.

FM mono mode :97.9MHz/66dB, INT/400Hz, 22.5kHz deviation pilot off mono

FM stereo mode Output level :1kHz, 67.5kHz dev. pilot 7.5kHz dev. 0dB (1 μ V,50 Ω /open terminal)

4.1.4 Information for using a car audio service jig

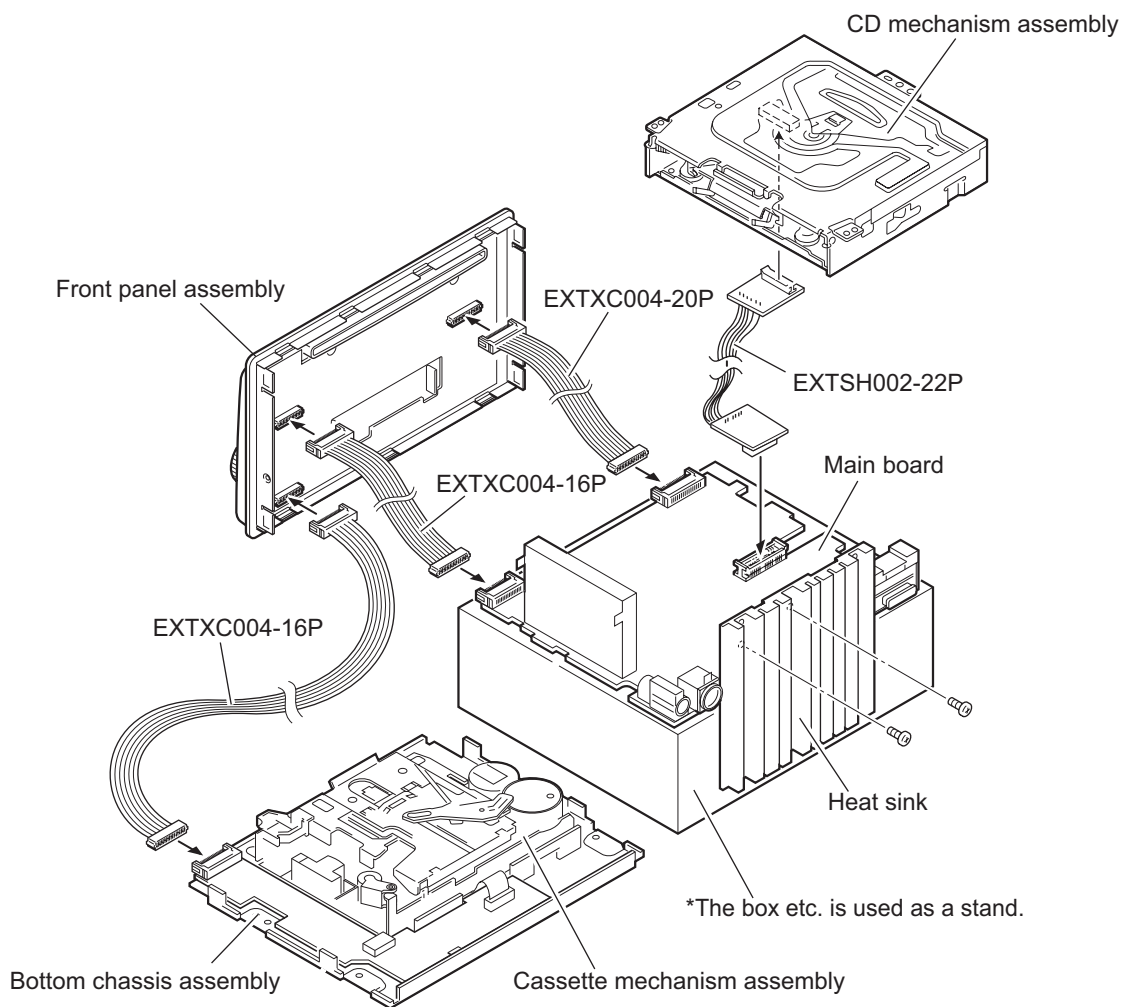
- (1) We're advancing efforts to make our extension cords common for all car audio products.
Please use this type of extension cord as follows.
- (2) As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
- (3) Extension cord
: EXTSH002-22P (22 pin extension cord) For connection between the mechanism assembly and main board.
: EXTXC004-20P (20 pin extension cord) For connection between the front panel assembly and main board.
: EXTXC004-16P (16 pin extension cord) For connection between the front panel assembly and main board.
: EXTXC004-16P (16 pin extension cord) For connection between the front panel assembly and cassette mechanism assembly.
- (4) Check for mechanism driving section such as motor ,etc.

4.1.5 Disassembly method

- (1) Remove the front panel assembly.
- (2) Remove the heat sink.
- (3) Remove the rear bracket.
- (4) Remove the bottom chassis assembly and middle chassis assembly.
- (5) Remove the main board.
- (6) Remove the CD mechanism assembly.
- (7) Reattach the heat sink with two screws to the main board. (Refer to Disassembly method.)
- (8) Connect the main board, front panel assembly, bottom chassis assembly and CD mechanism assembly with the extension cords

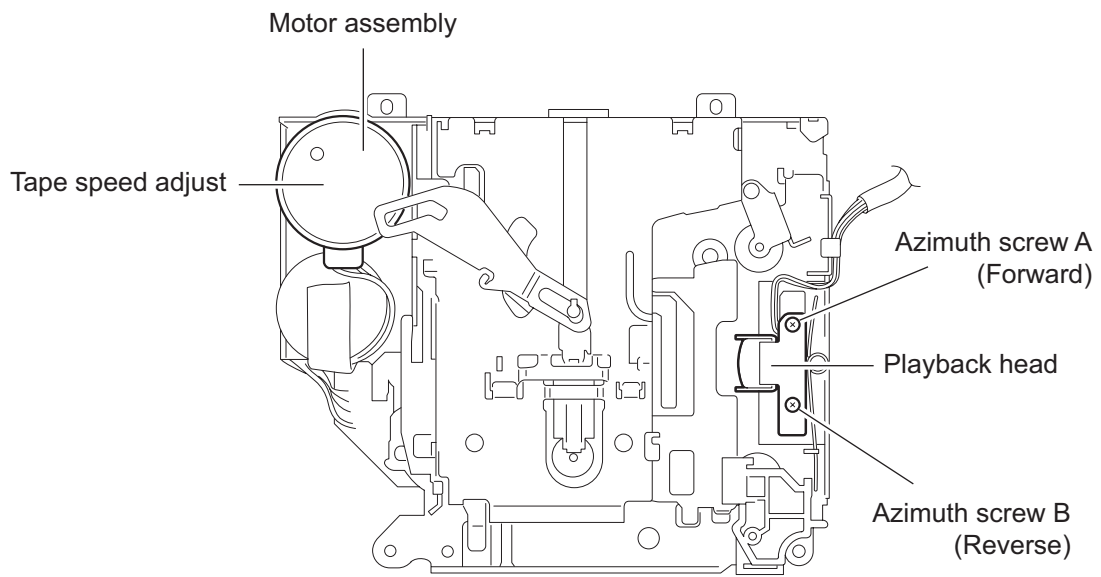
CAUTION:

**Be sure to attach a heat sink on the power amplifier IC of a main board when supplying the power.
If voltage is applied without attaching the heat sink, the power amplifier IC will be destroyed by heat.**

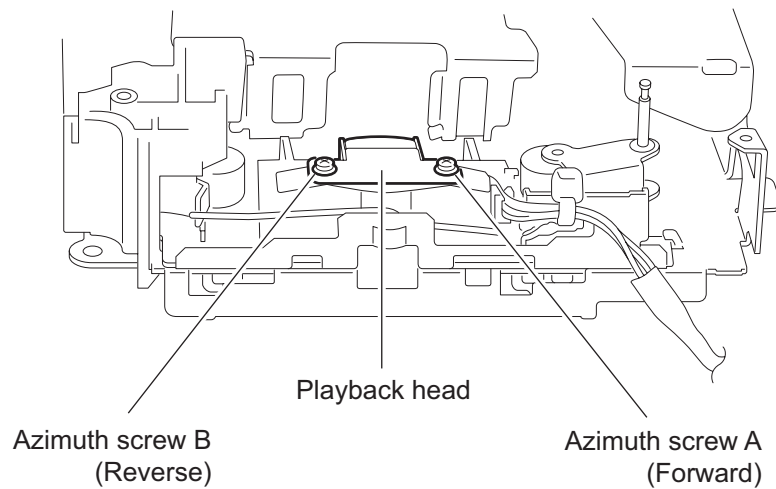


4.1.6 Arrangement of adjusting & test points

Cassette mechanism
(Surface)



Head section view

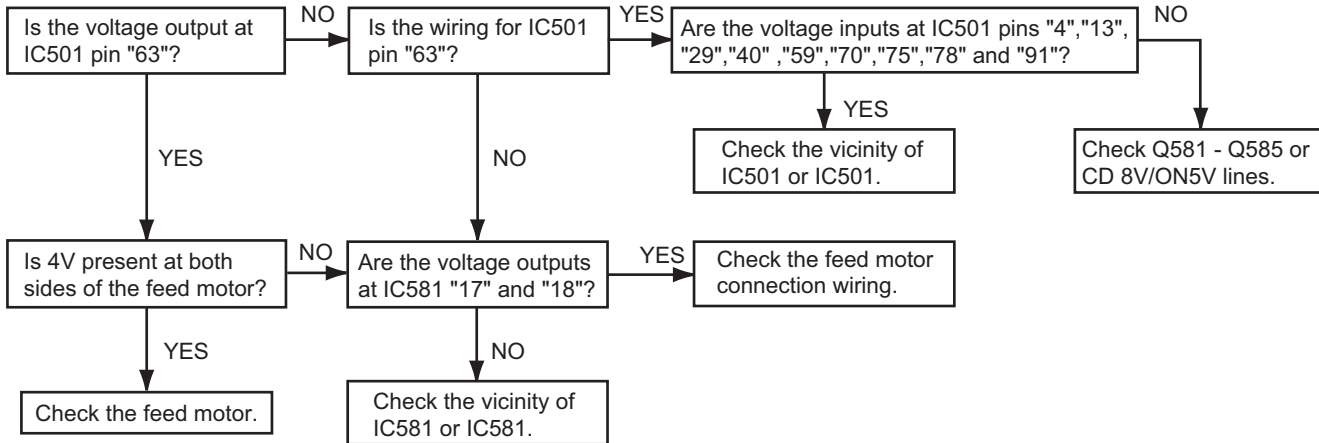


Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. Head azimuth adjustment	Test tape: SCC-1659 VT703 (10kHz) Test tape: VT724 (1kHz) VT703 (10kHz) VT721 (315Hz)	<p>◆ Head height adjustment</p> <p>※ Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment.</p> <ol style="list-style-type: none"> 1. Load the SCC-1659 mirror tape. Adjust with height adjustment screw A and azimuth adjustment screw B so that line A of the mirror tape runs in the center between Lch and Rch in the reverse play mode. 2. After switching from REV to FWD then to REV, check that the head position set in procedure 1 is not changed. (If the position has shifted, adjust again and check.) 3. Adjust with azimuth adjustment screw B so that line B of the mirror tape runs in the center between Lch and Rch in the forward play mode. <p>◆ Head azimuth adjustment</p> <ol style="list-style-type: none"> 1. Load VT724 (1kHz) and play it back in the reverse play mode. Set the Rch output level to max. 2. Load VT703 (10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to max, with azimuth adjustment screw B. In this case, the phase difference should be within 45°. 3. Engage the reverse mode and adjust the output level to max, with azimuth adjustment screw C. (The phase difference should be 45° or more.) 4. When switching between forward and reverse modes, the difference between channels should be within 3dB. (Between FWD L and R, REV L and R.) 5. When VT721 (315Hz) is played back, the level difference between channels should be within 1.5dB. 	<p>Head shield</p> <p>The head is at low position during.</p> <p>Head shield</p> <p>The head is at High position during REV.</p> <p>Output level: Maximum</p> <p>PBHead</p> <p>FWD Adj B</p> <p>REV Adj C</p> <p>HEIGHT Adj A</p> <p>(0°) phase (45°)</p>	
2. Tape speed and wow flutter confirmation	Test tape: VT712 (3kHz)	<ol style="list-style-type: none"> 1. Check to see if the reading of the F, counter / wow flutter meter is within 3015Hz to 3045Hz (FWD/ REV), and less than 0.35% (JIS RMS). 2. In case of out of specification, adjust the motor with a built-in volume resistor. 	Tape speed: 3015Hz to 3045Hz Wow flutter: less than 0.35%	Built-in volume resistor
3. Playback frequency response confirmation	Test tape: VT724 (1kHz) VT739 (63Hz / 1kHz / 10kHz)	<ol style="list-style-type: none"> 1. Play test tape VT724, and set the volume position at 2V. 2. Play test tape VT739 and confirm. 1kHz / 10kHz: -1 ± 3dB, 1kHz / 63Hz: 0 ± 3dB, 3. When 10kHz is out of specification, it will be necessary to read adjust the azimuth. 	Speaker out 1kHz / 63Hz : 0 ± 3dB 1kHz / 10kHz : -1 ± 3dB	

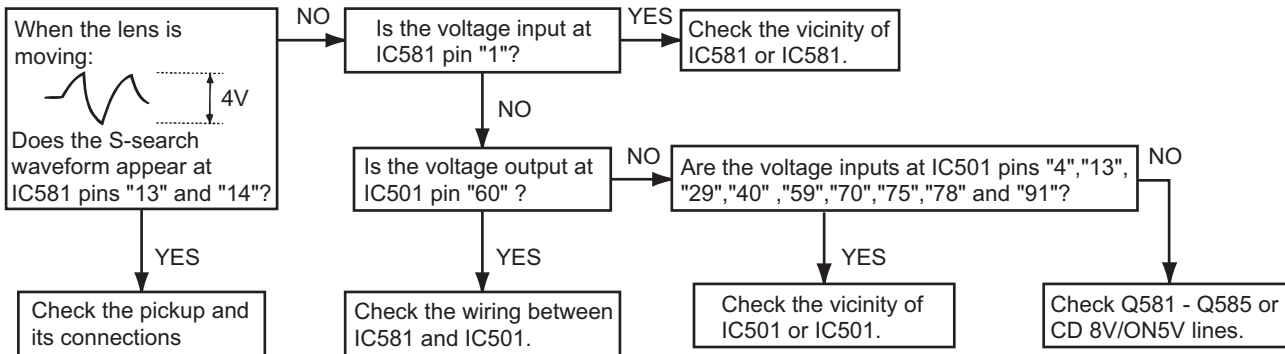
The tuner section is of an adjustment-free design. In case the tuner is in trouble, replace the tuner pack.

SECTION 5 TROUBLESHOOTING

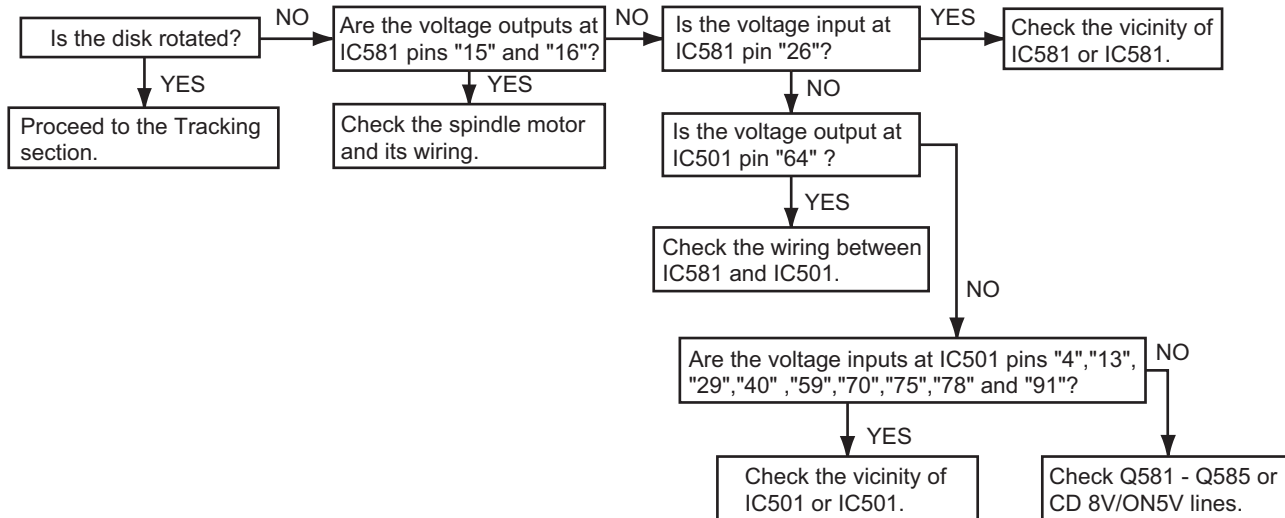
5.1 Feed section



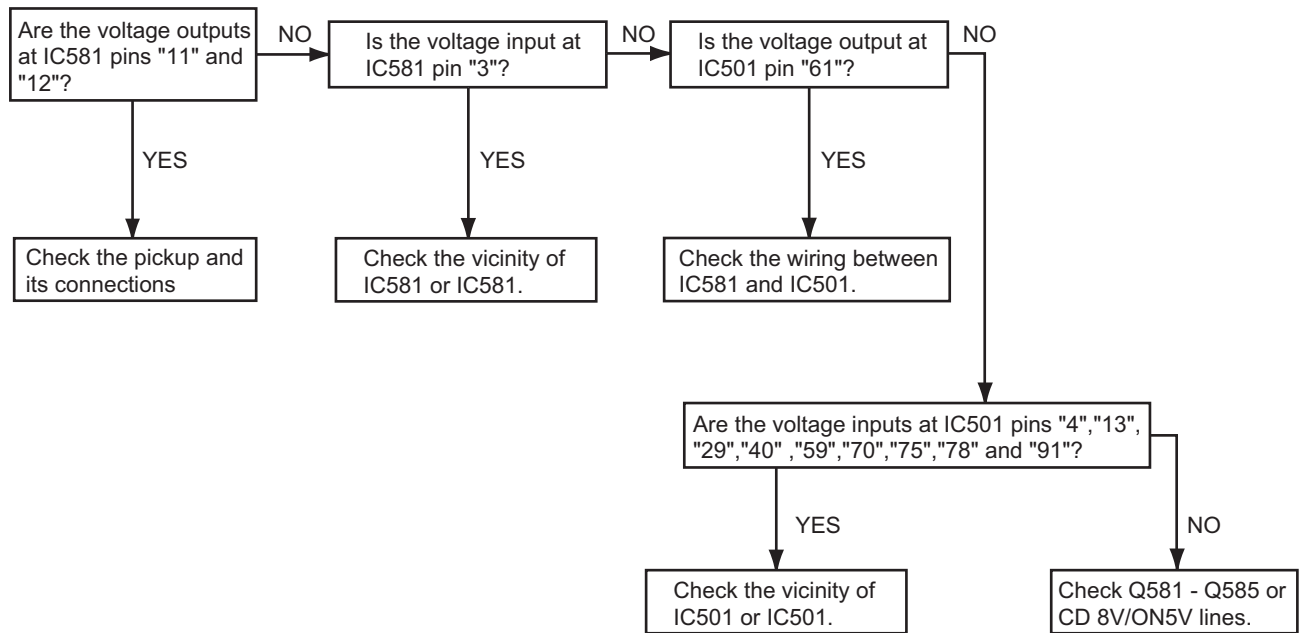
5.2 Focus section



5.3 Spindle section



5.4 Tracking section



5.5 Maintenance of laser pickup

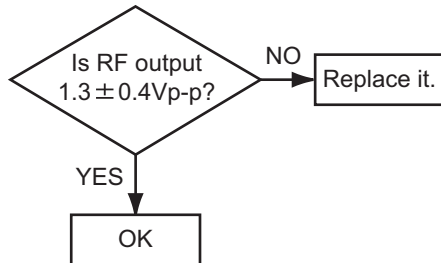
(1) Cleaning the pick up lens

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

(2) Life of the laser diode

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

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



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

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

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

5.6 Replacement of laser pickup

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

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

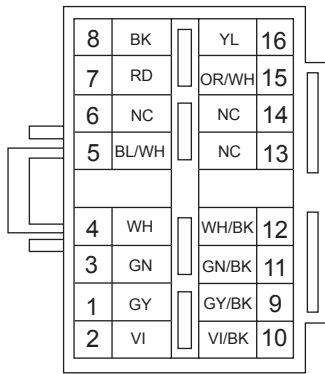
Plug the power cord in, and turn the power on. At this time, check that the laser emits for about 3 seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.

Play a disc.

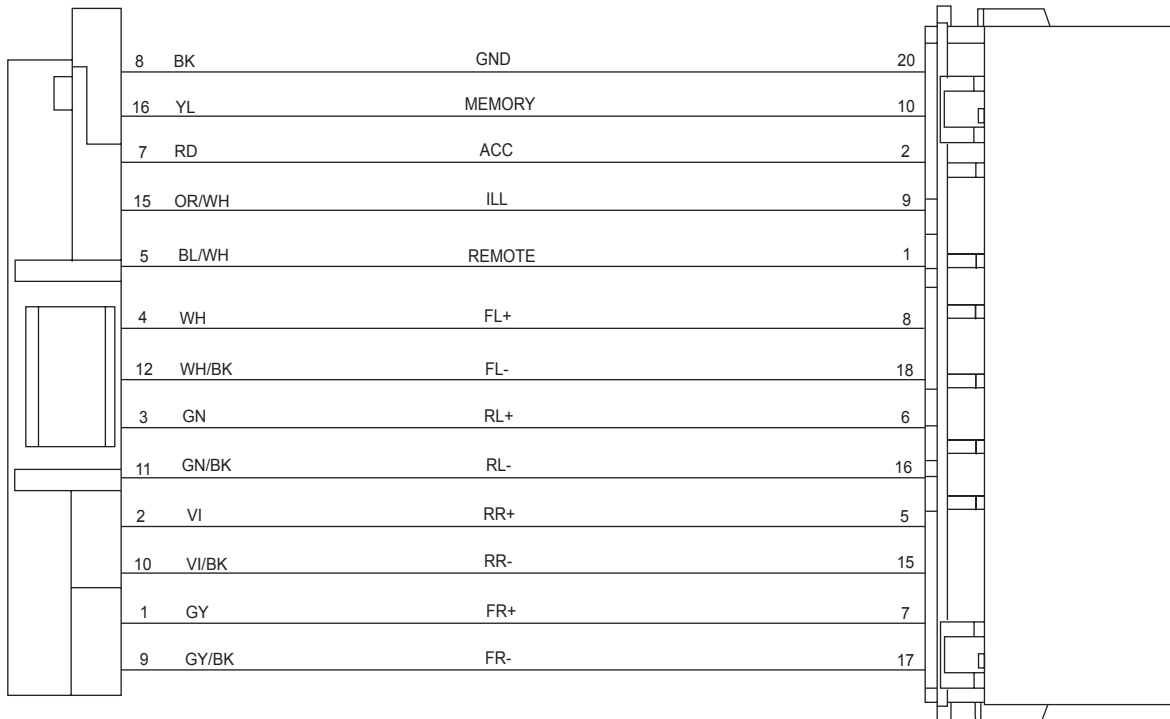
Check the eye-pattern at RF TEST POINT.

Finish.

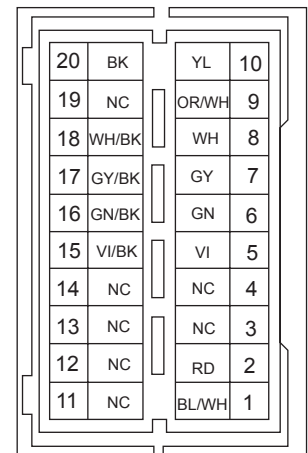
5.7 16 PIN CORD DIAGRAM



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



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





JVC

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

(No.MA081)

JVC

SCHEMATIC DIAGRAMS

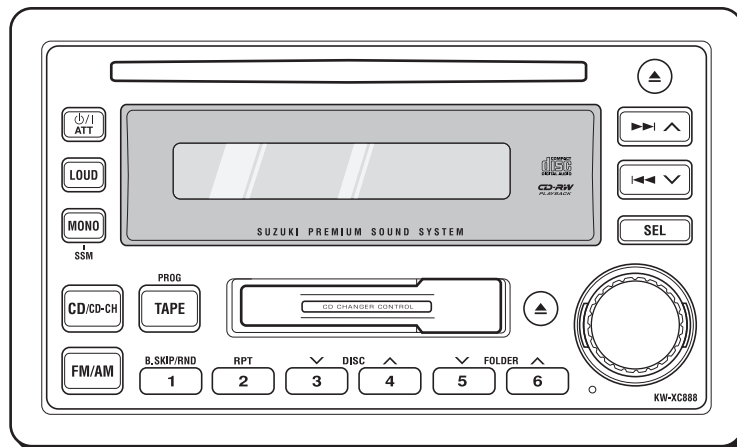
CD/CASSETTE RECEIVER

KW-XC888

CD-ROM No.SML200407

Area suffix


UN -----Asean



Contents

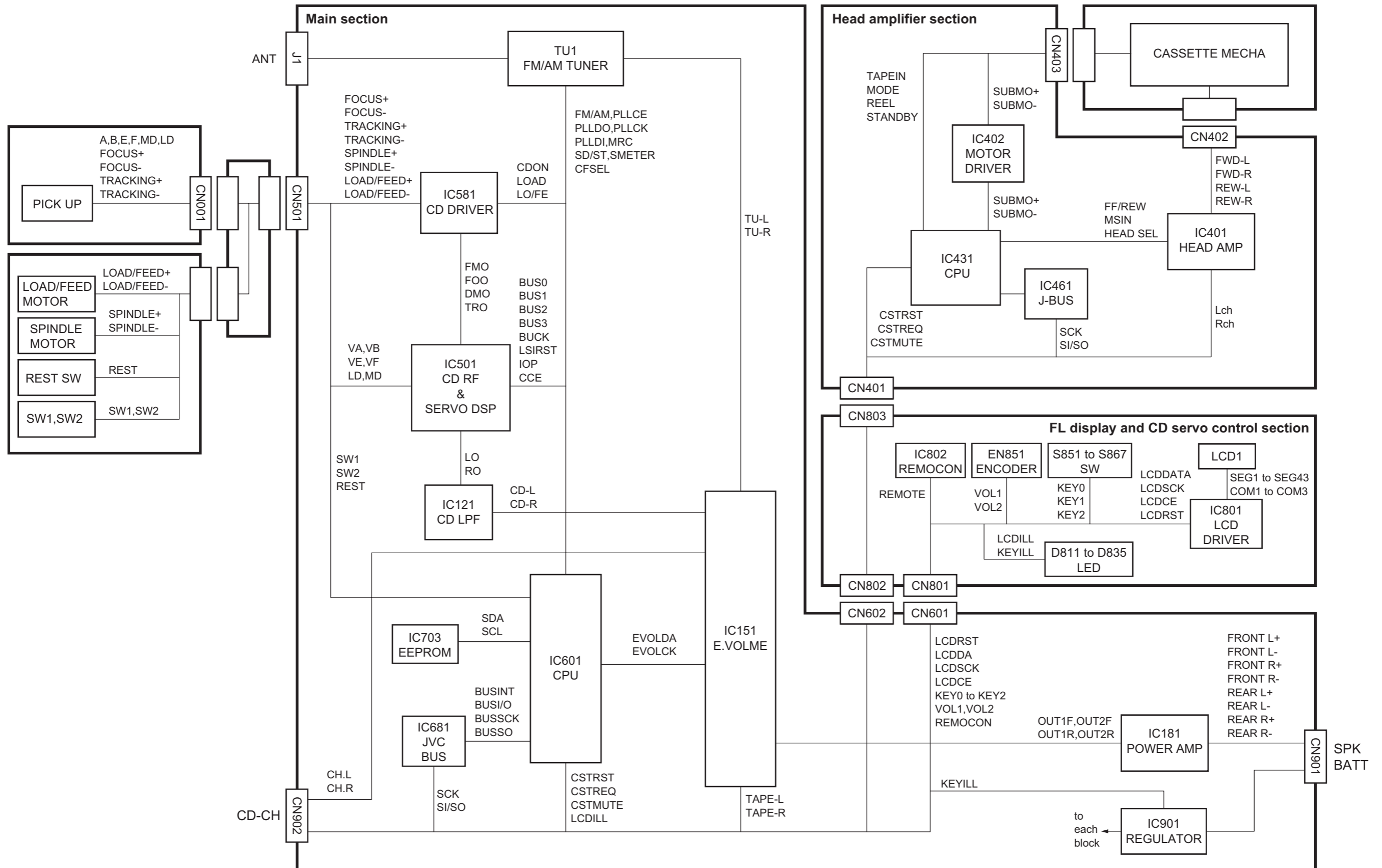
Block diagram	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-5 to 7

Safety precaution

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

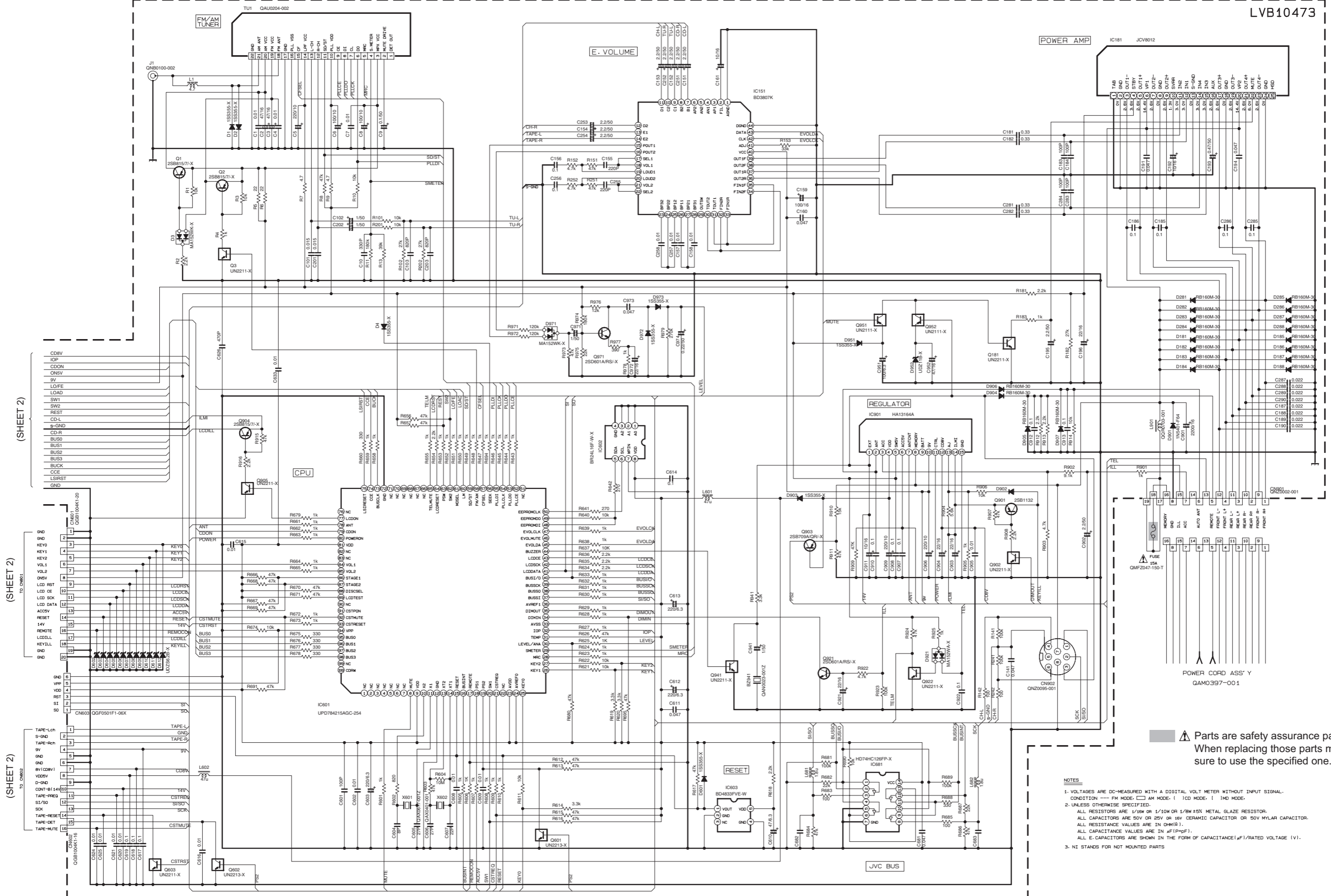
 **CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

Block diagram



Standard schematic diagrams

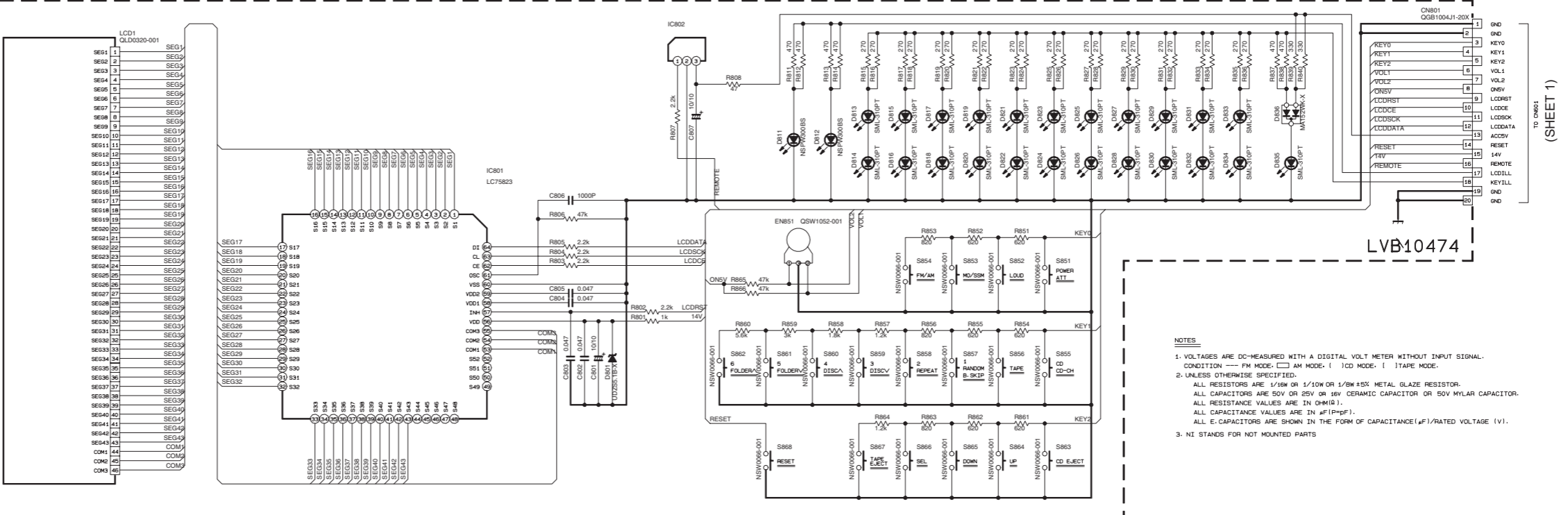
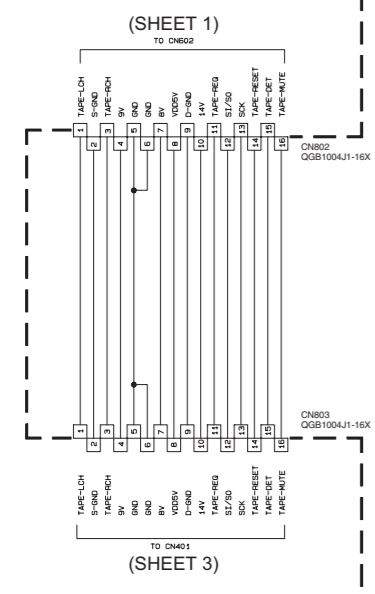
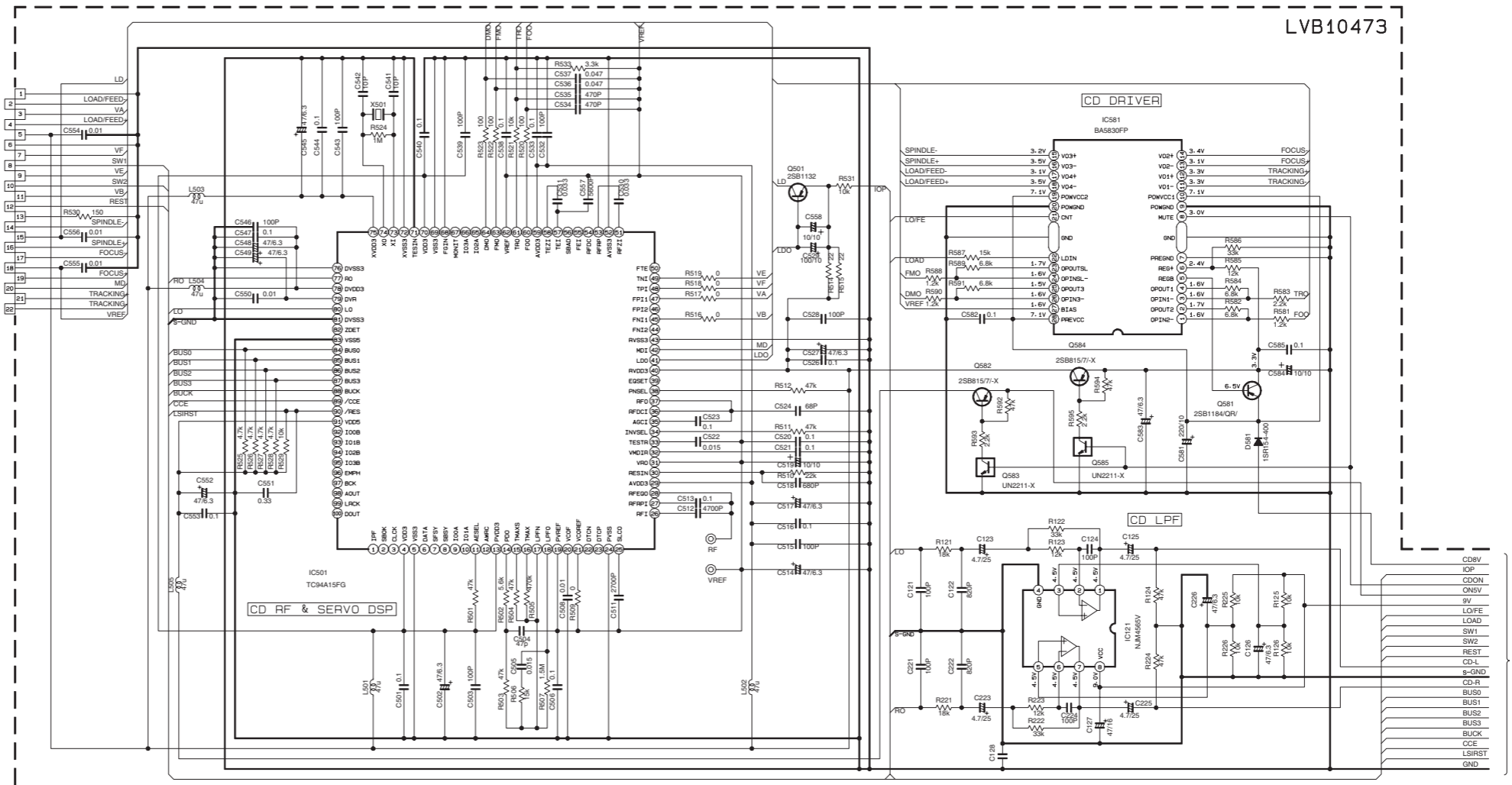
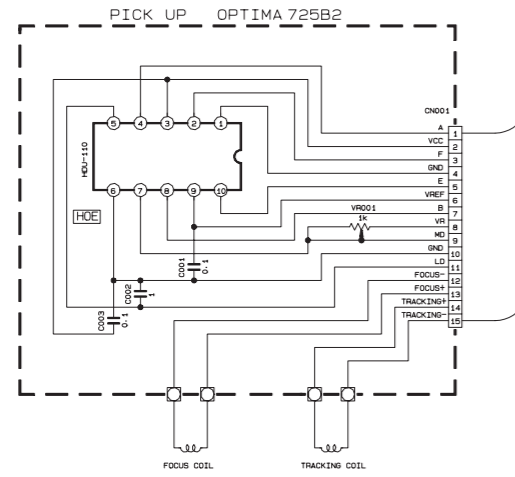
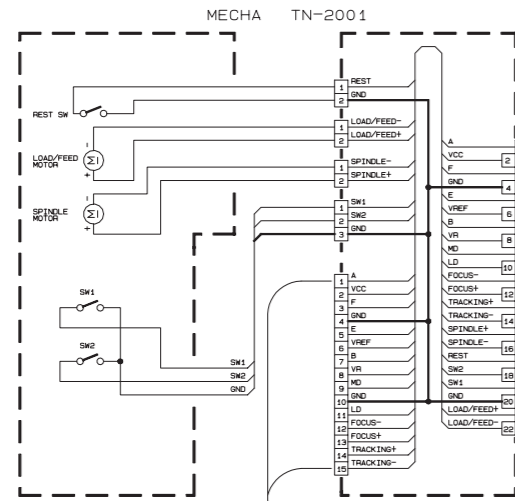
■ Main section



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

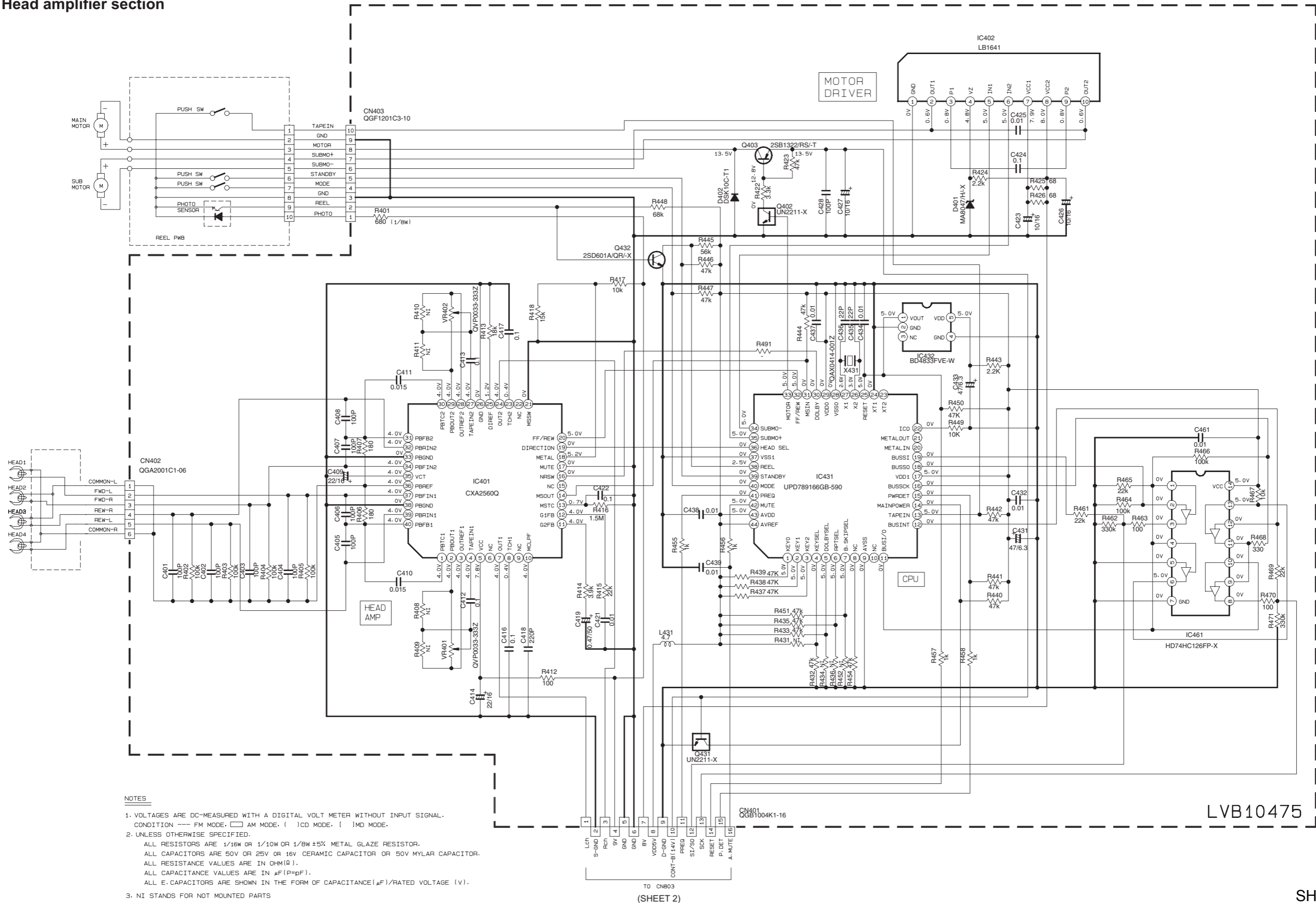
- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- FM MODE; --- AM MODE; () IC D MODE; () MD MODE.
 2. UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN Ω(MΩ).
 3. NI STANDS FOR NOT MOUNTED PARTS.

FL display and CD servo control section



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- FM MODE, □ AM MODE, () CD MODE, | TAPE MODE.
 2. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF (P=PF).
 3. NI STANDS FOR NOT MOUNTED PARTS

Head amplifier section



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- FM MODE. □ AM MODE. () CD MODE. [] MD MODE.
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
- NI STANDS FOR NOT MOUNTED PARTS

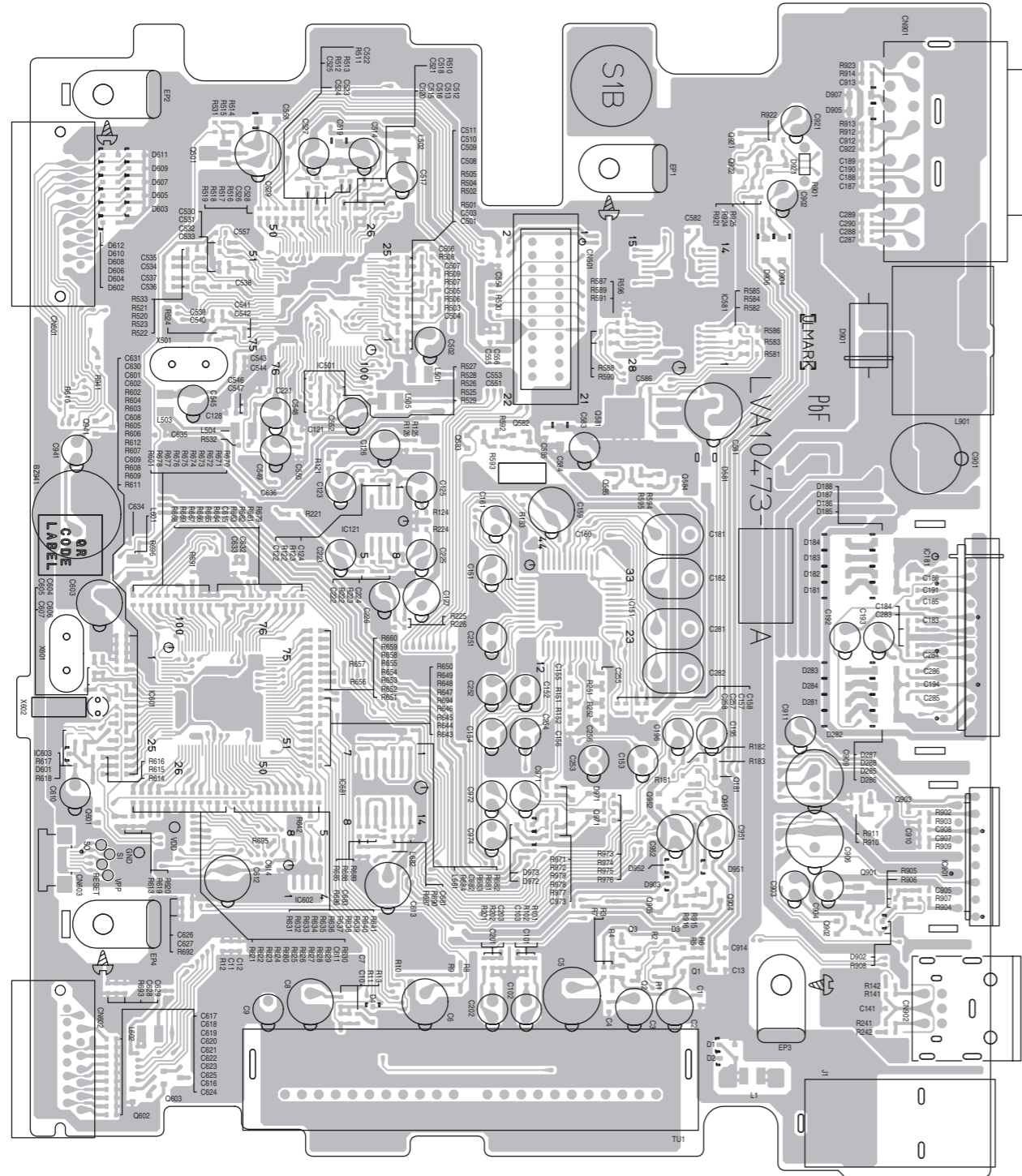
(SHEET 2)

SHEET 3

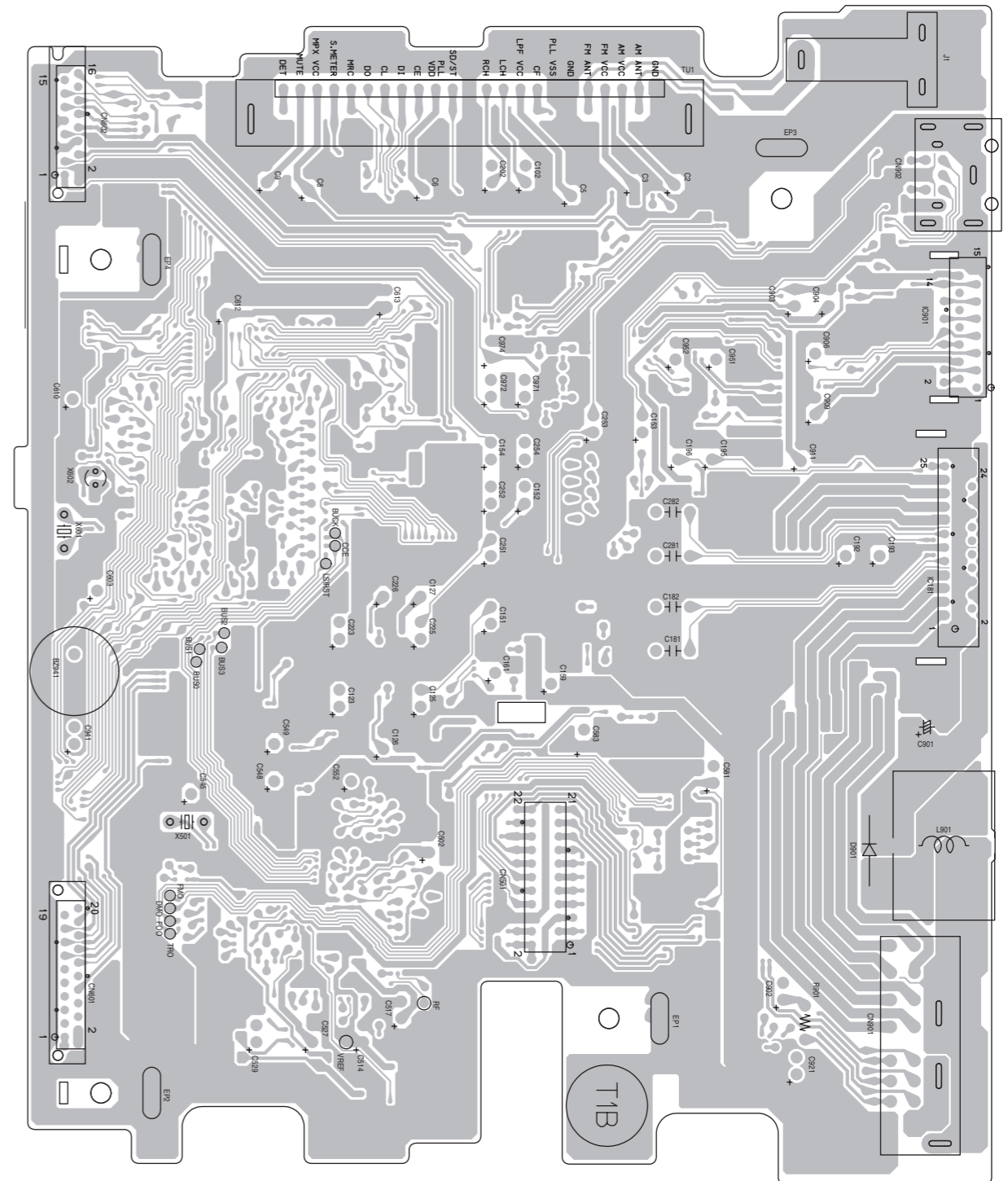
Printed circuit boards

■ Main board

Forward side

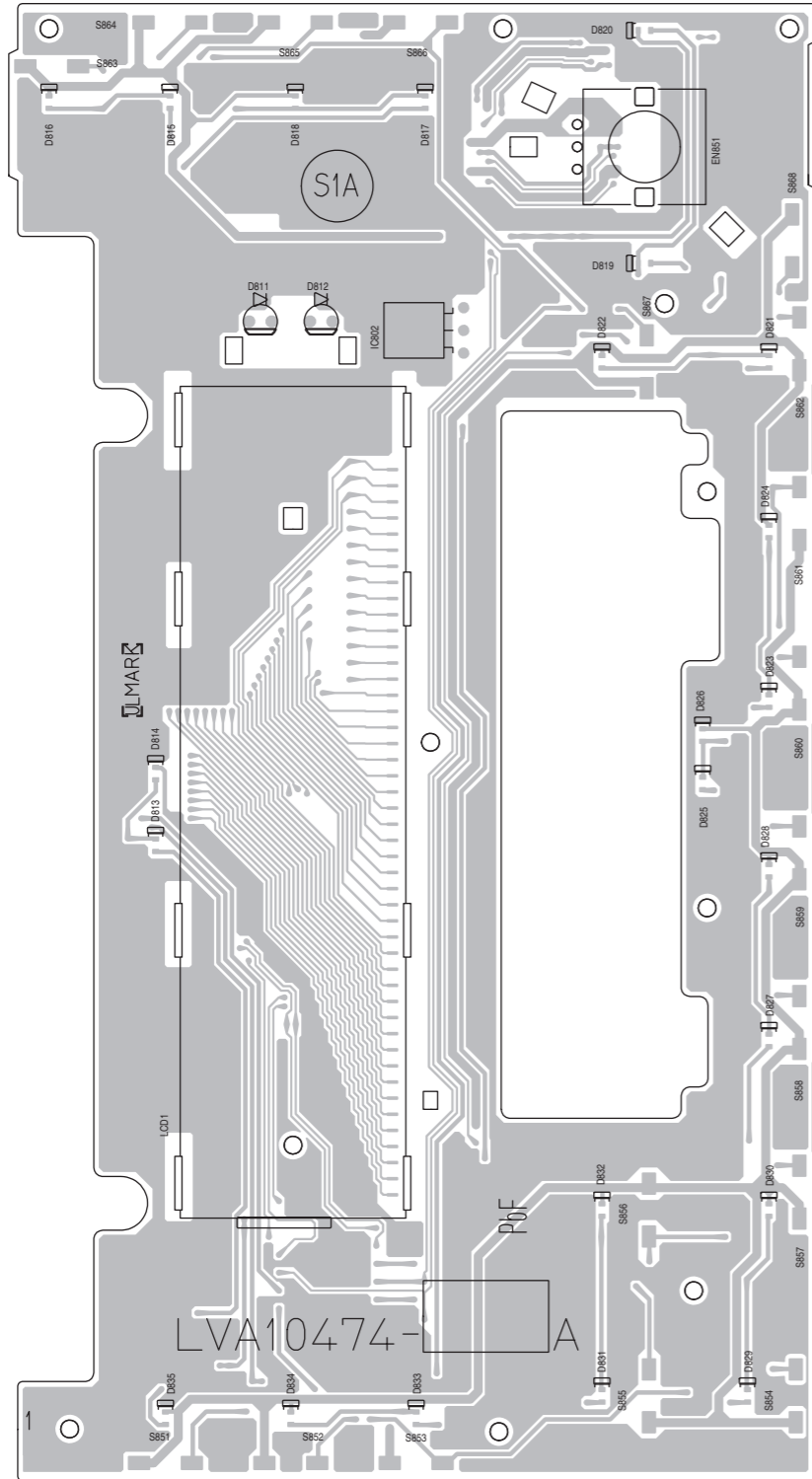


Reverse side

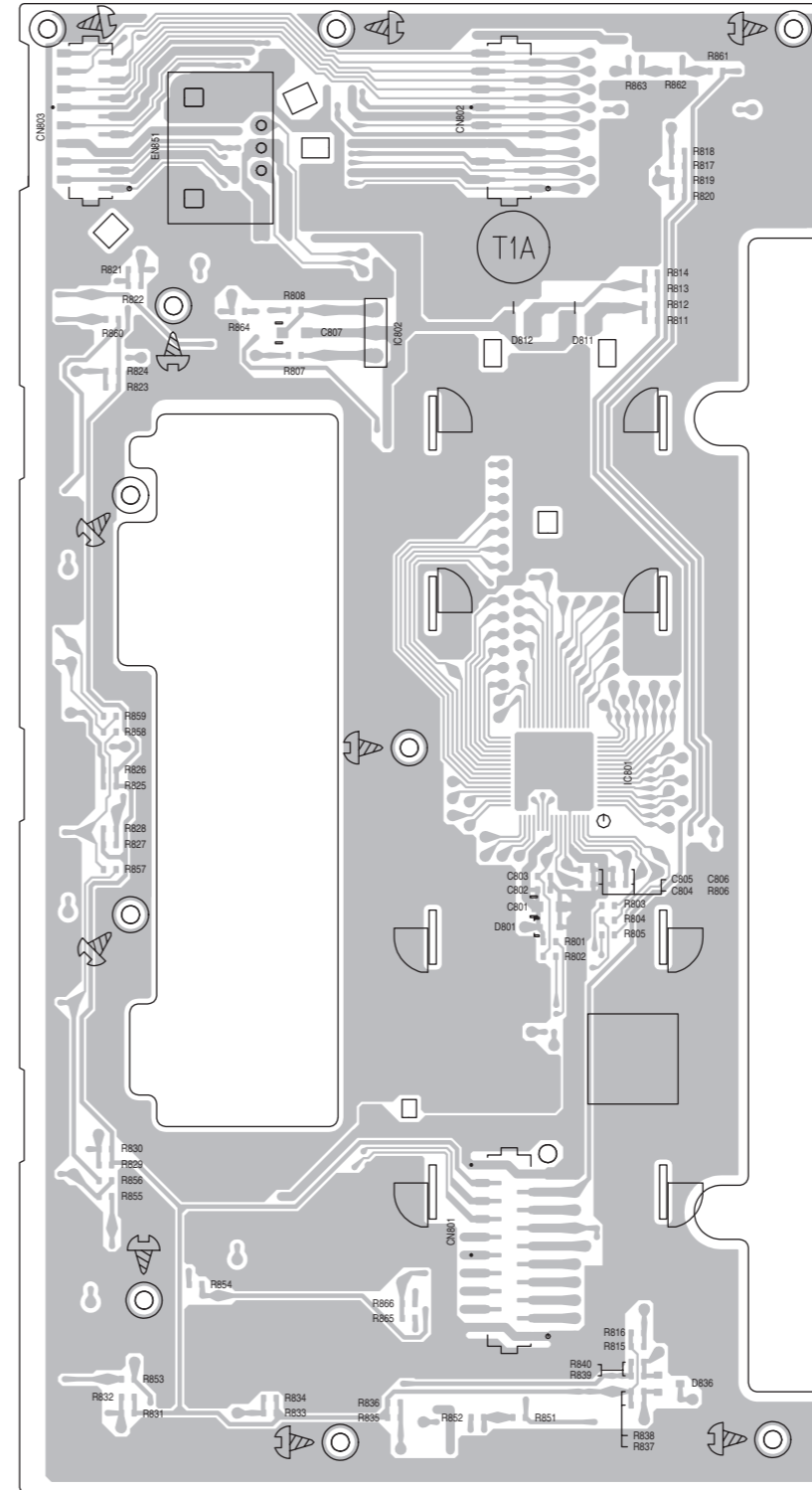


■ Front board

Forward side



Reverse side



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(No.MA081SCH)



Printed in Japan
WPC

PARTS LIST

[KW-XC888]

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

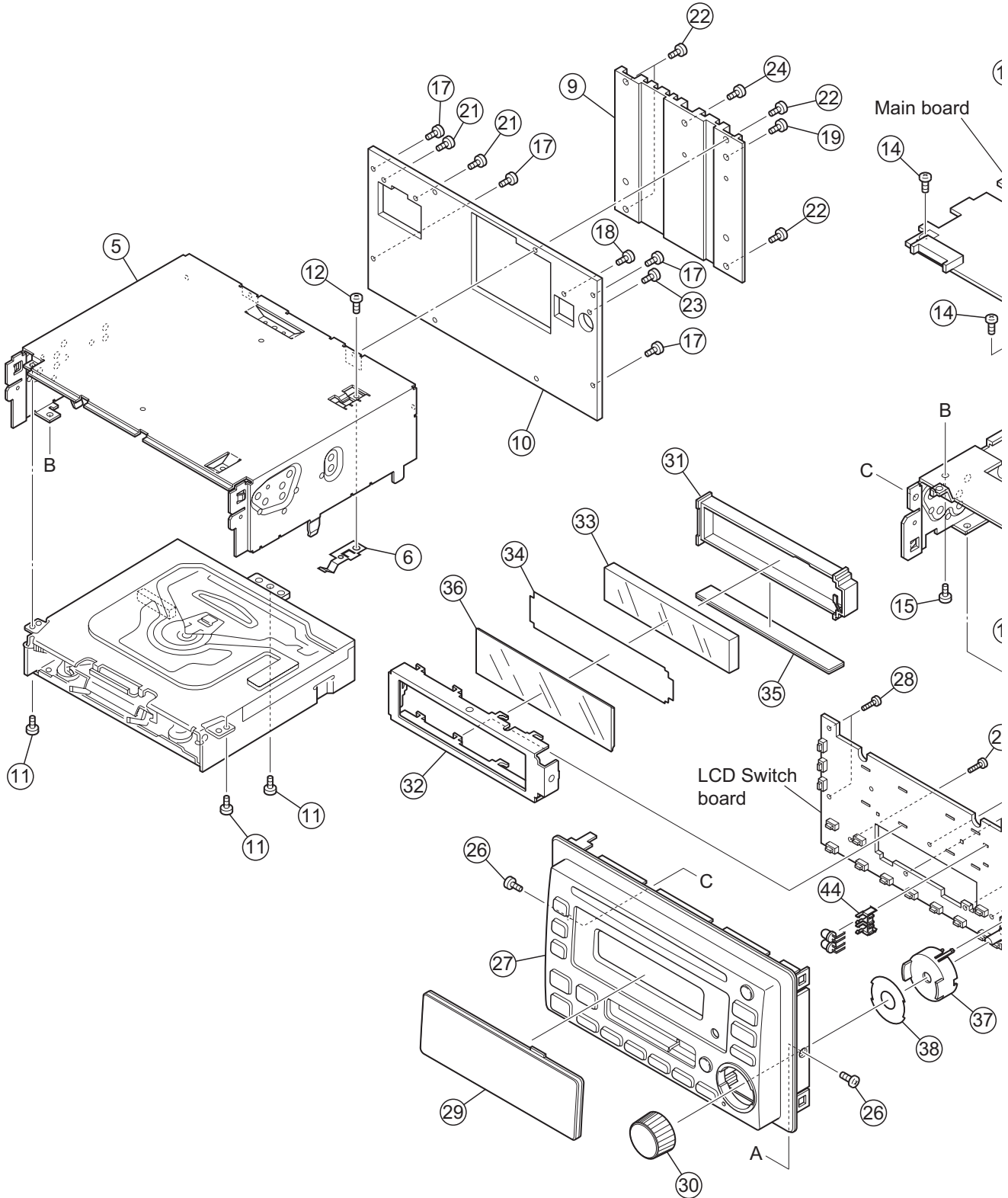
Area suffix
UN -----Asean

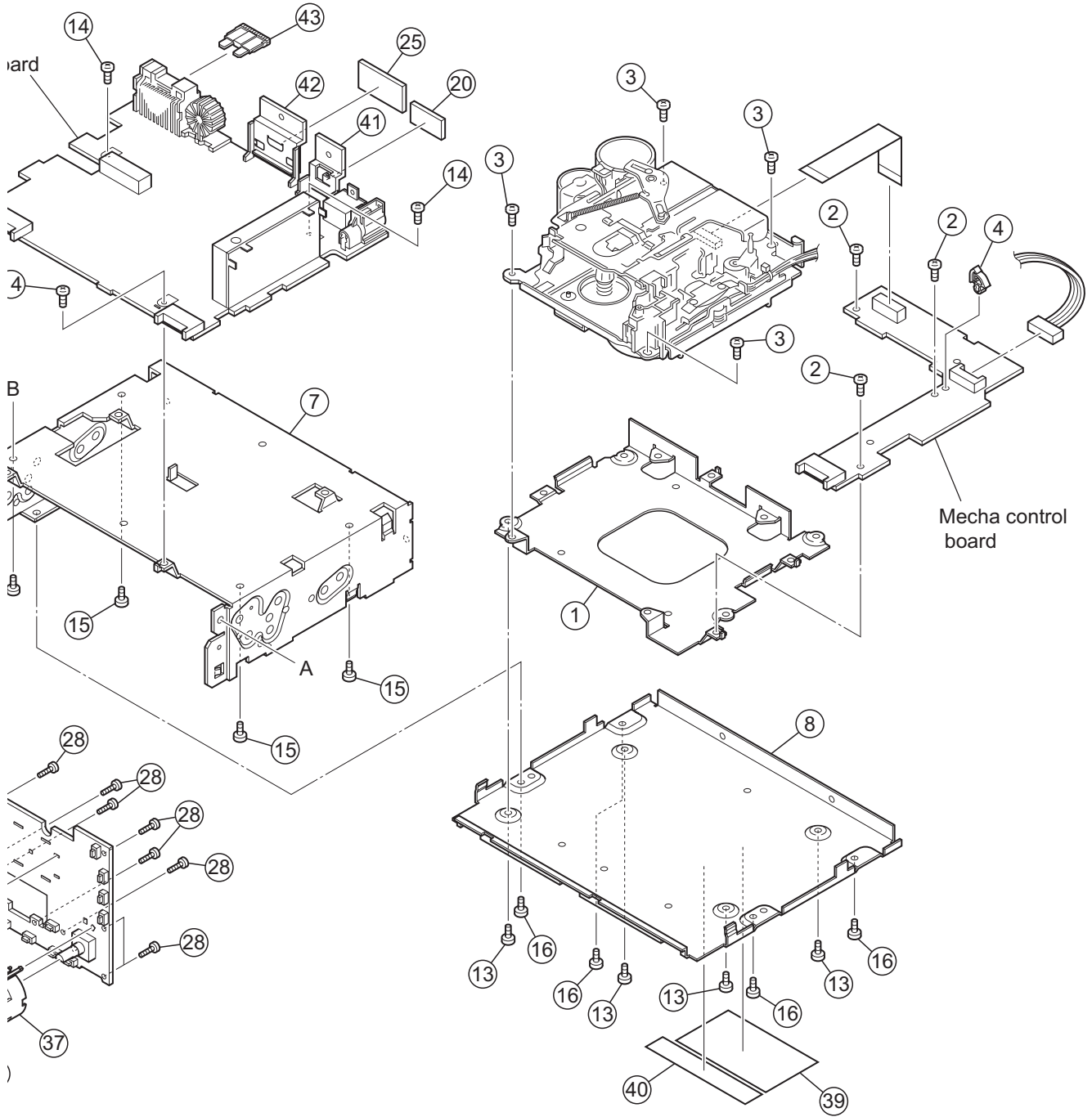
- Contents -

Exploded view of general assembly and parts list (Block No.M1) 3-
CD mechanism assembly and parts list (Block No.MB) 3-
Cassette mechanism assembly and parts list (Block No.MP) 3-
Electrical parts list (Block No.01~03) 3-
Packing materials and accessories parts list (Block No.M3) 3-

Exploded view of general assembly and parts list

Block No. M 1 M M





General Assembly

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

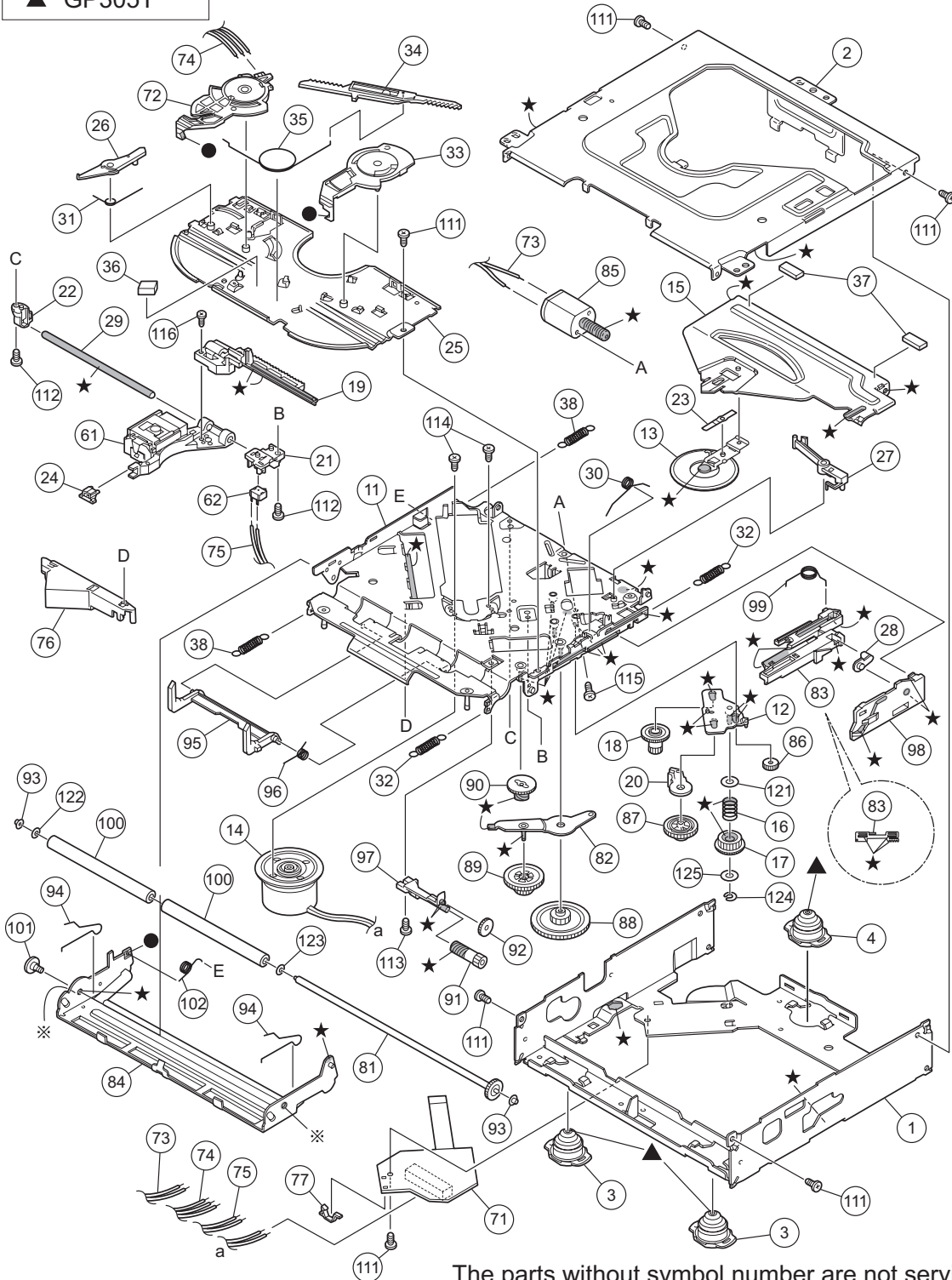
△	Symbol No.	Part No.	Part Name	Description	Local
	1	LV21628-001A	CS MECHA BKT		
	2	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x3)	
	3	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	4	QZW0143-001	WIRE CLAMP		
	5	LV10863-001A	TOP CHASSIS		
	6	LV34654-001A	EARTH PLATE		
	7	LV10864-001A	MIDDLE CHASSIS		
	8	LV10865-001A	BOTTOM CHASSIS		
	9	LV34655-001A	HEAT SINK		
	10	LV34652-001A	REAR BKT		
	11	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x3)	
	12	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	13	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	14	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	15	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	16	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	17	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	18	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	19	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	20	LV43693-001A	COOLING RUBBER		
	21	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
	22	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x4)	
	23	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	24	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	25	LV43694-001A	COOLING RUBBER		
	26	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
	27	LV21651-002A	FRONT PANEL ASSY		
	28	VKZ4777-005	MINI SCREW	(x10)	
	29	LV21632-002A	FINDER		
	30	LV35318-001A	VOL KNOB ASSY		
	31	LV34661-001A	LIGHTING CASE		
	32	LV34653-001A	LCD CASE		
	33	LV34667-001A	LCD LENS		
	34	LV34710-001A	LCD FILTER		
	35	QNZ0442-001	LCD CONNECTOR		
	36	QLD0320-001	LCD MODULE	LCD 1	
	37	LV34666-001A	KNOB LENS		
	38	LV43867-001A	VOL SHEET		
	39	LV35125-001A	NAME PLATE		
	40	LV41843-002A	LASER CAUTION		
	41	LV34651-001A	REG BKT		
	42	LV34650-001A	IC BKT		
△	43	QMFZ047-150-T	FUSE	15A	
	44	LV34663-002A	LED HOLDER		

CD mechanism assembly and parts list

- Grease
- ★ TNG-87
 - ※ GP-501MK
 - CFD-005Z
 - ▲ GP305T

TN-2001-1048

Block No. **M** **B** **M** **M**



The parts without symbol number are not service.

CD mechanism

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

△	Symbol No.	Part No.	Part Name	Description	Local
	3	30320115T	DAMPER F		
	4	30320116T	DAMPER R		
	11	303205505T	CHASSIS RIVET A		
	12	303205503T	CHANGE P. RVT A		
	13	303205301T	CLAMPER ASSY		
	14	303205306T	SPINDLE MOTOR A		
	15	30320502T	CLAMPER ARM		
	16	30320503T	CHANGE GEAR SPG		
	17	30320505T	CHANGE GEAR 2		
	18	30320506T	FEED GEAR		
	19	30320507T	FEED RACK		
	20	30320509T	CHANGE LOCK RAR		
	21	30320510T	FEED SW HOLDER		
	22	30320511T	PU SHAFT HOLDER		
	23	30320513T	CLAMPER SUB SPG		
	24	30320514T	FD SUB HOLDER		
	25	30320544T	TOP PLATE D		
	26	30320519T	SELECT LOCK ARM		
	27	30320520T	TRIGGER ARM		
	28	30320521T	SLIDE HOOK		
	29	30320522T	PU SHAFT		
	30	30320525T	CLAMPER ARM SPG		
	31	30320526T	SELECT L ARM SP		
	32	30320538T	SUSPENS SP R		
	33	30320529T	SELECT ARM R		
	34	30320530T	LINK PLATE		
	35	30320536T	LINK PLATE SPG		
	36	30320523T	CUSHION F		
	37	30320524T	CUSHION R		
	38	30320539T	SUSPENS SP L		
	61	69011619T	PICKUP OPT-725C2		
	62	64180406T	DET SW ESE22		
	71	303210301T	CONN BOARD ASSY		
	72	30321002T	MODE SW		
	73	30321003T	LOAD MOTOR WIRE		
	74	30321005T	MODE SW WIRE		
	75	30321009T	SL WIRE		
	76	30321011T	WIRE HOLDER		
	77	19501403T	WIRE CLUMPER		
	81	303211301T	ROLLER SHAFT AS		
	82	303211501T	L GEAR PLATE RV		
	83	303211302T	LOADING PLATE A		
	84	303211506T	LOCK ARM RV ASS		
	85	303211305T	L/F MOTOR ASSY		
	86	30321101T	LOADING GEAR 1		
	87	30321102T	LOADING GEAR 2		
	88	30321103T	LOADING GEAR 3		
	89	30321104T	LOADING GEAR 4		
	90	30321105T	LOADING GEAR 5		
	91	30321106T	LOADING GEAR 6		
	92	30321107T	LOADING GEAR 7		
	93	30321111T	ROLLER GUIDE		
	94	30321114T	ROLLER GUIDE SP		
	95	30321116T	DISC STOPPER AR		
	96	30321117T	DISC ST ARM SPG		
	97	30321118T	LD GEAR BRACKET		
	98	30321125T	L SIDE PLATE		
	99	30321131T	LOAD PLATE SPG		
	100	30321137T	LDG ROLLER		
	101	30321143T	COLLAR SCREW		
	102	30321147T	LOCK ARM SP		
	111	9P0420031T	SCREW		
	112	9P0420041T	TAP SCREW		
	113	9B0320041T	SCREW		
	114	9C0117183T	SCREW		
	115	9C0120203T	SCREW		
	116	9C0317503T	SCREW		
	121	9W0130170T	PW 3.5X8X0.3		
	122	9W0513060T	HL WASHER		
	123	9W0710070T	L WASHER		
	124	9E0100152T	E RING		
	125	9W0113020T	PW 2.1X4X0.13		

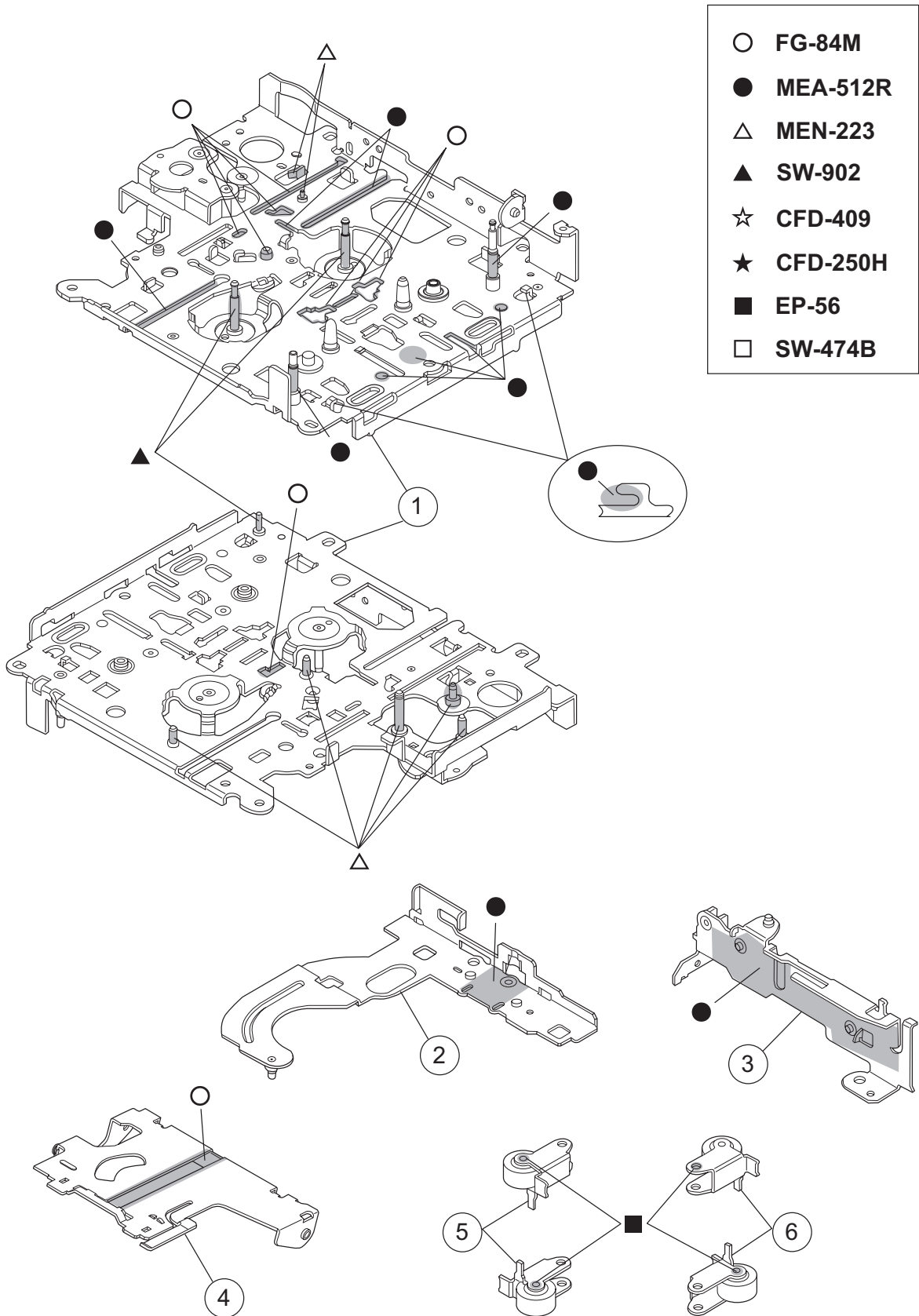
Cassette mechanism

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

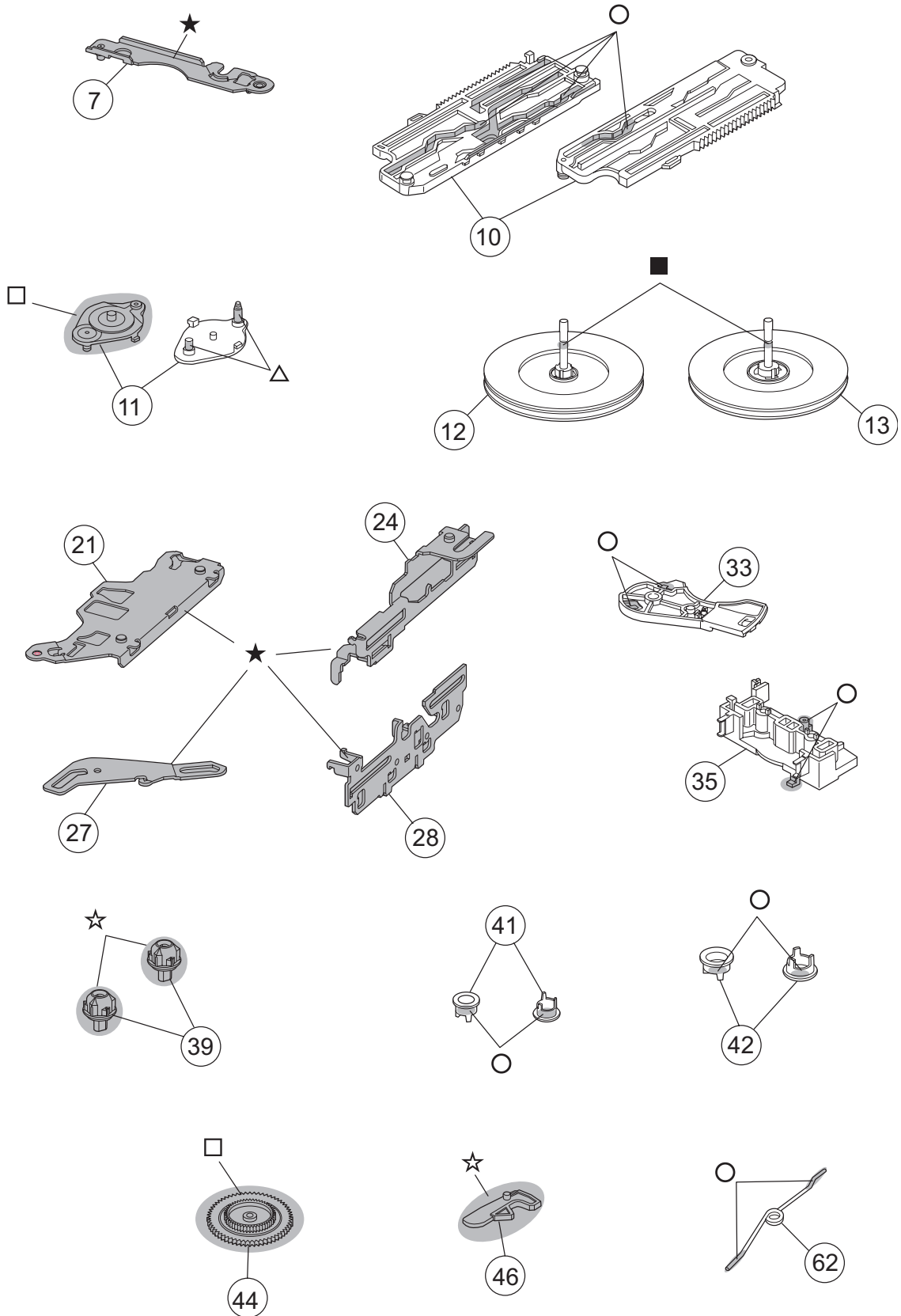
△	Symbol No.	Part No.	Part Name	Description	Local
	1	X-0802-1009S	MAIN CHASSIS AS		
	2	X-0802-1002S	SLIDE CHASSIS A		
	3	X-0802-1003S	SIDE BKT ASSY		
	4	X-0802-1004S	CASSETTE HANGER		
	5	X-0802-1005S	PINCH ARM F ASS		
	6	X-0802-1006S	PINCH ARM R ASS		
	7	X-0802-1007S	GEARBASE LINK A		
	10	X-0802-2001S	MODE RACK ASSY		
	11	X-0802-2002S	GEAR BASE ASSY		
	12	1-0802-6001S	FLYWHEEL ASSY F		
	13	1-0802-6002S	FLYWHEEL ASSY R		
	16	X-0802-7002S	SUB MOTOR ASSY		
	17	X-0802-7004S	MAIN MOTOR ASSY		
	21	1-0802-1002S	DIRECTION PLATE		
	22	1-0802-1005S	DIRECTION LINK		
	23	1-0802-1006S	CASSETTE HOLDER		
	24	1-0802-1011S	EJECT CAM LIMIT		
	25	1-0802-1012S	HEAD SUPT SPG		
	26	1-0802-1013S	PINCH SPG ARM		
	27	1-0802-1014S	LOAD ARM		
	28	1-0802-1015S	EJECT CAM PLATE		
	31	1-0101-2056S	IDLE PULLEY(A1)		
	32	1-0802-2001S	CASSETTE GUIDE		
	33	1-0802-2004S	GEAR BASE ARM		
	34	1-0802-2006S	LOAD RACK		
	35	1-0802-2007S	TAPE GUIDE		
	37	1-0802-2009S	REDUCTION GEARA		
	38	1-0802-2010S	REEL SPINDLE	(x2)	
	39	1-0802-2011S	REEL DRIVER	(x2)	
	40	1-0802-2012S	REDUCTION GEARB		
	41	1-0802-2013S	SPG HOLDER F		
	42	1-0802-2014S	SPG HOLDER R		
	43	1-0802-2015S	MODE GEAR		
	44	1-0802-2016S	TAKE UP GEAR		
	45	1-0802-2017S	REFLECTOR GEAR		
	46	1-0802-2018S	RACK LINK		
	47	1-0802-2019S	MODE SW ACTUATR		
	48	1-0802-2020S	FRICTION GEARPL		
	49	1-0802-2021S	FRICTION GEARFF		
	50	1-0802-2022S	CASSETTE CATCH		
	51	1-0802-2026S	FFC PAD		
	59	1-0802-4001S	EJECT CAM PL SP		
	60	1-0802-4002S	TU SPG		
	61	1-0802-4003S	FF SPG		
	62	1-0802-4004S	PINCH ARM SPG		
	63	1-0802-4005S	HOLDER STAB SPG		
	64	1-0802-4006S	HOLDER CUSH SPG		
	65	1-0802-4007S	GEAR BASE SPG		
	66	1-0802-4008S	REEL DRIVER SPG	(x2)	
	67	1-0802-4013-5S	COMPULSION SPG2		
	68	1-0802-4010S	LOAD ARM SPG		
	69	1-0802-4015S	RATTLE SPG		
	71	1-0802-5001S	BELT		
	72	1-0802-5002S	FELT 7.5*18.5*1		
	73	1-0802-5003S	AZIMUTH SCREW	(x2)	
	74	1-0802-5004S	FELT 11*18.5*1		
	75	1-0050-5023S	WTRE CLAMPER		
	82	1-0802-7001S	REEL PCB DL		
	83	1-0802-7010S	SW(MATSUCHITA ESE22)		
	84	1-0802-7003S	SW(MICMPU11750)		
	85	1-0802-7016S	FLAT CABLE 10P		
	86	1-0801-7028S	PHOTO SENSOR		
	87	1-0802-7009S	SW(MICMPU12370)		
	91	1-0802-7007S	HEAD(MITSUMI P-5344)		
	93	1-0801-7009-0S	M.MOTOR WIRE B		
	94	1-0801-7009-1S	M.MOTOR WIRE R		
	96	1-0802-7017S	JOINT WIRE ASSY		
	106	2-1032-0025-C2S	SCREW	(x2)	
	107	2-13S2-0025-P2S	+PLAIN SCR M2	(x2)	
	108	2-1112-6035-C2S	+PLAIN SCR M2.6		
	109	2-1816-0032-E8S	MYLAR WASHER(S)	(x2)	
	110	2-1812-0032-D2S	PSW-S 1.2		
	111	1-0036-5024S	PSW(REEL)	(x3)	
	113	2-1821-0040-D1S	POLY WASHER	(x2)	

△	Symbol No.	Part No.	Part Name	Description	Local
	114	2-1821-0040-D2S	PSW-S 2.1	(x3)	
	116	2-1711-5040-16S	E RING		
	117	2-1031-7030-C2S	SCREW	(x2)	

Grease point 1/2



Grease point 2/2



Electrical parts list

Main board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
IC121	NJM4565M-WE	IC		
IC151	BD3807K	IC		
IC181	JCV8012	IC		
IC501	TC94A15F	IC		
IC581	BA5830FP-X	IC		
IC601	UPD784215AGC254	IC		
IC602	BR24L16F-W-X	IC		
IC603	BD4833FVE-W	IC		
IC681	HD74HC126FP-X	IC		
IC901	HA13164A	IC		
Q1	2SB815/7/-X	TRANSISTOR		
Q2	2SB815/7/-X	TRANSISTOR		
Q3	UN2211-X	TRANSISTOR		
Q181	UN2211-X	TRANSISTOR		
Q501	2SB1132/QR/-W	TRANSISTOR		
Q581	2SB1184/QR/-X	TRANSISTOR		
Q582	2SB815/7/-X	TRANSISTOR		
Q583	UN2211-X	TRANSISTOR		
Q584	2SB815/7/-X	TRANSISTOR		
Q585	UN2211-X	TRANSISTOR		
Q601	UN2213-X	DIGI TRANSISTOR		
Q602	UN2213-X	DIGI TRANSISTOR		
Q603	UN2211-X	TRANSISTOR		
Q901	2SB1132/QR/-W	TRANSISTOR		
Q902	UN2211-X	TRANSISTOR		
Q903	2SB709A/QR/-X	TRANSISTOR		
Q904	2SB815/7/-X	TRANSISTOR		
Q905	UN2211-X	TRANSISTOR		
Q921	2SD601A/QR/-X	TRANSISTOR		
Q951	UN2111-X	TRANSISTOR		
Q952	UN2111-X	TRANSISTOR		
D1	1SS355-X	SI DIODE		
D2	1SS355-X	SI DIODE		
D3	MA152WK-X	SI DIODE		
D4	1SS355-X	SI DIODE		
D181	RB160M-30-X	SB DIODE		
D182	RB160M-30-X	SB DIODE		
D183	RB160M-30-X	SB DIODE		
D184	RB160M-30-X	SB DIODE		
D185	RB160M-30-X	SB DIODE		
D186	RB160M-30-X	SB DIODE		
D187	RB160M-30-X	SB DIODE		
D188	RB160M-30-X	SB DIODE		
D281	RB160M-30-X	SB DIODE		
D282	RB160M-30-X	SB DIODE		
D283	RB160M-30-X	SB DIODE		
D284	RB160M-30-X	SB DIODE		
D285	RB160M-30-X	SB DIODE		
D286	RB160M-30-X	SB DIODE		
D287	RB160M-30-X	SB DIODE		
D288	RB160M-30-X	SB DIODE		
D581	1SR154-400-X	DIODE		
D601	1SS355-X	SI DIODE		
D603	UDZS6.2B-X	Z DIODE		
D604	UDZS6.2B-X	Z DIODE		
D605	UDZS6.2B-X	Z DIODE		
D606	UDZS6.2B-X	Z DIODE		
D607	UDZS6.2B-X	Z DIODE		
D608	UDZS6.2B-X	Z DIODE		
D609	UDZS6.2B-X	Z DIODE		
D610	UDZS6.2B-X	Z DIODE		
D611	UDZS6.2B-X	Z DIODE		
D612	UDZS6.2B-X	Z DIODE		
D901	1N5401-F64	DIODE		
D902	1SS355-X	SI DIODE		
D903	1SS355-X	SI DIODE		
D904	RB160M-30-X	SB DIODE		
D905	RB160M-30-X	SB DIODE		
D951	1SS355-X	SI DIODE		
D952	UDZS11B-X	Z DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
C1	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C4	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C6	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C7	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C9	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C10	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C101	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C102	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C103	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C121	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C122	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C123	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C124	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C125	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C126	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C127	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C141	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C151	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C152	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C153	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C154	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C155	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C156	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C159	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C160	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C161	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C181	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C182	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C183	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C184	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C185	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C186	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C187	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C188	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C189	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C190	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C191	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C192	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C193	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C194	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C195	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C196	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C201	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C202	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C203	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C221	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C222	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C223	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C224	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C225	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C226	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C251	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C252	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C253	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C254	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C255	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C281	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C282	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C283	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C284	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C285	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C286	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C287	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C288	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C289	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C290	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C502	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C503	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C504	NDC31HJ-470X	C CAPACITOR	47pF 50V J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C505	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		C625	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C626	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C633	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31HK-272X	C CAPACITOR	2700pF 50V K		C681	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C512	NCB31HK-472X	C CAPACITOR	4700pF 50V K		C901	QEZO645-228	E CAPACITOR	2200uF	
C513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C514	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C515	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C905	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C517	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C906	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C518	NCS31HJ-681X	C CAPACITOR	680pF 50V J		C907	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C519	NBE21AM-106X	TA E CAPACITOR	10uF 10V M		C908	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C909	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C910	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C522	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		C911	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C912	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C524	NDC31HJ-680X	C CAPACITOR	68pF 50V J		C921	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C525	NDC31HJ-150X	C CAPACITOR	15pF 50V J		C951	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C526	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C952	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C527	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R1	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C528	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R2	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C529	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M		R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C530	NCB31EK-333X	C CAPACITOR	0.033uF 25V K		R4	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C531	NCB31EK-333X	C CAPACITOR	0.033uF 25V K		R5	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C532	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R6	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C533	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R7	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
C534	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R8	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C535	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R9	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
C536	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R10	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C537	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R11	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
C538	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C539	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R13	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C540	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C541	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R102	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C542	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R121	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C543	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R122	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C544	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R123	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C545	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R124	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C546	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C547	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C548	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R141	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C549	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R151	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C551	NCB31AK-334X	C CAPACITOR	0.33uF 10V K		R152	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C552	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R153	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R181	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C554	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R182	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C555	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R183	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C556	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C557	NCB31HK-562X	C CAPACITOR	5600pF 50V K		R202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C558	NBE21AM-106X	TA E CAPACITOR	10uF 10V M		R221	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C581	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M		R222	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C582	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R223	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C583	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R224	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C584	NBE21AM-106X	TA E CAPACITOR	10uF 10V M		R225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C585	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C601	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R241	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C603	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C604	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J		R252	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C605	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R501	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C606	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R502	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C607	NDC31HJ-220X	C CAPACITOR	22pF 50V J		R503	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C608	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C609	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R505	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
C610	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R506	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C611	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R507	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
C612	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C613	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R510	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R511	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C615	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C616	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R513	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R514	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R515	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C620	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C621	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C624	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R653	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R654	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R656	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R522	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R657	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R658	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R524	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R659	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R525	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R660	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R526	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R527	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R663	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R664	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R529	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R665	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R530	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R667	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R533	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R672	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R581	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R673	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R582	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R674	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R583	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R675	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R584	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R676	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R585	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R677	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R586	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R678	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R679	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R588	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R680	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R589	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R681	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R590	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R682	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R591	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R683	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R592	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R684	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R593	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R685	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R594	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R686	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R687	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R596	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R688	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R689	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R690	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R603	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R691	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R604	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J		R693	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R694	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R607	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R695	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R608	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R902	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R610	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R904	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R613	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R905	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R614	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R906	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R615	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R907	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R616	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R908	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R617	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R909	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R618	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R910	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R619	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R911	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R620	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R912	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R913	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R915	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R623	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R916	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R624	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R922	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R626	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R923	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R628	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L1	NQL114K-100X	COIL	10uH K	
R629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L501	NQL114K-470X	COIL	47uH K	
R630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L502	NQL114K-470X	COIL	47uH K	
R631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L503	NQL114K-470X	COIL	47uH K	
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L504	NQL114K-470X	COIL	47uH K	
R633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L505	NQL114K-470X	COIL	47uH K	
R634	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L601	NQL114K-470X	COIL	47uH K	
R635	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L602	NQL114K-470X	COIL	47uH K	
R636	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L681	NQL093K-1R8X	COIL	1.8uH K	
R638	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L682	NQL093K-1R8X	COIL	1.8uH K	
R639	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L901	QQR0703-001	CHOKE COIL		
R640	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R641	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
R642	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		CN601	QGB1004K1-20	CONNECTOR	B-B (1-20)	
R643	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN602	QGB1004K1-16	CONNECTOR	B-B (1-16)	
R644	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN901	QNZ0002-001	16P CONNECTOR		
R645	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN902	QNZ0095-001	CONNECTOR		
R646	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		EP1	QNZ0136-001Z	EARTH PLATE		
R647	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		EP2	QNZ0136-001Z	EARTH PLATE		
R648	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		EP3	QNZ0136-001Z	EARTH PLATE		
R649	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		EP4	QNZ0136-001Z	EARTH PLATE		
R650	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		J1	QNB0100-002	CAR ANT JACK		
R651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		TU1	QAU0204-001	TUNER		
R652	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		X501	QAX0413-001Z	CRYSTAL	16.9344MHz	

△ Symbol No.	Part No.	Part Name	Description	Local
X601	QAX0617-001Z	CRYSTAL	12.500MHz	
X602	QAX0401-001	CRYSTAL	32.768KHz	

Switch board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC801	LC75823W	IC		
D801	UDZS5.1B-X	Z DIODE		
D811	NSPW300BS/BRS/	LED	WHITE	
D812	NSPW300BS/BRS/	LED	WHITE	
D813	SML-310PT/KL/-X	LED		
D814	SML-310PT/KL/-X	LED		
D815	SML-310PT/KL/-X	LED		
D816	SML-310PT/KL/-X	LED		
D817	SML-310PT/KL/-X	LED		
D818	SML-310PT/KL/-X	LED		
D819	SML-310PT/KL/-X	LED		
D820	SML-310PT/KL/-X	LED		
D821	SML-310PT/KL/-X	LED		
D822	SML-310PT/KL/-X	LED		
D823	SML-310PT/KL/-X	LED		
D824	SML-310PT/KL/-X	LED		
D825	SML-310PT/KL/-X	LED		
D826	SML-310PT/KL/-X	LED		
D827	SML-310PT/KL/-X	LED		
D828	SML-310PT/KL/-X	LED		
D829	SML-310PT/KL/-X	LED		
D830	SML-310PT/KL/-X	LED		
D831	SML-310PT/KL/-X	LED		
D832	SML-310PT/KL/-X	LED		
D833	SML-310PT/KL/-X	LED		
D834	SML-310PT/KL/-X	LED		
D835	SML-310PT/KL/-X	LED		
D836	MA152WK-X	SI DIODE		
C801	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C802	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C803	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C804	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C805	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C806	NCB31HK-102X	C CAPACITOR	1000pF 50V K	

△ Symbol No.	Part No.	Part Name	Description	Local
R834	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R835	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R836	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R837	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R838	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R839	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R840	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R851	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R852	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R853	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R854	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R855	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R856	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R857	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R858	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R859	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R860	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R861	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R862	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R863	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R864	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R865	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R866	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

CN801	QGB1004J1-20X	CONNECTOR	B-B (1-20)
CN802	QGB1004J1-16X	CONNECTOR	B-B (1-16)
CN803	QGB1004J1-16X	CONNECTOR	B-B (1-16)
EN851	QSW1052-001	ROTARY ENCODER	
S851	NSW0066-001X	TACT SW	
S852	NSW0066-001X	TACT SW	
S853	NSW0066-001X	TACT SW	
S854	NSW0066-001X	TACT SW	
S855	NSW0066-001X	TACT SW	
S856	NSW0066-001X	TACT SW	
S857	NSW0066-001X	TACT SW	
S858	NSW0066-001X	TACT SW	
S859	NSW0066-001X	TACT SW	
S860	NSW0066-001X	TACT SW	
S861	NSW0066-001X	TACT SW	
S862	NSW0066-001X	TACT SW	
S863	NSW0066-001X	TACT SW	
S864	NSW0066-001X	TACT SW	
S865	NSW0066-001X	TACT SW	
S866	NSW0066-001X	TACT SW	
S867	NSW0066-001X	TACT SW	
S868	NSW0066-001X	TACT SW	

Mecha board

Block No. [0][3]

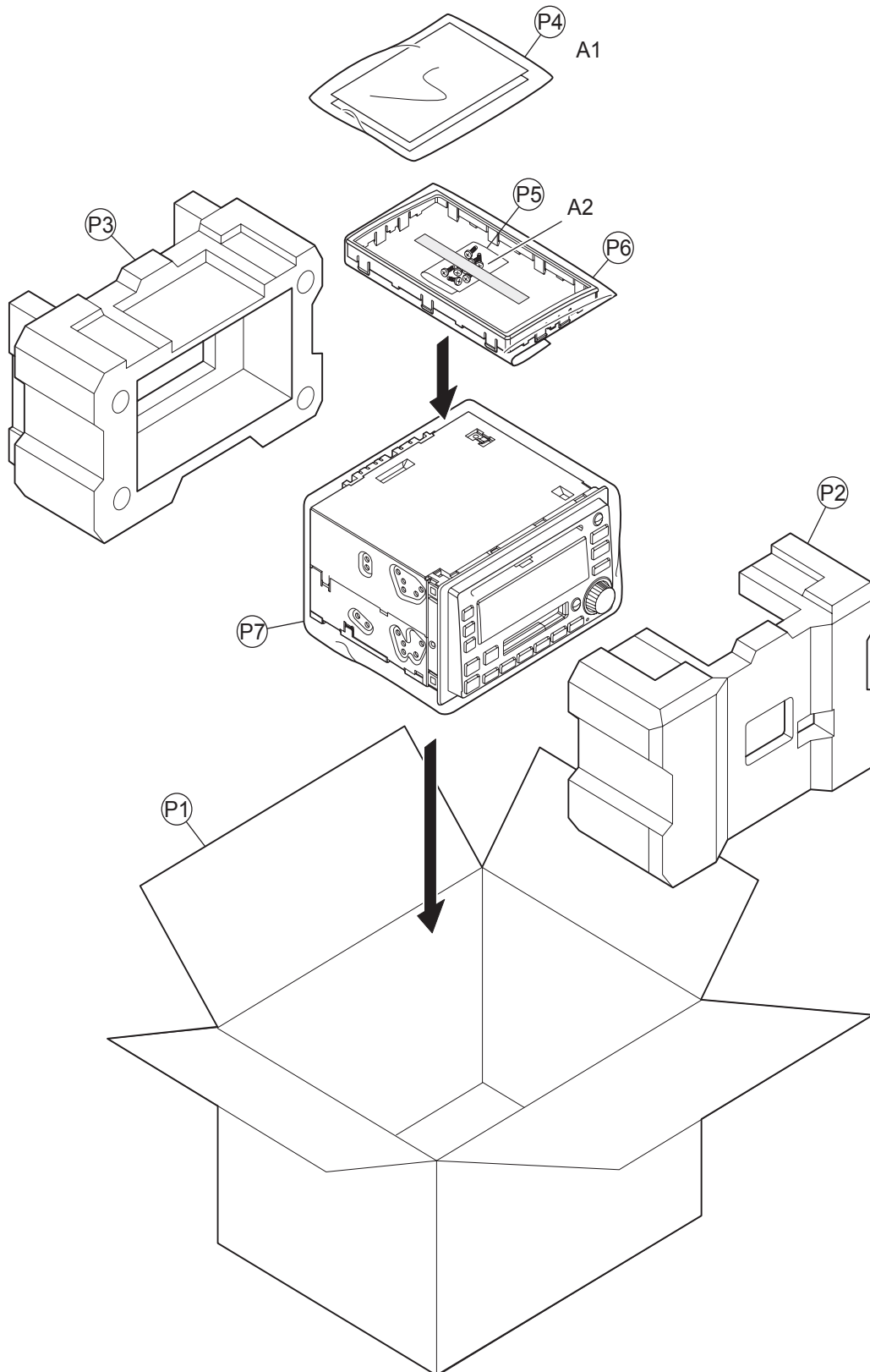
△ Symbol No.	Part No.	Part Name	Description	Local
IC401	CXA2560Q	IC		
IC402	LB1641	IC		
IC431	UPD789166GB-590	IC		
IC432	BD4833FVE-W	IC		
IC461	HD74HC126FP-X	IC		
Q402	UN2211-X	TRANSISTOR		
Q403	2SB1322/RS/-T	TRANSISTOR		
Q431	UN2211-X	TRANSISTOR		
Q432	2SD601A/QR/-X	TRANSISTOR		
D401	MA8047/H/-X	Z DIODE		
D402	1A3G-T1	SI DIODE		
C401	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C402	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C403	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C404	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C405	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C406	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C407	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C408	NDC31HJ-101X	C CAPACITOR	100pF 50V J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C409	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		R468	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C410	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R469	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C411	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R470	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
C413	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		VR401	QVP0033-333Z	TRIM RESISTOR	33kΩ	
C414	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M		VR402	QVP0033-333Z	TRIM RESISTOR	33kΩ	
C416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		L431	NQL114K-470X	COIL	47uH K	
C417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		CN401	QGB1004K1-16	CONNECTOR	B-B (1-16)	
C418	NDC31HJ-221X	C CAPACITOR	220pF 50V J		CN402	QGA2001F1-06	CONNECTOR	W-B (1-6)	
C419	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M		CN403	QGF1205C1-10	CONNECTOR	FFC/FPC (1-10)	
C421	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		X431	QAX0414-001Z	CRYSTAL	4.19430MHz	
C422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K						
C423	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M						
C424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K						
C425	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C426	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M						
C427	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M						
C428	NDC31HJ-101X	C CAPACITOR	100pF 50V J						
C431	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M						
C432	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C433	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M						
C434	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C435	NDC31HJ-220X	C CAPACITOR	22pF 50V J						
C436	NDC31HJ-220X	C CAPACITOR	22pF 50V J						
C437	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C438	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C439	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C461	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
R401	NRS181J-681X	MG RESISTOR	680Ω 1/8W J						
R402	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R403	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R404	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R405	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R406	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J						
R407	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J						
R412	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R413	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R414	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J						
R415	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R416	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J						
R417	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R418	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J						
R422	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J						
R423	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R424	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R425	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J						
R426	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J						
R432	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R433	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R435	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R437	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R438	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R439	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R440	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R441	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R442	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R443	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R444	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R445	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J						
R446	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R447	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R448	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J						
R449	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R450	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R451	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R454	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R455	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R456	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R457	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R461	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R462	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J						
R463	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R464	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R465	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R466	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R467	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W 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	LVT1139-002A	INST BOOK	ENG	
A 2	QYSDSP5008Z	SCREW	M5 x 8mm(x8)	
P 1	LV33876-003A	CARTON		
P 2	LV10944-001A	CUSHION		
P 3	LV10945-001A	CUSHION		
P 4	FSPG4002-001	POLY BAG		
P 5	QPA00801205	POLY BAG	8cm x 12cm	
P 6	FSPG4002-001	POLY BAG		
P 7	QPC03004315P	POLY BAG	30cm x 43cm	