

# JVC

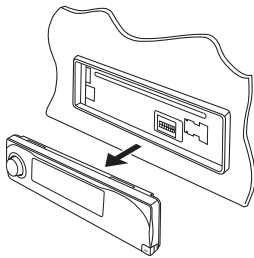
## SERVICE MANUAL

### CD RECEIVER

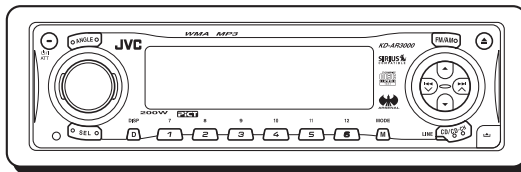
# KD-AR3000, KD-LH300

Area suffix

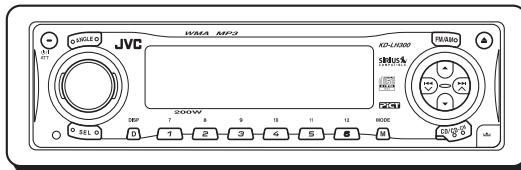
J ----- Northern America



**KD-AR3000**



**KD-LH300**



**WMA**

**MP3**

**PICT**

**SIRIUS  
COMPATIBLE**

**COMPACT  
disc  
DIGITAL AUDIO  
TEXT**

	KD-AR3000	KD-LH300
Line input terminal	○	×
Amplifier gain control	○	×
Power antenna control	○	×

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# SPECIFICATION

## AUDIO AMPLIFIER SECTION

Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)
Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz
	Level	$\pm 10$ dB
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance	KD-AR3000	1.5 V/20 k $\Omega$ load
Line-Out Level/Impedance	KD-AR3000	5.0 V/20 k $\Omega$ load (full scale)
	KD-LH300	4.0 V/20 k $\Omega$ load (full scale)
Output Impedance		1 k $\Omega$
Subwoofer-Out Level/Impedance		2.0 V/20 k $\Omega$ load (full scale)

## TUNER SECTION

Frequency Range	FM	87.5 MHz to 107.9 MHz
	AM	530 kHz to 1 710kHz
[FM Tuner]	Usable Sensitivity	11.3 dBf (1.0 $\mu$ V/75 $\Omega$ )
	50 dB Quieting Sensitivity	16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
[MW Tuner]	Sensitivity	20 $\mu$ V
	Selectivity	35 dB

## CD PLAYER SECTION

Type	Compact disc player
Signal Detection System	Non-contact optical pickup (semiconductor laser)
Number of channels	2 channels (stereo)
Frequency Response	5 Hz to 20 000 Hz
Dynamic Range	96 dB
Signal-to-Noise Ratio	98 dB
Wow and Flutter	Less than measurable limit
MP3 decoding format	MPEG 1/2 Audio Layer 3. Max. Bit Rate: 320 Kbps
WMA (Windows Media Audio) decoding format	Max. Bit Rate: 192 Kbps


## GENERAL


Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
Dimensions (W $\times$ H $\times$ D)	Installation Size (approx.)	182 mm $\times$ 52 mm $\times$ 159 mm (7-3/16" $\times$ 2-1/16" $\times$ 6-5/16")
	Panel Size (approx.)	188 mm $\times$ 58 mm $\times$ 12 mm (7-7/16" $\times$ 2-5/16" $\times$ 1/2")
Mass (approx.)		1.6 kg (3.5 lbs) (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.

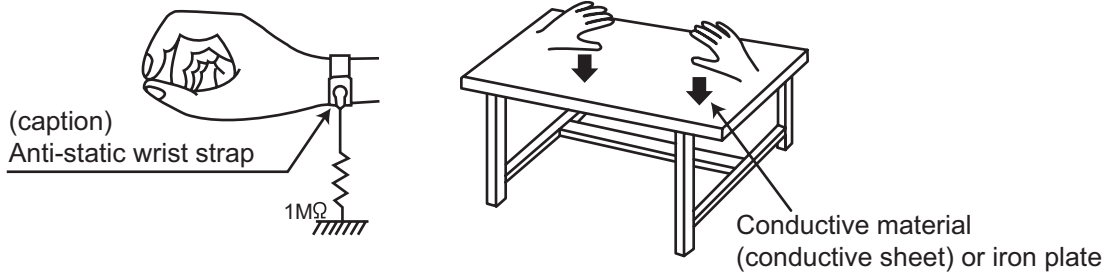
Be careful to use proper grounding in the area where repairs are being performed.

(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.

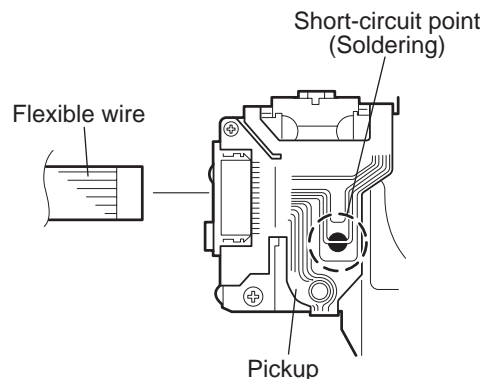
## 1.3 Handling the traverse unit (optical pickup)

- (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.



**SECTION 2**  
**SPECIFIC SERVICE INSTRUCTIONS**

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

## SECTION 3 DISASSEMBLY

### 3.1 Main body

#### 3.1.1 Removing the front panel assembly (See Fig.1)

- (1) Push the detach button in the lower right part of the front panel assembly.
- (2) Remove the front panel assembly.

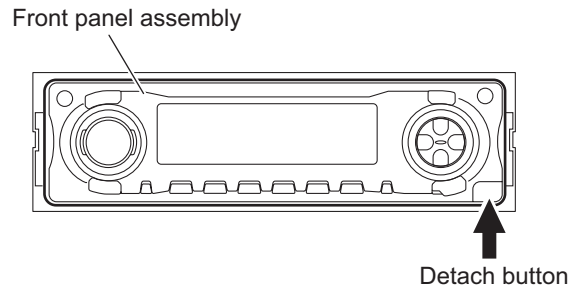
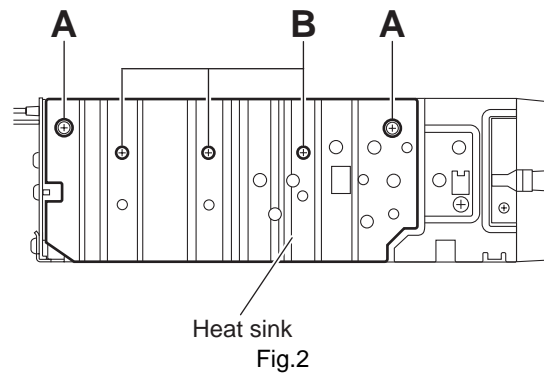


Fig.1

#### 3.1.2 Removing the heat sink (See Fig.2)

- (1) From the left side of the main body, remove the two screws **A** and three screws **B** attaching the heat sink.



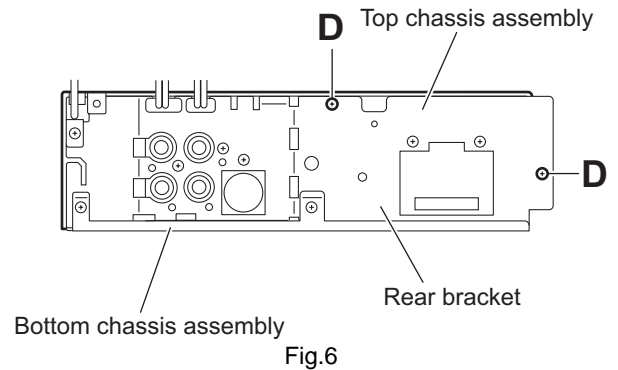
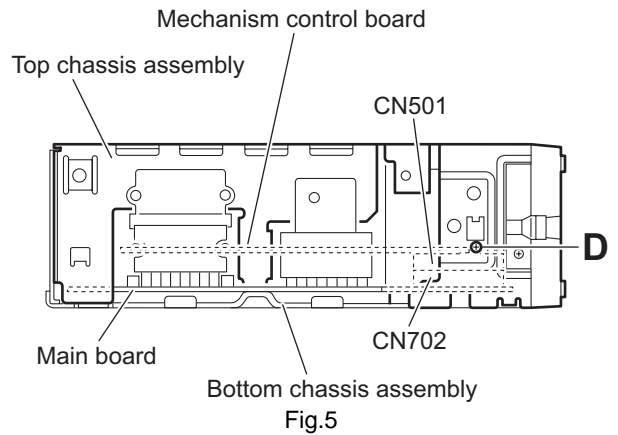
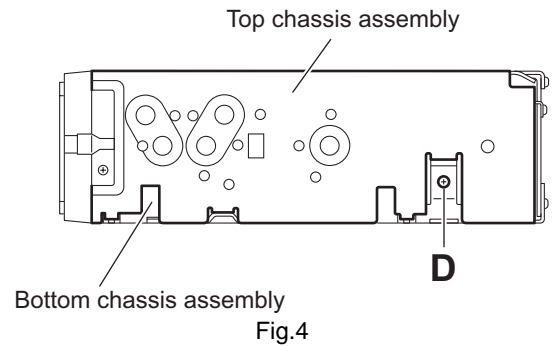
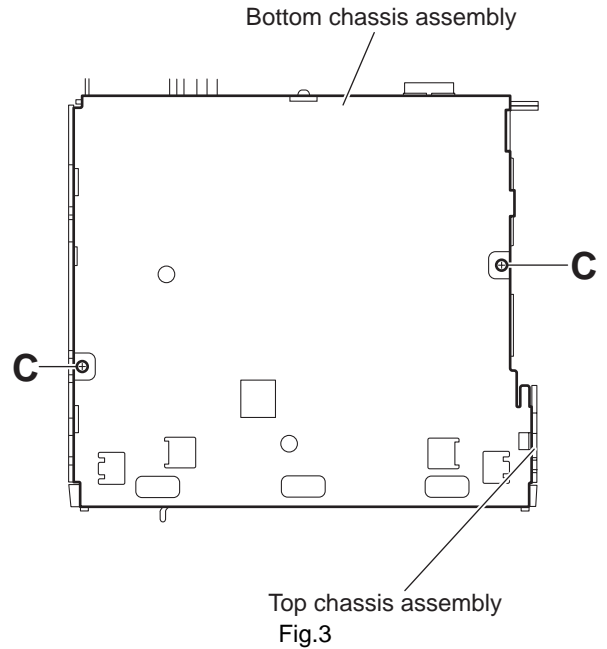
### 3.1.3 Removing the top chassis assembly (See Figs.3 to 6)

- Prior to performing the following procedures, remove the heat sink.

#### Reference:

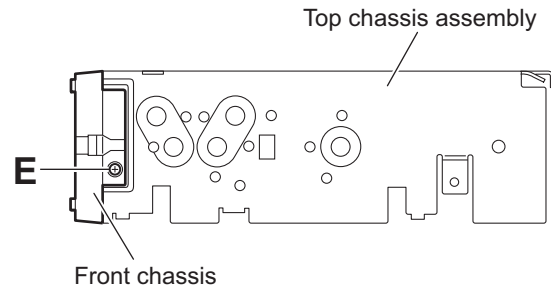
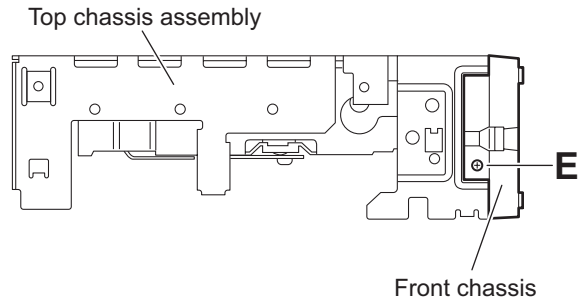
Remove the front panel assembly as required.

- (1) From the bottom side of the main body, remove the two screws **C** attaching the top chassis assembly to the bottom chassis assembly. (See Fig.3.)
- (2) From the both and rear sides of the main body, remove the four screws **D** attaching the top chassis assembly to the bottom chassis assembly. (See Figs.4 to 6.)
- (3) Lift the top chassis assembly in the direction of the arrow, disconnect the connector [CN501](#) on the mechanism control board from the connector [CN702](#) on the main board. (See Figs.5 and 6.)
- (4) Take out the top chassis assembly from the bottom chassis assembly.



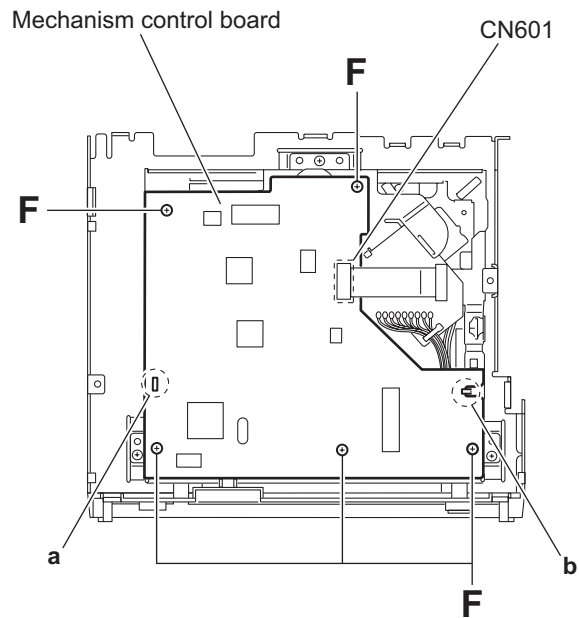
### 3.1.4 Removing the front chassis (See Figs.7 and 8)

- Prior to performing the following procedure, remove the front panel assembly, heat sink and top chassis assembly.  
(1) From the both sides of the top chassis assembly, remove the two screws **E** attaching the front chassis.



### 3.1.5 Removing the mechanism control board (See Fig.9)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.  
(1) Disconnect the card wire from the connector [CN601](#) on the mechanism control board.  
(2) Remove the five screws **F** attaching the mechanism control board.  
(3) Release the joints **a** and **b**, remove the mechanism control board.





### 3.1.6 Removing the CD mechanism assembly (See Fig.10)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.

**Reference:**

Remove the mechanism control board as required.

- (1) From the inside of the top chassis assembly, remove the three screws **G** attaching the CD mechanism assembly.
- (2) Take out the CD mechanism assembly from the top chassis.

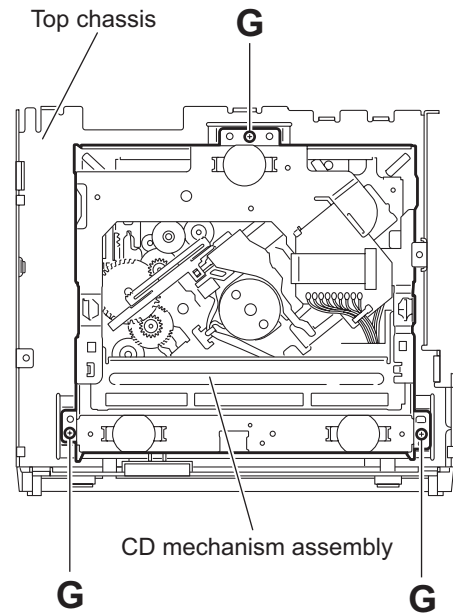


Fig.10

### 3.1.7 Removing the main board (See Figs.11 and 12)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.

- (1) From the rear side of the bottom chassis assembly, remove the two screws **H** attaching the rear bracket to the bottom chassis assembly. (See Fig.11.)
- (2) From the top side of the bottom chassis assembly, remove the two screws **J** attaching the main board to the bottom chassis assembly. (See Fig.12.)
- (3) Release the stopper of the connector [CN701](#) on the main board in an upward direction, disconnect the card wire from the connector [CN701](#). (See Fig.12.)
- (4) Disconnect the wire from the connector of the front door mechanism assembly. (See Fig.12.)
- (5) Disconnect the wire from the connector [CN951](#) on the main board. (See Fig.12.)

**Reference:**

After connecting the wires, fix the wires with the wire holders.

- (6) Take out the main board from the bottom chassis assembly.

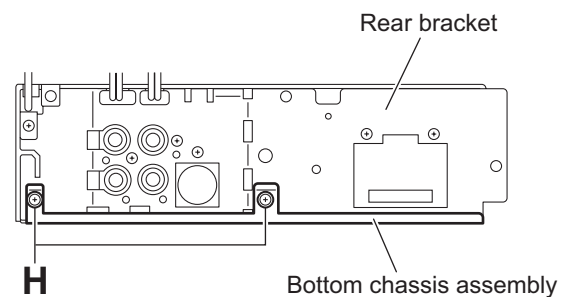


Fig.11

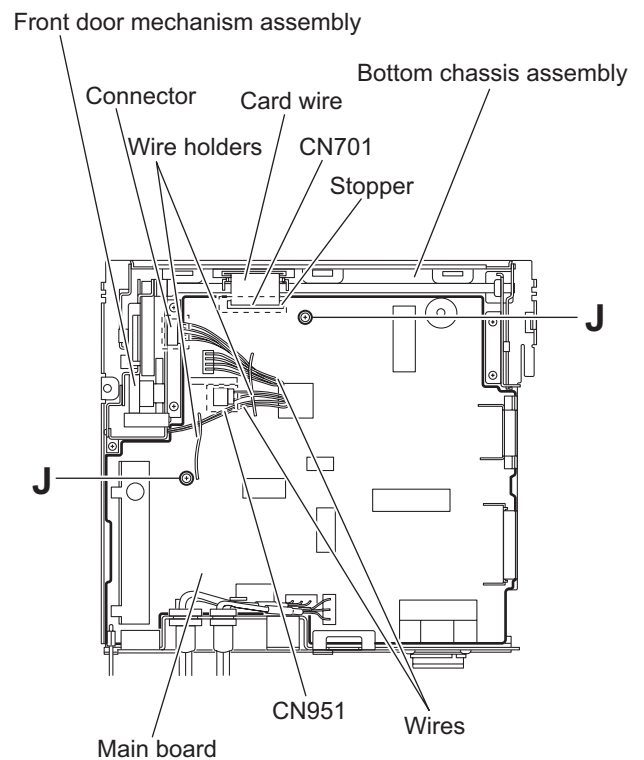


Fig.12

### 3.1.8 Removing the rear bracket (See Fig.13)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, top chassis assembly and main board.

- (1) From the rear side of the main board, remove the wires from the rear bracket in the direction of the arrow.
- (2) Remove the two screws **K** and three screws **L** attaching the rear bracket to the main board.

**Reference:**

After attaching the rear bracket to the main board, pass the wires through the wire holder and insert them into the slots of the rear bracket.

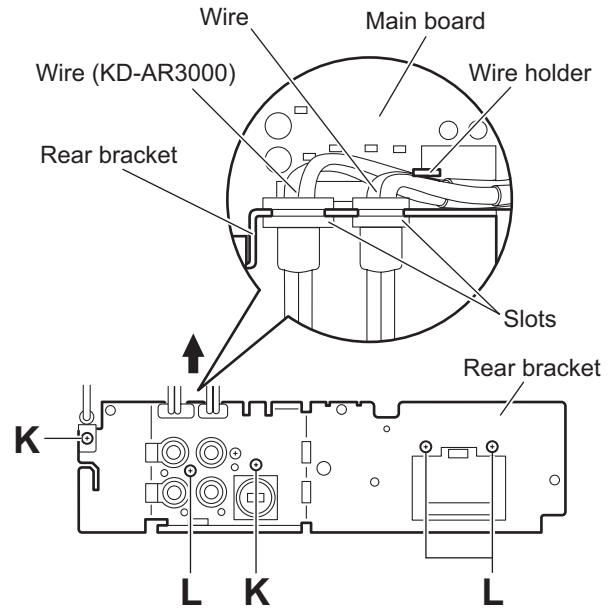


Fig.13

### 3.1.9 Removing the front door mechanism assembly (See Fig.14.)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, top chassis assembly and main board.

- (1) From the top side of the bottom chassis assembly, remove the screw **M** attaching the shaft holder to the bottom chassis.
- (2) Remove the five screws **N** attaching the front door mechanism assembly to the bottom chassis.

**Reference:**

When attaching the screws **M** and **N**, apply a locking agent them.

- (3) Take out the front door mechanism assembly from the bottom chassis.

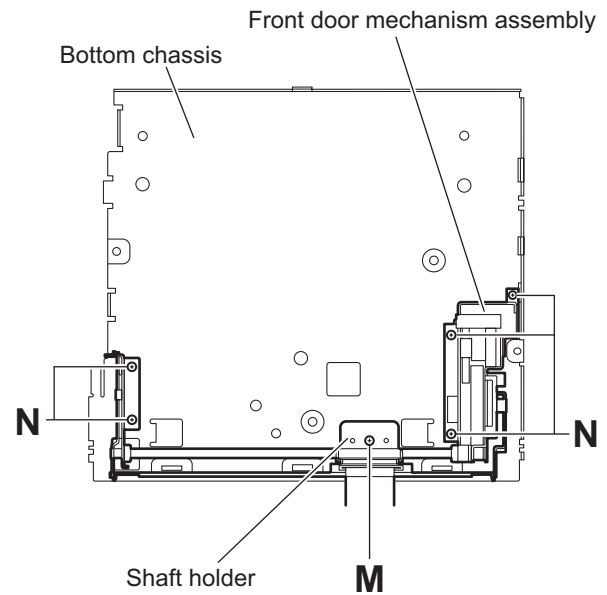


Fig.14

**3.1.10 removing the front board**  
**(See Figs.15 to 18)**

- Prior to performing the following procedures, remove the front panel assembly.
  - (1) From the rear side of the front panel assembly, remove the four screws **P** attaching the rear cover assembly to the front panel assembly. (See Fig.15.)
  - (2) Release the twelve joints **c** of the front panel assembly and remove the rear cover assembly. (See Fig.16.)
  - (3) From the left side of the front panel assembly, pull out the knob in the direction of the arrow 2 while pulling the front board in the direction of the arrow 1. (See Fig.17.)
  - (4) Take out the front board from the front panel assembly. (See Fig.18.)

**Note:**

When removing the rear cover assembly and front board, be careful not to lose the comp. spring. (See Fig.18.)

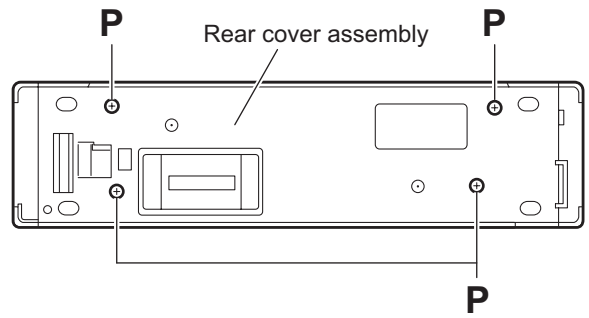


Fig.15

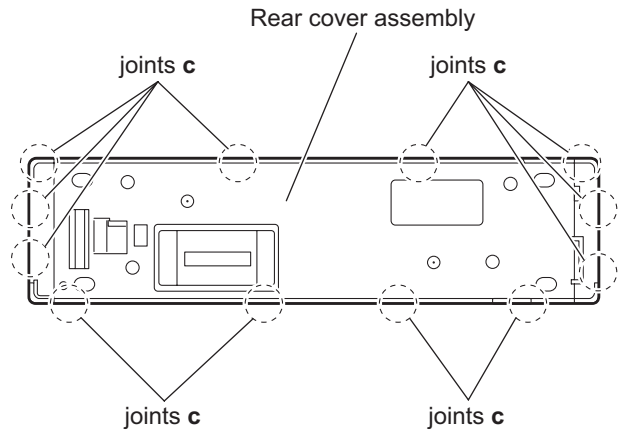


Fig.16

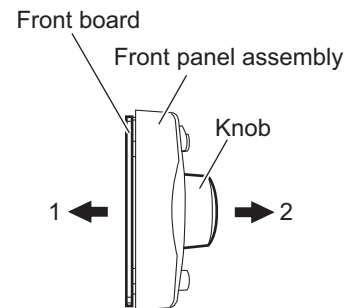


Fig.17

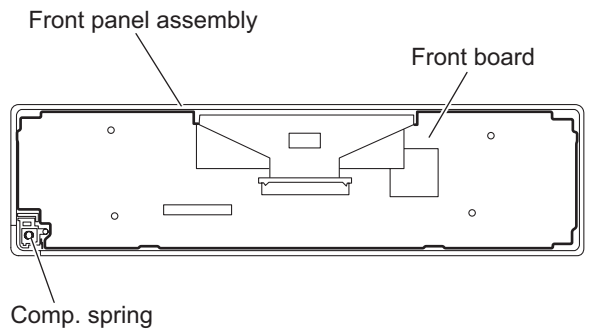


Fig.18

### 3.2 CD Mechanism section

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

- (1) Remove the four 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**.

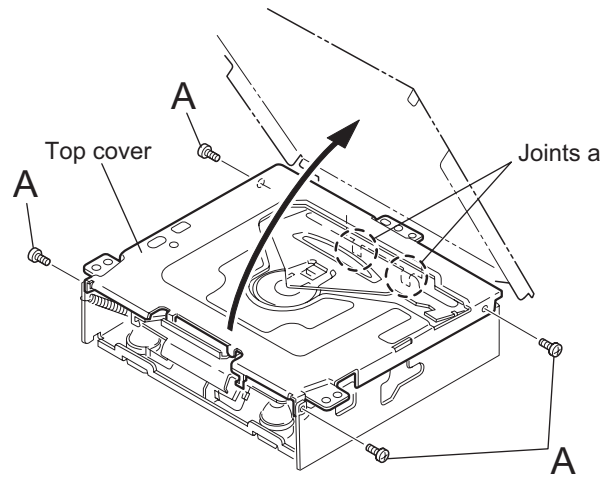


Fig.1

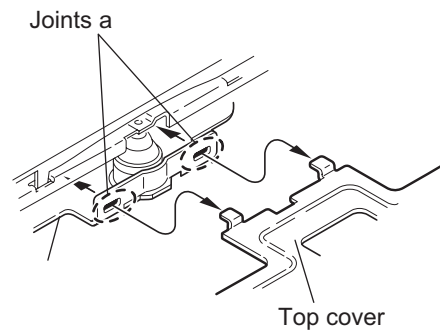


Fig.2

### 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 pickup.
- (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 wires on the connector board if necessary.

#### CAUTION:

Unsolder the short-circuit point after reassembling.

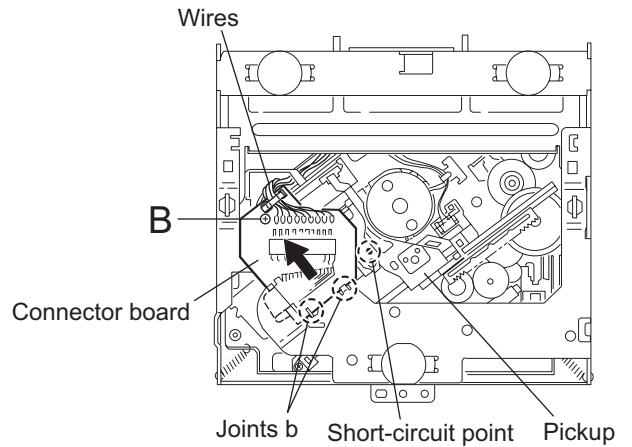


Fig.3

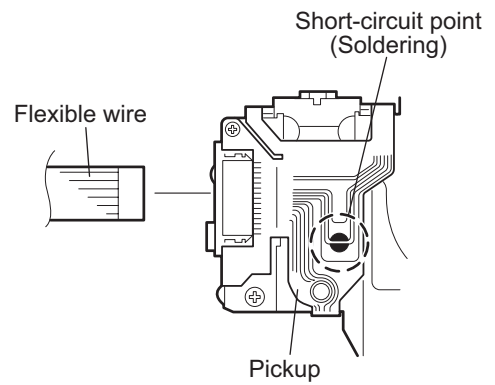


Fig.4

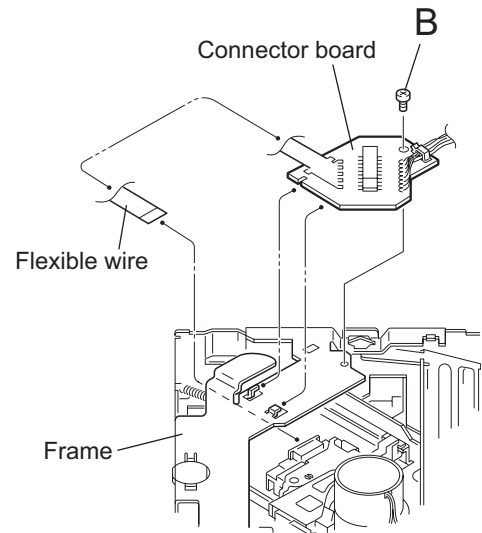


Fig.5

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

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

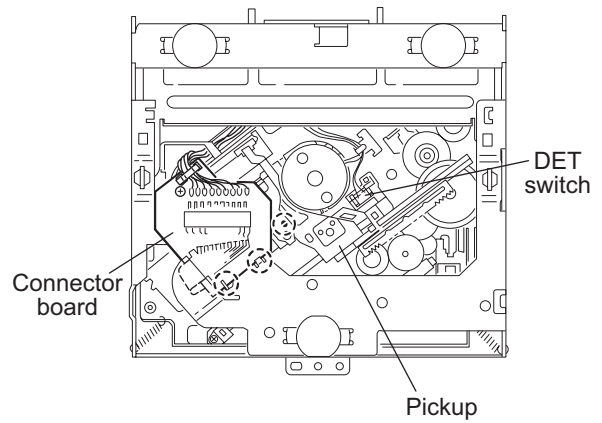


Fig.6

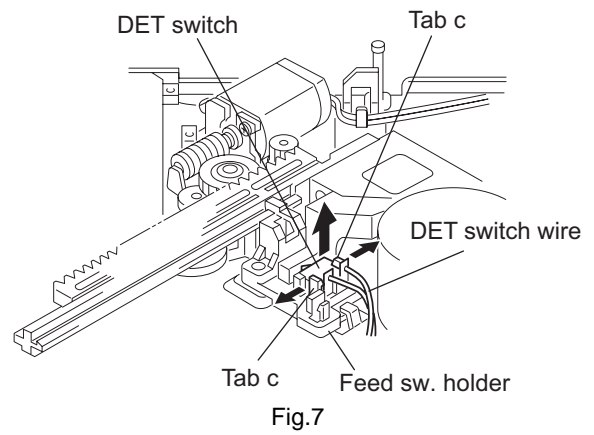


Fig.7

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

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

**CAUTION:**

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

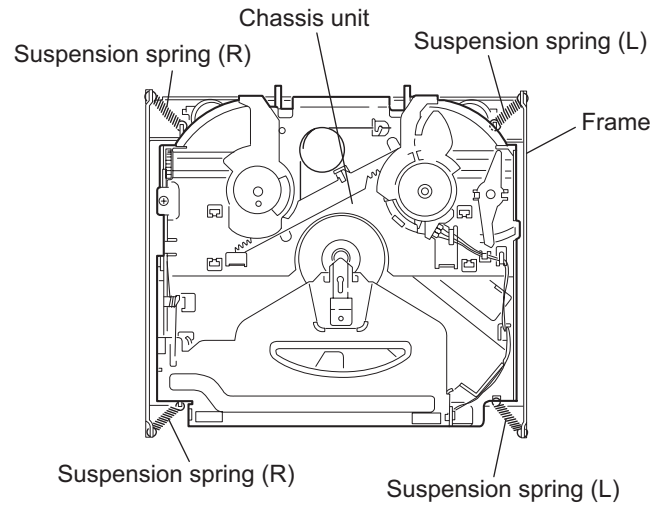


Fig.8

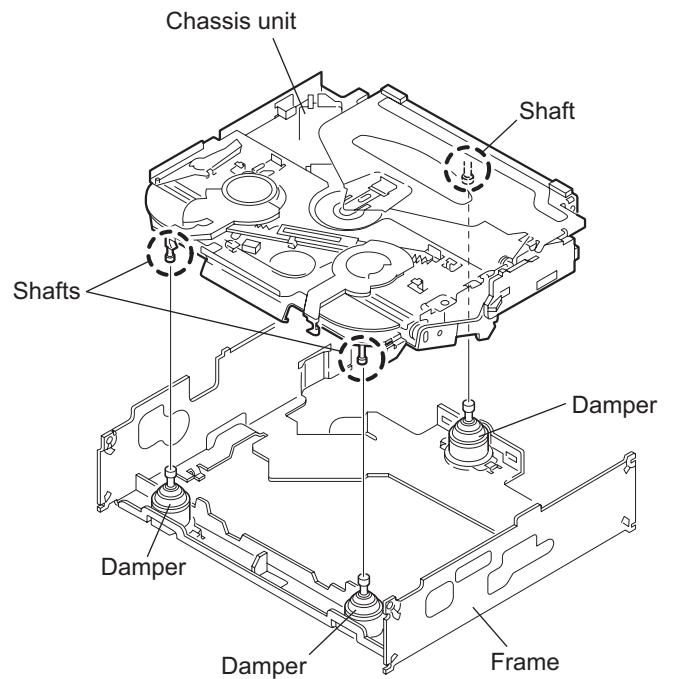
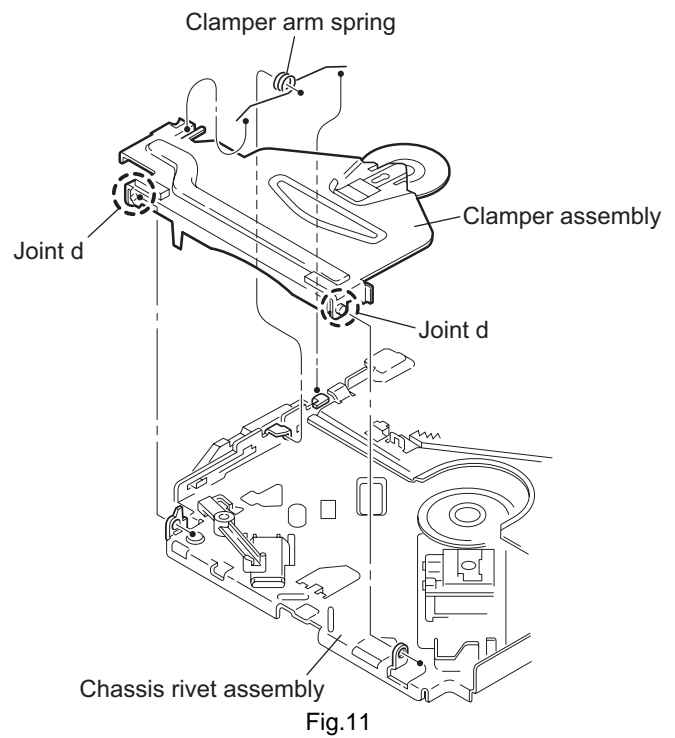
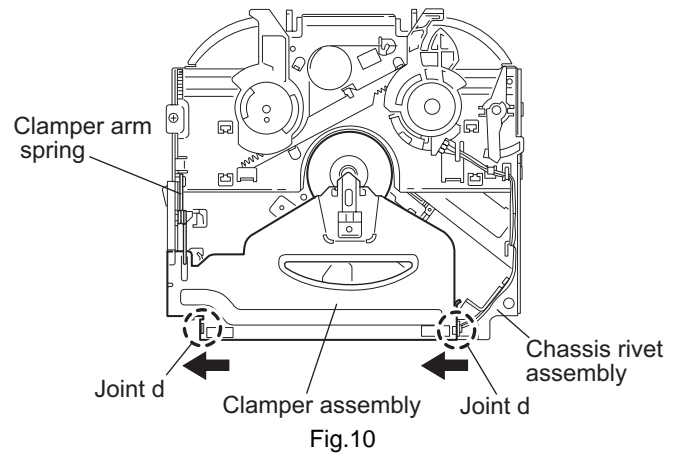


Fig.9

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

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



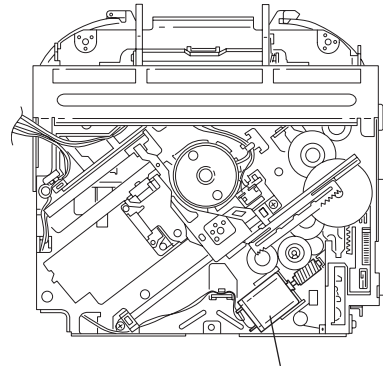


### 3.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- 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

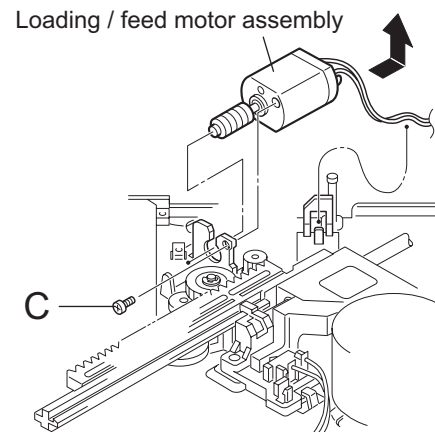


Fig.13

### 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.

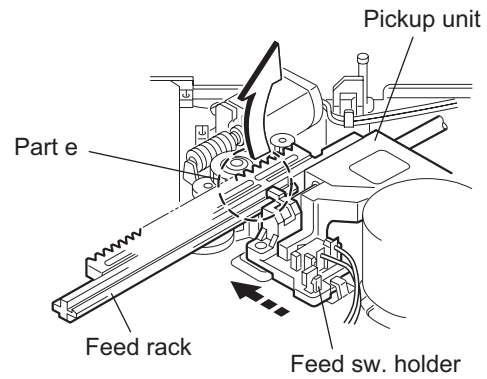


Fig.15

### 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 joint **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**.

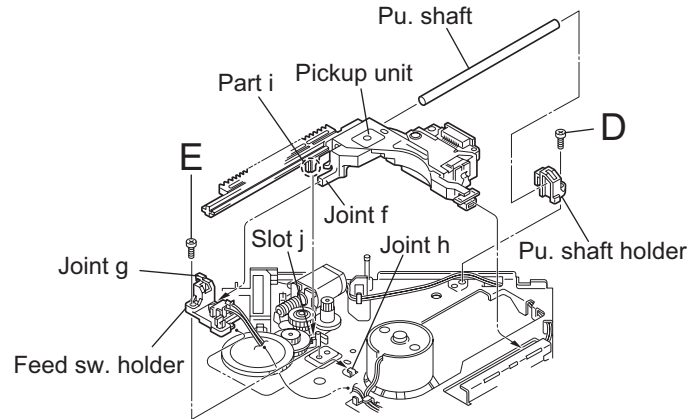


Fig.16

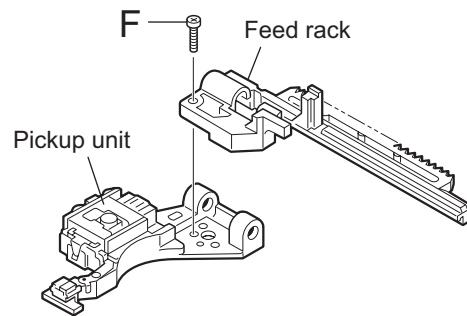


Fig.17

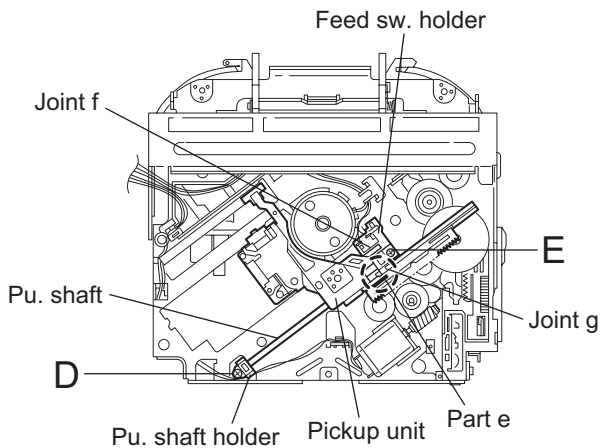


Fig.14

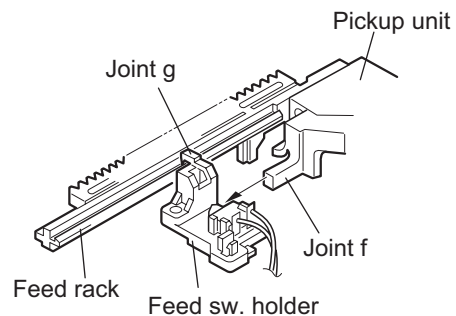


Fig.18

### 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 clasper 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.

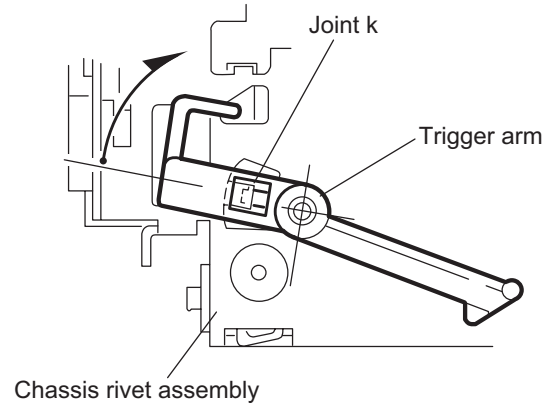


Fig.19

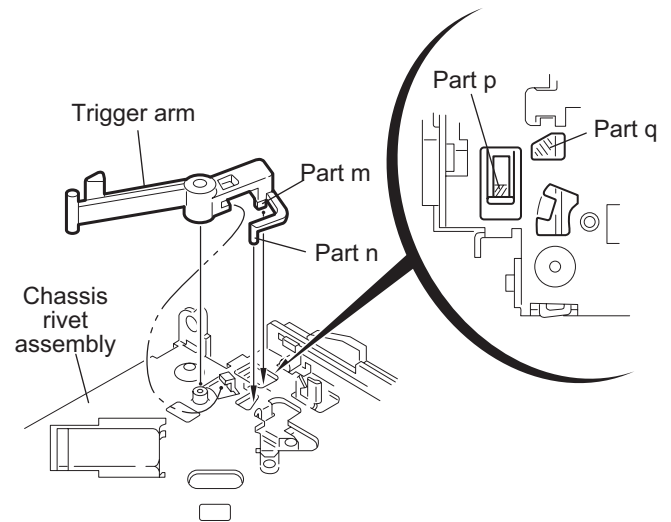


Fig.20

### 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 clasper 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.

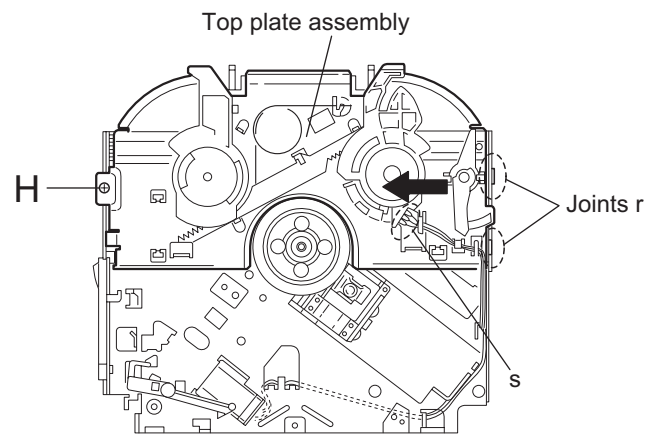


Fig.21

### 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.

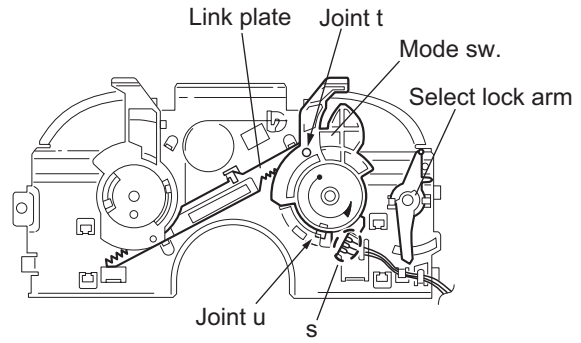


Fig.22

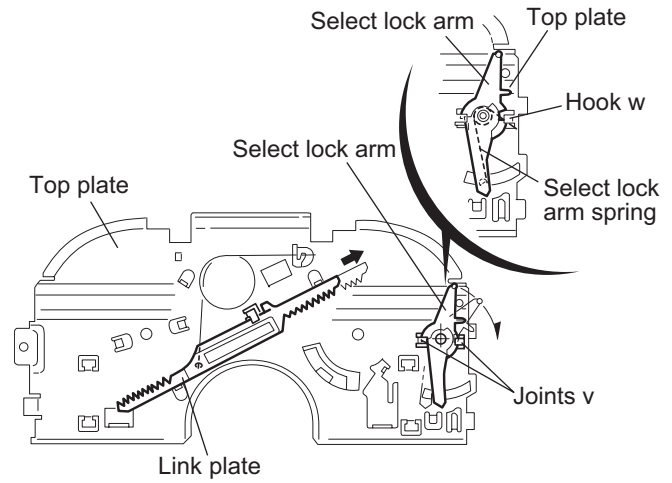


Fig.23

### 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.

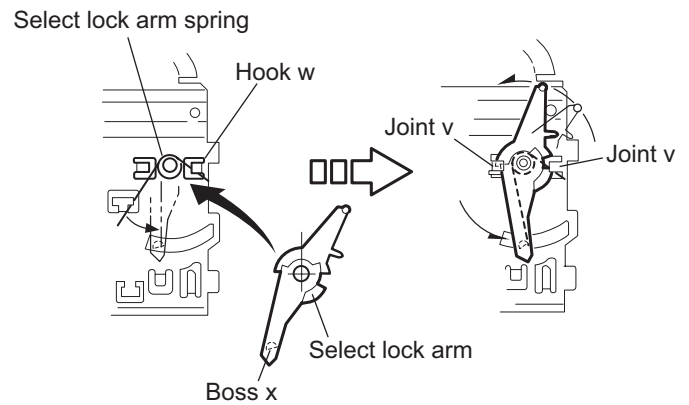


Fig.24

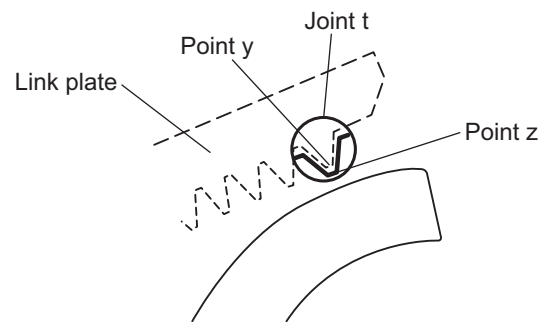


Fig.25

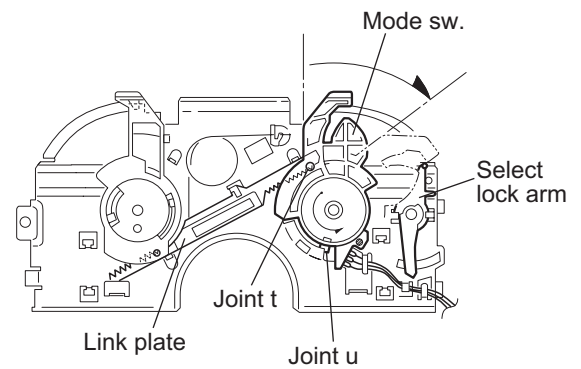


Fig.26

**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..

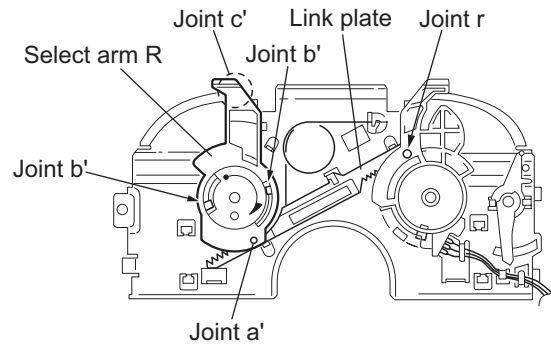


Fig.27

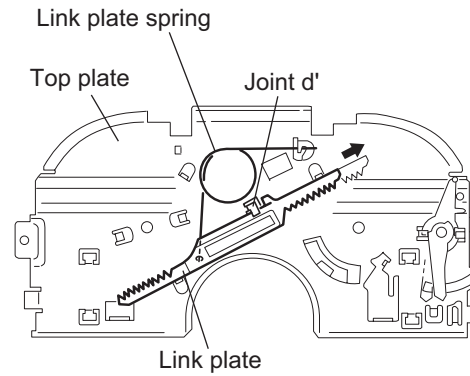


Fig.28

**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.

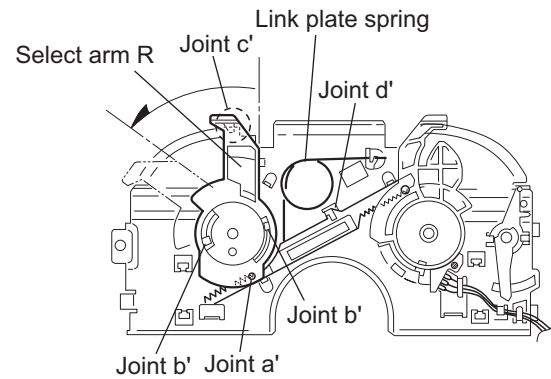


Fig.29

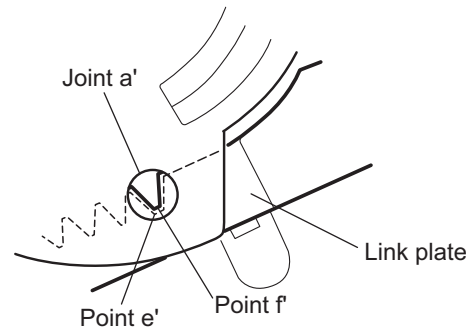


Fig.30

**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.)

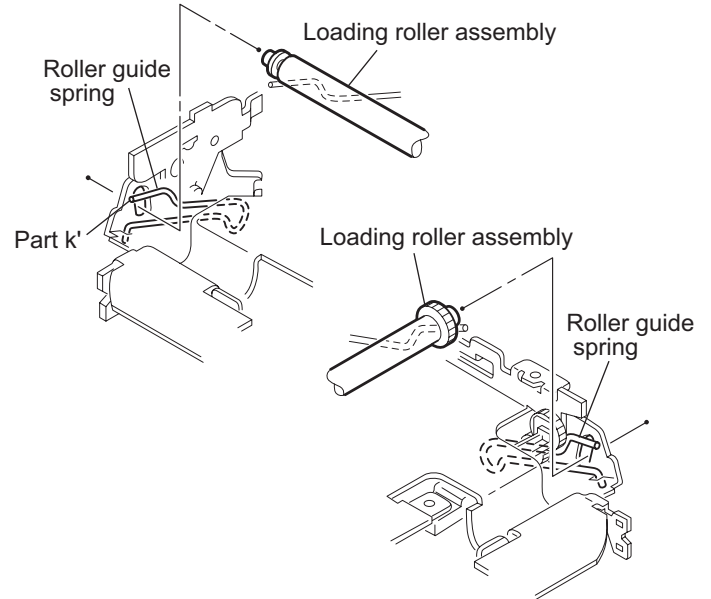


Fig.32

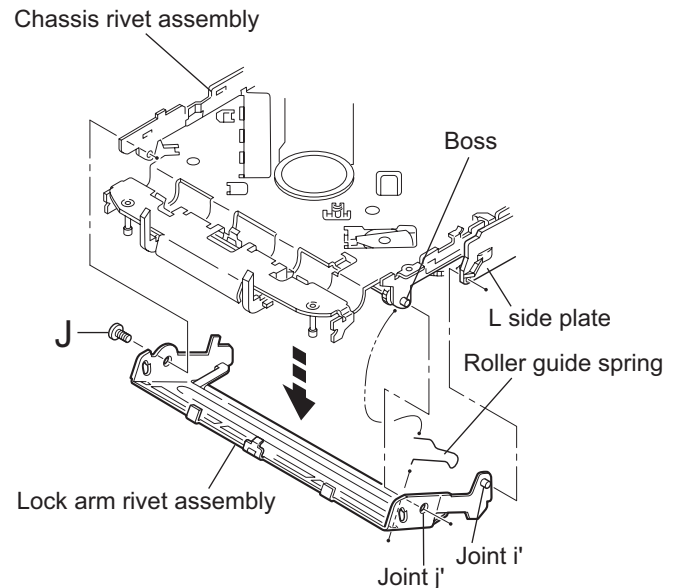


Fig.33

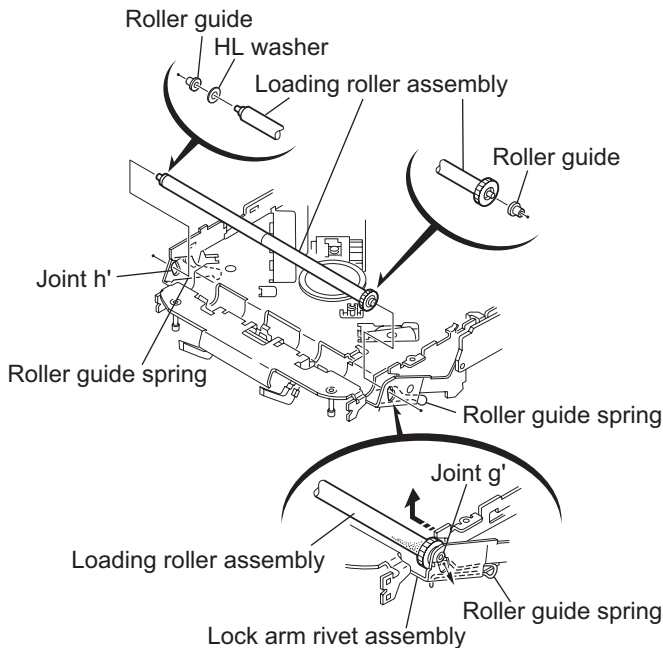


Fig.31

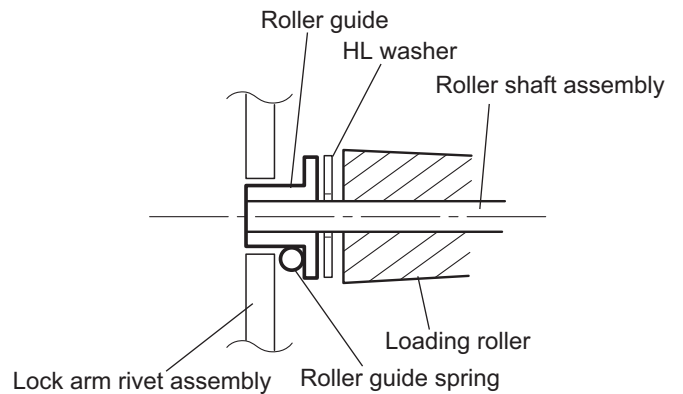


Fig.34

### 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.

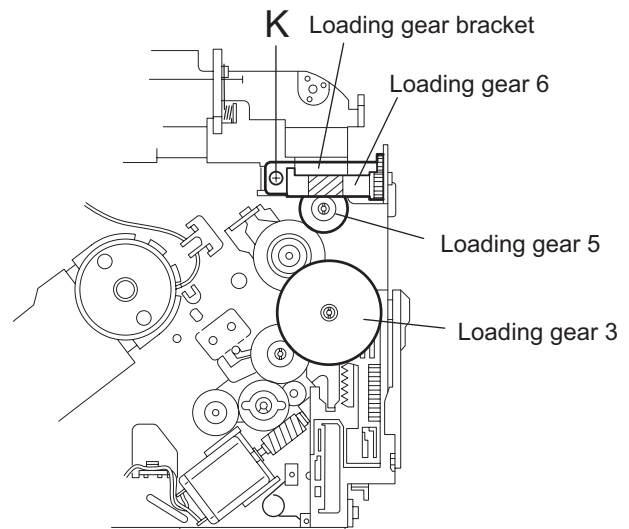


Fig.35

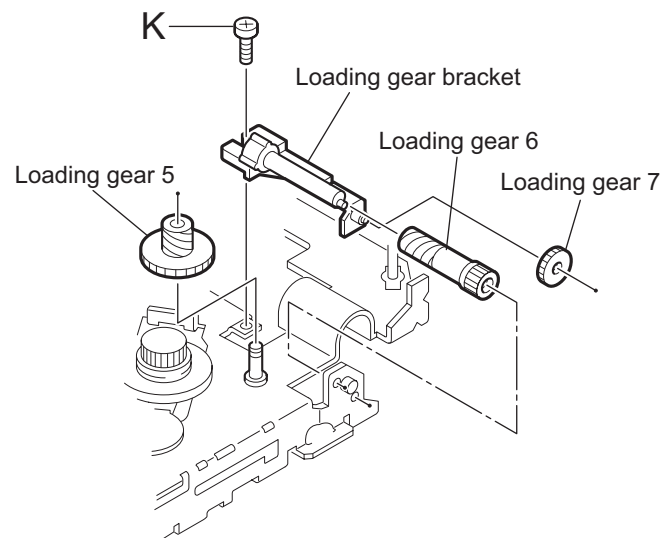


Fig.36



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

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

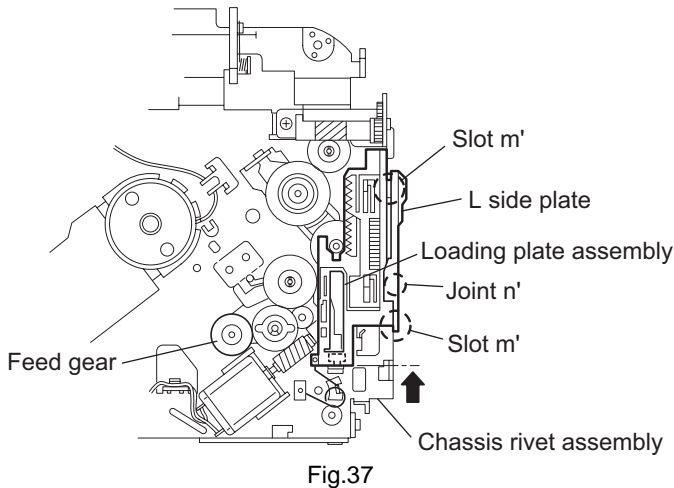


Fig.37

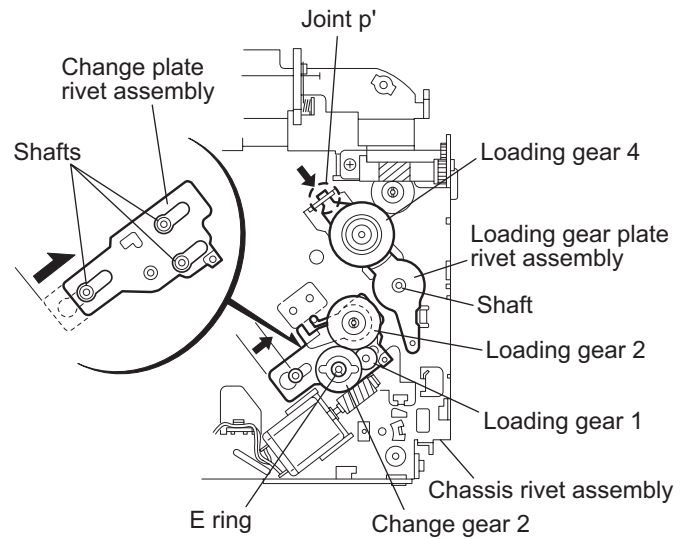


Fig.38

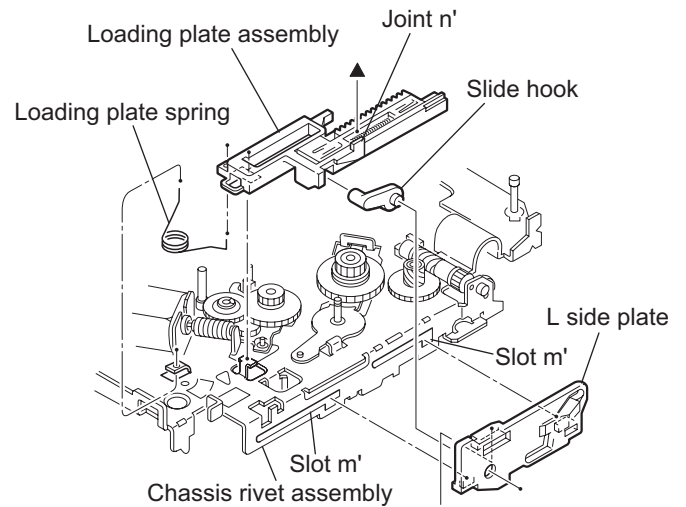


Fig.39

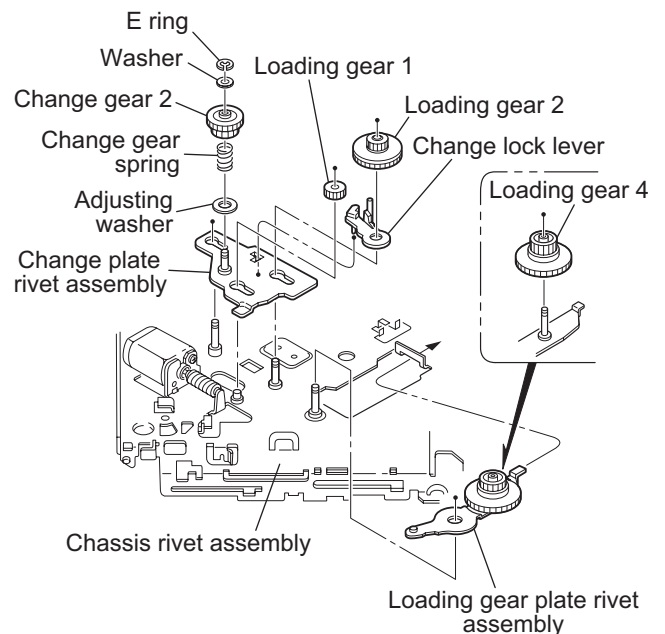
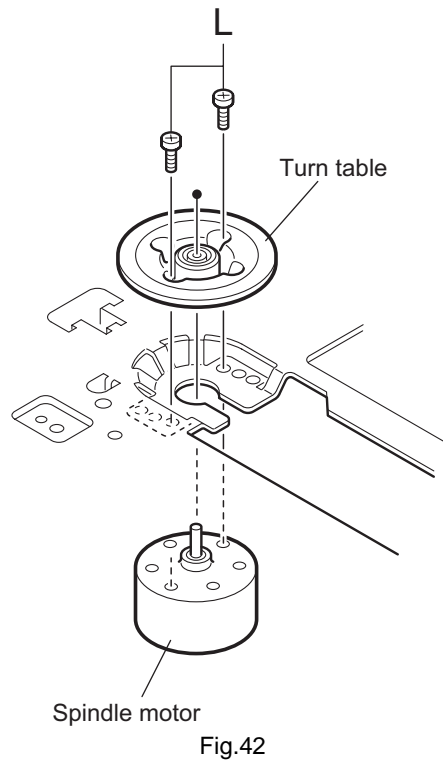
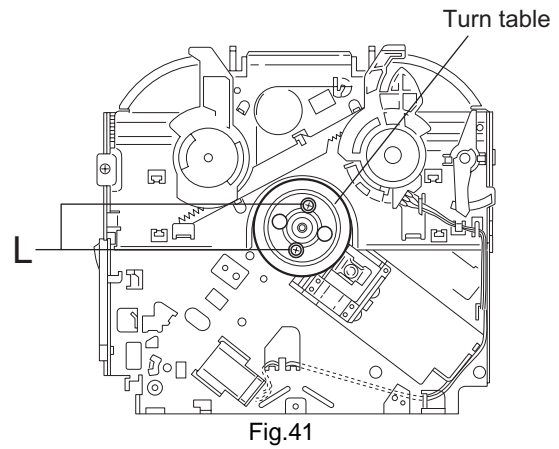


Fig.40

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

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and 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.



## SECTION 4 ADJUSTMENT

### 4.1 Adjustment method

#### ■ Test instruments required for adjustment

- (1) Digital oscilloscope (100MHz)
- (2) AM Standard signal generator
- (3) FM Standard signal generator
- (4) Stereo modulator
- (5) Electric voltmeter
- (6) Digital tester
- (7) Tracking offset meter
- (8) Test Disc JVC :CTS-1000
- (9) Extension cable for check  
EXTSH002-22P × 1

#### ■ Standard volume position

Balance and Bass & Treble volume : Indication "0"  
Loudness : OFF

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

##### Caution:

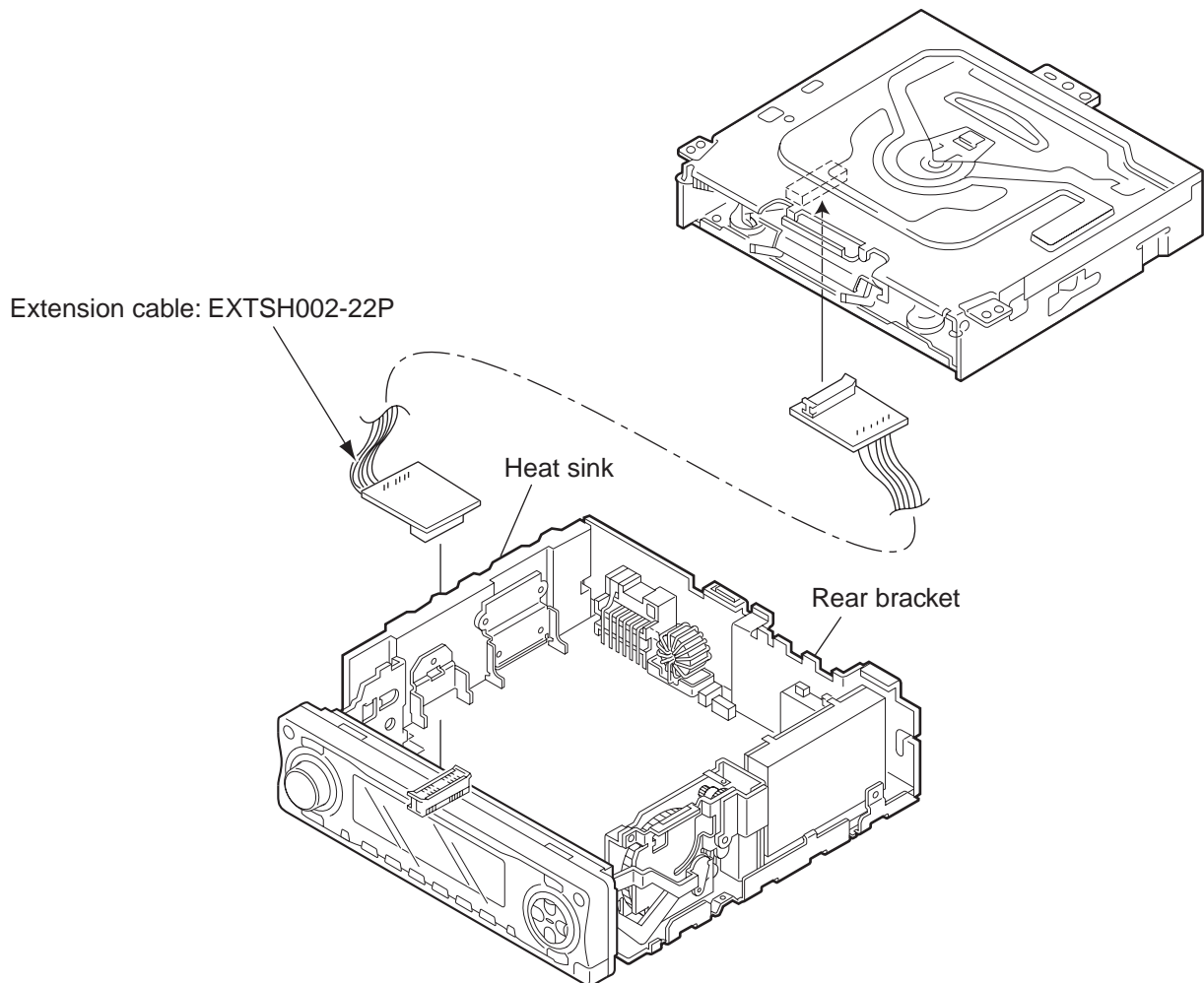
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

#### ■ Standard measuring conditions

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

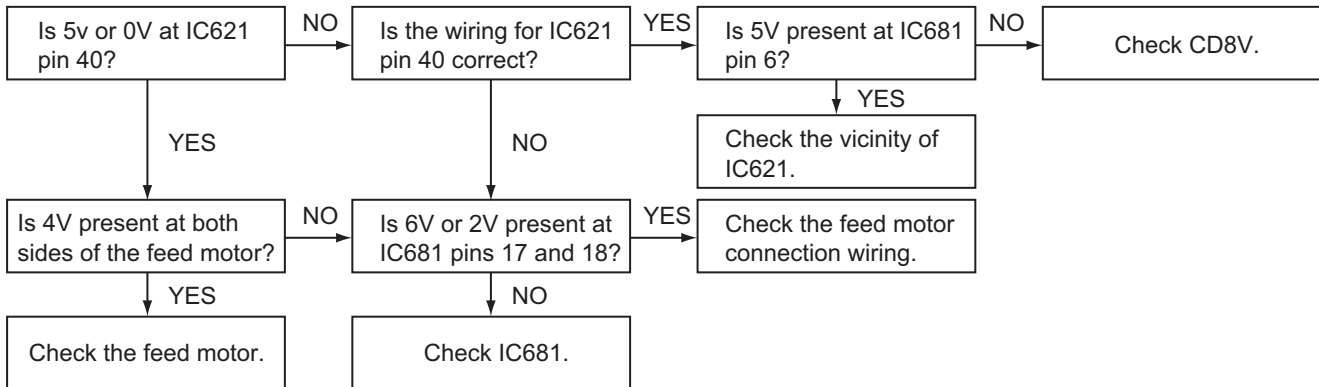
#### ■ Dummy load

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

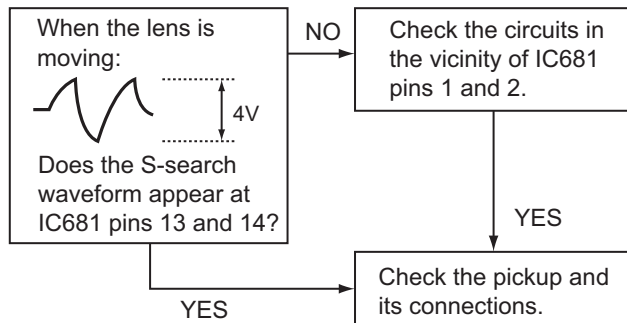


# SECTION 5 TROUBLE SHOOTING

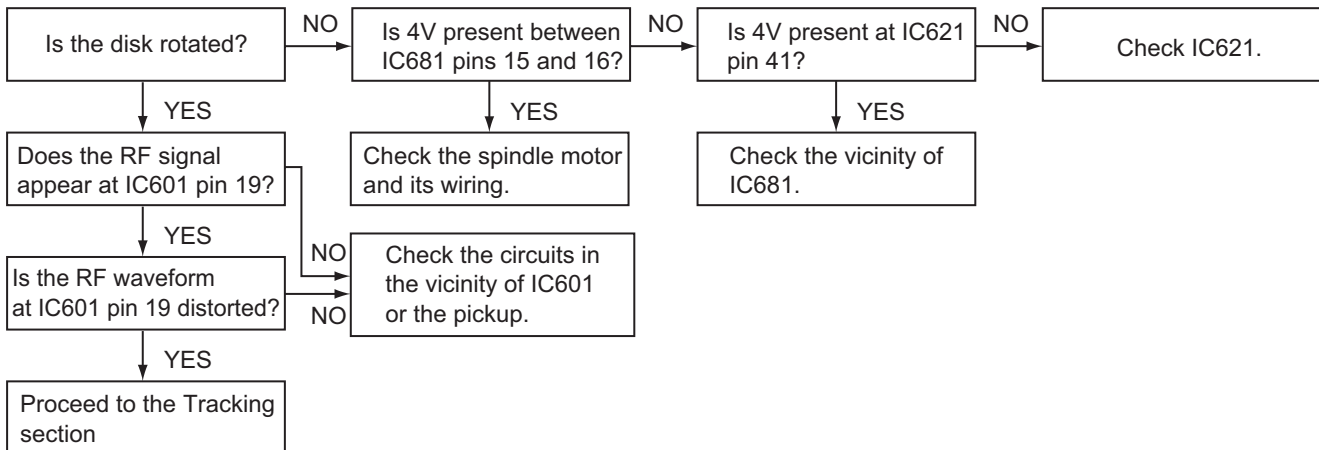
## 5.1 Feed section



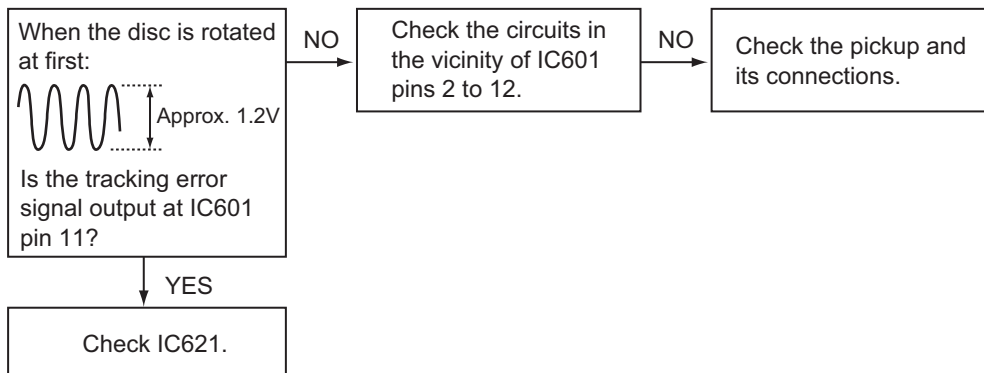
## 5.2 Focus section



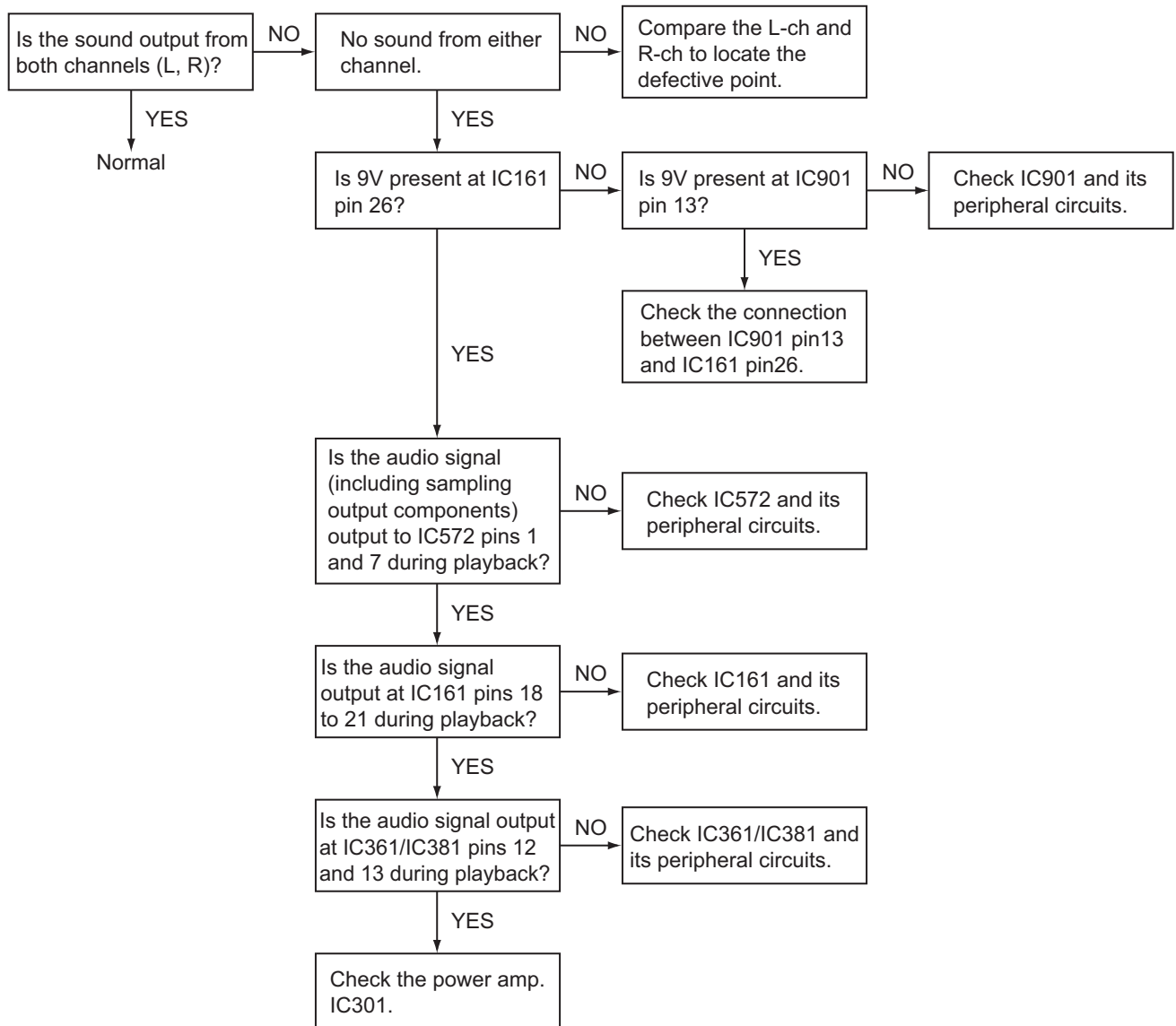
## 5.3 Spindle section



## 5.4 Tracking section



## 5.5 Signal processing section



## 5.6 Maintenance of laser pickup

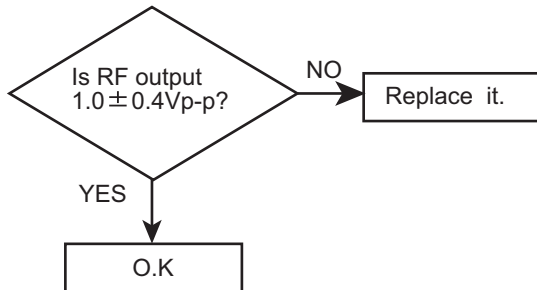
### (1) Cleaning the pick up lens

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

### (2) Life of the laser diode

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

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

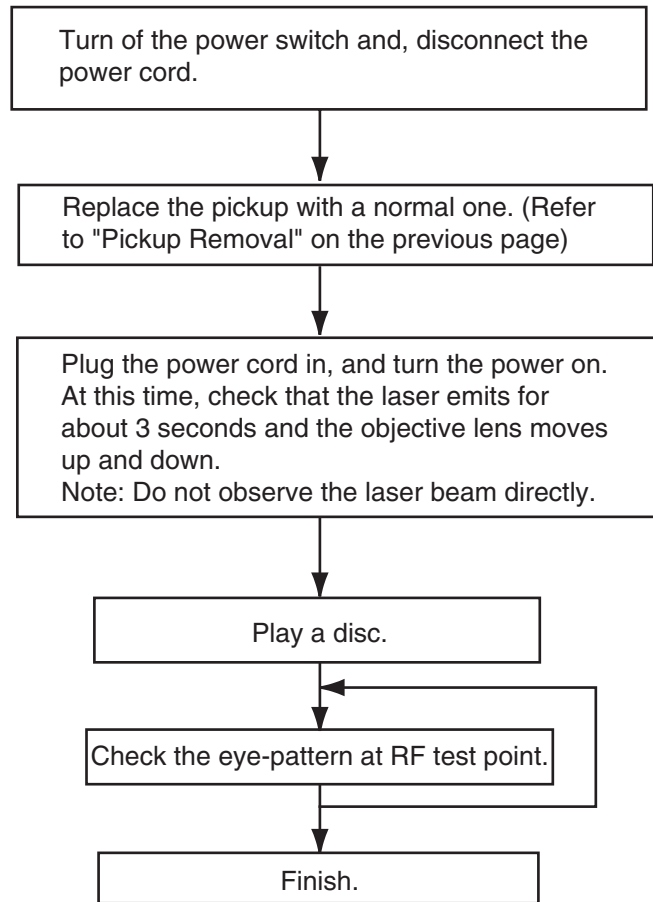


### (3) Semi-fixed resistor on the APC PC board

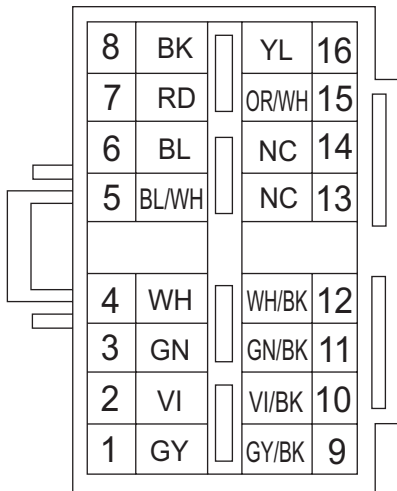
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

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

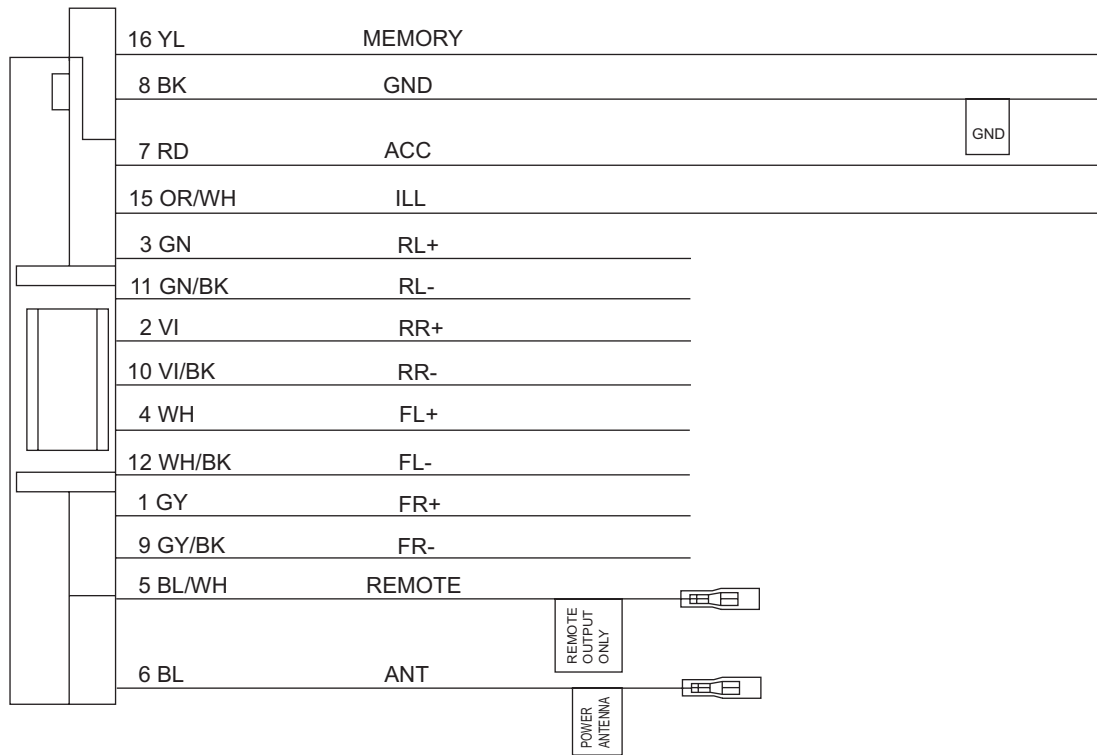
## 5.7 Replacement of laser pickup



5.8 16 PIN CORD DIAGRAM for KD-AR3000

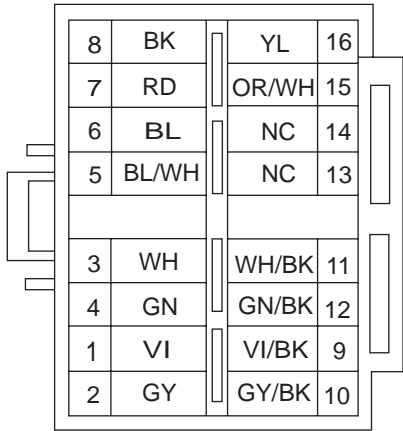


BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
		OR	Orange

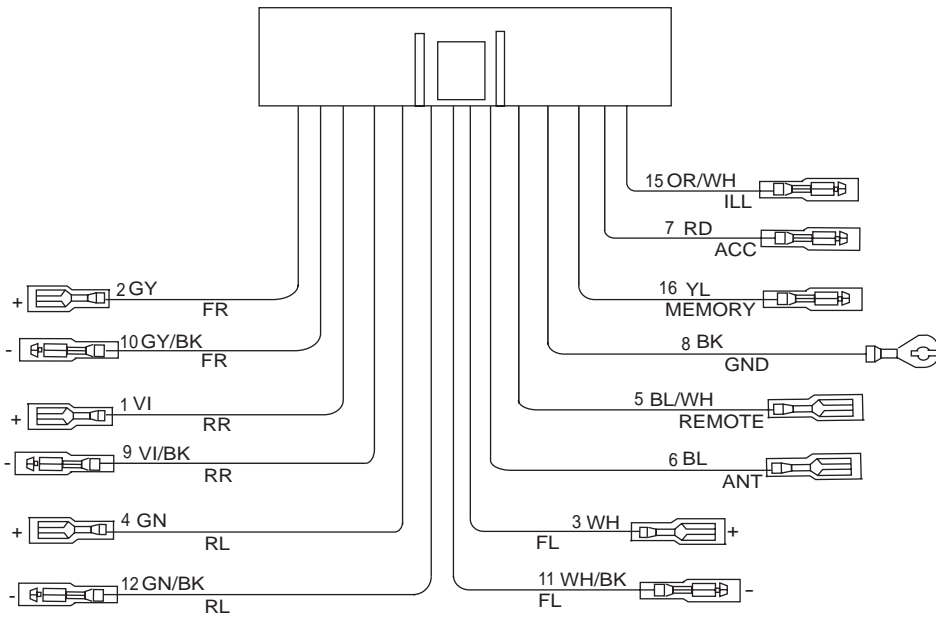


RR	Rear Right	ANT	Auto Antenna
FR	Front Right	ACC	ACC Line
FL	Front Left	ILL	Illuminations Control
RL	Rear Left	GND	Ground
REMOTE	Remote	MEMORY	Memory Backup Battery+

5.9 16 PIN CORD DIAGRAM for KD-LH300



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



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







**JVC**

VICTOR COMPANY OF JAPAN, LIMITED

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

(No.MA042)



Printed in Japan  
WPC

# PARTS LIST

[ KD-AR3000 ]

[ KD-LH300 ]

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

Area suffix

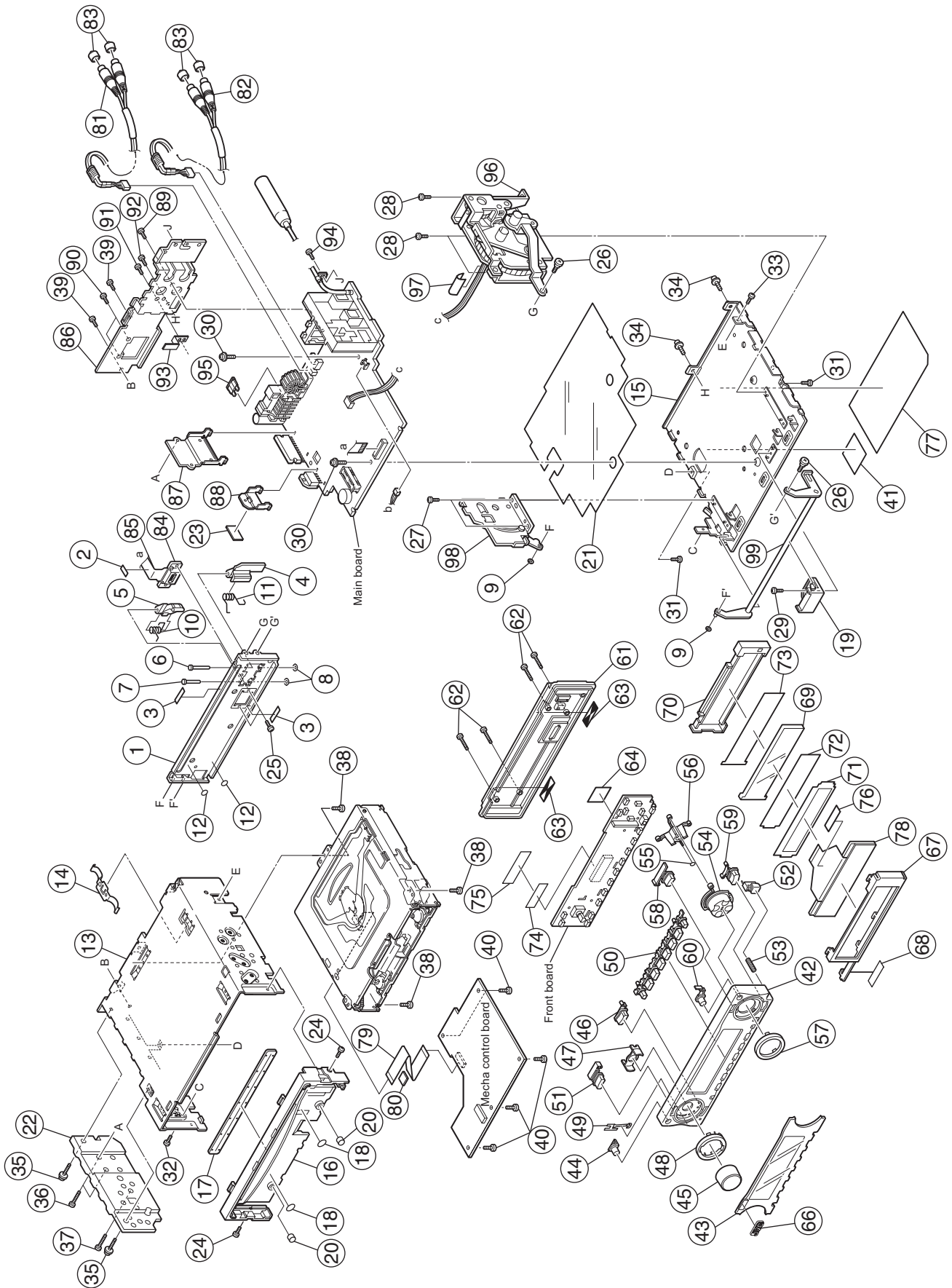
J ----- U.S.A.

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CD mechanism assembly and parts list (Block No.MB) .....	3- 4
Electrical parts list (Block No.01~ 03) .....	3- 6
Packing materials and accessories parts list (Block No.M3) .....	3-14

# 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	GE30975-001A	FRONT BKT ASSY		
2	FSYH4036-100	SHEET		
3	GE40218-012A	SHEET	(x2)	
4	GE30972-001A	DETACH LEVER		
5	GE30973-001A	KICK LEVER		
6	GE40192-001A	SHAFT		
7	GE40193-001A	SHAFT		
8	WDL123525	WASHER	(x2)	
9	WDL215025	WASHER	(x2)	
10	GE40194-001A	T SPRING		
11	GE40195-002A	T.SPRING		
12	GE40218-009A	SHEET	(x2)	
13	GE10073-004A	TOP CHASSIS		
14	GE40135-001A	EARTH PLATE		
15	GE10074-001A	BOTTOM CHASSIS		
16	GE10075-001A	FRONT CHASSIS		
17	GE40156-001A	BLIND		
18	GE40224-001A	MIRROR SHEET	(x2)	
19	GE30974-001A	FPC GUIDE		
20	GE40196-001A	ABSORBER	(x2)	
21	GE31204-003A	INSULATOR		
22	GE31206-002A	HEAT SINK		
23	GE40107-002A	HEAT SINK		
24	QYSPSP2003M	SCREW	2mm x 3mm(x2)	
25	QYSPSTU2040M	TAP SCREW	M2 x 4mm(x2)	
26	LV42181-002A	SPECIAL SCREW	(x2)	
27	LV40865-001A	MINI SCREW	(x2)	
28	LV40865-001A	MINI SCREW	(x3)	
29	LV40865-001A	MINI SCREW		
30	LV41200-001A	SPECIAL SCREW	(x2)	
31	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)	
32	QYSDST2604Z	SCREW	2.6mm x 4mm	
33	QYSDST2604Z	SCREW	2.6mm x 4mm	
34	LV41200-001A	SPECIAL SCREW	(x2)	
35	FSKZ4005-002	SCREW	(x2)	
36	QYSDST2610Z	SCREW	2.6mm x 10mm(x2)	
37	QYSDST2610Z	SCREW	2.6mm x 10mm	
38	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
39	QYSDST2604Z	SCREW	2.6mm x 4mm(x2)	
40	QYSDST2004Z	SCREW	2mm x 4mm(x5)	
41	GE40218-011A	SHEET		
42	GE10082-006A	FRONT PANEL		AR30 00
42	GE10082-005A	FRONT PANEL		LH300
43	GE31177-002A	FINDER ASSY		AR30 00
43	GE31177-001A	FINDER ASSY		LH300
44	GE30832-002A	POWER BUTTON		
45	GE30856-001A	KNOB		
46	GE30859-001A	SEL BUTTON		
47	GE30834-001A	RIM LENS		
48	GE30836-001A	RIM COVER(L)		
49	GE31200-004A	RESET BUTTON		AR30 00
49	GE31200-003A	RESET BUTTON		LH300
50	GE20152-001A	PRESET BUTTON		
51	GE31172-002A	EQ BUTTON		
52	GE31174-004A	DETACH BUTTON		AR30 00
52	GE31174-003A	DETACH BUTTON		LH300
53	FSKW3002-012	COMP.SPRING		
54	GE30835-001A	NAV BUTTON		
55	FSYH4036-013	SHEET		
56	GE30937-002A	NAVI BASE		
57	GE30858-003A	RIM COVER(R)		
58	GE30860-001A	FM/AM BUTTON		
59	GE30861-002A	EQ BUTTON		
60	GE31173-001A	EJECT BUTTON		
61	GE31203-004A	R.COVER ASSY		
62	VKZ4777-001	MINI SCREW	(x4)	
63	GE40218-006A	SHEET	(x2)	
64	GE40218-008A	SHEET		
66	GE40204-001A	JVC BADGE		
67	GE31175-001A	LCD CASE		
68	GE40218-007A	SHEET		

△ Symbol No.	Part No.	Part Name	Description	Local
69	GE30984-005A	LCD LENS		
70	LV33404-001A	LENS CASE		
71	LV42884-001A	LCD FILTER		
72	LV42995-002A	LCD FILTER		
73	LV42955-002A	LENS SHEET		
74	LV43084-001A	DOUBLE FACE		
75	LV40848-034A	SPACER(P)		
76	LV40846-036A	SPACER(F)		
77	GE31163-003A	NAME PLATE		AR30 00
77	GE31160-002A	NAME PLATE		LH300
78	QLD0232-001	LCD MODULE		
79	QUQ105-2207AE	FFC WIRE		
80	VYSH101-009	SPACER		
81	QAM0547-001	SUBWOOFER CABEL		
82	QAM0548-001	L-IN CABLE		AR30 00
83	VYTA500-001	PIN CAP	(x4)	AR30 00
83	VYTA500-001	PIN CAP	(x2)	LH300
84	QNZ0664-001	CAR CONNECTOR		
85	QAL0536-001	FPC CABLE		
86	GE31205-003A	REAR BRACKET		
87	GE40207-001A	POWER IC BKT		
88	GE40208-001A	REG IC BKT		
89	QYSDSF2606Z	SCREW	2.6mm x 6mm	
90	QYSDSF2606Z	SCREW	2.6mm x 6mm(x2)	
91	QYSDST2604Z	SCREW	2.6mm x 4mm	
92	QYSDST2606Z	SCREW	2.6mm x 6mm	
93	GE40214-001A	WIRE HOLDER		
94	QYSDST2604Z	SCREW	2.6mm x 4mm	
△ 95	QMFZ047-150-T	FUSE	15A	
96	GE20156-001A	GEAR BKT UNIT		
97	FSYH4036-100	SHEET		
98	GE30968-001A	LEVER BKT UNIT		
99	GE30964-001A	LOWER LEVER ASS		

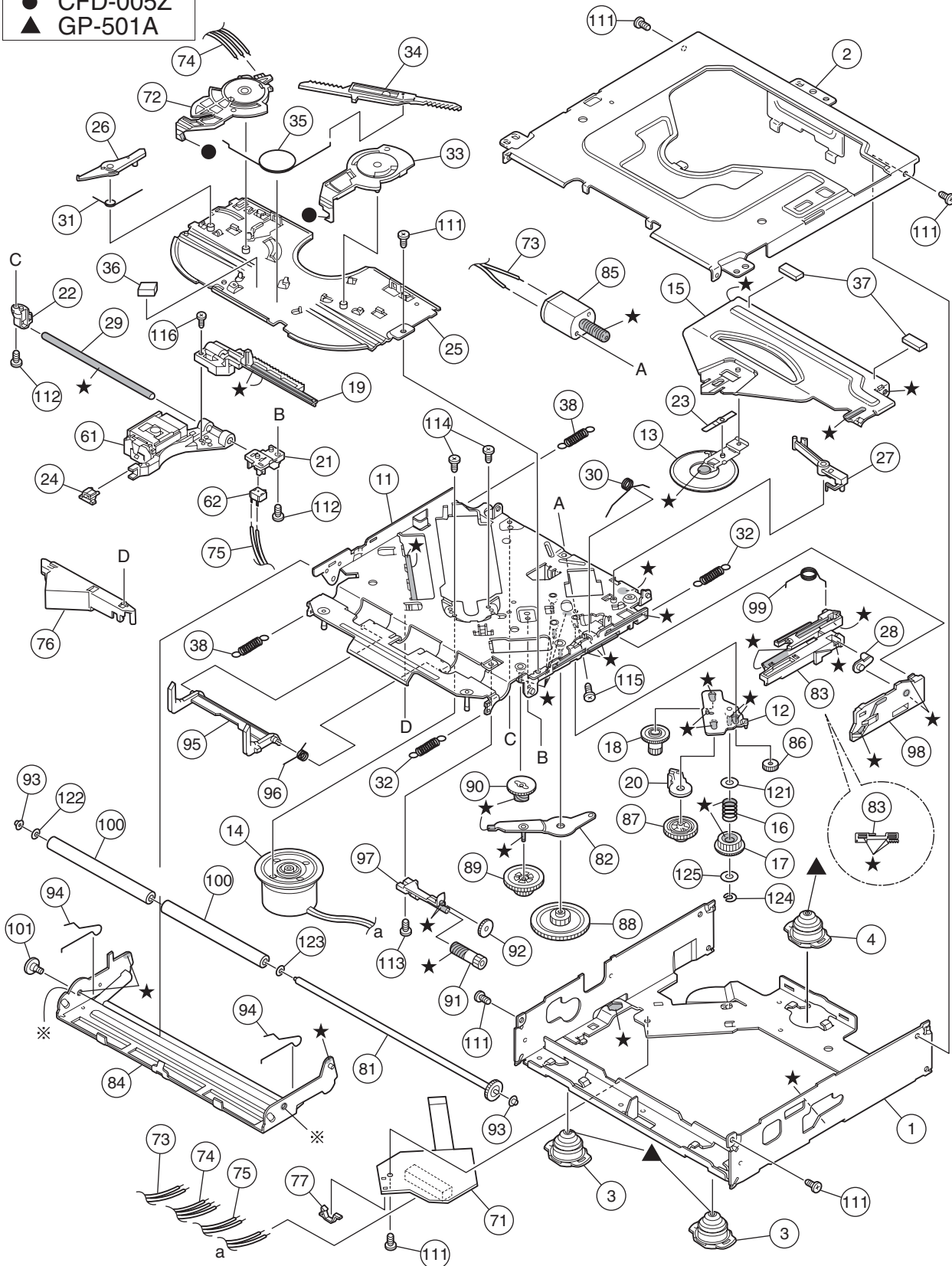
# CD mechanism assembly and parts list

Block No. M B M M

**Grease**

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

TN-2001-1013



# CD mechanism

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	30320101T	FRAME		
2	30320102T	TOP COVER		
3	30320115T	DANPER F	(x2)	
4	30320116T	DANPER R		
11	303205505T	CHASSIS RIVET		
12	303205503T	CHANGE P. RVT A		
13	303205301T	CLAMPER ASSY		
14	303205302T	SPINDLE MOTOR A		
15	30320502T	CLAMPER ARM		
16	30320503T	CHANGE GEAR SPG		
17	30320505T	CHANGE GEAR 2		
18	30320506T	FEED GEAR		
19	30320507T	FEED RACK		
20	30320509T	CHANGE LOCK RAR		
21	30320510T	FEED SW HOLDER		
22	30320511T	PU SHAFT HOLDER		
23	30320513T	CLAMPER SUB SPG		
24	30320514T	FD SUB HOLDER		
25	30320518T	TOP PLATE		
26	30320519T	SELECT LOCK ARM		
27	30320520T	TRIGGER ARM		
28	30320521T	SLIDE HOOK		
29	30320522T	PU SHAFT		
30	30320525T	CLAMPER ARM SPG		
31	30320526T	SELECT L ARM SP		
32	30320538T	SUSPENSION SP R	(x2)	
33	30320529T	SELECT ARM R		
34	30320530T	LINK PLATE		
35	30320531T	LINK PLATE SPG		
36	30320523T	CUSHION F		
37	30320524T	CUSHION R	(x2)	
38	30320539T	SUSPENSION SP L	(x2)	
61	69011614T	PICKUP OPT-725		
62	64180406T	DET SW ESE22		
71	303210302T	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	303211502T	LOCK ARM RV ASS		
85	303211303T	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	(x2)	
94	30321114T	ROLLER GUIDE SP	(x2)	
95	30321116T	DISC STOPPER AR		
96	30321117T	DISC ST ARM SPG		
97	30321118T	LD GEAR BRACKET		
98	30321125T	L SIDE PLATE		
99	30321131T	LOAD PLATE SPG		
100	30321133T	LDG ROLLER	(x2)	
101	18211223T	COLLAR SCREW		
111	9P0420031T	SCREW	(x6)	
112	9P0420041T	TAP.SCREW	(x2)	
113	9B0320041T	SCREW		
114	9C0117183T	SCREW	(x2)	
115	9C0120203T	SCREW		
116	9C0317503T	SCREW		
121	9W0130170T	PW 3.5X8X0.3		
122	9W0513060T	HL WASHER		
123	9W0710070T	L WASHER		
124	9E0100152T	E RING		
125	9W0113020T	PW 2.1X4X0.13		

# Electrical parts list

## Main board

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

△ Symbol No.	Part No.	Part Name	Description	Local
IC161	TDA7404D-X	IC		
IC201	M62449FP-X	IC		
IC251	NJM4565M-WE	IC		
IC271	CD4066BPW-X	IC		
IC301	LA47515	IC		
IC361	NJM2160AV-X	IC		
IC381	NJM2160AV-X	IC		
IC701	UPD784217AGC247	IC		
IC702	IC-PST3433U-X	IC		
IC703	BR24L16F-W-X	IC		
IC801	HD74HC126FP-X	IC		
IC901	AN80T07	IC		
IC921	NJM2360AM-X	IC		
IC951	BA6956AN	IC		
Q5	2SB624/4/-X	TRANSISTOR		
Q6	2SB624/4/-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q241	2SD601A/QR/-X	TRANSISTOR		
Q251	2SD601A/QR/-X	TRANSISTOR		
Q252	UN2111-X	TRANSISTOR		
Q271	UN2211-X	TRANSISTOR		
Q272	UN2211-X	TRANSISTOR		
Q301	UN2211-X	TRANSISTOR		
Q302	2SD601A/QR/-X	TRANSISTOR		AR30 00
Q321	KTD1304-X	TRANSISTOR		
Q331	KTD1304-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q701	UN2211-X	TRANSISTOR		
Q702	UN2214-X	TRANSISTOR		
Q703	UN2211-X	TRANSISTOR		
Q704	UN2213-X	DIGI TRANSISTOR		
Q705	UN2211-X	TRANSISTOR		
Q706	UN2211-X	TRANSISTOR		
Q707	UN2211-X	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2111-X	TRANSISTOR		
Q841	UN2211-X	TRANSISTOR		
Q881	2SD601A/QR/-X	TRANSISTOR		
Q901	UN2111-X	TRANSISTOR		
Q902	UN2211-X	TRANSISTOR		
Q951	UN2211-X	TRANSISTOR		
Q976	UN2213-X	DIGI TRANSISTOR		
Q977	2SB709A/QR/-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D2	MA111-X	SI DIODE		
D3	MA111-X	SI DIODE		
D4	MA111-X	SI DIODE		
D241	MA111-X	SI DIODE		
D242	MA111-X	SI DIODE		
D252	MA111-X	SI DIODE		
D253	MA111-X	SI DIODE		
D301	MA111-X	SI DIODE		
D321	MA111-X	SI DIODE		
D331	MA111-X	SI DIODE		
D341	MA111-X	SI DIODE		
D351	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8062/M/-X	Z DIODE		
D703	MA8062/M/-X	Z DIODE		
D704	MA8062/M/-X	Z DIODE		
D705	MA8062/M/-X	Z DIODE		
D706	MA8062/M/-X	Z DIODE		
D707	MA8062/M/-X	Z DIODE		
D708	MA8062/M/-X	Z DIODE		
D709	MA8062/M/-X	Z DIODE		
D710	MA8062/M/-X	Z DIODE		
D714	MA111-X	SI DIODE		
D715	MA111-X	SI DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D781	MA111-X	SI DIODE		
D782	UDZS11B-X	Z DIODE		
D851	RB160M-30-X	SB DIODE		AR30 00
D852	RB160M-30-X	SB DIODE		AR30 00
D853	RB160M-30-X	SB DIODE		
D854	RB160M-30-X	SB DIODE		
D901	MA111-X	SI DIODE		
D902	MA111-X	SI DIODE		
D921	RB160M-30-X	SB DIODE		
D922	MA111-X	SI DIODE		
D951	UDZS3.9B-X	Z DIODE		
D961	1N5404-TU-15	DIODE		
C1	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C2	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3	QERF1AM-476Z	E CAPACITOR	47uF 10V M	
C4	QERF1AM-476Z	E CAPACITOR	47uF 10V M	
C5	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C6	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C7	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C8	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C9	QERF1HM-104Z	E CAPACITOR	0.1uF 50V M	
C81	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C82	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C91	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C92	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C142	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	AR30 00
C161	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C162	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C163	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C164	QERF1HM-105Z	E CAPACITOR	1uF 50V M	AR30 00
C165	QERF1HM-105Z	E CAPACITOR	1uF 50V M	AR30 00
C166	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C167	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C168	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C169	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C181	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C182	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C183	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C184	QERF1HM-105Z	E CAPACITOR	1uF 50V M	AR30 00
C201	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C202	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C204	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C205	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C206	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C207	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C208	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C209	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C210	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C211	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C212	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C213	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C214	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C215	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C216	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C221	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C222	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C223	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C224	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C225	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C226	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C227	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C228	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C229	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C230	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C231	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C232	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C241	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C242	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C243	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	



△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C244	QERF1CM-226Z	E CAPACITOR	22uF 16V M		C714	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C245	QERF1HM-224Z	E CAPACITOR	0.22uF 50V M		C715	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C251	NCB31HK-682X	C CAPACITOR	6800pF 50V K	AR30 00	C716	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C251	NCB31HK-822X	C CAPACITOR	8200pF 50V K	LH300	C717	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C252	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		C718	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C253	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M		C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C255	QERF1CM-476Z	E CAPACITOR	47uF 16V M		C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C256	NCB31EK-823X	C CAPACITOR	0.082uF 25V K		C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C257	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		C722	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C259	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M		C781	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C261	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C782	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M	
C262	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C783	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C271	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C801	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C272	NCB31HK-682X	C CAPACITOR	6800pF 50V K	AR30 00	C802	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C272	NCB31HK-562X	C CAPACITOR	5600pF 50V K	LH300	C841	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C273	NCB31EK-333X	C CAPACITOR	0.033uF 25V K		C851	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	AR30 00
C274	NCB31EK-273X	C CAPACITOR	0.027uF 25V K		C852	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C275	NCB31EK-273X	C CAPACITOR	0.027uF 25V K		C881	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C301	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J		C901	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C302	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J		C902	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C303	NCB31HK-331X	C CAPACITOR	330pF 50V K		C903	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C304	NCB31HK-331X	C CAPACITOR	330pF 50V K		C904	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C305	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C905	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C306	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C307	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C907	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C308	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C908	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C309	QERF1HM-105Z	E CAPACITOR	1uF 50V M		C909	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C310	QERF1HM-105Z	E CAPACITOR	1uF 50V M		C910	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C311	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J		C921	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C312	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J		C922	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C313	NCB31HK-331X	C CAPACITOR	330pF 50V K		C923	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C314	NCB31HK-331X	C CAPACITOR	330pF 50V K		C924	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C315	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C951	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C316	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C961	QEZO675-338	E CAPACITOR	3300uF	
C317	QERF1CM-107Z	E CAPACITOR	100uF 16V M		C962	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C318	QERF1CM-226Z	E CAPACITOR	22uF 16V M		C978	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		C991	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		C992	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C993	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C322	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C994	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C361	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C995	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C362	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C996	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C363	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C997	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C364	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C998	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C365	NCB31HK-152X	C CAPACITOR	1500pF 50V K		R1	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C366	NCB31HK-152X	C CAPACITOR	1500pF 50V K		R2	NRSA63J-270X	MG RESISTOR	27kΩ 1/16W J	
C367	QERF1AM-107Z	E CAPACITOR	100uF 10V M		R3	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
C368	QERF1AM-107Z	E CAPACITOR	100uF 10V M		R4	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C369	QERF1HM-105Z	E CAPACITOR	1uF 50V M		R5	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
C370	QERF1HM-105Z	E CAPACITOR	1uF 50V M		R6	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
C371	QERF1CM-476Z	E CAPACITOR	47uF 16V M		R7	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C372	QERF1AM-107Z	E CAPACITOR	100uF 10V M		R8	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C381	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		R9	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C382	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		R10	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C383	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C384	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R60	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C385	NCB31HK-152X	C CAPACITOR	1500pF 50V K		R81	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C386	NCB31HK-152X	C CAPACITOR	1500pF 50V K		R82	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C387	QERF1AM-107Z	E CAPACITOR	100uF 10V M		R91	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C388	QERF1AM-107Z	E CAPACITOR	100uF 10V M		R92	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C389	QERF1HM-105Z	E CAPACITOR	1uF 50V M		R141	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	AR30 00
C390	QERF1HM-105Z	E CAPACITOR	1uF 50V M		R151	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	AR30 00
C391	QERF1CM-476Z	E CAPACITOR	47uF 16V M		R162	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C701	QERF1AM-227Z	E CAPACITOR	220uF 10V M		R163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C702	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R164	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C703	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R166	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C704	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R167	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C705	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R168	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C706	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M		R169	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C707	QERF1AM-227Z	E CAPACITOR	220uF 10V M		R170	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C708	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R171	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C709	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R177	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C710	QERF1AM-227Z	E CAPACITOR	220uF 10V M		R178	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C711	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R182	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C712	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R183	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C713	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R184	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R717	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R186	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R718	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R187	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R719	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R188	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R197	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R198	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R241	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R242	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R726	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R243	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		R727	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R244	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R728	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R245	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R729	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R246	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R247	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R248	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J		R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R251	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R733	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R252	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R734	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R253	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R735	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R254	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R736	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R255	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R737	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R256	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R738	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R257	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R739	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R258	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R259	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R260	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R742	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R261	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R745	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R262	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R746	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R263	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R747	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R271	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R748	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R272	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R749	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R273	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R750	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R274	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R751	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R275	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R752	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R276	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R301	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R302	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R757	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R760	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R311	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R761	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R312	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R762	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R321	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R763	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R322	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R764	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R323	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R767	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R331	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R332	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R769	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R333	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R770	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R771	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R342	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R772	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R343	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R773	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R351	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R774	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R352	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R775	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	LH300
R353	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R776	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	AR3000
R361	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R777	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R362	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R779	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R363	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R780	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R364	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R788	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R366	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R789	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R367	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R790	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R381	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R791	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R382	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R792	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R383	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R793	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R384	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R795	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R386	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R797	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R387	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R798	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	AR3000
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	AR3000	R799	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	AR3000
R702	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R801	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R703	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R802	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R704	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J		R803	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R804	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R706	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R805	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R707	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R806	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R708	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R807	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R709	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R710	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R809	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R711	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R810	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R841	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R713	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R716	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R851	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	AR30 00	Q409	2SD601A/QR/-X	TRANSISTOR		
R852	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J		Q410	2SD601A/QR/-X	TRANSISTOR		
R853	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J		Q411	2SD601A/QR/-X	TRANSISTOR		
R881	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		Q412	2SD601A/QR/-X	TRANSISTOR		
R882	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		Q413	2SD601A/QR/-X	TRANSISTOR		
R883	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		Q420	2SD601A/QR/-X	TRANSISTOR		
R901	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		Q421	2SD601A/QR/-X	TRANSISTOR		
R902	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		Q422	2SD601A/QR/-X	TRANSISTOR		
R903	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		Q423	2SD601A/QR/-X	TRANSISTOR		
R904	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		Q424	2SD601A/QR/-X	TRANSISTOR		
R921	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J		Q425	2SD601A/QR/-X	TRANSISTOR		
R922	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J		Q480	2SD601A/QR/-X	TRANSISTOR		
R923	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J		Q801	2SB709A/QR/-X	TRANSISTOR		
R924	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J		Q802	2SB709A/QR/-X	TRANSISTOR		
R925	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		Q803	2SD601A/QR/-X	TRANSISTOR		
R926	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D		Q804	UN2111-X	TRANSISTOR		
R927	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D		D400	MA152WK-X	SI DIODE		
R951	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		D401	SML-310LT/MN/-X	LED		
R976	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		D402	SML-310LT/MN/-X	LED		
R977	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		D403	SML-310LT/MN/-X	LED		
R978	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J		D404	SML-310LT/MN/-X	LED		
R979	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J		D405	SML-A12BC2T-X	BLUELED		
R980	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		D406	SML-A12BC2T-X	BLUELED		
R983	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J		D407	SML-310LT/MN/-X	LED		
RA701	NRZ0065-222X	MG RESISTOR	2.2kΩ		D408	SML-310LT/MN/-X	LED		
VR921	NVP1505-473X	TRIM RESISTOR	47kΩ		D409	SML-310LT/MN/-X	LED		
L1	QQL244J-4R7Z	INDUCTOR	4.7uH J		D410	SML-310LT/MN/-X	LED		
L701	QQL244J-470Z	COIL	47uH J		D411	SML-310LT/MN/-X	LED		
L702	QQL244J-470Z	COIL	47uH J		D412	SML-310LT/MN/-X	LED		
L703	QQL244J-470Z	COIL	47uH J		D413	SML-310LT/MN/-X	LED		
L921	QQL244J-4R7Z	INDUCTOR	4.7uH J		D414	SML-310LT/MN/-X	LED		
L922	NQLZ007-151X	COIL	150uH		D415	SML-310LT/MN/-X	LED		
L961	QQR1378-002	CHOKO COIL			D416	SML-310LT/MN/-X	LED		
BZ841	QAN0023-001Z	BUZZER			D417	SML-310LT/MN/-X	LED		
CN141	QGA2006C1-04	CONNECTOR	W-B (1-4)	AR30 00	D418	SML-310LT/MN/-X	LED		
CN251	QGA2501C1-03	CONNECTOR	W-B (1-3)		D419	SML-310LT/MN/-X	LED		
CN701	QGF1041C1-16W	CONNECTOR	FFC/FPC (1-16)		D420	SML-310LT/MN/-X	LED		
CN702	QGB2027M4-22S	CONNECTOR	B-B (1-22)		D421	CL-190UB2-X-X	LED		
CN901	QNZ0611-001	16P CONNECTOR			D422	CL-190UB2-X-X	LED		
CN951	QGA2501F1-02	CONNECTOR	W-B (1-2)		D423	MA8062/M/-X	Z DIODE		
CN952	QJB005-040909	SIN ID C-B WIRE			D424	MA8062/M/-X	Z DIODE		
J1	QAM0556-001	ANT CABLE			D425	MA8062/M/-X	Z DIODE		
J321	QNN0490-001	PIN JACK			D429	MA8062/M/-X	Z DIODE		
J801	QNZ0095-001	CONNECTOR			D430	MA8062/M/-X	Z DIODE		
PP1	QZW0010-001	STYLE PIN			D431	MA8062/M/-X	Z DIODE		
PP2	QZW0010-001	STYLE PIN			D451	NSCM315C-W	LED		
PP3	QZW0010-001	STYLE PIN			D453	NSCM315C-W	LED		
TU1	QAU0204-002	TUNER			D801	MA152WK-X	SI DIODE		
X701	QAX0617-001Z	CRYSTAL	12.500MHz		D802	MA111-X	SI DIODE		
X702	QAX0401-001	CRYSTAL	32.768KHz		D803	MA111-X	SI DIODE		
					D804	MA8062/M/-X	Z DIODE		
					D805	MA8062/M/-X	Z DIODE		
					D806	MA8062/M/-X	Z DIODE		
					D807	MA8062/M/-X	Z DIODE		
					D808	MA8062/M/-X	Z DIODE		
					D809	MA8062/M/-X	Z DIODE		
					D810	MA8062/M/-X	Z DIODE		
					D811	MA8062/M/-X	Z DIODE		
					D812	MA8062/M/-X	Z DIODE		

## Front board

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

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC801	MN102H60KCN1	IC			C451	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
IC802	LH28F160BJHET95	IC I/M			C452	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
IC803	IC-PST3424U-X	IC			C453	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
IC804	NJU7241F33-X	IC			C457	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
IC805	GP1UM261XK	IR DETECT UNIT	38kHz		C458	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
					C459	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
					C636	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
					C637	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q400	UN2211-X	TRANSISTOR			C801	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
Q401	UN2211-X	TRANSISTOR			C802	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q402	UN2211-X	TRANSISTOR			C804	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
Q403	UN2211-X	TRANSISTOR			C805	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
Q404	UN2211-X	TRANSISTOR			C806	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q405	UN2211-X	TRANSISTOR			C807	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
Q406	UN2211-X	TRANSISTOR			C808	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
Q407	2SD601A/QR/-X	TRANSISTOR			C809	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
Q408	2SD601A/QR/-X	TRANSISTOR			C810	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C811	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R607	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C812	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R608	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C813	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R609	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C814	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		R610	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
C815	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		R611	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
C816	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		R612	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C817	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R613	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C818	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R614	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C819	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R616	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
C820	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R801	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C821	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R803	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C822	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R804	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C823	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R806	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C824	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R807	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C825	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R816	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C826	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R817	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C827	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R818	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C828	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R819	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C829	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R821	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C831	NBE21VM-104X	TA E CAPACITOR	0.1uF 35V M		R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C834	NBE21CM-105X	TA E CAPACITOR	1uF 16V M		R823	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C835	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R824	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R825	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R401	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R826	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R402	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R827	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R403	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R828	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R404	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R829	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R405	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R830	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R406	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R835	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R407	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R836	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R408	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R837	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R409	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R838	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R410	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R839	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R411	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R840	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R412	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R841	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R413	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R842	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R414	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R843	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R415	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R844	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R416	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R845	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R417	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R846	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R418	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R847	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R419	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R865	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R420	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R866	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R421	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R867	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R422	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R868	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R423	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R869	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R424	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R870	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R425	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R872	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R426	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R873	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R427	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R874	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R428	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R877	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R429	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R878	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R430	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		R891	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R431	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R892	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R432	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R895	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R433	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R896	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R434	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		R897	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R435	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		R898	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R436	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		R899	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R437	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA801	NRZ0065-331X	NET RESISTOR	330Ω	
R438	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA802	NRZ0065-331X	NET RESISTOR	330Ω	
R439	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA803	NRZ0065-331X	NET RESISTOR	330Ω	
R449	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA804	NRZ0065-331X	NET RESISTOR	330Ω	
R450	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA805	NRZ0065-102X	MG RESISTOR	1kΩ	
R451	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA806	NRZ0065-102X	MG RESISTOR	1kΩ	
R452	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		RA807	NRZ0065-331X	NET RESISTOR	330Ω	
R453	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		RA808	NRZ0065-331X	NET RESISTOR	330Ω	
R454	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		RA809	NRZ0065-331X	NET RESISTOR	330Ω	
R455	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		RA810	NRZ0065-103X	MG RESISTOR	10kΩ	
R456	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J						
R457	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		L801	NQL114K-470X	INDUCITOR	47uH K	
R479	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R601	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J		CN801	NNZ0098-001X	CAR CONNECTOR		
R602	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		CN802	QGF0523F1-40W	CONNECTOR	FFC/FPC (1-40)	
R603	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		JS801	QSW0976-001	ROTARY ENCODER		
R604	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		S600	NSW0124-001X	TACT SW		
R605	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J		S601	NSW0124-001X	TACT SW		
R606	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		S602	NSW0124-001X	TACT SW		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
S603	NSW0124-001X	TACT SW			C581	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
S604	NSW0124-001X	TACT SW			C582	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
S605	NSW0124-001X	TACT SW			C583	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
S606	NSW0124-001X	TACT SW			C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
S607	NSW0124-001X	TACT SW			C585	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
S608	NSW0124-001X	TACT SW			C586	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
S609	NSW0124-001X	TACT SW			C587	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
S610	NSW0124-001X	TACT SW			C588	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
S611	NSW0124-001X	TACT SW			C589	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
S612	NSW0124-001X	TACT SW			C590	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
S613	NSW0124-001X	TACT SW			C591	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
S614	NSW0124-001X	TACT SW			C592	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
S615	NSW0124-001X	TACT SW			C593	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
S616	NSW0124-001X	TACT SW			C594	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
S617	NSW0124-001X	TACT SW			C595	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
S618	NSW0124-001X	TACT SW			C596	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
TH801	NAD0028-103X	N THERMISTOR	10kΩ		C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
X801	NAX0652-001X	RESONATOR			C598	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	

## CD mecha control board

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

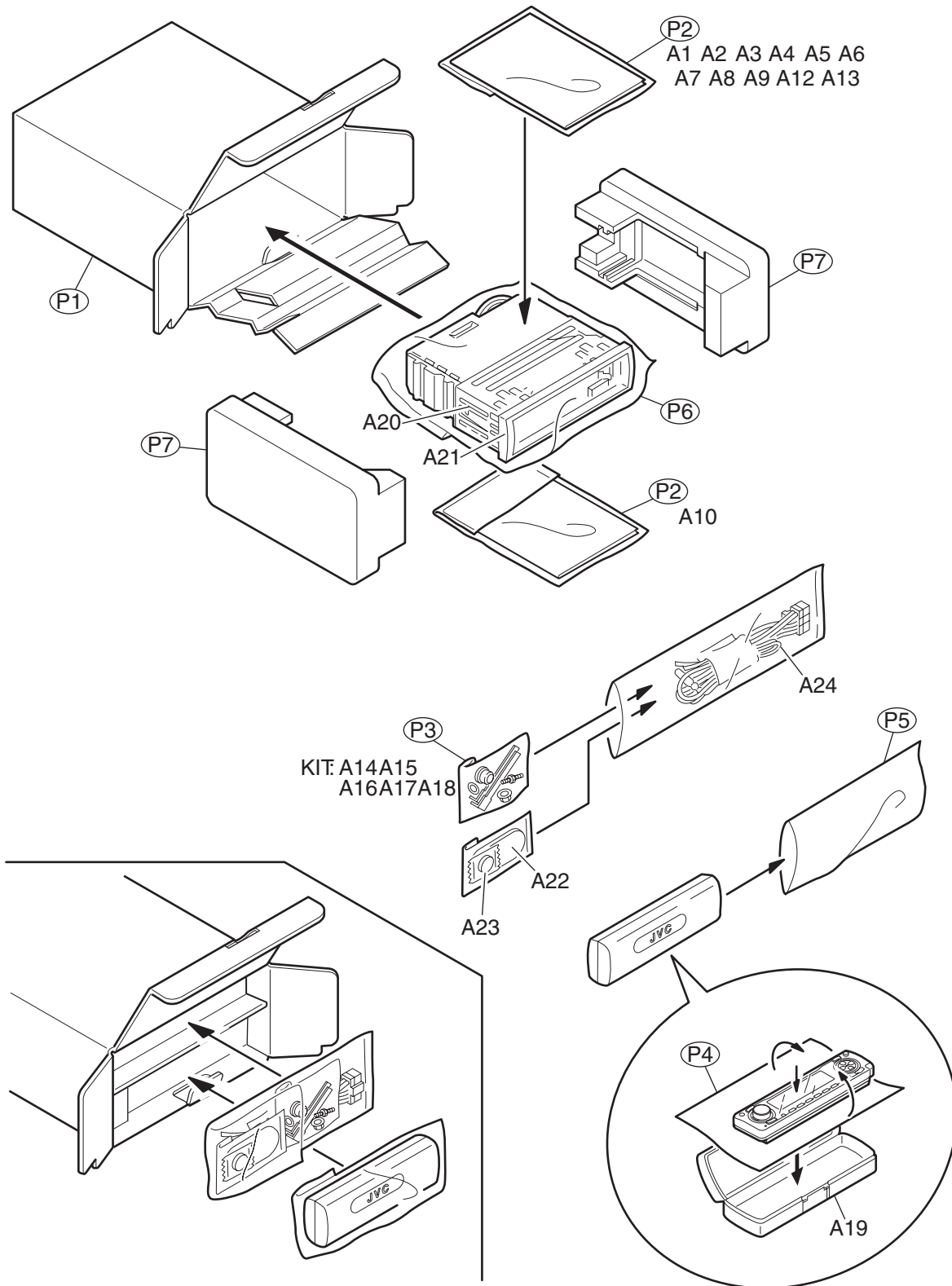
△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC501	TMP91CW12AF5DG8	IC			C601	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
IC502	BR24L01AFV-W-X	IC			C602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC503	SN74AHCT126PW-X	IC(DIGITAL)			C603	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M	
IC504	NJU7241F33-X	IC			C604	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC571	PCM1748KE-X	IC			C605	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
IC572	NJM4565V-X	IC			C606	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
IC573	SN74AHCU04PW-X	IC			C607	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC601	TA2157FN-X	RF AMP IC			C608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC621	TC94A14FA	CD LSI IC			C609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC651	NJU7772F15-X	IC			C610	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
IC652	TC94A34FG-002	IC			C611	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
IC681	BA5830FP-X	IC			C612	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q501	UN2111-X	TRANSISTOR			C613	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q502	UN2211-X	TRANSISTOR			C614	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q571	UN2111-X	TRANSISTOR			C616	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
Q572	UN2211-X	TRANSISTOR			C621	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q573	2SB624/4-X	TRANSISTOR			C622	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
Q574	UN2211-X	TRANSISTOR			C623	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
Q601	2SB1132/QR/-W	TRANSISTOR			C624	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
Q651	2SB624/4-X	TRANSISTOR			C625	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q652	UN2211-X	TRANSISTOR			C626	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
Q681	2SB1184/QR/-X	TRANSISTOR			C627	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D506	MA111-X	SI DIODE			C628	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
D682	1SR154-400-X	DIODE			C629	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C630	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C631	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C503	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M		C632	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C504	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C633	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C505	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C634	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C635	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C636	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C637	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C638	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C639	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C640	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C512	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M		C641	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C642	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C514	NCS31HJ-102X	C CAPACITOR	1000pF 50V J		C643	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C551	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C644	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C571	NDC31HJ-270X	C CAPACITOR	27pF 50V J		C645	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C572	NDC31HJ-270X	C CAPACITOR	27pF 50V J		C646	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C573	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C651	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C574	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		C652	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C575	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		C653	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C576	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C577	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C655	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C578	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		C656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C659	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C660	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
					C661	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C662	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
					C663	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
					C664	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
					C665	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
					C666	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
					C667	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C668	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
					C669	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C682	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
					C683	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C684	NEAD1CM-476X	E CAPACITOR	47uF 16V M		R584	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C689	NEAD1CM-476X	E CAPACITOR	47uF 16V M		R585	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C690	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R586	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C693	NEAD1CM-476X	E CAPACITOR	47uF 16V M		R587	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R588	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R589	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R590	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R593	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R601	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R508	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R602	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R603	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R510	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R604	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R605	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R606	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R607	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R514	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R608	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R515	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R609	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R517	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R518	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R612	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R519	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R614	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R615	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R522	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R616	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R621	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R525	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R622	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R526	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R623	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R528	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R624	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R530	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R625	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R531	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R626	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R627	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R533	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R628	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R534	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R535	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R633	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R540	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R541	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R635	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R543	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R637	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R544	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R638	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R639	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R546	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		R640	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R547	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		R642	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R548	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R651	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R549	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R654	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R550	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R551	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R656	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R552	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R657	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R553	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R668	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R554	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R675	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R555	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R681	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R556	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R682	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R557	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R683	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R684	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R559	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R685	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R686	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R687	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R562	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		R688	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R563	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R689	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R568	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R690	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R691	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R570	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L501	NQL114K-470X	INDUCITOR	47uH K	
R572	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J		L502	NQL114K-470X	INDUCITOR	47uH K	
R573	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L571	NQL114K-470X	INDUCITOR	47uH K	
R574	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		L572	NQL114K-470X	INDUCITOR	47uH K	
R575	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L621	NQL114K-470X	INDUCITOR	47uH K	
R576	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L622	NQL114K-470X	INDUCITOR	47uH K	
R577	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L623	NQL114K-470X	INDUCITOR	47uH K	
R578	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L651	NQL114K-470X	INDUCITOR	47uH K	
R579	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L652	NQL114K-470X	INDUCITOR	47uH K	
R581	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		L653	NQL114K-470X	INDUCITOR	47uH K	
R582	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J						
R583	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local
CN501	QGB2027L1-22X	CONNECTOR	B-B (1-22)	
CN601	QGF0527F2-22W	CONNECTOR	FFC/FPC (1-22)	
TH501	NAD0028-103X	N THERMISTOR	10kΩ	
X501	NAX0385-001X	CRYSTAL	24.576MHz	
X571	NAX0375-001X	CRYSTAL	16.9344MHz	

# 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	GET0201-001B	INST BOOK	ENG SPA FRE	
A 2	GET0201-002A	INSTALL MANUAL		
A 3	GET0207-001A	IMPORTANT SHEET		AR30 00
A 3	GET0207-001A	IMPORTANT SHEET		LH300
A 4	GET0165-001A	DEMO MODE SHEET		
A 5	LVT0717-001B	TROUBLE SHEET(C		
A 6	LVT1120-001A	MP3 GUIDE		
A 7	BT-51029-1	WARRANTY CARD		AR30 00
A 7	BT-51018-3	WARRANTY CARD		LH300
A 8	BT-52006-2	WARRANTY CARD		
A 9	BT-51034-1	J=REGIST CARD		
A 10	LVT1121-001A	IMAGE CONVERTER		
A 12	LVT1122-001A	SIRIUS SHEET		
A 13	GET0213-001A	CAUTION SHEET		
A 14	VKZ4027-202	PLUG NUT		
A 15	VKH4871-001SS	MOUNT BOLT		
A 16	VKZ4328-001	LOCK NUT		
A 17	WNS5000Z	WASHER		
A 18	GE40130-002A	HOOK	(x2)	
A 19	FSJB3002-00C	HARD CASE		
A 20	GE20137-003A	MOUNTING SLEEVE		
A 21	GE20164-002A	TRIM PLATE		AR30 00
A 21	GE20164-001A	TRIM PLATE		LH300
A 22	RM-RK50	REMOCON UNIT		
A 23	-----	BATTERY		
△ A 24	QAM0456-001	16P CORD ASSY		AR30 00
△ A 24	QAM0306-001	16P CORD ASSY		LH300
KIT	SRW-200J	SCREW PARTS KIT	A14 A15 A16 A17 A18	
P 1	GE31164-002A	CARTON		AR30 00
P 1	GE31161-002A	CARTON		LH300
P 2	FSPG4002-001	POLY BAG	(x2)	
P 3	QPA00801205	POLY BAG	8cm x 12cm	
P 4	FSYH4036-068	SHEET		
P 5	QPA01003003	POLY BAG	10cm x 30cm	
P 6	QPC03004315P	POLY BAG	30cm x 43cm	
P 7	GE10086-001A	EPS CUSHION	(x2)	

# JVC

## SCHEMATIC DIAGRAMS

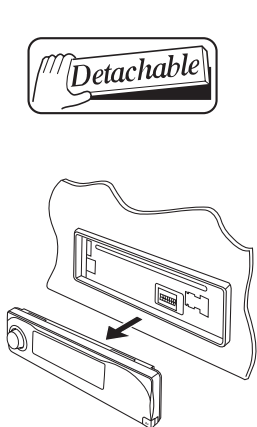
### CD RECEIVER

# KD-AR3000, KD-LH300

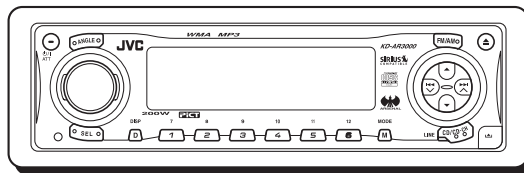
CD-ROM No.SML200401

Area suffix

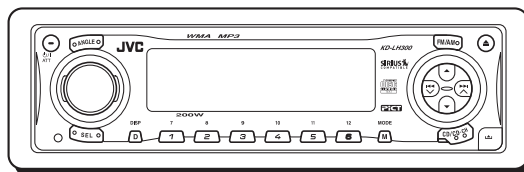
J ----- Northern America



**KD-AR3000**



**KD-LH300**



**WMA**

**MP3**

**PiCT**

**SIRIUS**  
COMPATIBLE


**COMPACT**  
**disc**  
DIGITAL AUDIO  
TEXT

	KD-AR3000	KD-LH300
Line input terminal	○	×
Amplifier gain control	○	×
Power antenna control	○	×

### Contents

Block diagram .....	2-1
Standard schematic diagrams .....	2-3
Printed circuit boards .....	2-9 to 12

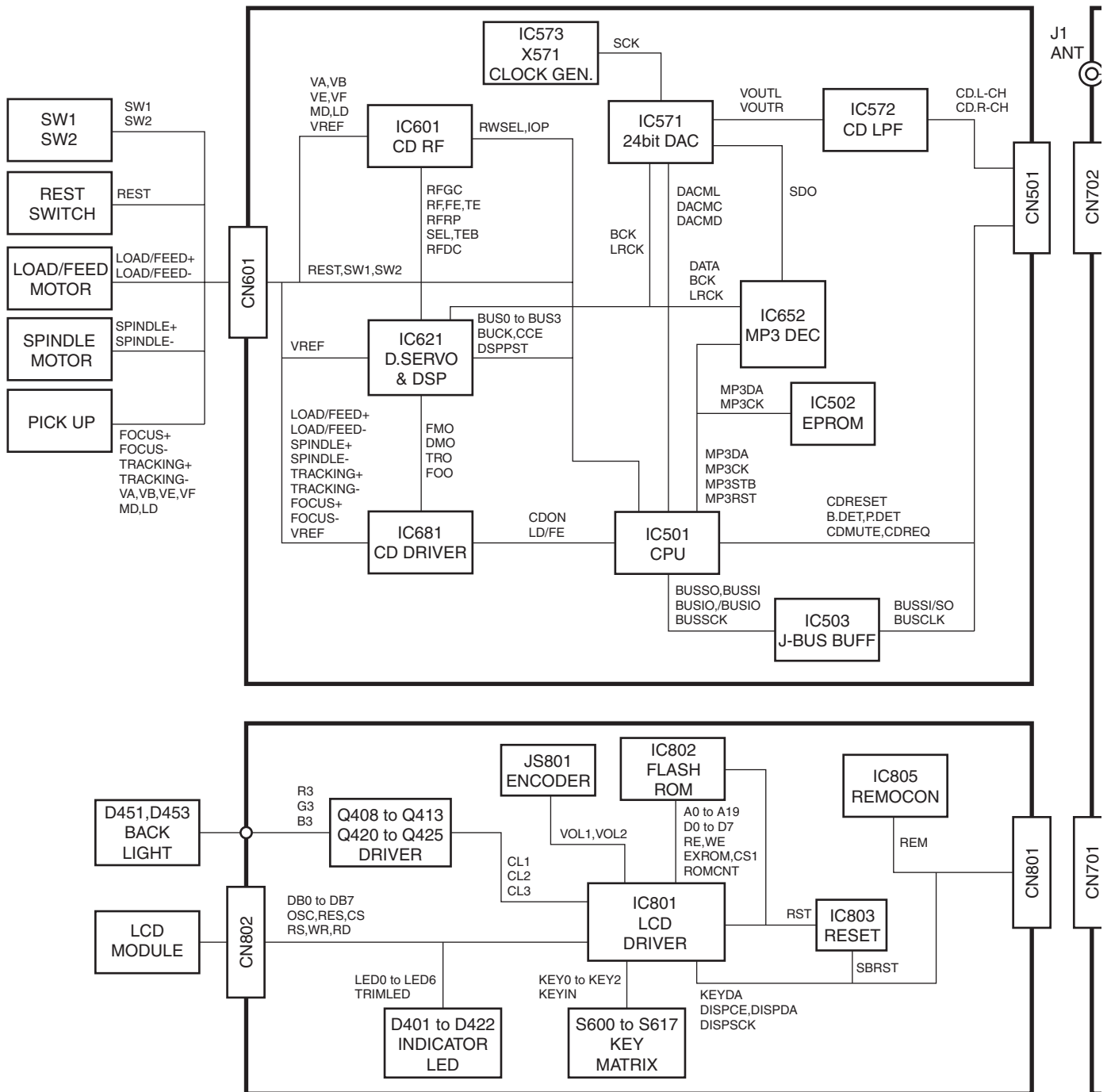
## Safety precaution

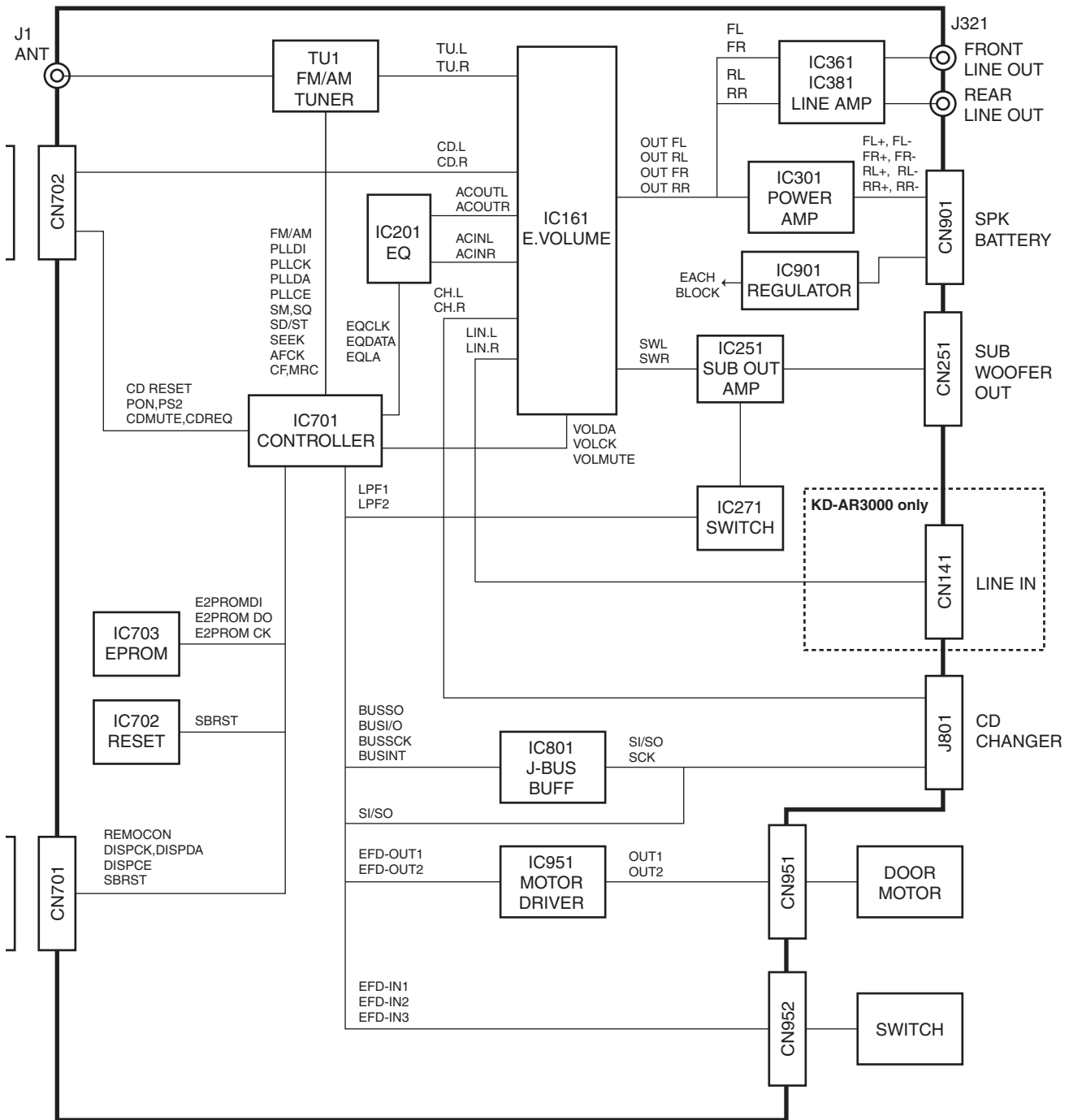
 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

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

< MEMO >

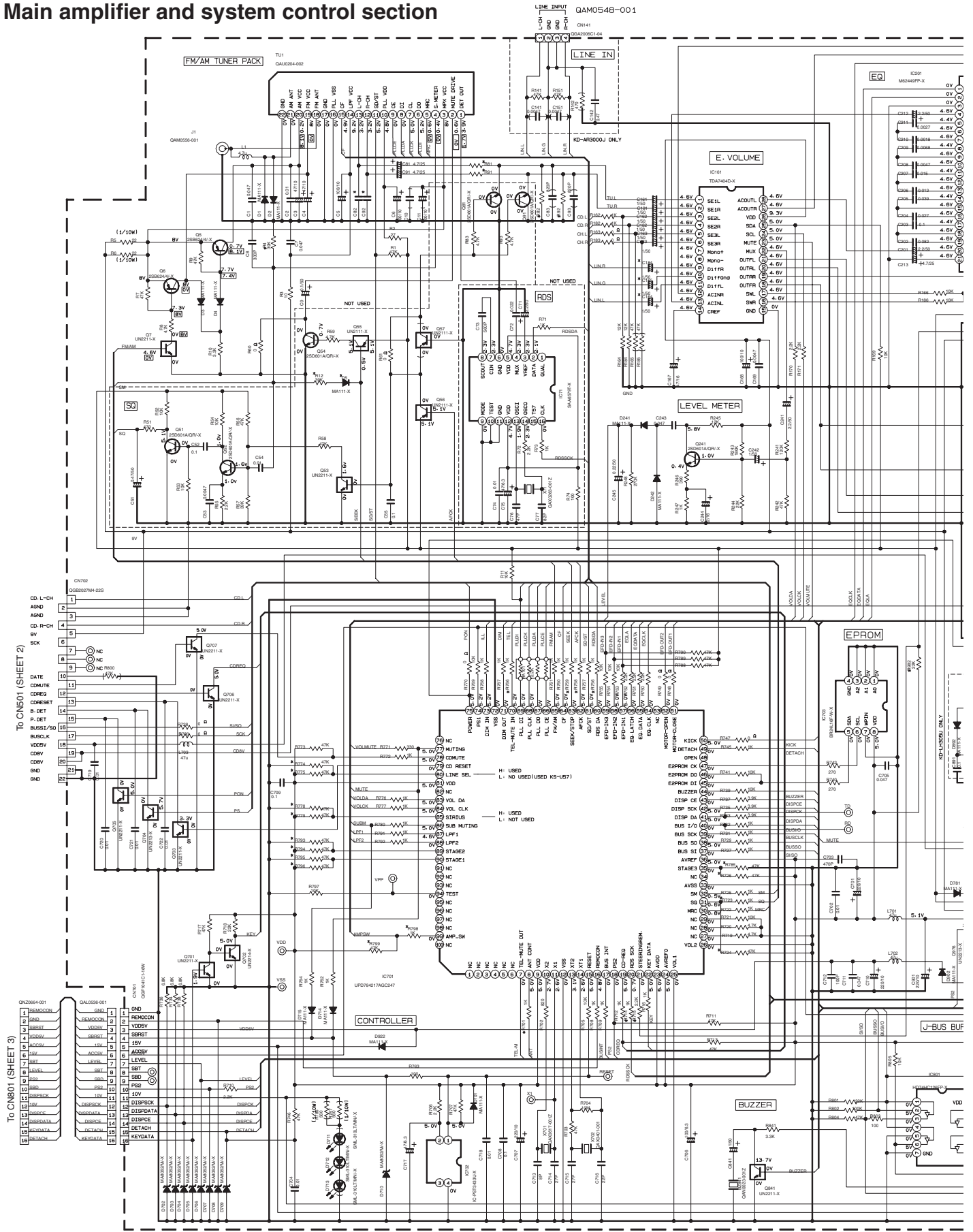
# Block diagram

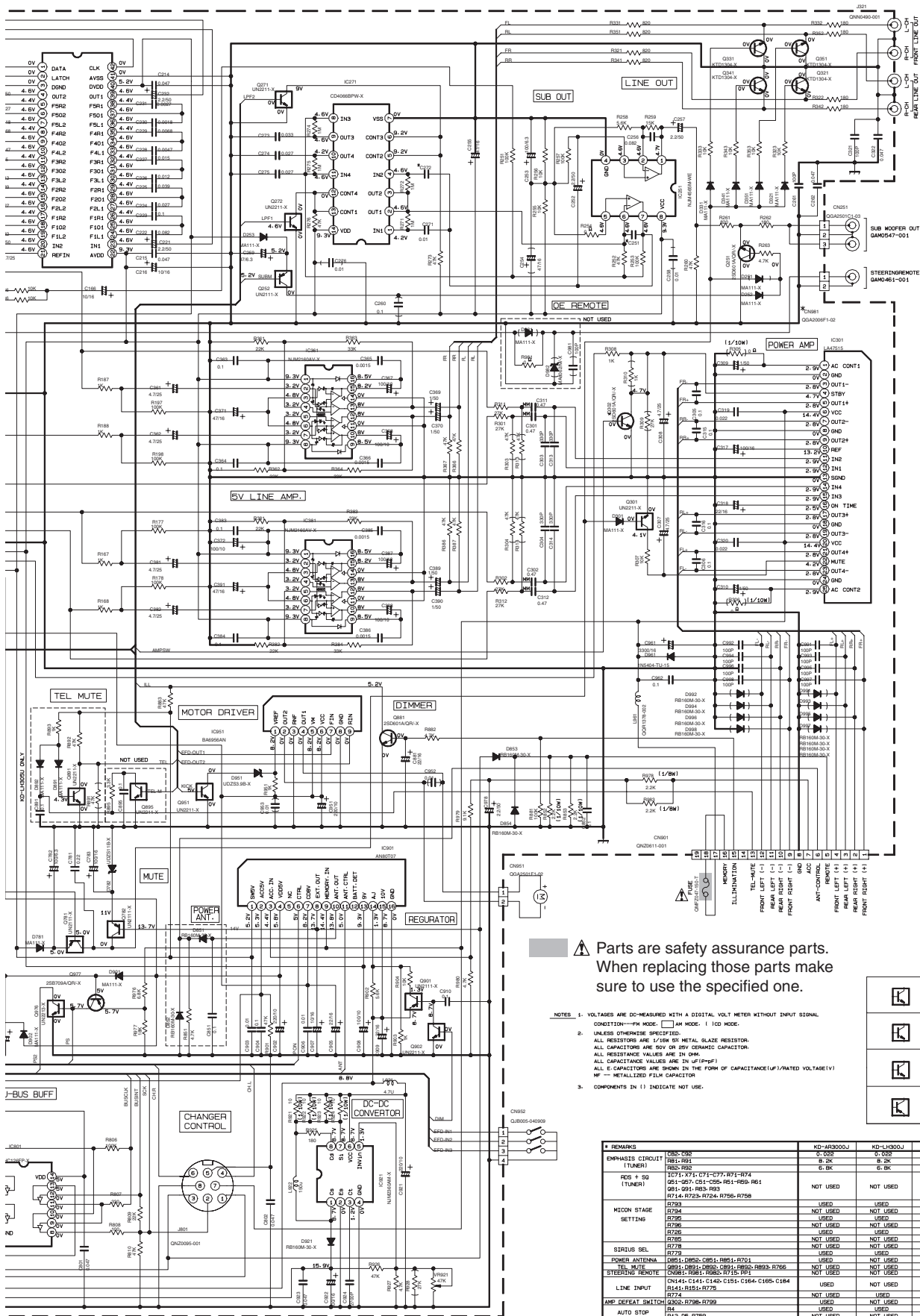




# Standard schematic diagrams

## ■ Main amplifier and system control section





MAIN PWB : 6EB10098A

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

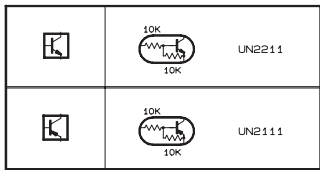
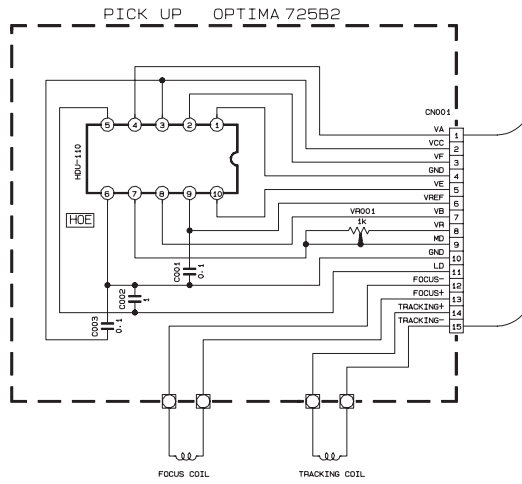
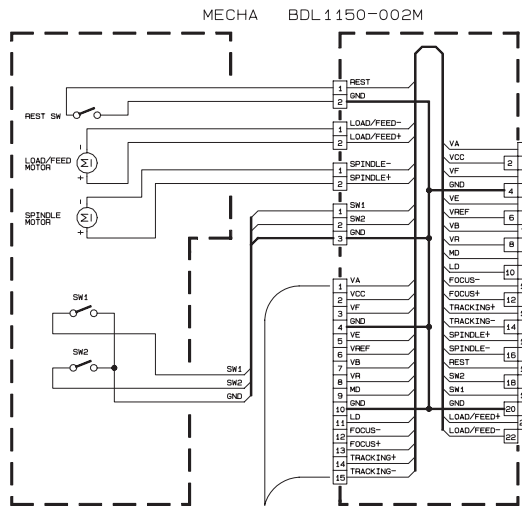
- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
CONDISTION—FR: KHZ; [ ]: AM MODE; [ ]: 100 MΩ.
  2. UNLESS OTHERWISE SPECIFIED:  
ALL RESISTORS ARE 1/16W 5% METAL GLAZE RESISTOR.  
ALL CAPACITORS ARE 50V 5% CERAMIC CAPACITOR.  
ALL RESISTANCE VALUES ARE IN ΩM.  
ALL CAPACITANCE VALUES ARE IN nF (pF).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)  
MF — METALLIZED FILM CAPACITOR
  3. COMPONENTS IN ( ) INDICATE NOT USED.

		UN2214
		UN2211
		UN2213
		UN2111

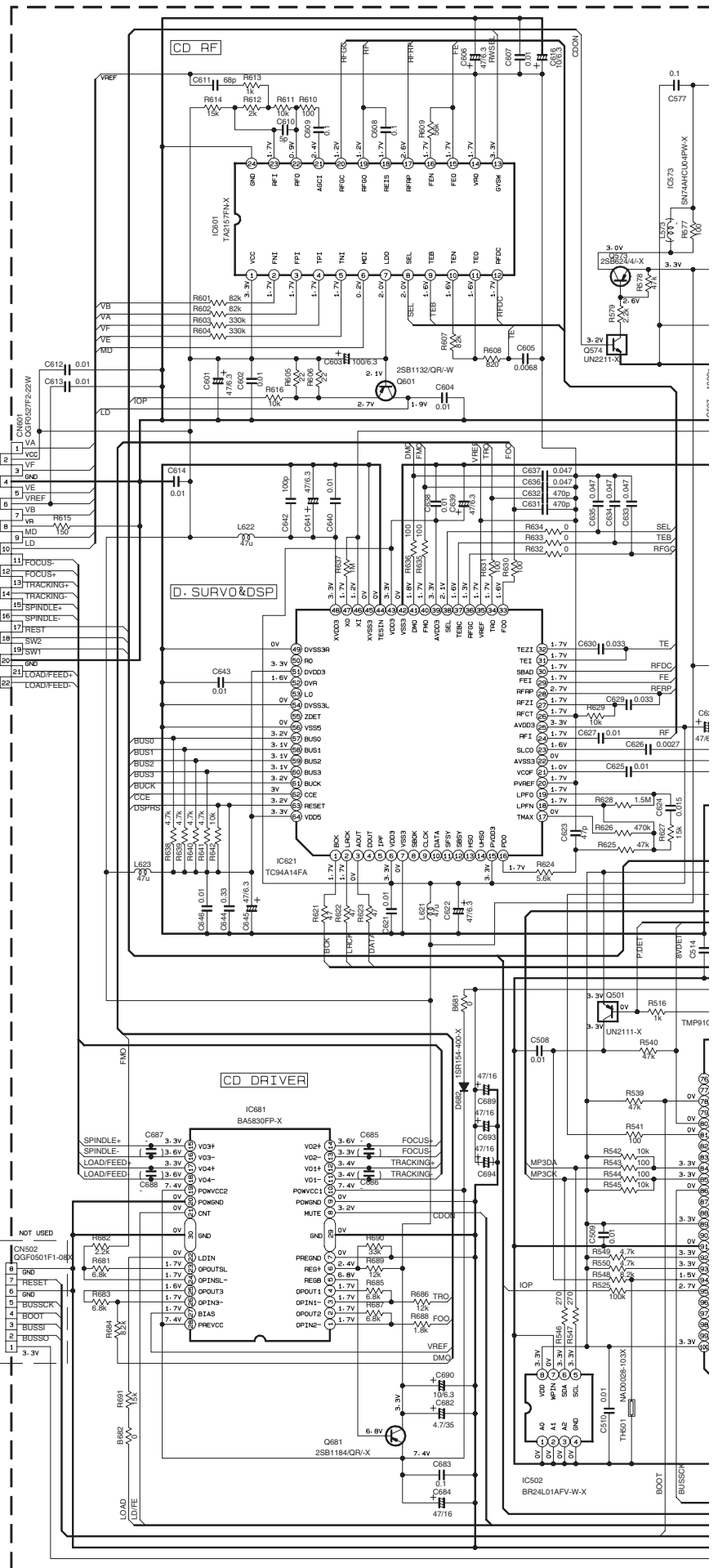
REMARKS	6EB10098A	KD-AR3000J	KD-LH300J	KD-LH305U
EMPHASIS CIRCUIT (TUNER)	Q58:R88 R81:R81 R82:R82	Q58:R88 R81:R81 R82:R82	Q58:R88 R81:R81 R82:R82	Q58:R88 R81:R81 R82:R82
POS + SQ (TUNER)	C171:V71; C71-C77; R71-R74 Q51-Q57; C51-C55; R51-R59; R61 Q511-Q51; R53; R53 R714; R723; R724; R756; R758	NOT USED	NOT USED	NOT USED
MICRON STAGE	R759 R734 R736	NOT USED	NOT USED	NOT USED
SETTING	R736 R736 R736	NOT USED	NOT USED	NOT USED
STATUS SEL	R779	NOT USED	NOT USED	NOT USED
POWER ANTENNA	Q581:Q582; C581; R581; R701	NOT USED	NOT USED	NOT USED
TEL MUTE	Q581:Q582; C581; R582; R583; R766	NOT USED	NOT USED	NOT USED
STEERING REMOTE	C581:R581; R581; R581	NOT USED	NOT USED	NOT USED
LINE INPUT	CN141; C141; C142; C151; C164; C165; C184 R241; R241; R775	NOT USED	NOT USED	NOT USED
AMP DEFEAT SWITCH	R42; R42; R799	NOT USED	NOT USED	NOT USED
AUTO STOP	R42; R42; R799	NOT USED	NOT USED	NOT USED
SUB WOOFER	C272 C272	Q-0068 Q-0068	Q-0068 Q-0068	Q-0068 Q-0068
POWER CHD	CN501	QAN0456-001	QAN0306-001	QAN0308-002

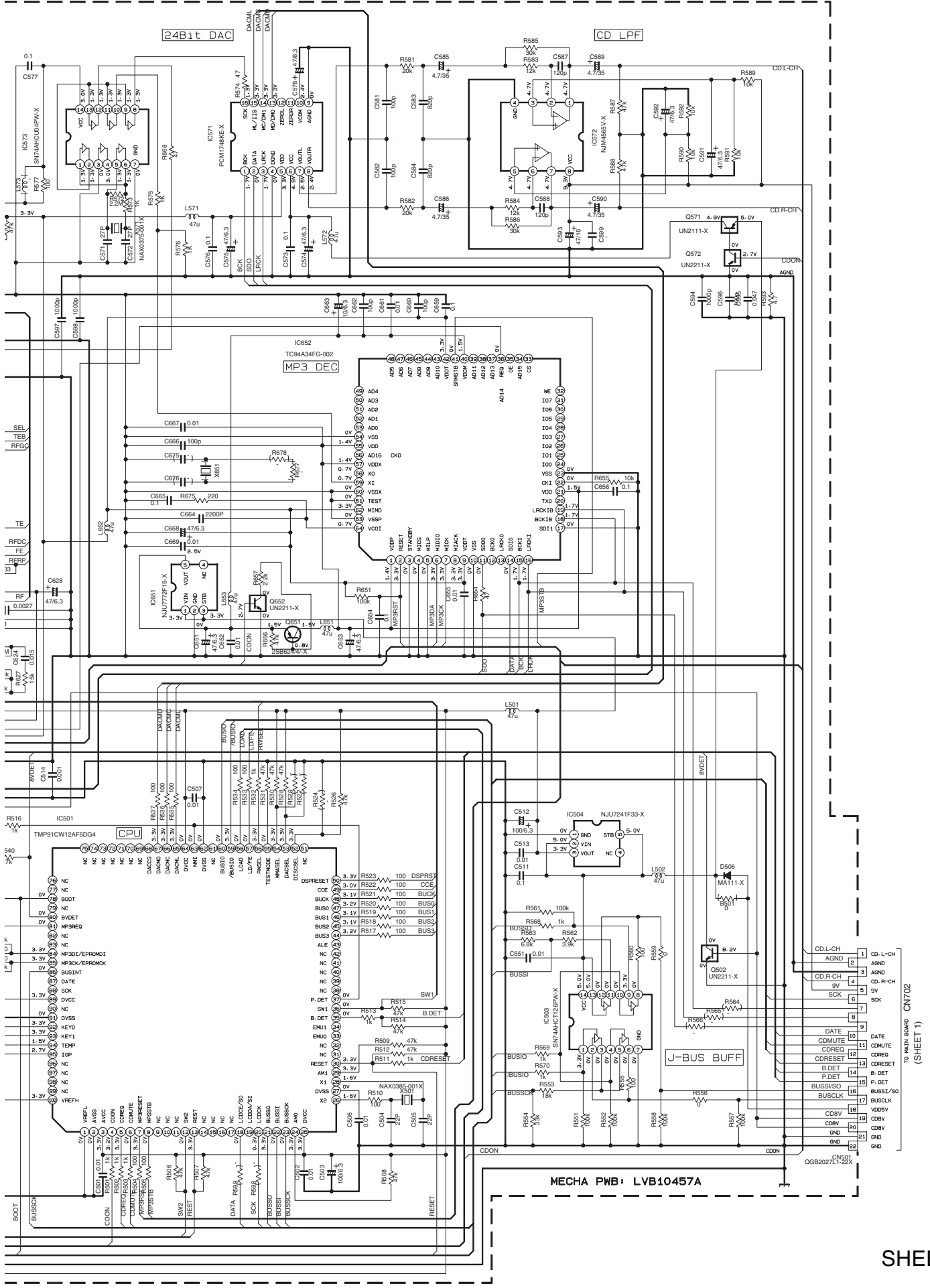


# CD servo control section

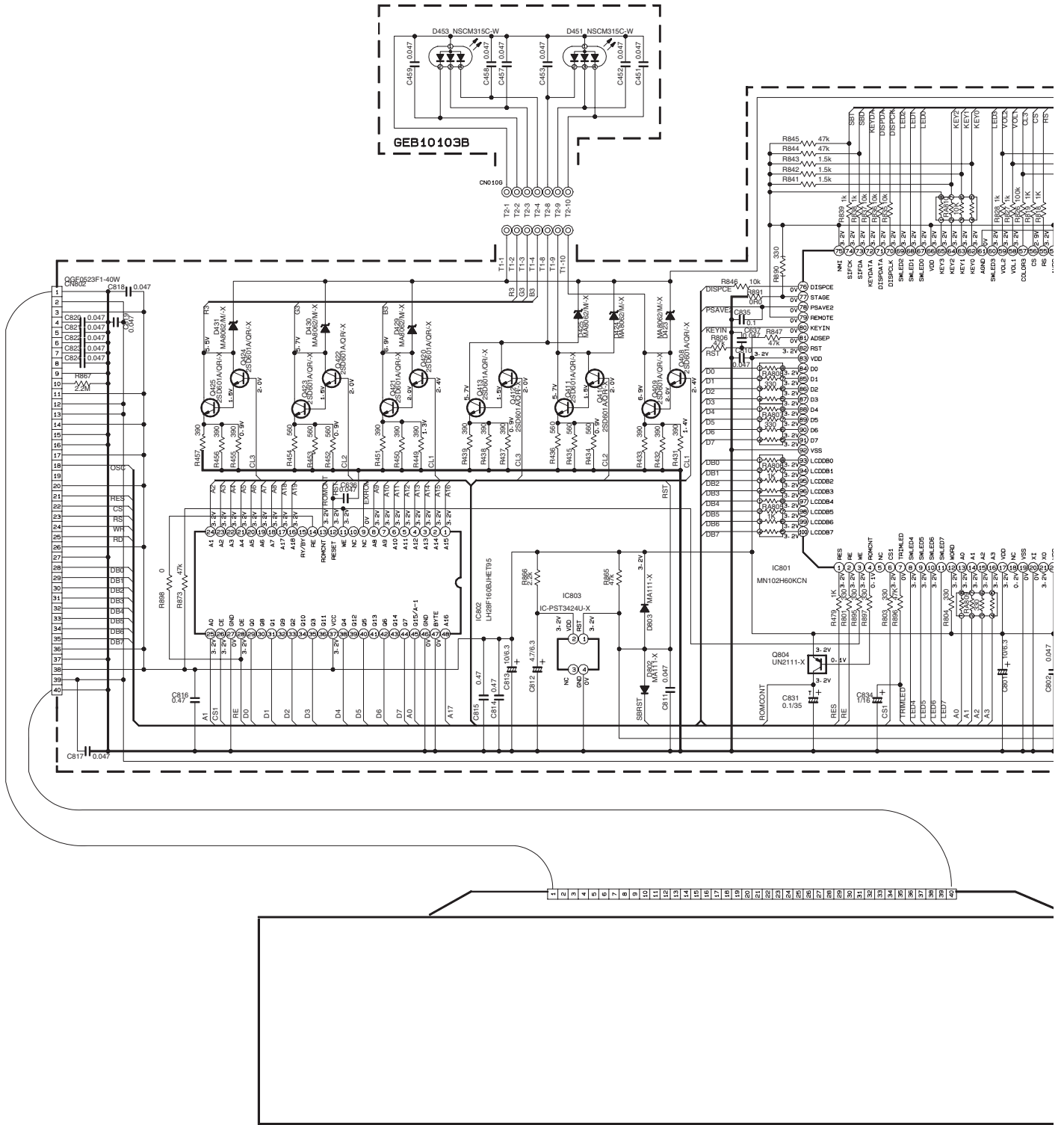


- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- CD MODE.
  - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/8W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(μF). ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
  - COMPONENTS IN ( ) INDICATE NOT USED.

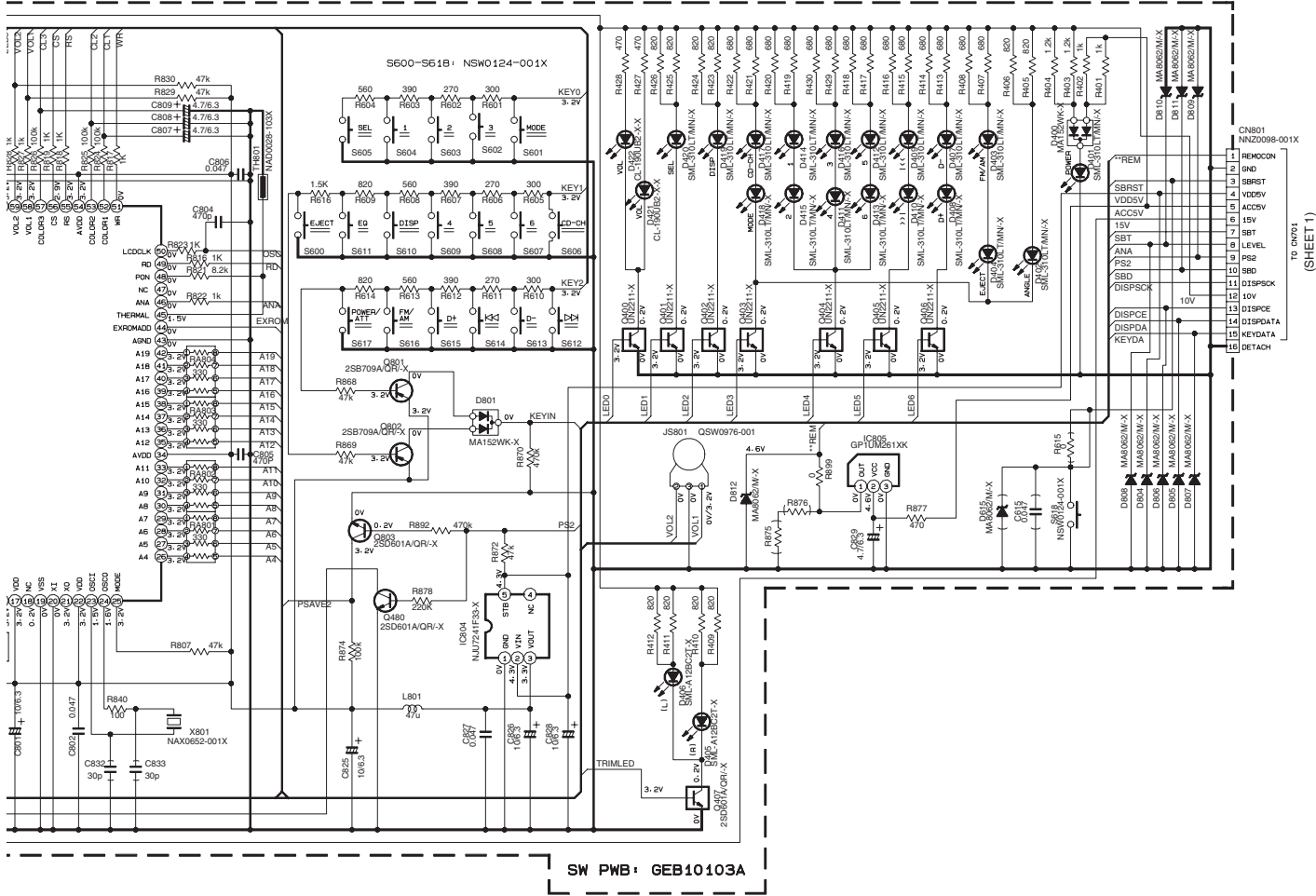




# ■ LCD and Key control section



LCD MODULE  
QLD0232-001



SW PWB: GEB10103A

**NOTES**

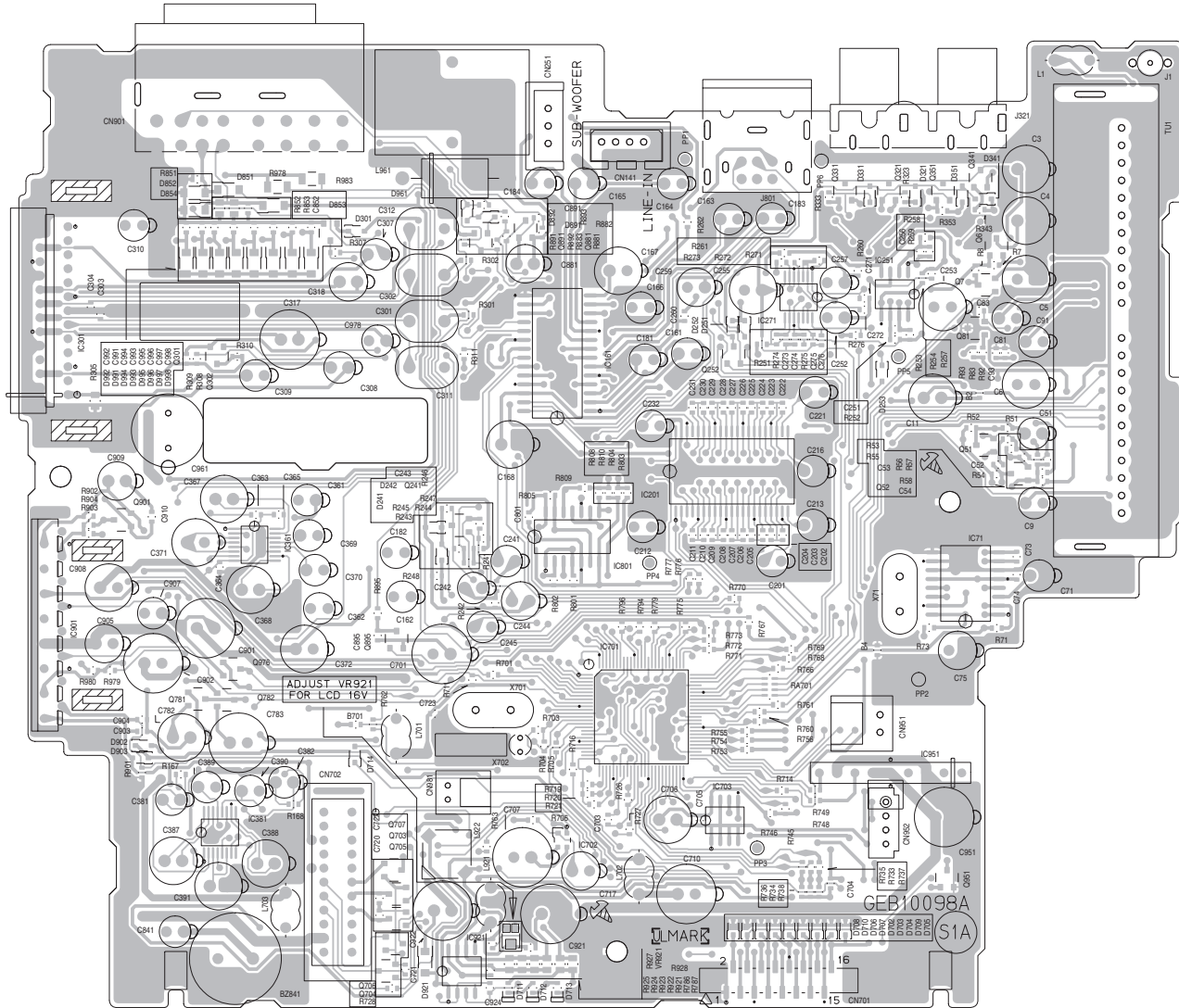
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
  - ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
  - ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
  - ALL RESISTANCE VALUES ARE IN OHM(Ω).
  - ALL CAPACITANCE VALUES ARE IN pF(pF).
  - ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(pF)/RATED VOLTAGE (V).

		UN2211
		UN2213
		UN2111

# Printed circuit boards

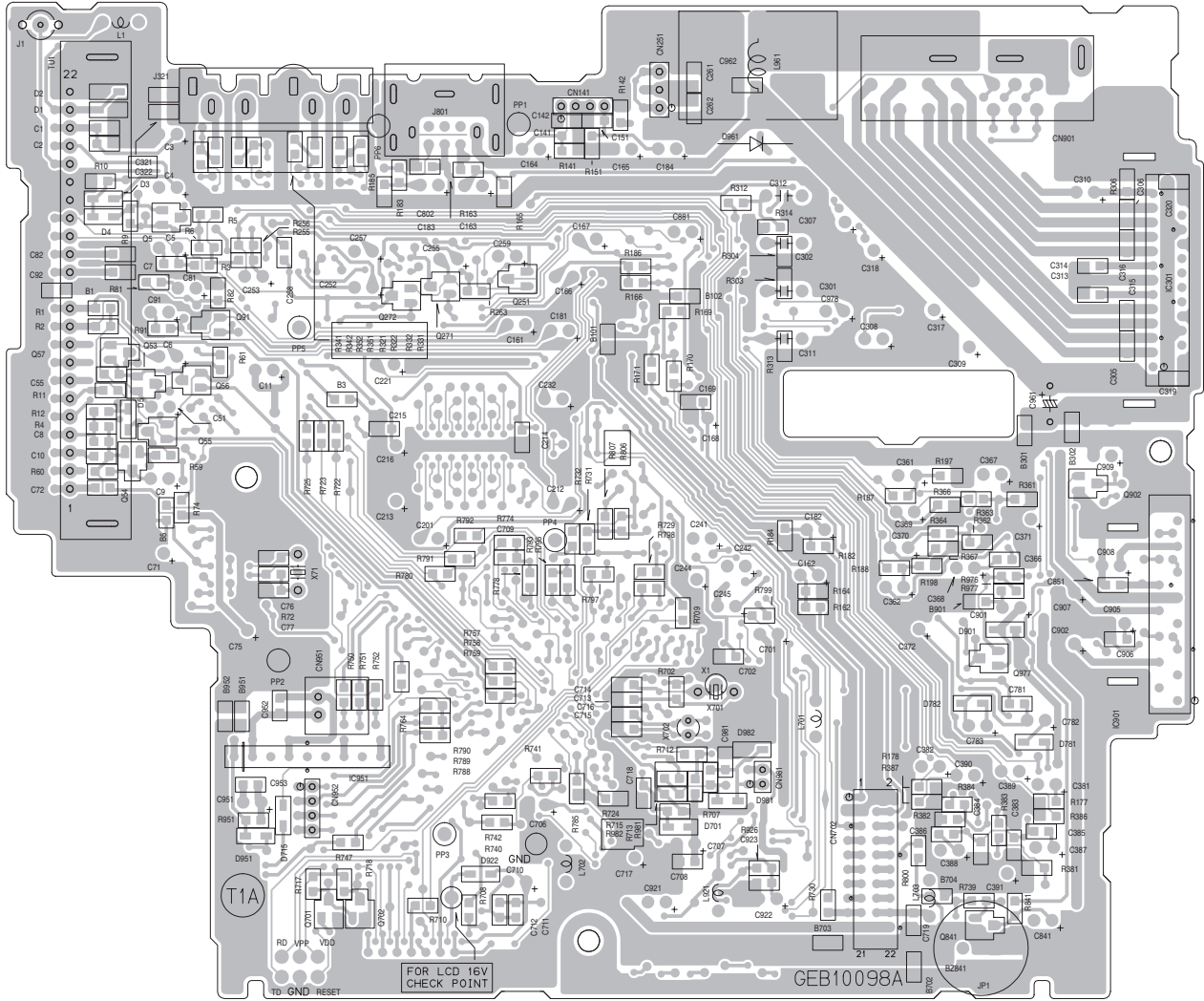
## ■ Main board

Forward side



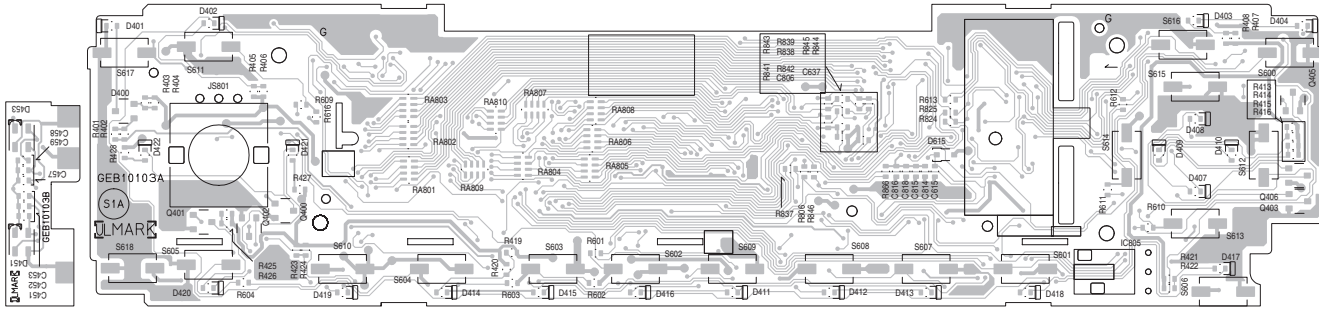
# ■ Main board

Reverse side



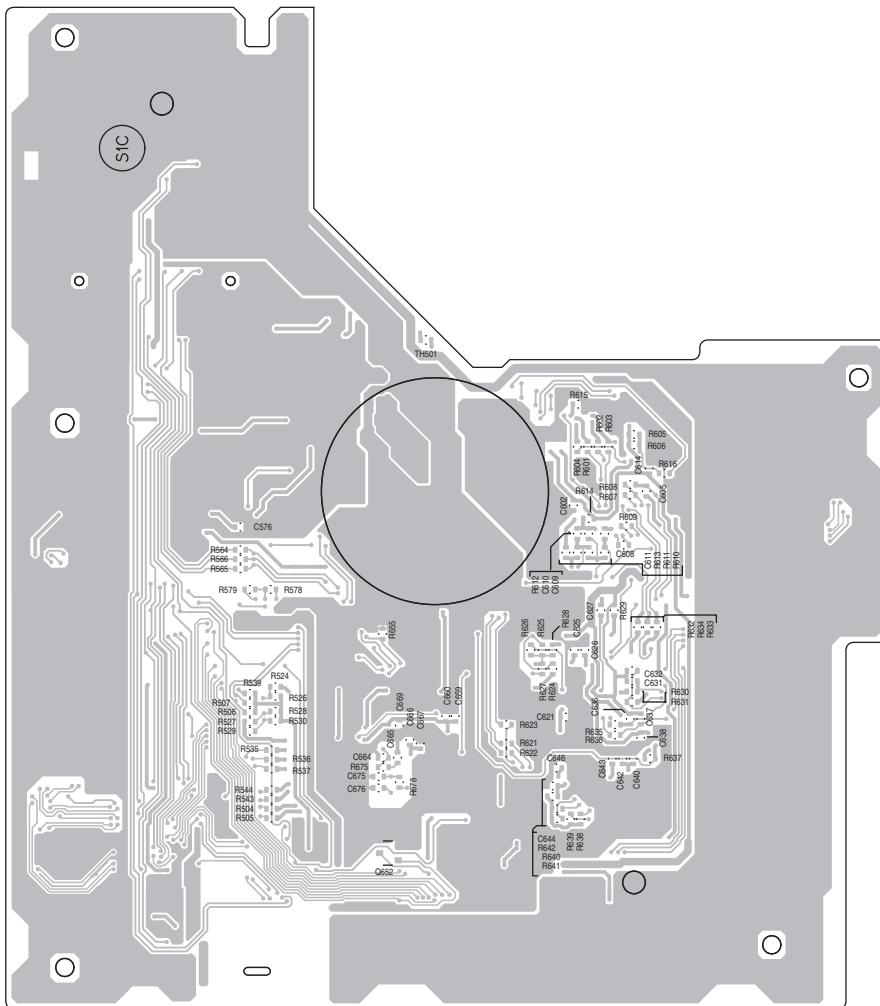
■ Front board

Forward side



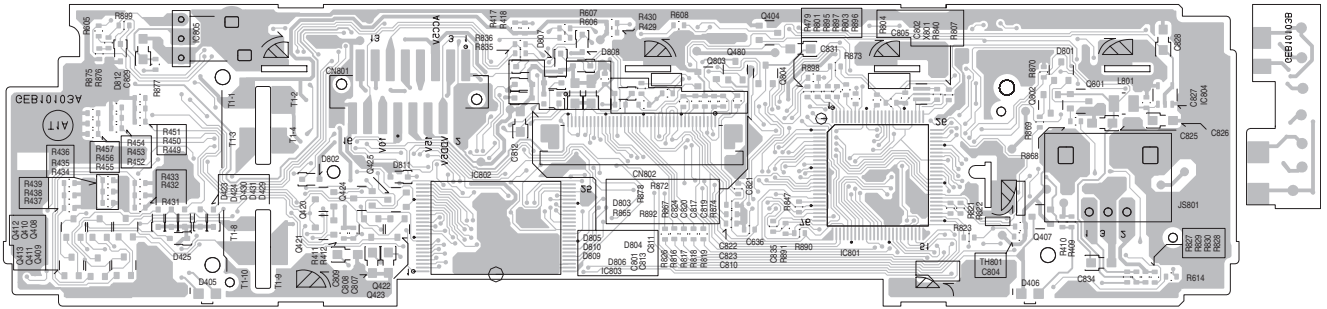
■ Mecha control board

Forward side



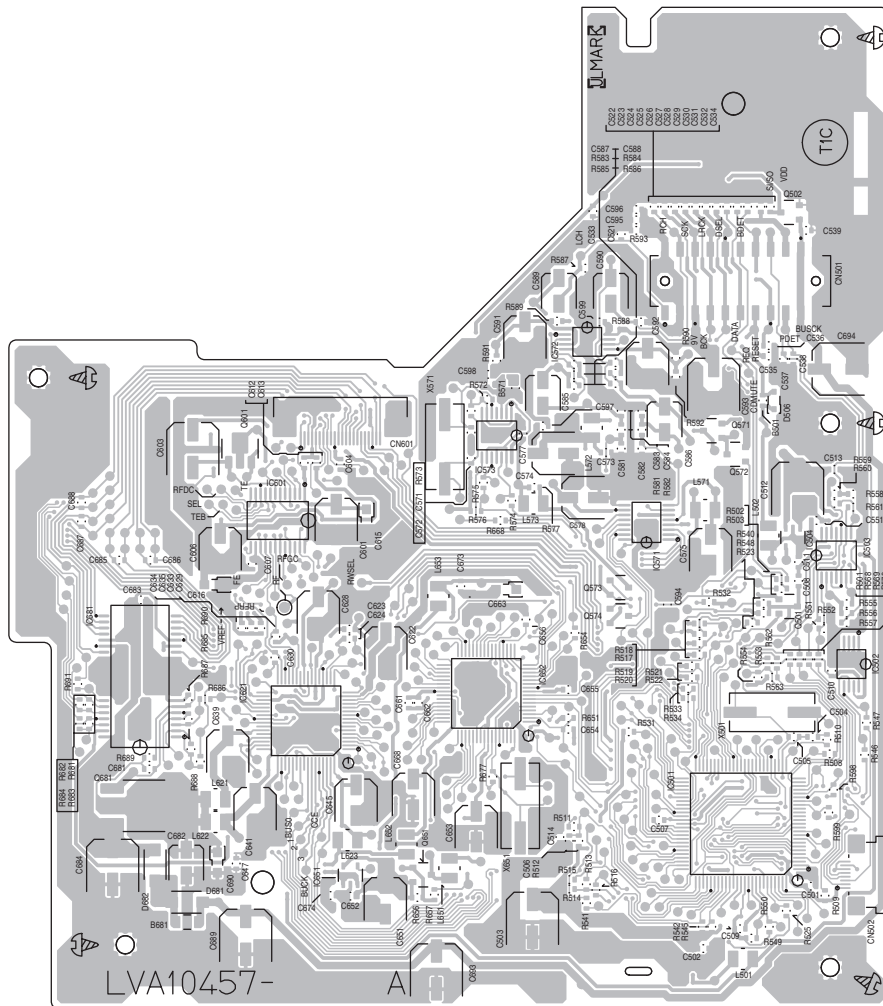
## ■ Front board

Reverse side



## ■ Mecha control board

Reverse side





**JVC**

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(No.MA042SCH)



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WPC