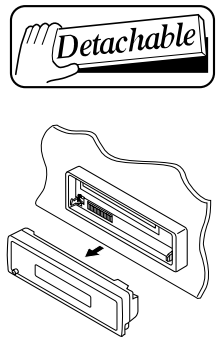
JVC

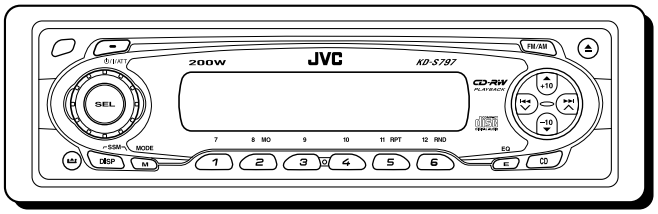
SCHEMATIC DIAGRAMS

CD RECEIVER

KD-S797

CD-ROM No.SML200305





Area Suffix	
UR	Blazil

COMPACT disc DIGITAL AUDIO

CD-RW PLAYBACK

Contents

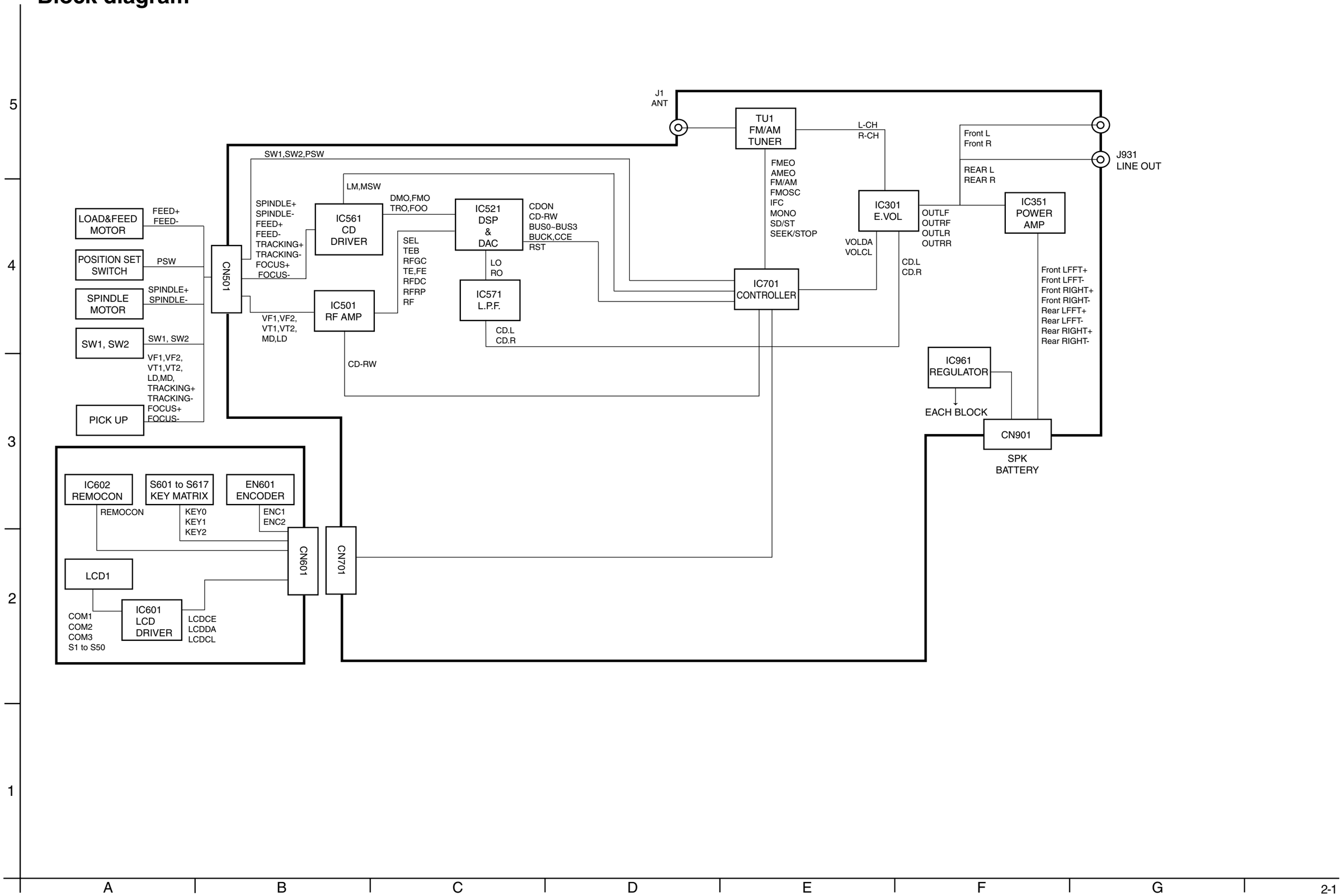
No.49861SCH
2003/05

Safety precaution

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

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

Block diagram



Standard schematic diagrams

■ Main amplifier section

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION----FM MODE. ▭ AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   MM --- Metalized polyethylene terephthalate film capacitor

FM/AM TUNER TU1 QAU0281-001

POWER AMP. IC351 LA47505

E. VOLUME IC301 TEA6320T-X

LPF

FM/AM SW.

MUTE

LEVEL METER

TELMUTE

LINE OUTPUT

REGULATOR IC961 HA13164A

CONTROLLER

IC701 UPD178078GF-607

BUZZER

JVC BUS IC771 HD74HC126FP-X

DIMMER

NOT USED

To CD servo control section

To LCD & Key control section CN601

CN701 QNZ0605-001

J771 QNZ0095-001 CHANGER CONTROL

S702 QSW0451-001

S703 QSW0451-001

S701 QSW0451-001

16PIN CORD ASSY: QAM0089-001

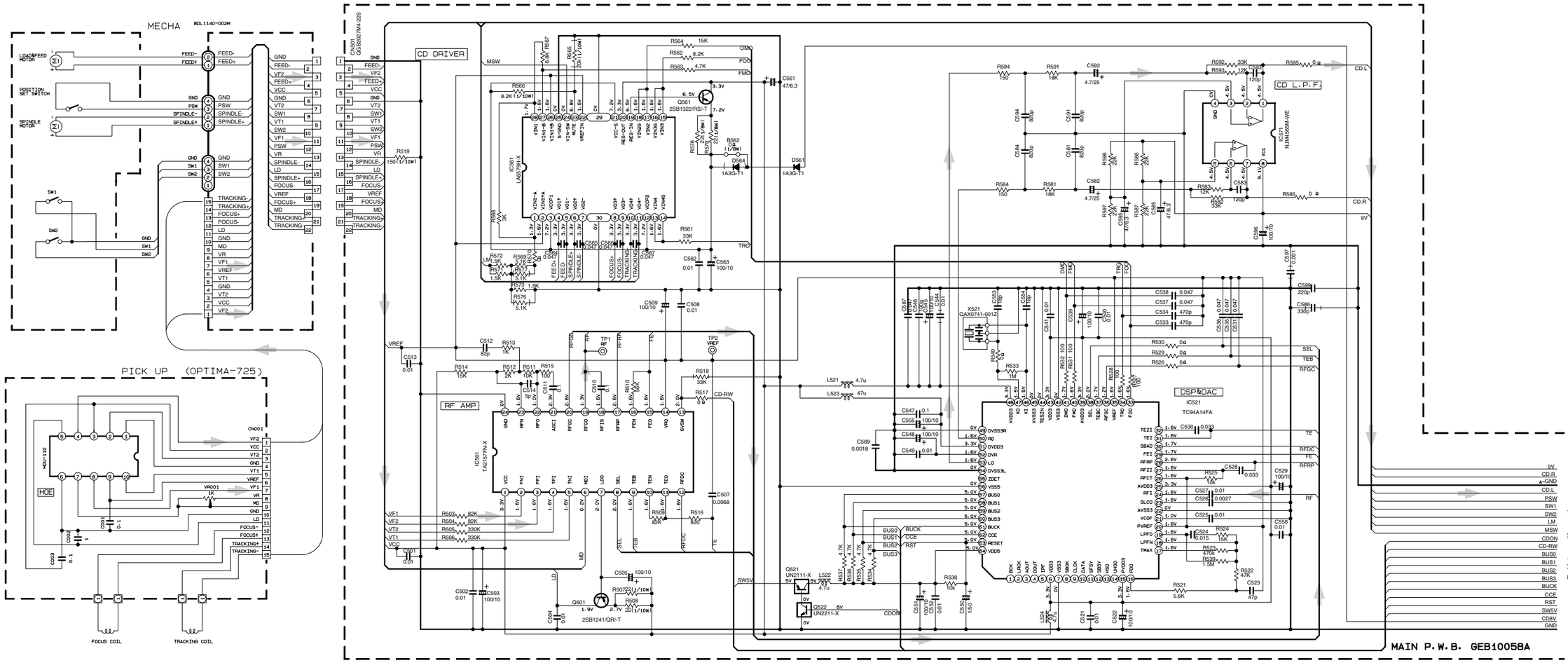
Tuner signal
CD signal
Front signal
Rear signal

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

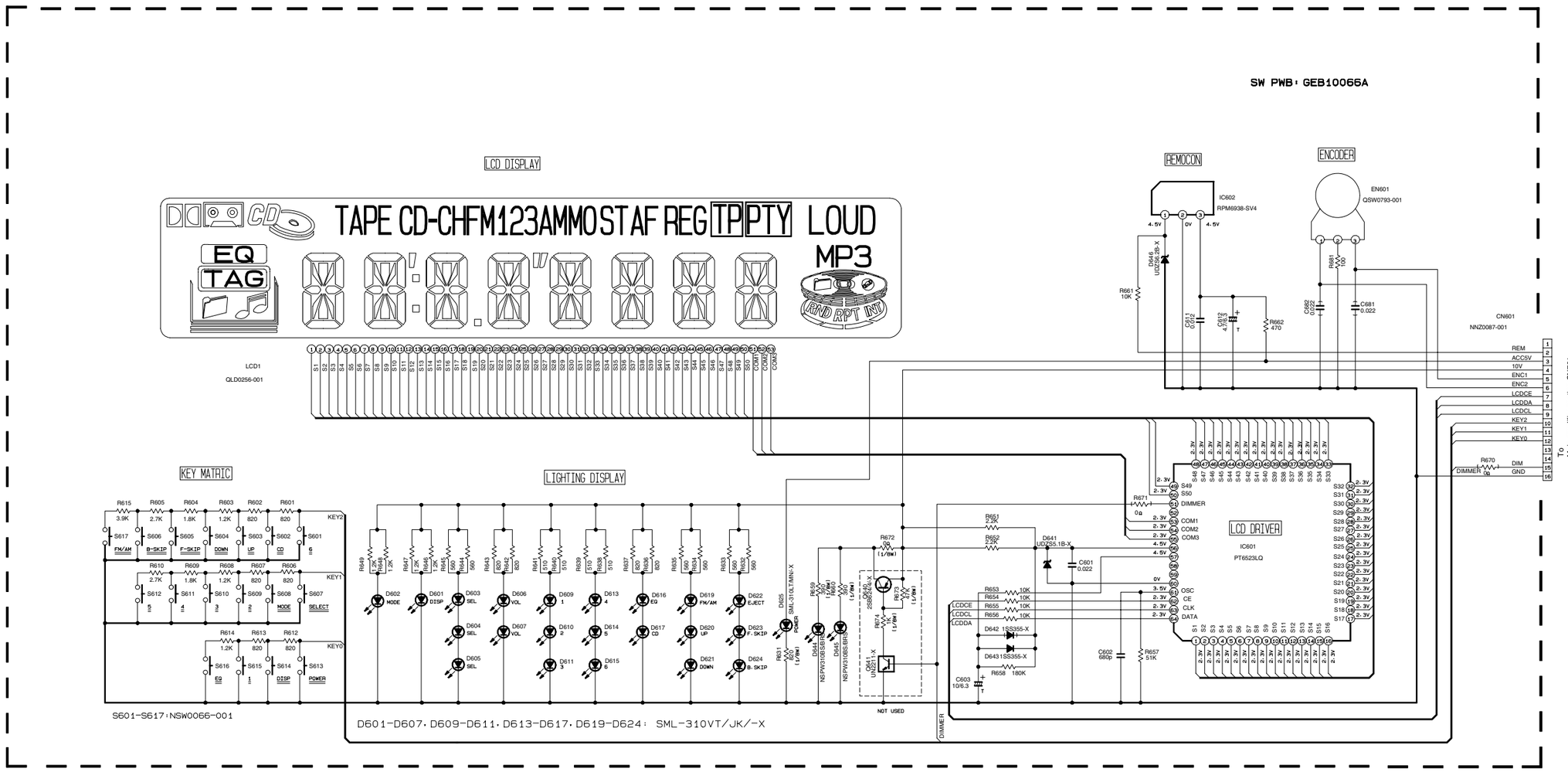
	10K 10K	UN2211-X
	10K 10K	UN2111-X

MAIN P.W.B. GEB10058A

■ CD servo control section



■ LCD & Key control section



	10K 10K	UN2211-X

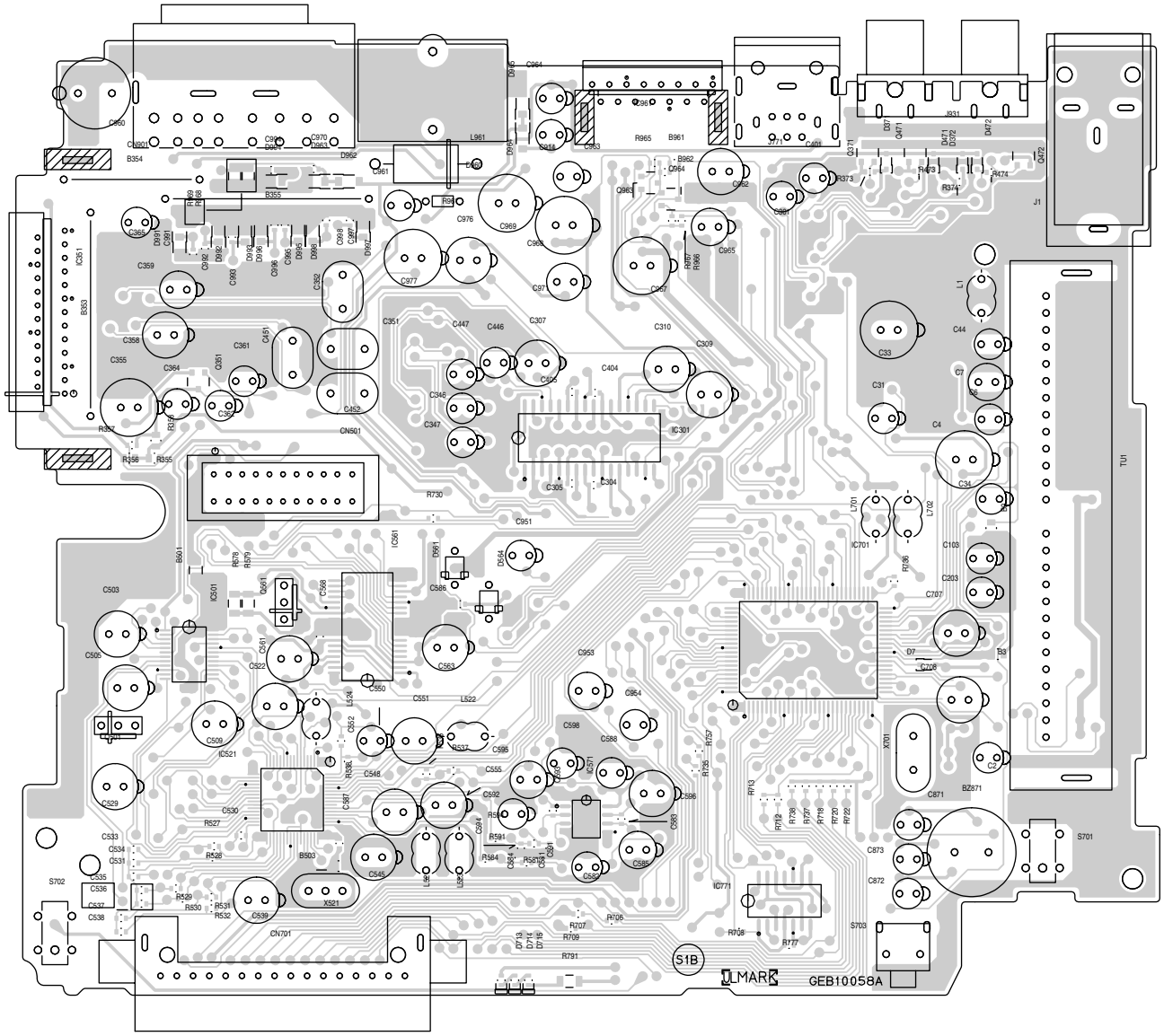
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTORS.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T ~~~ TANTAL CAPACITOR.
3. COMPONENTS IN ( ) INDICATE NOT USE.

Printed circuit boards

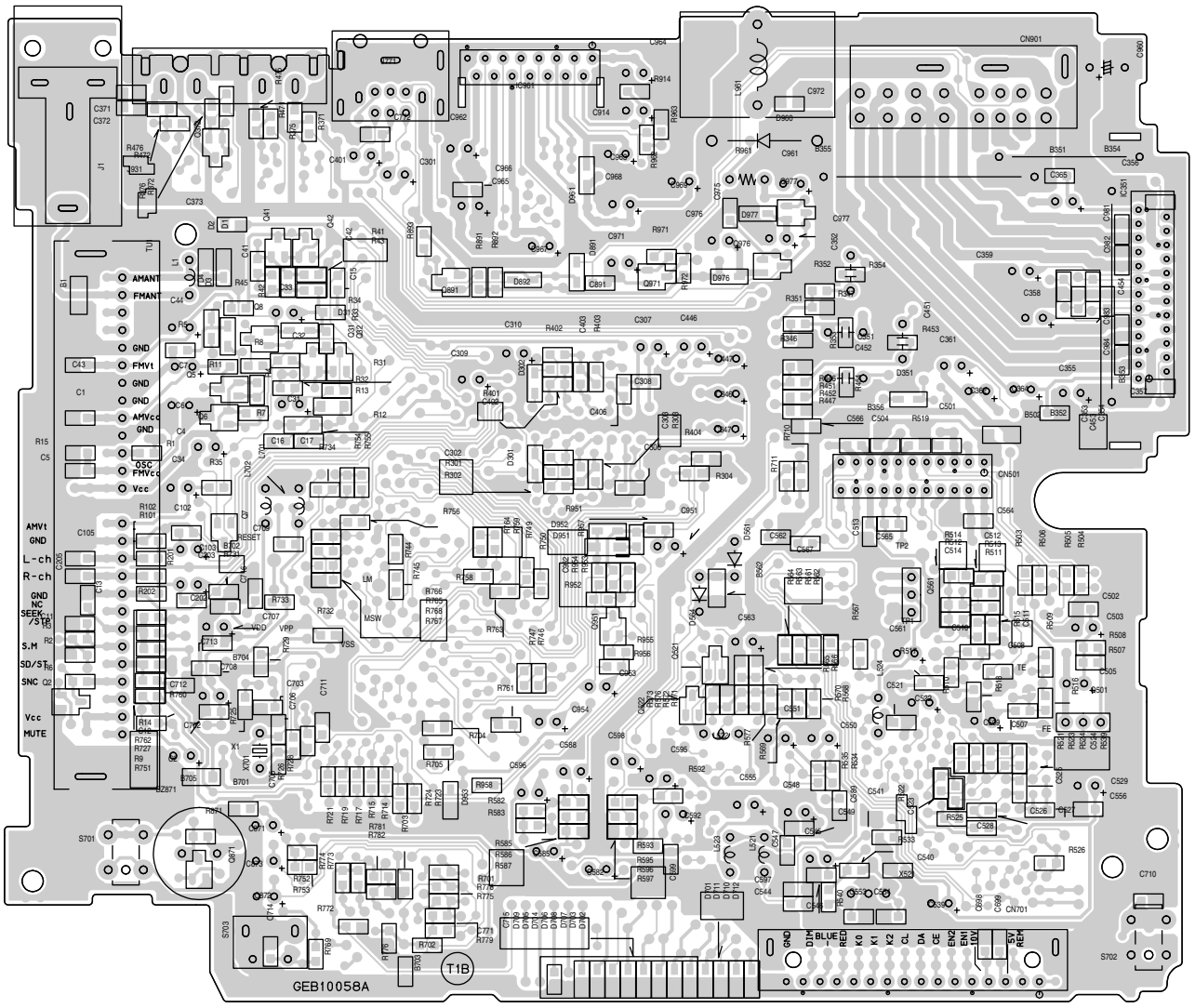
■ Main board

Forward side



■ Main board

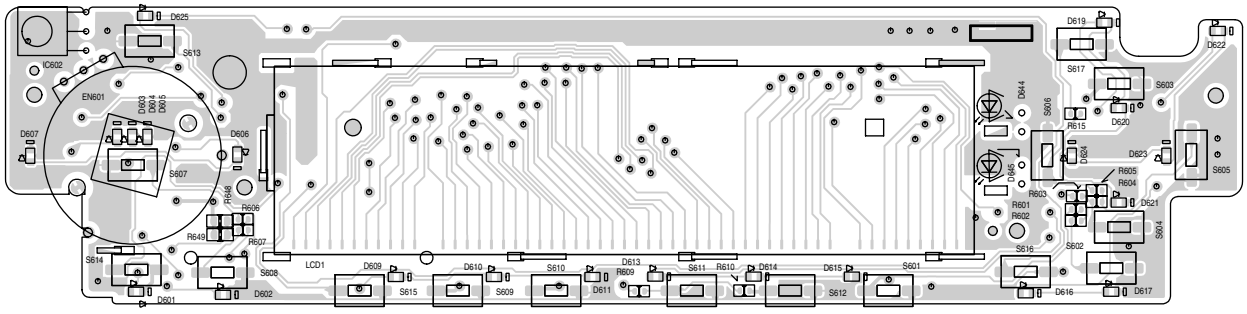
Reverse side



■ Front board

5

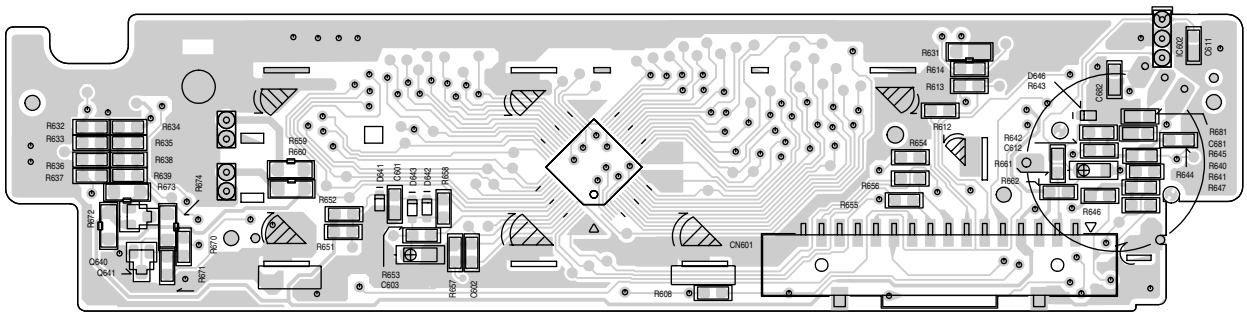
Forward side



4

3

Reverse side



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A B C

KD-S797

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.49861SCH)

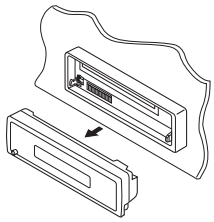
Printed in Japan
2003/05

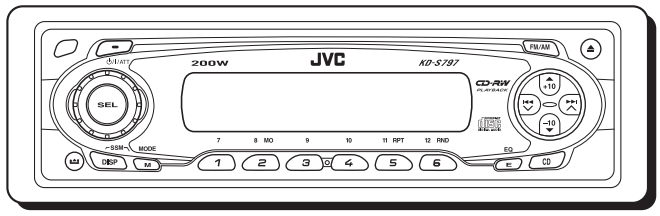
JVC

SERVICE MANUAL

CD RECEIVER

KD-S797





COMPACT disc DIGITAL AUDIO

CD-RW PLAYBACK

Area Suffix
UR ---------- Blazil

TABLE OF CONTENTS

No.49861
2003/5

SECTION 1
Important Safety Precautions

1.1 Safety Precautions

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

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

1.2 Preventing static electricity

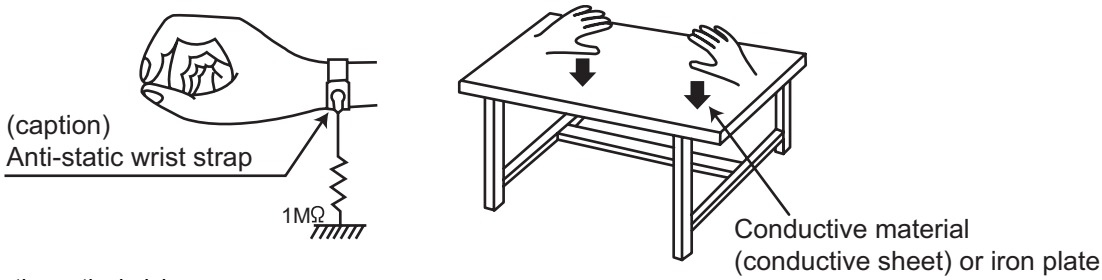
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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 DVD 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.

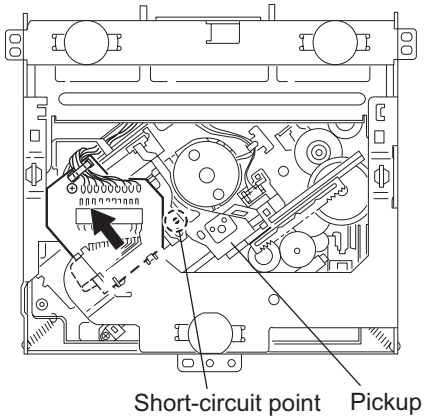
1.3 Handling the traverse unit (optical pickup)

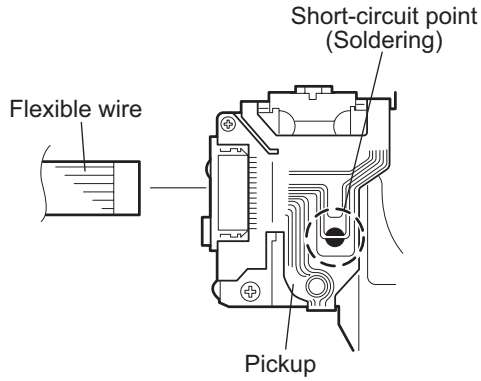
(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static 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) I t 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 CDpickup 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
Disassembly method

2.1 Main body

2.1.1 Removing the front panel assembly (See Fig.1)

(1) Push the detach button in the lower left part of the front panel assembly and remove the front panel assembly in the direction of the arrow.

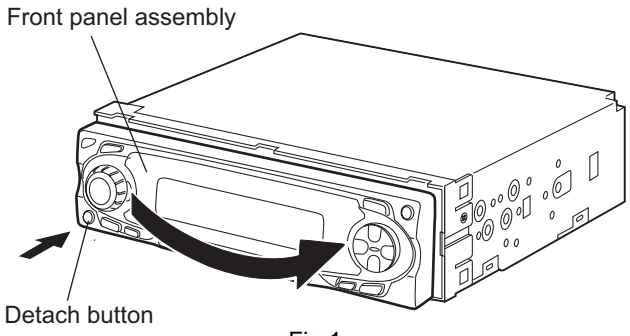


Fig.1

2.1.2 Removing the front chassis assembly (See Figs.2 to 4)

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

(1) Remove the screw **A** on the both sides of the main body, and two screws **B** on the front chassis assembly.

(2) Release the two joints **a** and the two joints **b** on both sides of the main body using a screwdriver, and remove the front chassis assembly forward.

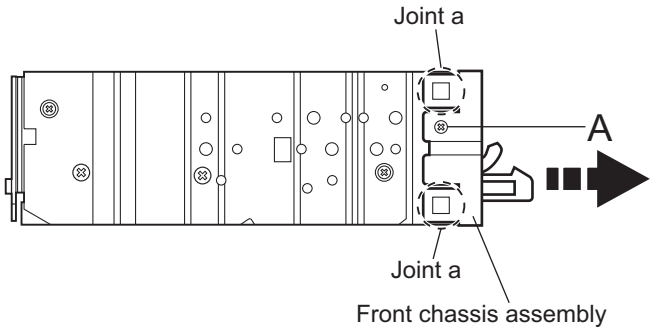


Fig.2

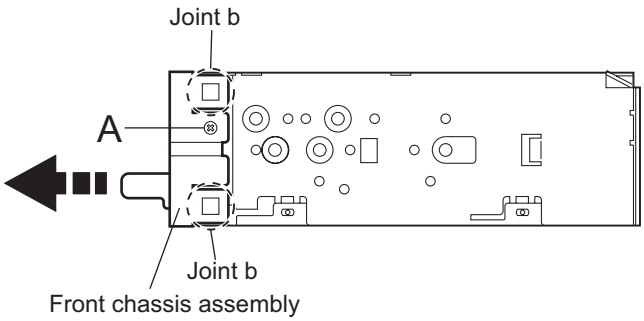


Fig.3

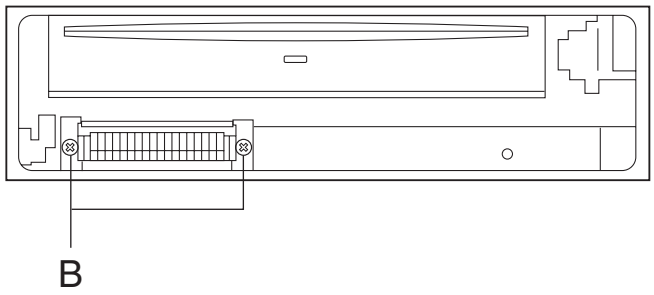


Fig.4

2.1.3 Removing the heat sink (See Fig.5)

(1) Remove the two screws **C** and two screws **D** on the left side of the main body.

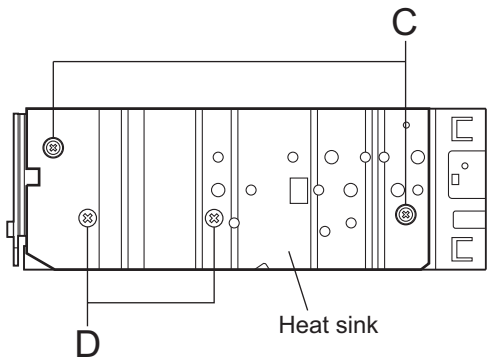


Fig.5

2.1.4 Removing the bottom cover (See Figs.6 and 7)

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

(1) Turn over the body and release the two joints **c**, two joints **d** and joint **e**.

CAUTION:

Do not damage the main board when releasing the joint **e** using a screwdriver. (See Figs.6 and 7)

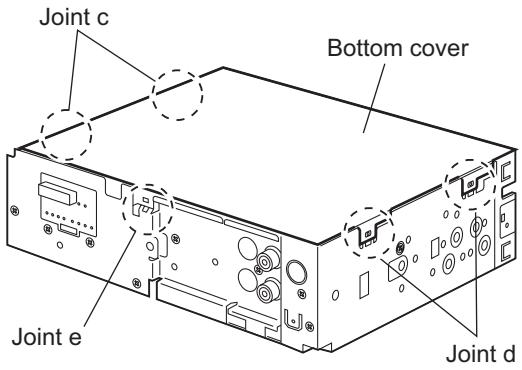


Fig.6

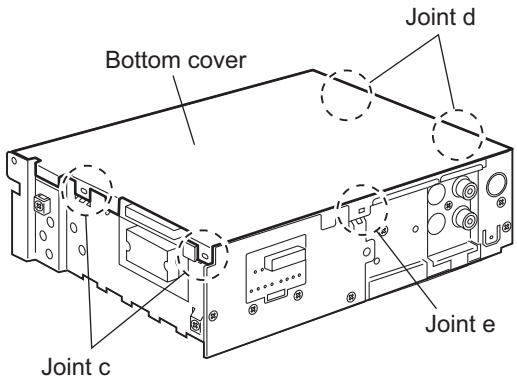


Fig.7

2.1.5 Removing the rear bracket (See Fig.8)

- Prior to performing the following procedure, remove the front panel assembly, front chassis assembly, heat sink and bottom cover.

(1) Remove the three screws **E**, three screws **F** and two screws **G** on the back of the body.

(2) Remove the rear bracket.

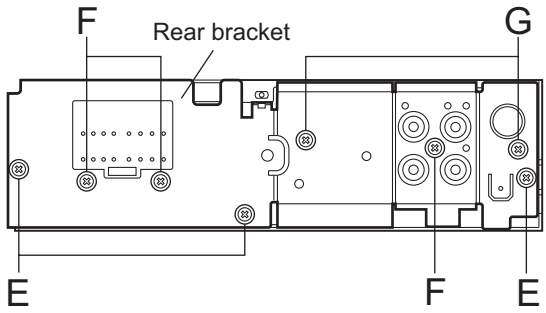


Fig.8

2.1.6 Removing the main board (See Fig.9)

- Prior to performing the following procedure, remove the front panel assembly, front chassis assembly, heat sink, bottom cover and rear bracket.
  (1) Remove the two screws **H** attaching the main board.
  (2) Disconnect connector CN501 and remove the main board.

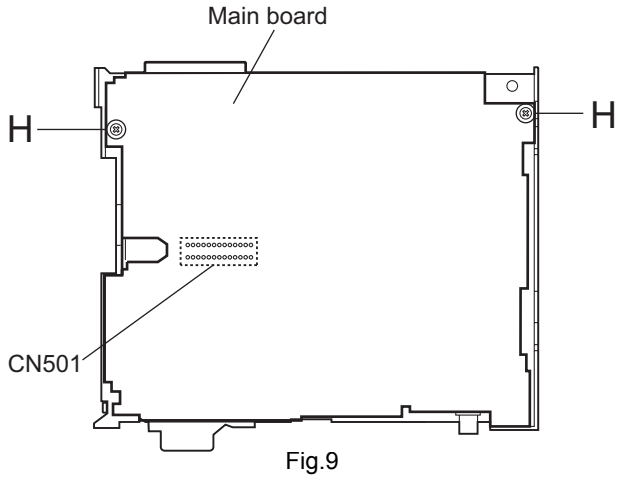


Fig.9

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

- Prior to performing the following procedure, remove the front panel assembly, front chassis assembly, heat sink, bottom cover, rear bracket and main board.
  (1) Remove the three screws **J** .

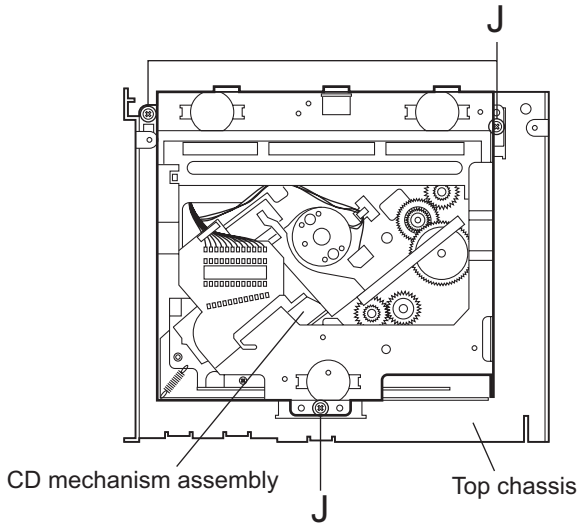


Fig.10

2.1.8 Removing the front board (See Figs.11 to 13)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **K** on the back side of the front panel assembly.
  (2) Release the ten joints **f** .
  (3) Take out the front board.

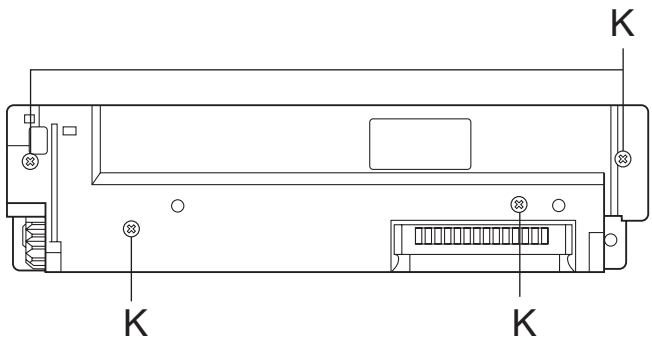


Fig.11

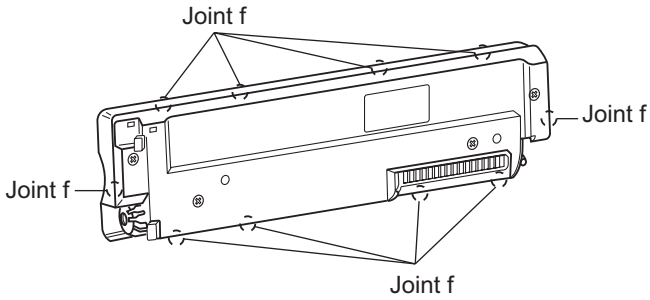


Fig.12

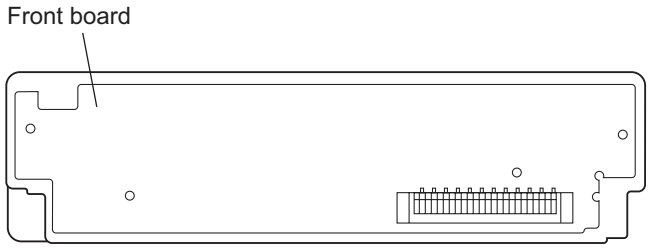


Fig.13

2.2 CD Mechanism Assembly

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

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

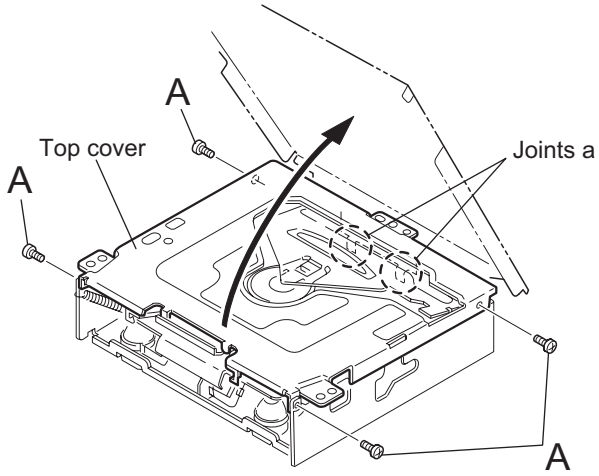


Fig.1

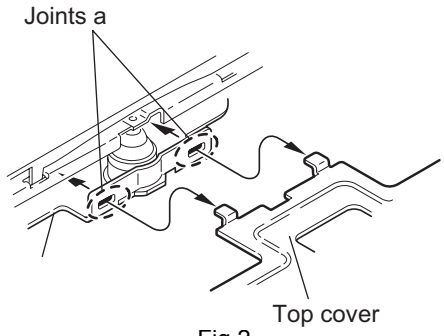


Fig.2

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

CAUTION:

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

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

CAUTION:

Unsolder the short-circuit point after reassembling.

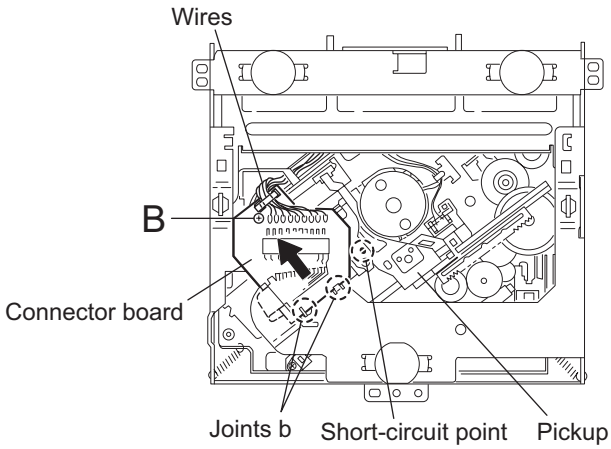


Fig.3

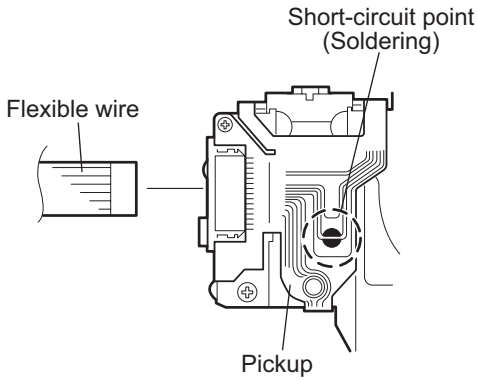


Fig.4

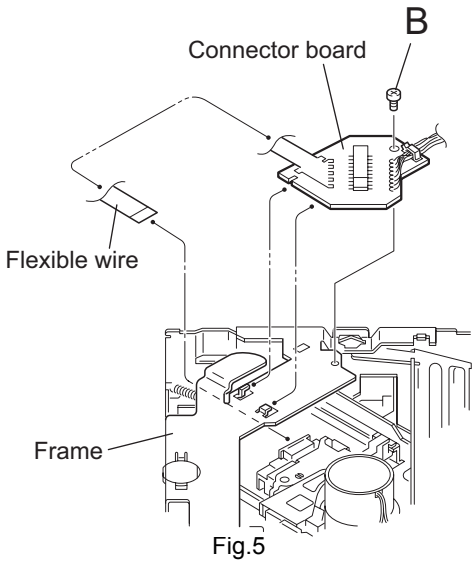


Fig.5

2.2.3 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.

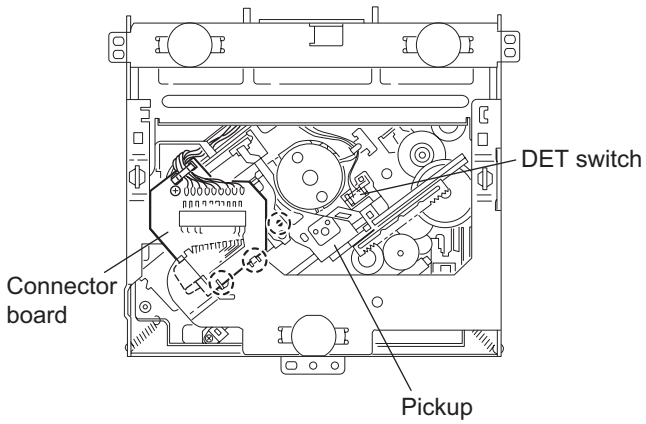


Fig.6

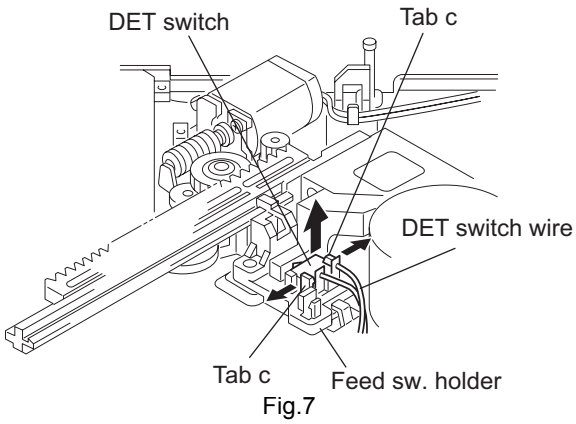


Fig.7

2.2.4 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.

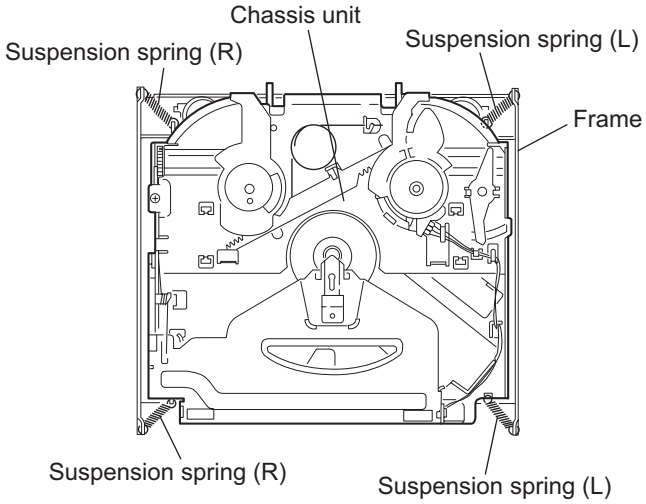


Fig.8

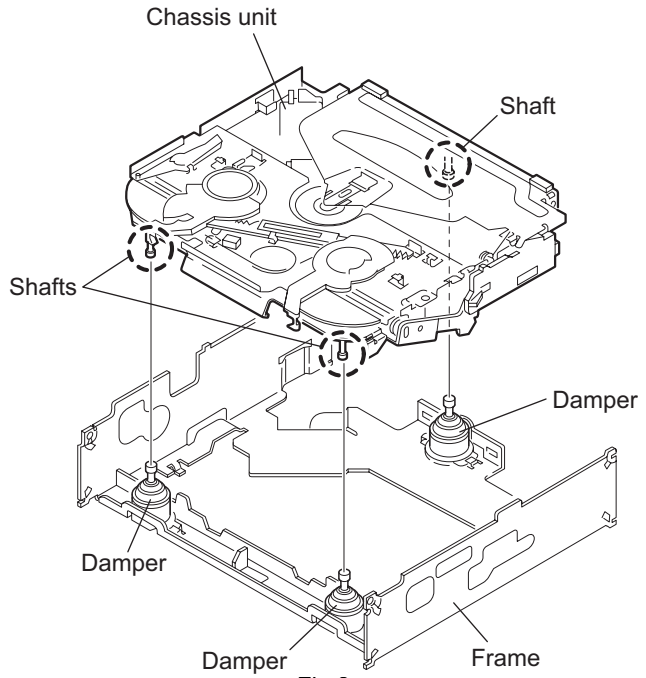


Fig.9

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

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

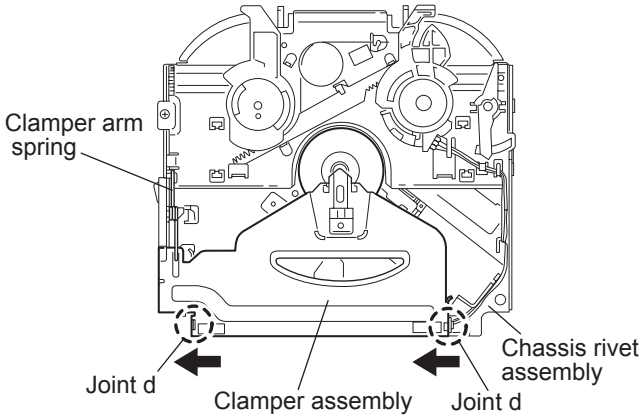


Fig.10

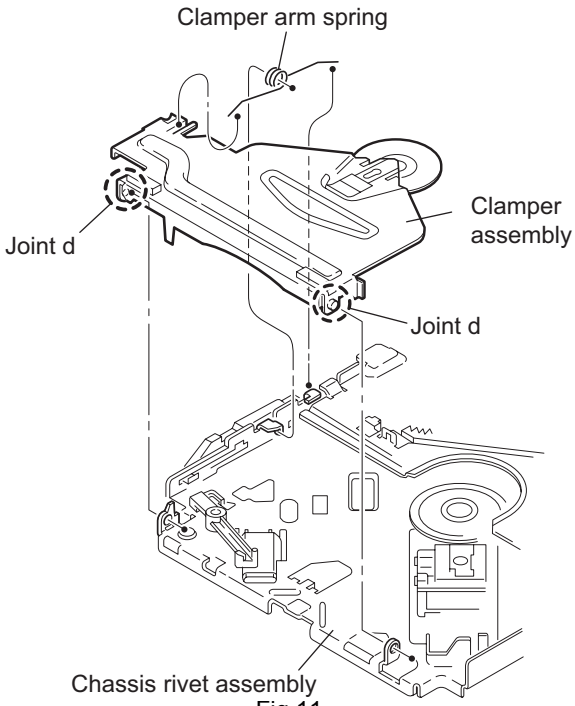


Fig.11

2.2.6 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.

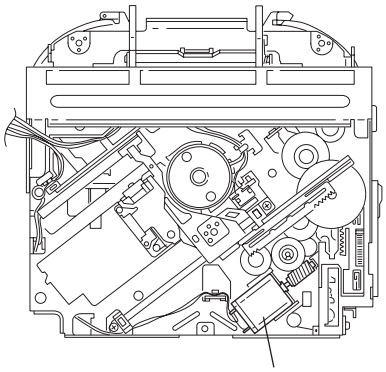


Fig.12

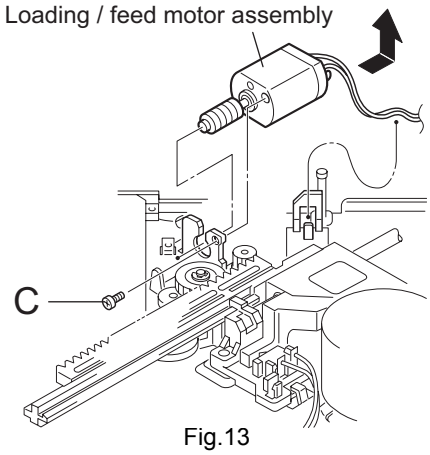


Fig.13

2.2.7 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.

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

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

CAUTION:

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

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

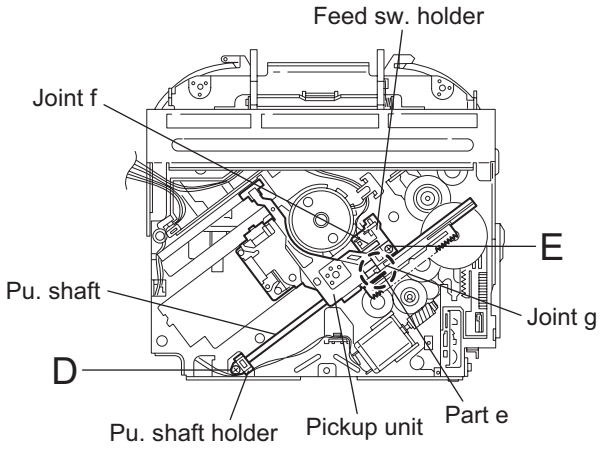


Fig.14

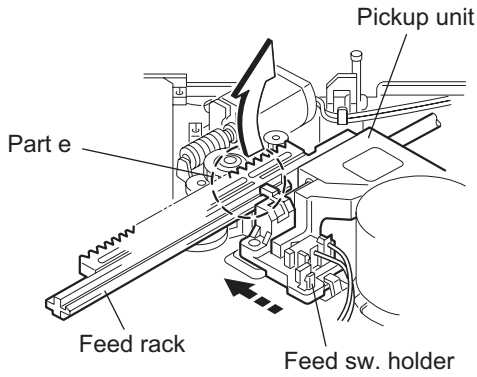


Fig.15

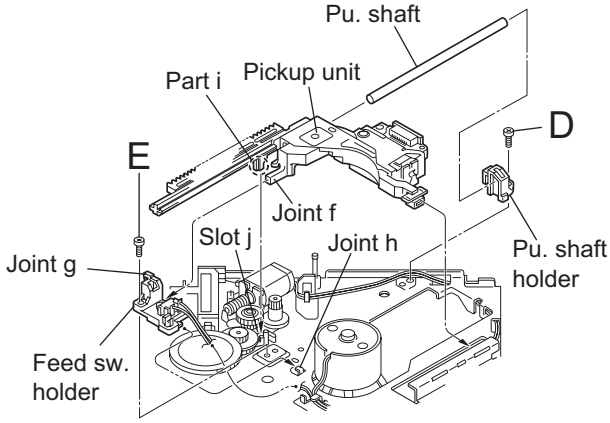


Fig.16

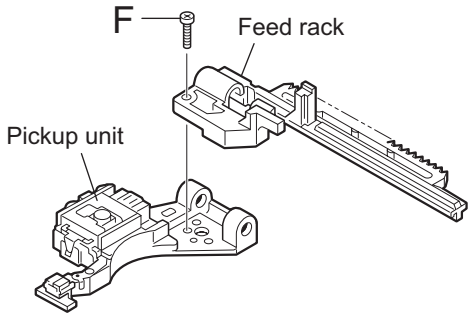


Fig.17

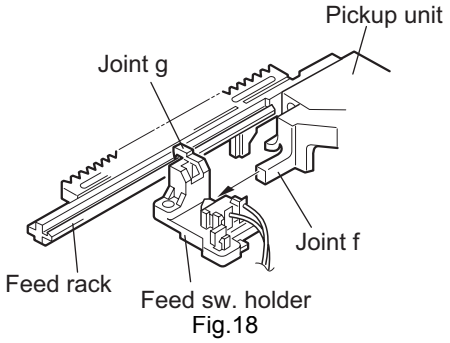


Fig.18

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

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

CAUTION:

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

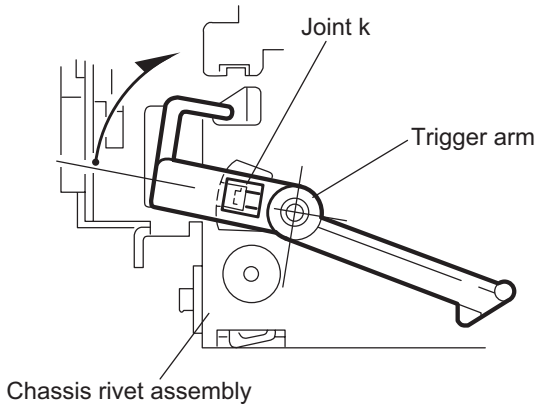


Fig.19

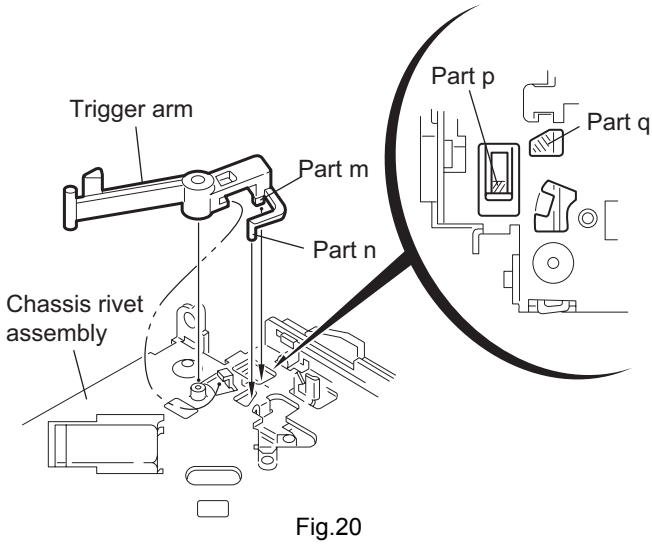


Fig.20

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

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

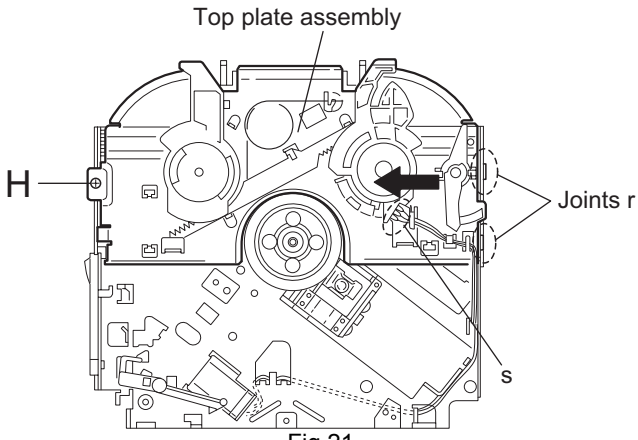


Fig.21

2.2.11 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.

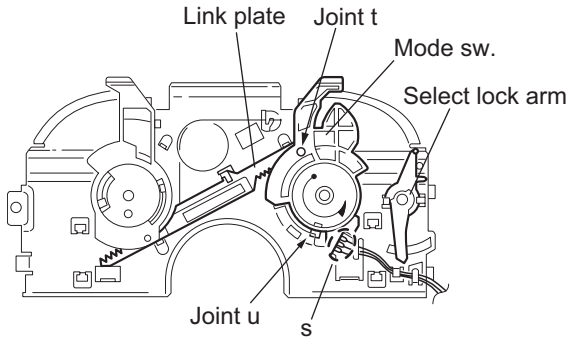


Fig.22

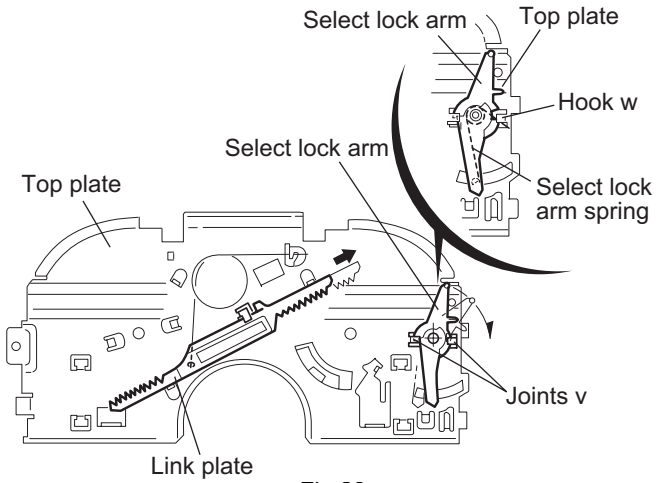


Fig.23

2.2.12 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.

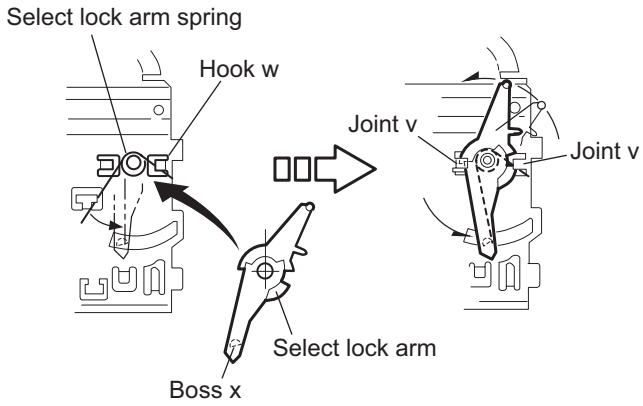


Fig.24

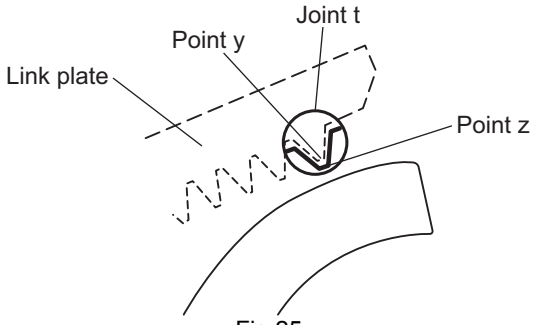


Fig.25

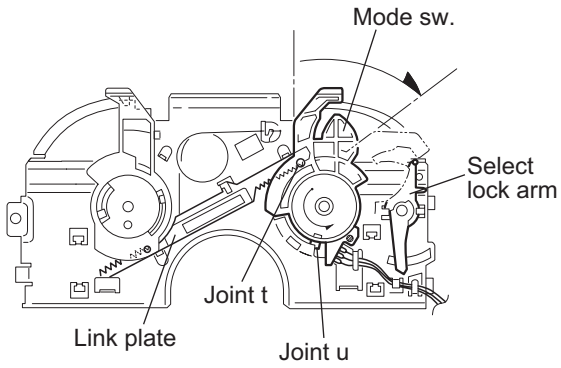


Fig.26

2.2.13 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..

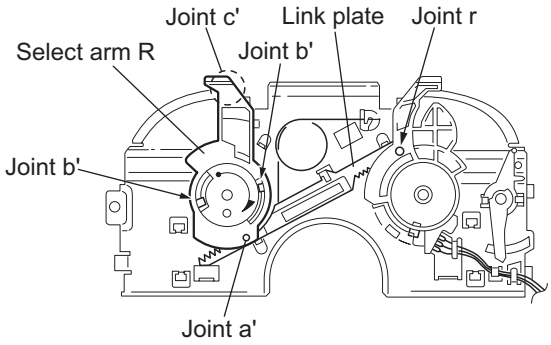


Fig.27

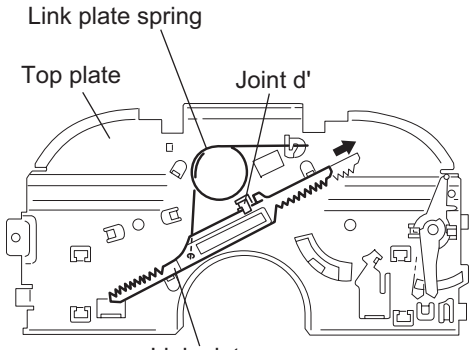


Fig.28

2.2.14 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.

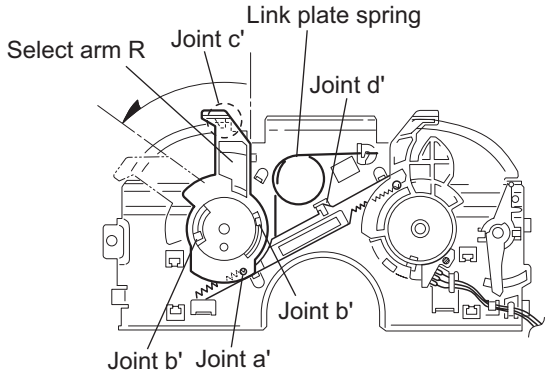


Fig.29

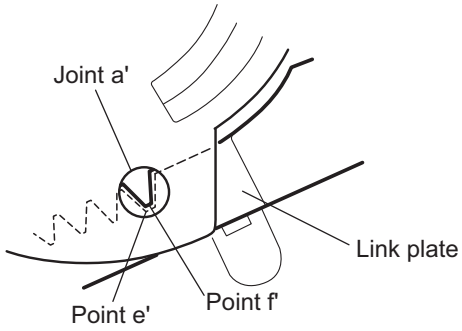


Fig.30

2.2.15 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.)

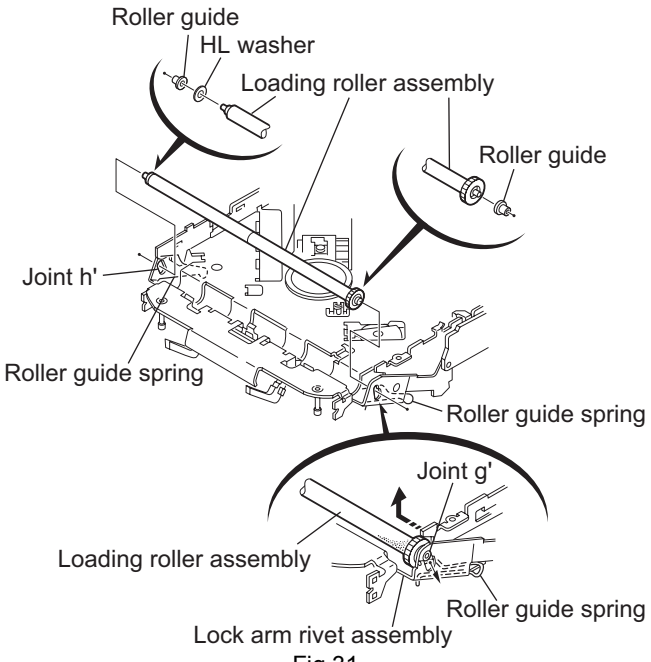


Fig.31

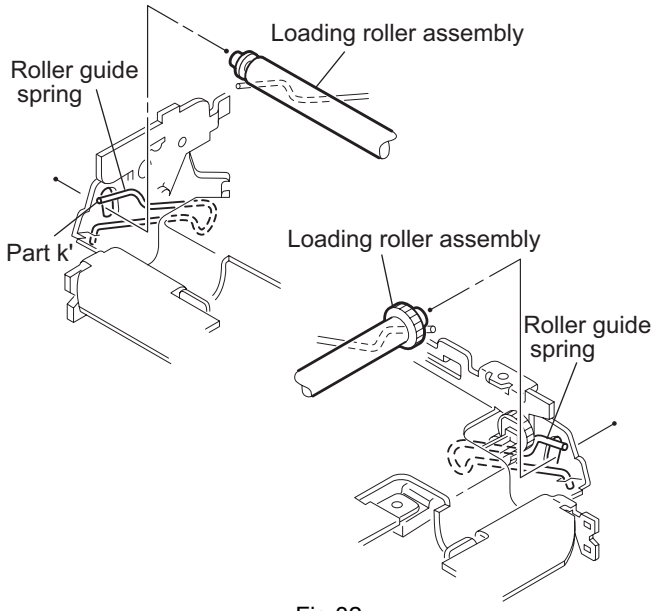


Fig.32

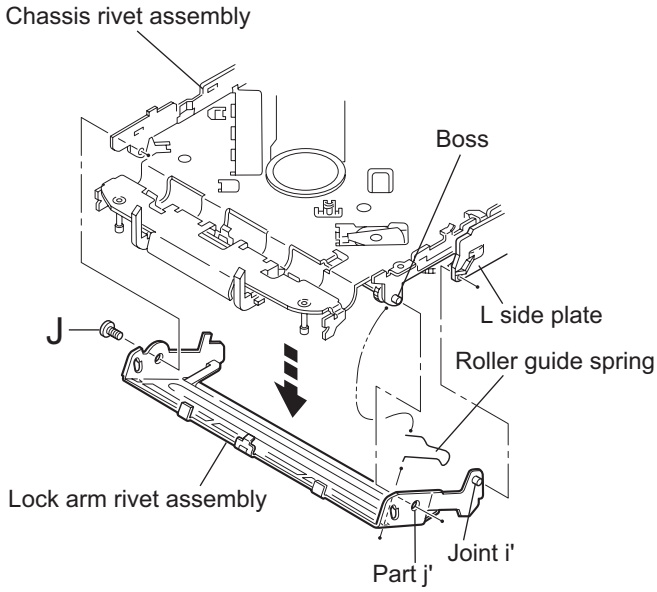


Fig.33

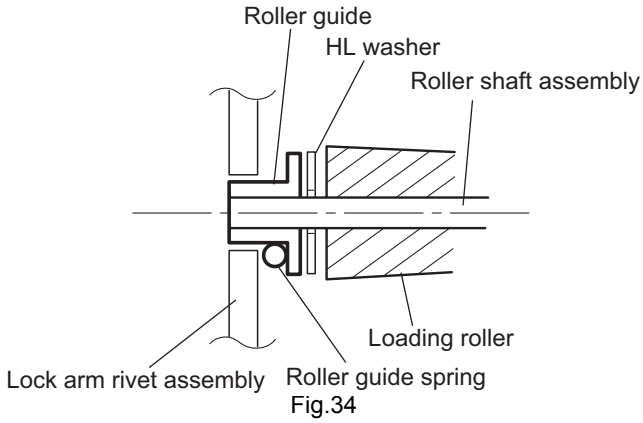


Fig.34

2.2.16 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.

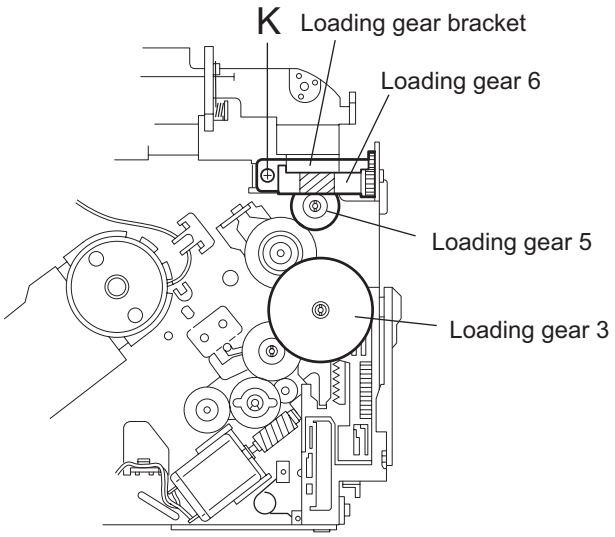


Fig.35

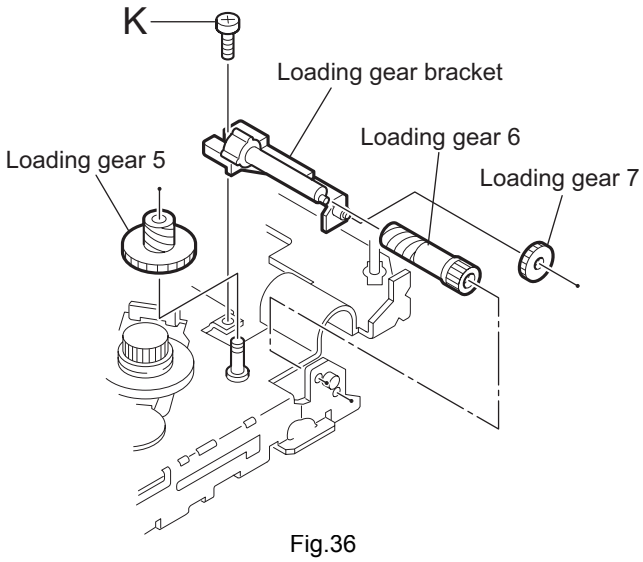


Fig.36

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

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

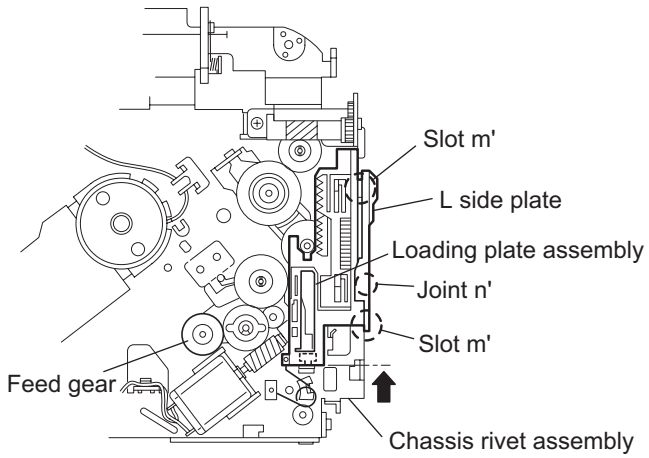


Fig.37

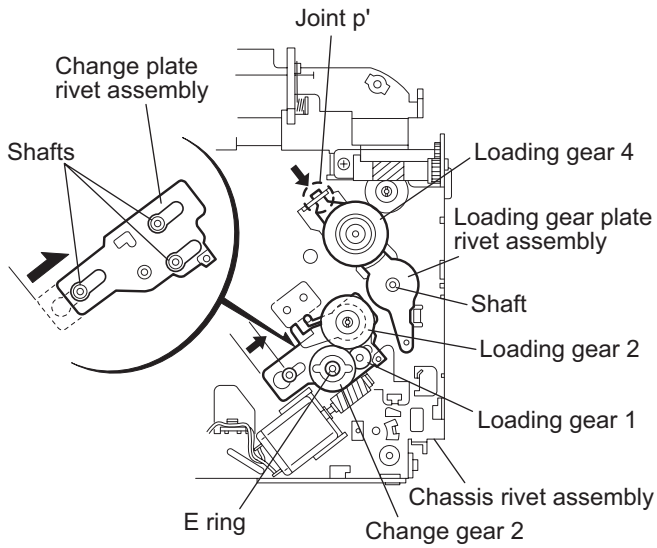


Fig.38

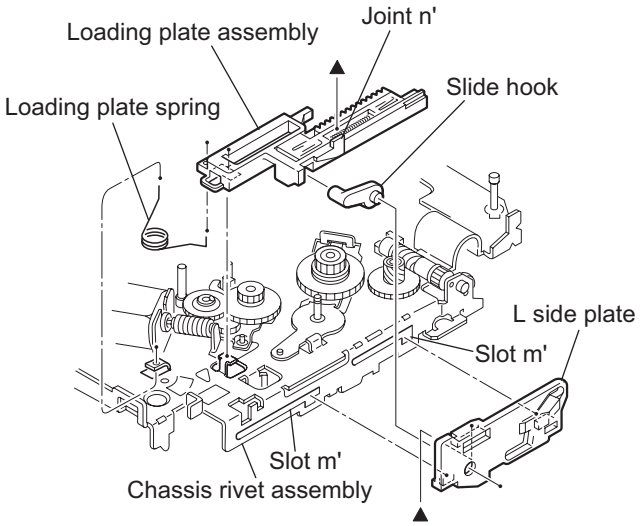


Fig.39

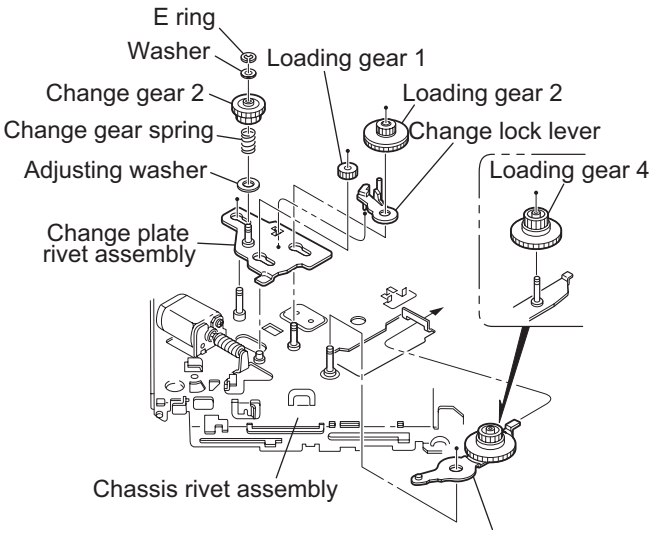


Fig.40

2.2.18 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 clamper assembly.
  (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
  (2) Unsolder the wire on the connector board if necessary.

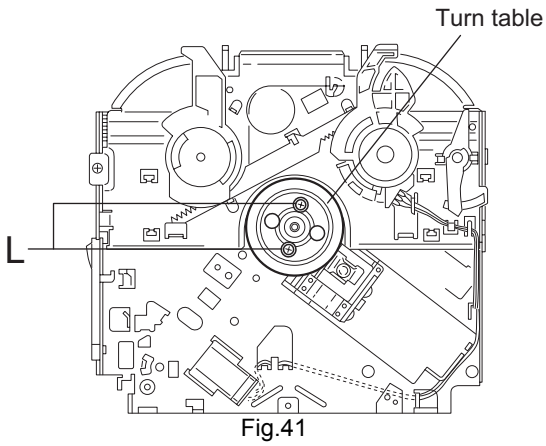


Fig.41

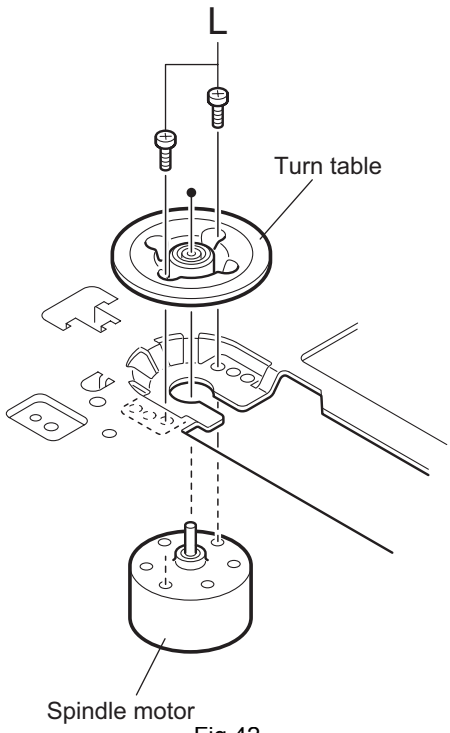


Fig.42

SECTION 3
Adjustment

3.1 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

■ Frequency Band
FM 87.5MHz ~ 107.9MHz
AM 530kHz ~ 1710 kHz

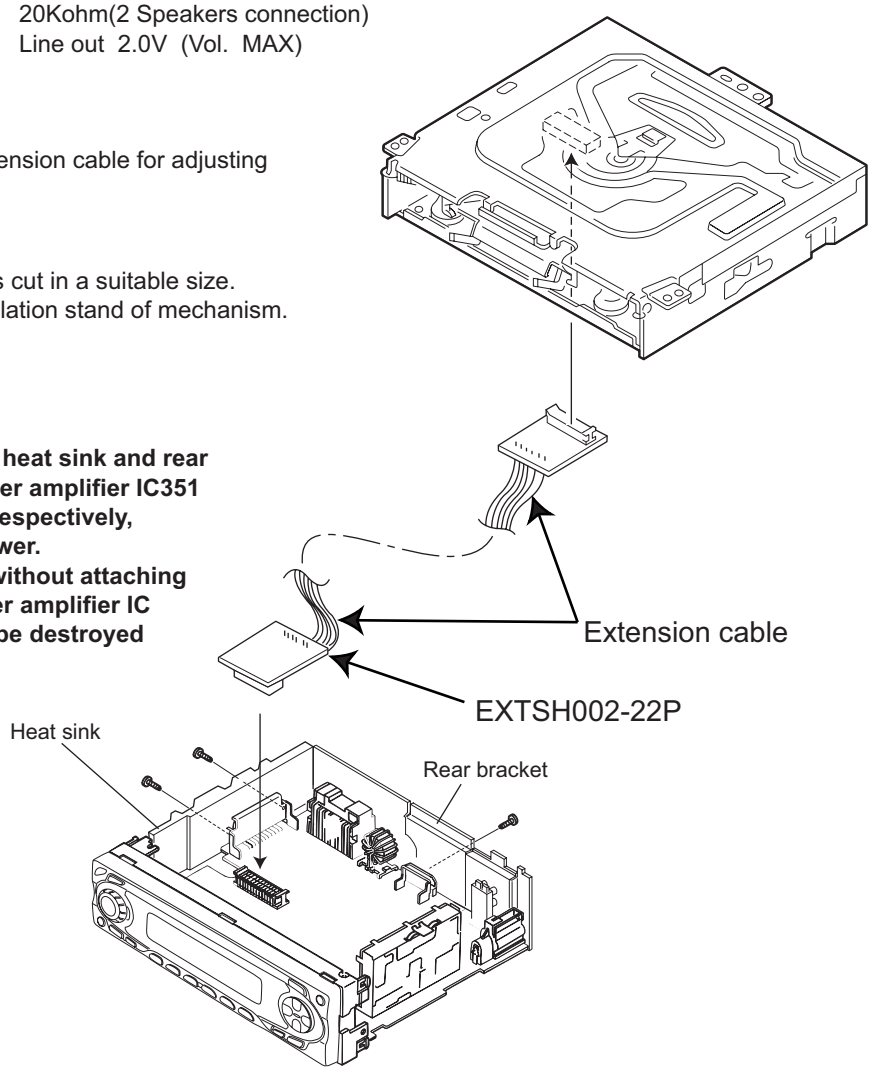
■ Dummy load
Exclusive dummy load should be used for AM and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

■ Standard measuring conditions
Power supply voltage DC14.4V(10.5~16V)
Load impedance 20Kohm(2 Speakers connection)
Output Level Line out 2.0V (Vol. MAX)

■ How to connect the extension cable for adjusting

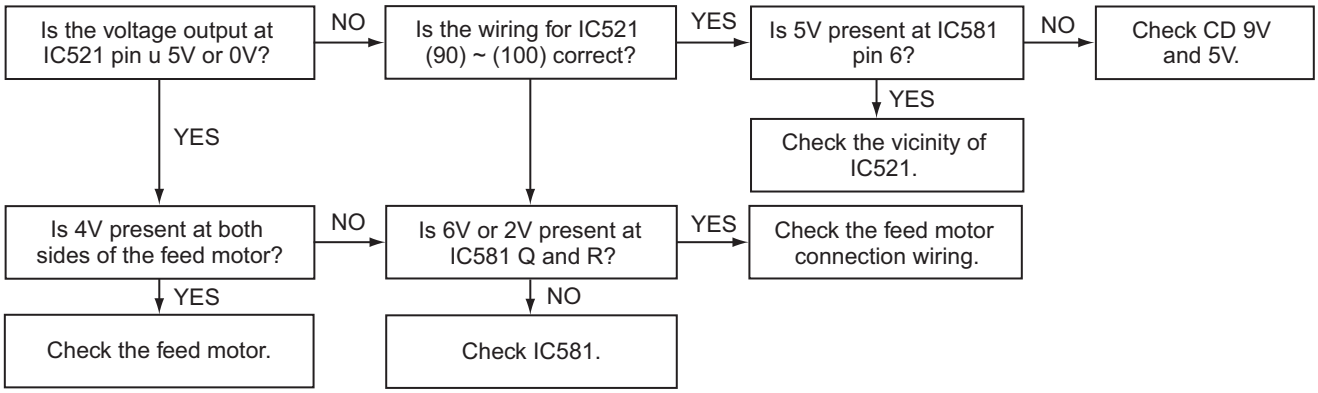
* The cardboard is cut in a suitable size.
uses for the insulation stand of mechanism.

Caution:
Be sure to attach the heat sink and rear bracket onto the power amplifier IC351 and regulator IC961 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.

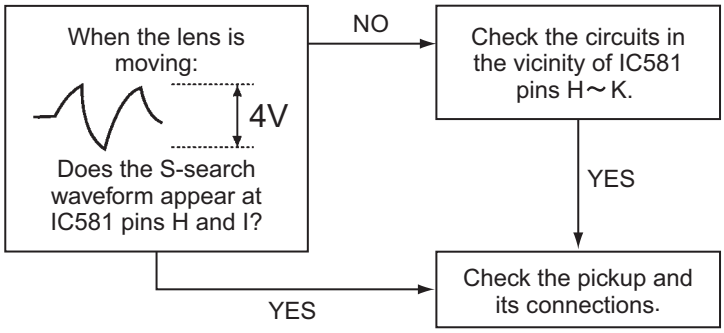


3.2 Troubleshooting

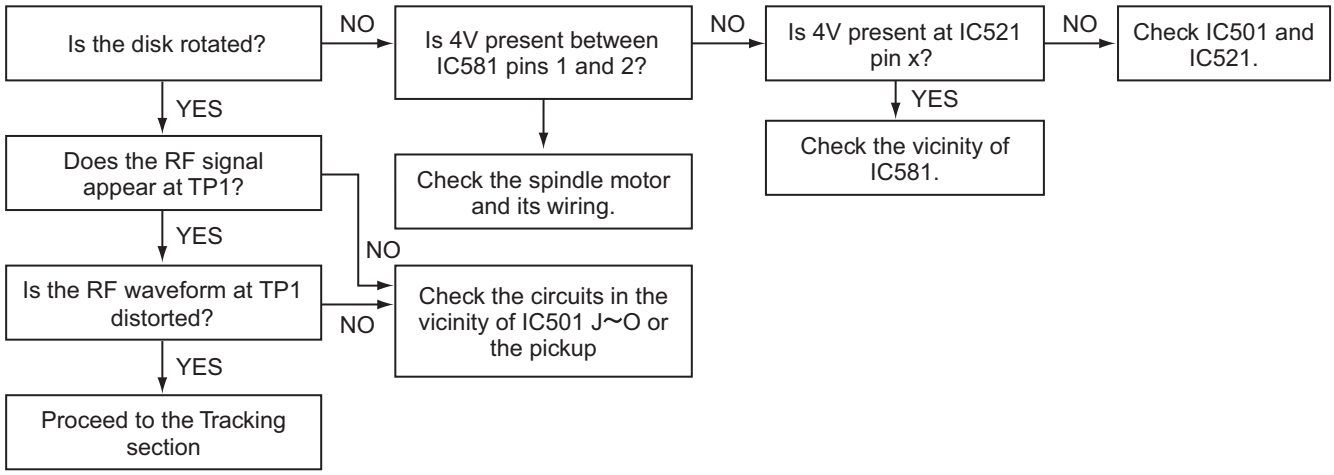
3.2.1 Feed section



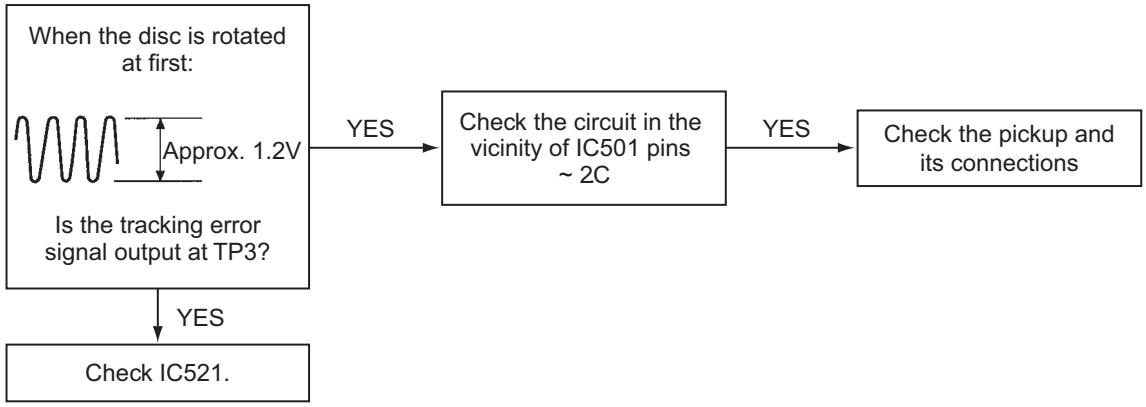
3.2.2 Focus section



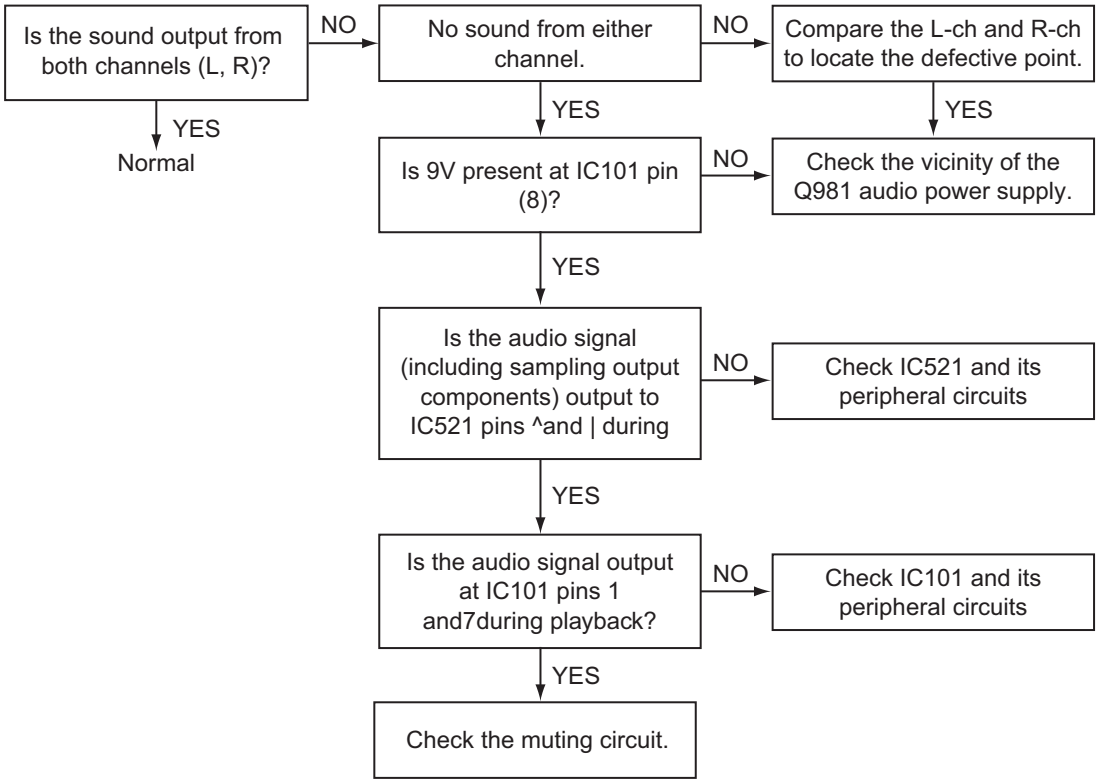
3.2.3 Spindle section



3.2.4 Tracking section



3.2.5 Signal processing section

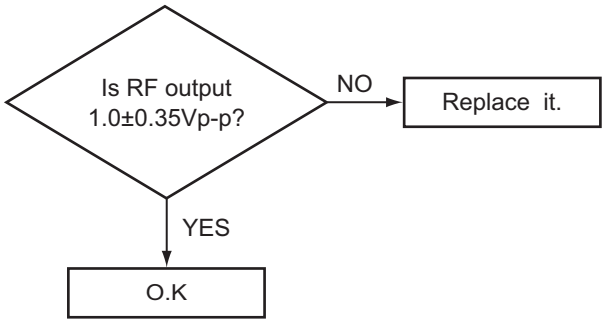


3.3 Maintenance of laser pickup

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

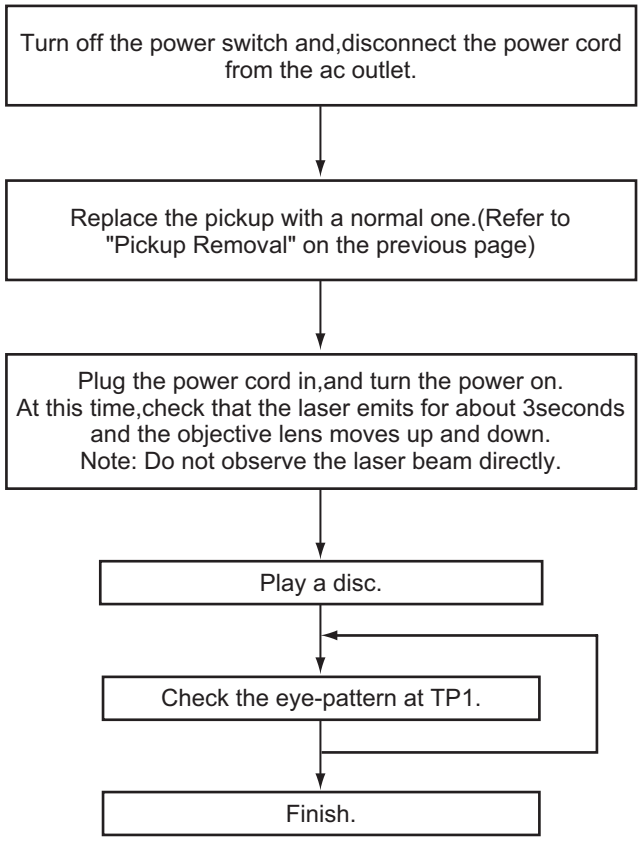
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output:ampli tude 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.

3.4 Replacement of laser pickup

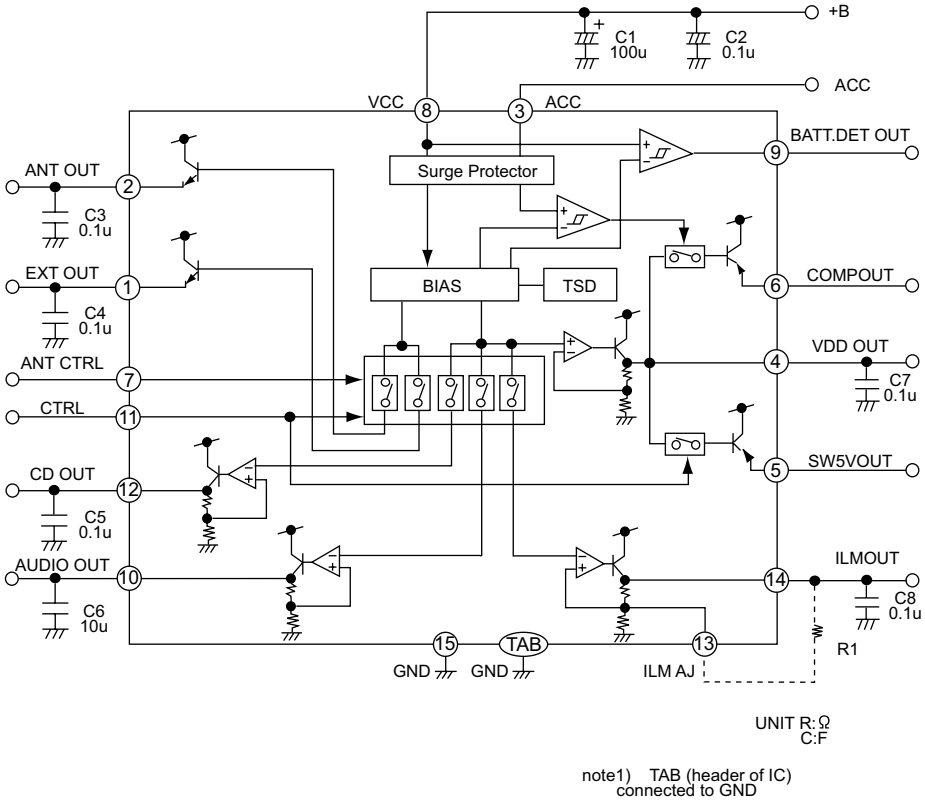


SECTION 4
Description of major ICs

4.1 HA13164A (IC961) : Regulator

• Terminal layout

• Block diagram

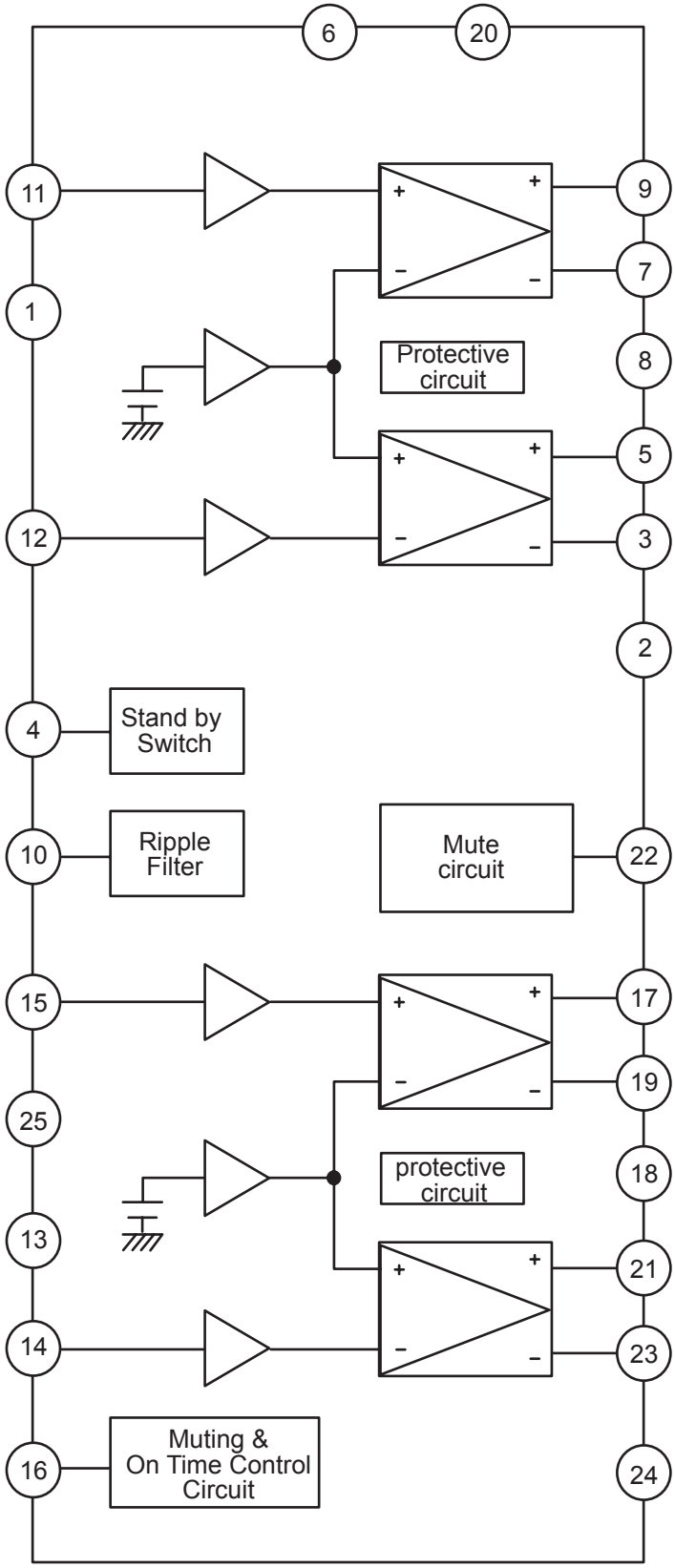


• Pin function

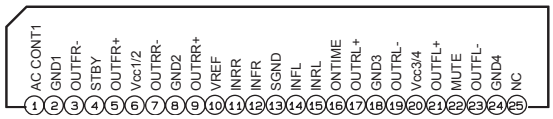
Pin No.	Symbol	Function
1	EXTOUT	Output voltage is VCC-1 V when M or H level applied to CTRL pin.
2	ANTOUT	Output voltage is VCC-1 V when M or H level to CTRL pin and H level to ANT-CTRL.
3	ACCIN	Connected to ACC.
4	VDDOUT	Regular 5.7V.
5	SW5VOUT	Output voltage is 5V when M or H level applied to CTRL pin.
6	COMPOUT	Output for ACC detector.
7	ANT CTRL	L:ANT output OFF H:ANT output ON
8	VCC	Connected to VCC.
9	BATT DET	Low battery detect.
10	AUDIO OUT	Output voltage is 9V when M or H level applied to CTRL pin.
11	CTRL	L:BIAS OFF M:BIAS ON H:CD ON
12	CD OUT	Output voltage is 8V when H level applied to CTRL pin.
13	ILM AJ	Adjustment pin for ILM output voltage.
14	ILM OUT	Output voltage is 10V when M or H level applied to CTRL pin.
15	GND	Connected to GND.

4.2 LA47505 (IC351) : Power amp.

• Terminal layout



• Terminal layout

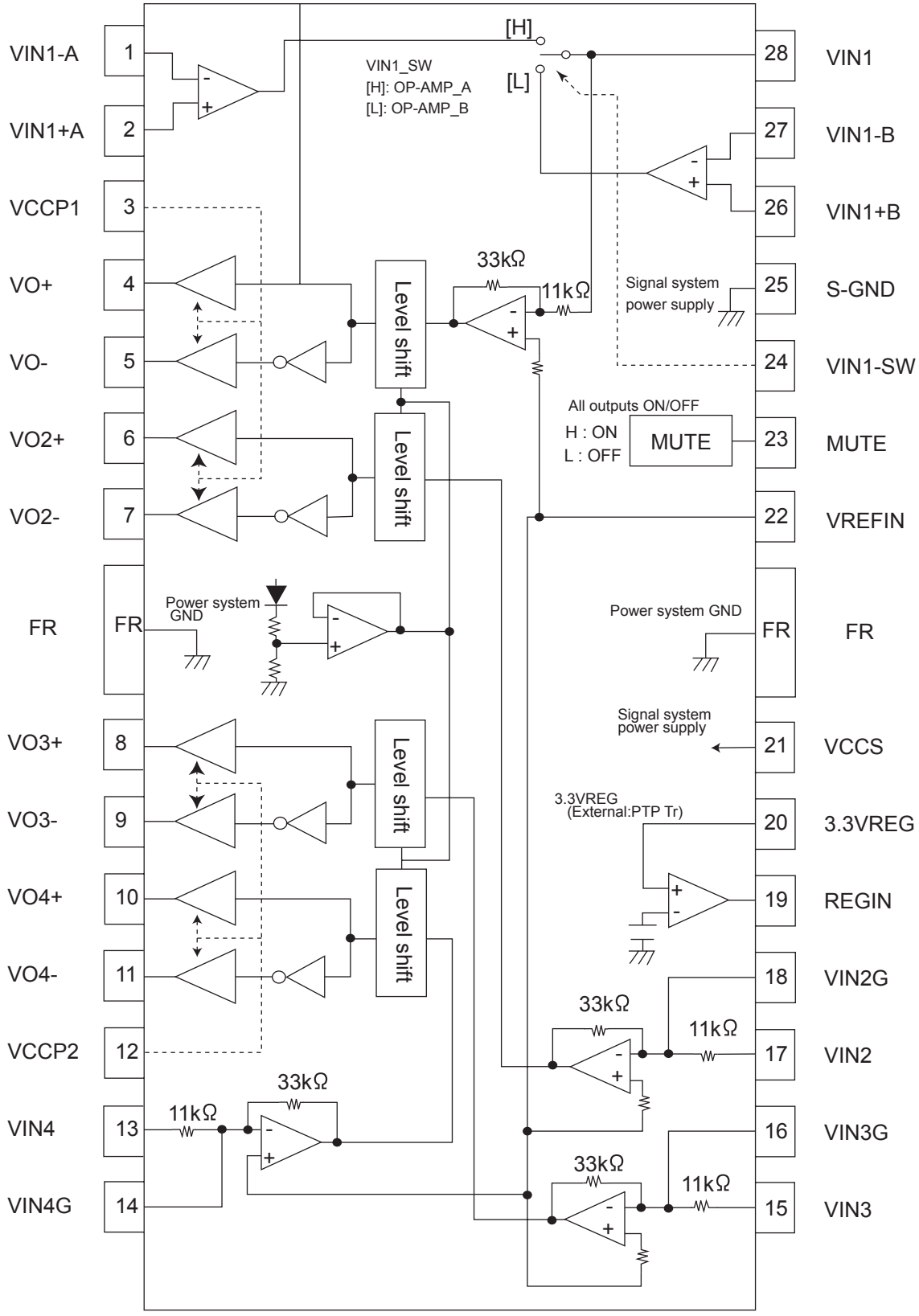


• Pin function

Pin No.	Symbol	Function
1	AC CONT1	Header of IC
2	GND1	Power GND
3	OUTFR-	Outpur(-) for front Rch
4	STBY	Stand by input
5	OUTFR+	Output (+) for front Rch
6	Vcc1/2	Power input
7	OUTRR-	Output (-) for rear Rch
8	GND2	Power GND
9	OUTRR+	Output (+) for rear Rch
10	VREF	Ripple filter
11	INRR	Rear Rch input
12	INFR	Front Rch input
13	SGND	Signal GND
14	INFL	Front Lch input
15	INRL	Rear Lch input
16	ONTIME	Power on time control
17	OUTRL+	Output (+) for rear Lch
18	GND3	Power GND
19	OUTRL-	Output (-) for rear Lch
20	Vcc3/4	Power input
21	OUTFL+	Output (+) for front
22	MUTE	Muting control input
23	OUTFL-	Output (-) for front
24	GND4	Power GND
25	NC	No connection

4.3 LA6579H-X (IC561) : 4-Channel bridge driver

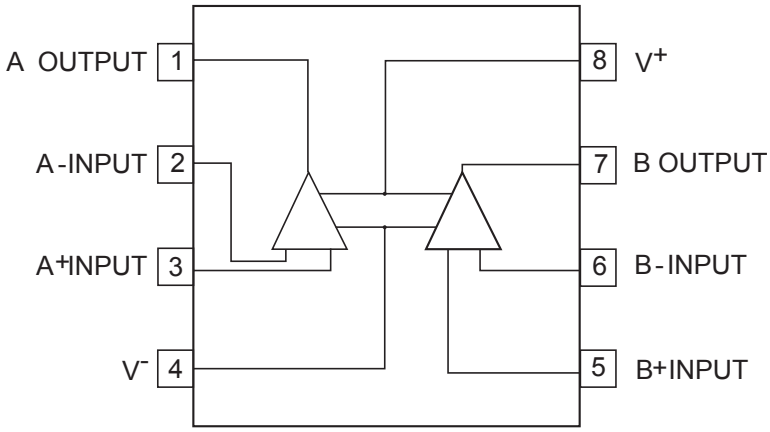
• Pin layout & Block diagram



• Pin function

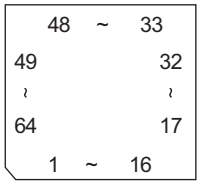
Pin No.	Symbol	Function
1	VIN1-A	CH1 input AMP_inverted input
2	VIN1+A	CH1 input AMP_non-inverted input
3	VCCP1	CH1 and CH2 power stage power supply
4	VO1+	Output pin(+)for channel 1
5	VO1-	CH1 output pin (-) for channel 1
6	VO2+	Output pin(+)for channel 2
7	VO2-	Output pin(-)for channel 2
8	VO3+	Output pin(+)for channel 3
9	VO3-	Output pin(-)for channel 3
10	VO4+	Output pin(+)for channel 4
11	VO4-	Output pin(-)for channel 4
12	VCCP2	CH3 and CH4 power stage powr supply
13	VIN4	Input pin for channel 4
14	VIN4G	Input pin for channel 4(for gain adjustment)
15	VIN3	Input pin for channel 3
16	VIN3G	Input pin for channel 3(for gain adjustment)
17	VIN2	Input pin for channel 2
18	VIN2G	Input pin for channel 2(for gain adjustment)
19	REGIN	External PNP transistor base connection
20	3.3VREG	3.3VREG output pin external PNP transistor,collector connection
21	VCCS	Signal system GND
22	VREFIN	Reference voltage application pin
23	MUTE	Output ON/OFF pin
24	VIN1_SW	CH1 input OP AMP_changeover pin
25	S_GND	Signal system GND
26	VIN1+B	CH1 AMP_B non-inverted input pin
27	VIN1-B	CH1 AMP_B inverted input pin
28	VIN1	CH1 input pin input OP_AMP output pin

4.4 NJM4565M-WE (IC571) : CD L.P.F.

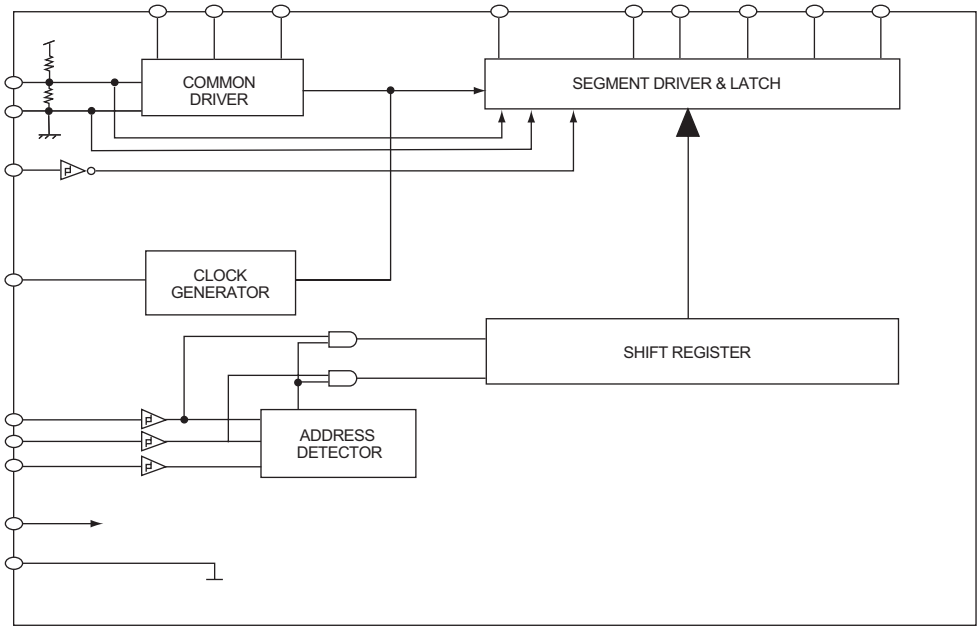


4.5 PT6523LQ (IC601) : LCD driver

• Pin layout



• Block diagram



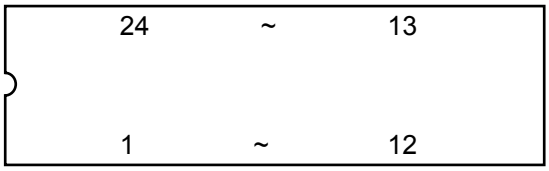
• Piin function

Pin No.	Pin Name	I/O	Description
1~ 52	SG1 ~ SG52	O	Segment Output Pins
53~55	COM1 ~ COM3	O	Common Driver Output Pins
56	VDD	-	Power Supply
57	$\overline{INH}$	I	Display OFF Control Input Pin When this pin is "Low", the Display is forcibly turned OFF. (SG1 to SG52, COM1 to COM3 are set to "LOW"). (See Note 1) When this pin is set to "High", the Displa is ON.
58	VDD1	I	Used for the 2/3 Bias Voltage when the Bias Voltages are provied externally. Connect to VDD2 when 1/2 Bias is used.
59	VDD2	I	Used for 1/3 Bias Voltage when the Bias Voltages are provided externally. Connect to VDD1 when 1/2 Bias is used.
60	VSS	-	Ground Pin.
61	OSC	I/O	Oscillation Input /Outout Pin
62	CE	I	Chip Enable Pin
63	CLK	I	Synchronization Clock
64	DI	I	Transfer Data Pin

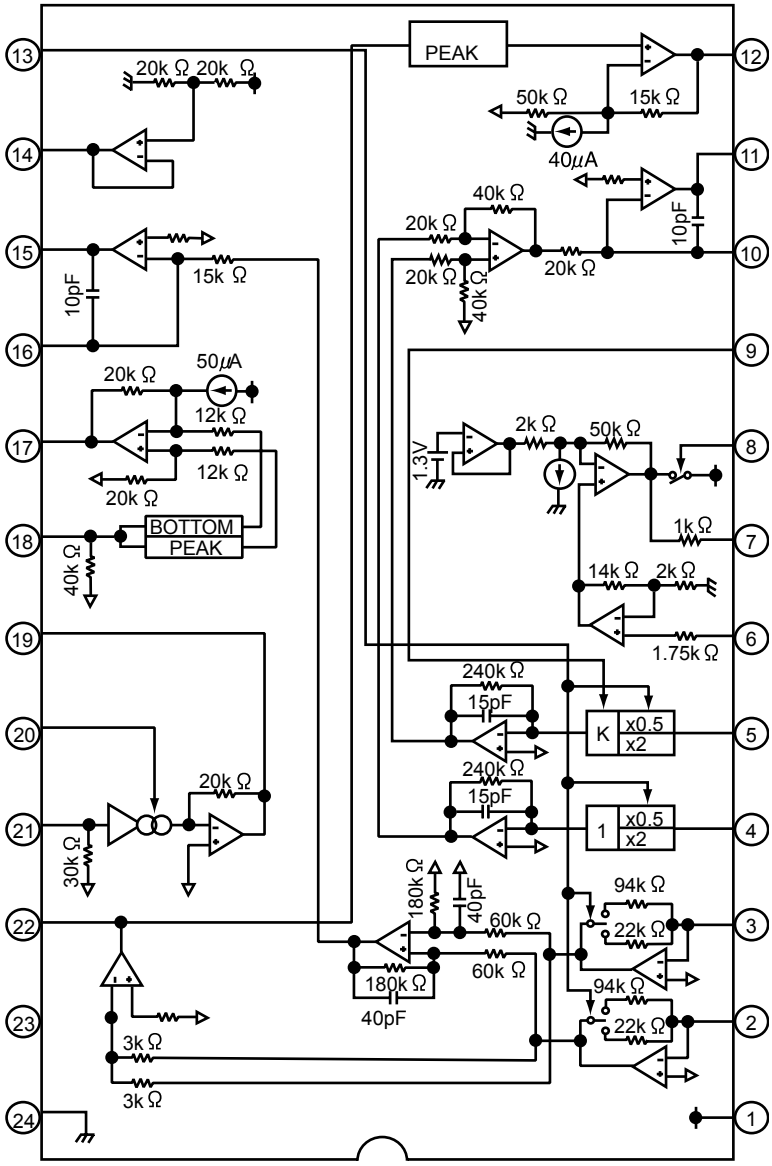
Note 1:
When $\overline{INH}$ = "LOW" : Serial data trensfers can be performed when the display is forcibly OFF.

4.6 TA2157FN-X(IC501):RF amp

• Terminal layout



• Block diagram



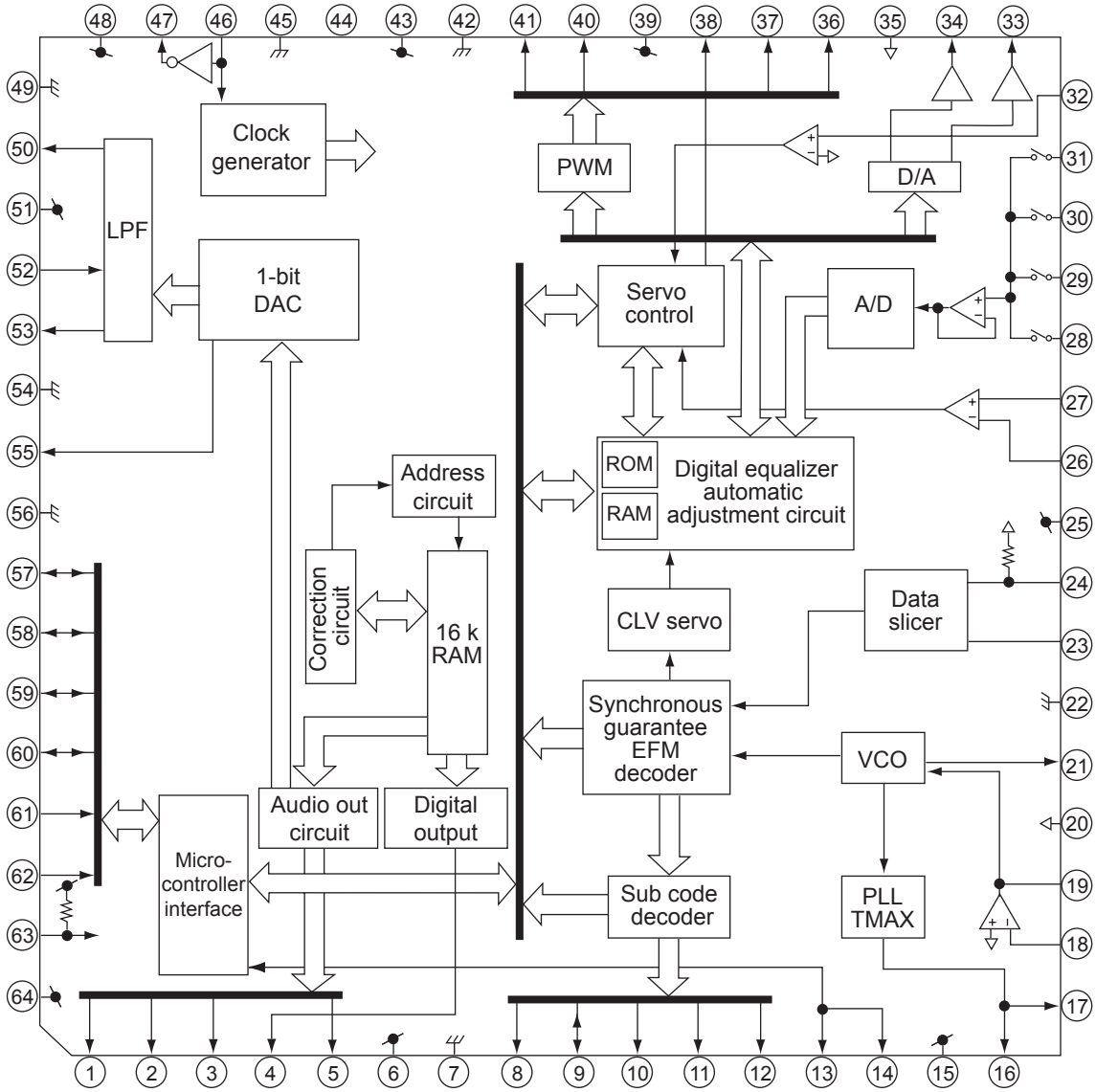
PIN / VCTRLPIN	SEL (APC SW)	TEB (TE BAL)	RFGC (AGC Gian)	TEB (TE BAL)
VCC	APC ON	-50%	+12dB	Normal mode (0dB)
HiZ	APC ON	0%	+6dB	Normal mode (0dB)
GND	APC OFF (LDO=H)	50%	0dB	CD-RW mode (+12dB)

• Pin function

<table>
<tr><th>Pin No.</th><th>Symbol</th><th>I/O</th><th>Function</th></tr>
<tr><td>1</td><td>VCC</td><td>-</td><td>3.3V power supply pin</td></tr>
<tr><td>2</td><td>FNI</td><td>I</td><td>Main-beam amp input pin</td></tr>
<tr><td>3</td><td>FPI</td><td>I</td><td>Main-beam amp input pin</td></tr>
<tr><td>4</td><td>TPI</td><td>I</td><td>Sub-beam amp input pin</td></tr>
<tr><td>5</td><td>TNI</td><td>I</td><td>Sub-beam amp input pin</td></tr>
<tr><td>6</td><td>MDI</td><td>I</td><td>Monitor photo diode amp input pin</td></tr>
<tr><td>7</td><td>LDO</td><td>O</td><td>Laser diode amp output pin</td></tr>
<tr><td>8</td><td>SEL</td><td>I</td><td>APC circuit ON/OFF control signal, laser diode (LDO) control signal input
or bottom/peak detection frequency change pin.
<table>
<tr><th>SEL</th><th>APC circuit</th><th>LDO</th></tr>
<tr><td>GND</td><td>OFF</td><td>Connected VCC through 1kΩ resistor</td></tr>
<tr><td>Hiz</td><td>ON</td><td>Control signal output</td></tr>
<tr><td>VCC</td><td>ON</td><td>Control signal output</td></tr>
</table></td></tr>
<tr><td>9</td><td>TEB</td><td>I</td><td>Tracking error balance adjustment signal input pin
Adjusts TE signal balance by eliminating carrier component from PWM signal (3-state output,
PWM carrier = 88.2kHz) output from TC94A14F/FA
TEBC pin using RC-LPF and inputting DC.
TEBC input voltage:GND~VCC</td></tr>
<tr><td>10</td><td>TEN</td><td>I</td><td>Tracking error signal generation amp negative-phase input pin</td></tr>
<tr><td>11</td><td>TEO</td><td>O</td><td>Tracking error signal generation amp output pin.
Combining TEO signal RFRP signal with TC94A14F/FA configures tracking search system.</td></tr>
<tr><td>12</td><td>RFDC</td><td>O</td><td>RF signal peak detection output pin</td></tr>
<tr><td>13</td><td>GVSW</td><td>I</td><td>AGC/FE/TE amp gain change pin
<table>
<tr><th>GVSW</th><th>Mode</th></tr>
<tr><td>GND</td><td>CD-RW</td></tr>
<tr><td>Hiz</td><td>Normal</td></tr>
<tr><td>VCC</td><td></td></tr>
</table></td></tr>
<tr><td>14</td><td>VRO</td><td>O</td><td>Reference voltage (VRO) output pin
*VRO=1/2VCC When VCC=3.3V</td></tr>
<tr><td>15</td><td>FEO</td><td>O</td><td>Focus error signal generation amp output pin</td></tr>
<tr><td>16</td><td>FEN</td><td>I</td><td>Focus error signal generation amp negative-phase input pin</td></tr>
<tr><td>17</td><td>RFRP</td><td>O</td><td>Signal amp output pin for track count
Combining RFRP signal and TEO signal with TC94A14F/FA configures tracking search system.</td></tr>
<tr><td>18
19
20</td><td>REIS
RFGO
RFGC</td><td>I
O
I</td><td>
RF signal amplitude adjustment amp output pin
RF amplitude adjustment control signal input pin
Adjusts RF signal amplitude by eliminating carrier component from PWM signal (3-state output,
PWM carrier=88.2kHz)output fromTC94A14F/14FA *RFGC pin using RC-LPF and inputting DC.
*RFGC input voltage:GND~VCC</td></tr>
<tr><td>21</td><td>AGCIN</td><td>I</td><td>RF signal amplitude adjustment amp input pin</td></tr>
<tr><td>22</td><td>RFO</td><td>O</td><td>RF signal generation amp output pin</td></tr>
<tr><td>23</td><td>RFI</td><td>I</td><td>RF signal generation amp input pin</td></tr>
<tr><td>24</td><td>GND</td><td>-</td><td>GND pin</td></tr>
</table>

4.7 TC94A14FA (IC521) : DSP & DAC

• Terminal layout & block daiagram



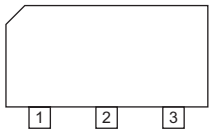
• Pin function

Pin No	Symbol	I/O	Descroption
1	BCK	O	Bit clock output pin.32fs48fsor 64fs selectable by command.
2	LRCK	O	L/R channel clock output pin."L" for L channel and "H" for R channel. Output polarity can be inverted by command.
3	AOUT	O	Audio data output pin. MSB-first or LSB-first selectable by command.
4	DOUT	O	Digital data output pin.Outputs up to double-speed playback.
5	IPF	O	Correction flag output pin. When set to "H" AOUT output cannot be corrected by C2 correction processing.
6	V_{DD3}	-	Digital 3.3V power supply voltage pin.
7	V_{SS3}	-	Digital GND pin.
8	SBOK	O	Subcode Q data CRCC result output pin. "H" level when result is OK.
9	CLCK	O	Subcode P-W data read I/O pin. I/O polarity selectable by command.
10	DATA	O	Subcode P-W data output pin.
11	SFSY	O	Playback frame sync signal output pin.
12	SBSY	O	Subcode block sync signal output pin. "H" level at S1 when subcode sync is detected.
13	HSO	I/O	General-purpose input / output pins.Input port at reset.
14	UHSO		
15	PV_{DD3}	-	PLL-only 3.3V power supply voltage pin.
16	PDO	O	EFM and PLCK phase difference signal output pin.

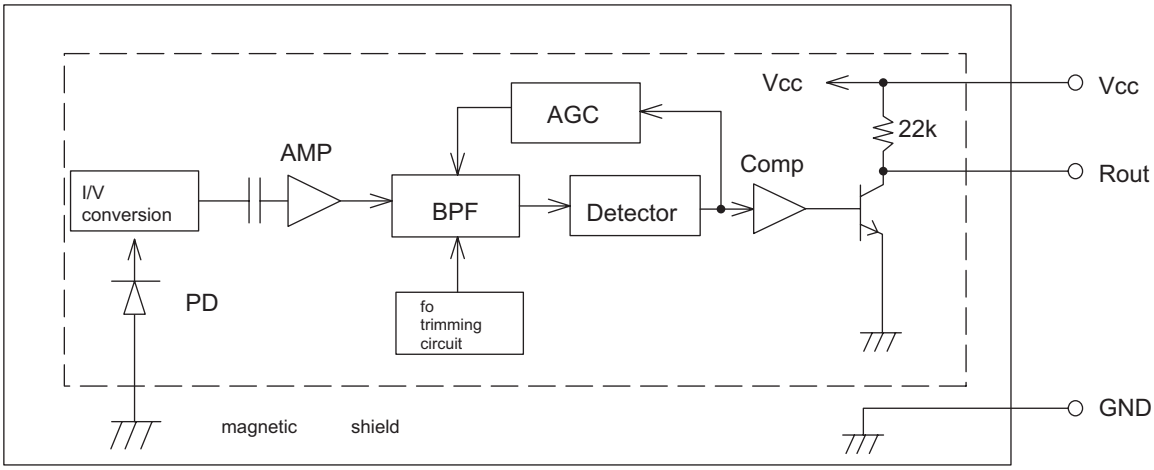
Pin No	Symbol	I/O	Descroption
17	TMAX	O	TMAX detection result output pin. TMAX Detection Result / TMAX Output Longer than fixed period / "PV_{DD3}" Within fixed period / "HiZ" Shorter than fixed period / "AV_{SS3}"
18	LPFN	I	Inverted input pin for PLL LPF amp.
19	LPFO	O	Output pin for PLL LPF amp.
20	PVREF	-	PLL-only VREF pin.
21	VCOF	O	VCO filter pin.
22	AV_{SS3}	-	Analog GND pin.
23	SLCO	O	DAC output pin for data slice level generation.
24	RFI	I	RF signal input pin. Zin selectable by command.
25	AV_{DD3}	-	Analog 3.3V power supply voltage pin.
26	RFCT	I	RFRP signal center level input pin.
27	RFZI	I	RFRP signal zero-cross input pin.
28	RFRP	I	RF ripple signal input pin.
29	FEI	I	Focus error signal input pin.
30	SBAD	I	Sub-beam adder signal input pin.
31	TEI	I	Tracking error input pin. Inputs when tracking servo is on.
32	TEZI	I	Tracking error signal zero-cross input pin.
33	FOO	O	Focus equalizer output pin.
34	TRO	O	Tracking equalizer output pin.
35	VREF	-	Analog reference power supply voltage pin.
36	RFGC	O	RF amplitude adjustment control signal output pin.
37	TEBC	O	Tracking balance control signal output pin.
38	SEL	O	APC circuit ON/OFF signal output pin. At laser on, high impedance with UHS="L", H output with UHS="H".
39	AV_{DD3}	-	Analog 3.3V power supply voltage pin.
40	FMO	O	Feed equalizer output pin.
41	DMO	O	Disc equalizer output pin.
42	V_{SS3}	-	Digital GND pin.
43	V_{DD3}	-	Digital 3.3V power supply voltage pin.
44	TESIN	I	Test input pin. Normally, fixed to "L".
45	XV_{SS3}	-	System clock oscillator GND pin.
46	XI	I	System clock oscillator input pin.
47	XO	O	System clock oscillator output pin.
48	XV_{DD3}	-	System clock oscillator 3.3V power supply voltage pin.
49	$DV_{SS3}R$	-	DA converter GND pin.
50	RO	O	R-channel data forward output pin.
51	DV_{DD3}	-	DA converter 3.3V power supply pin.
52	DVR	-	Reference voltage pin.
53	LO	O	L-channel data forward output pin.
54	$DV_{SS3}L$	-	DA converter GND pin.
55	ZDET	O	1 bit DA converter zero detection flag output pin.
56	V_{SS5}	-	Microcontroller interface GND pin.
57	BUS0		
58	BUS1	I/O	Microcontroller interface data I/O pins.
59	BUS2		
60	BUS3		
61	BUCK	I	Microcontroller interface clock input pin.
62	/CCE	I	Microcontroller interface chip enable signal input pin.At "L", BUS0 to BUS3 are active.
63	/RST	I	Reset signal input pin. At reset, "L".
64	V_{DD5}	-	Microcontroller interface 5V power supply pin.

4.8 RPM6938-SV4 (IC602) : Remote sensor

• Pin diagram

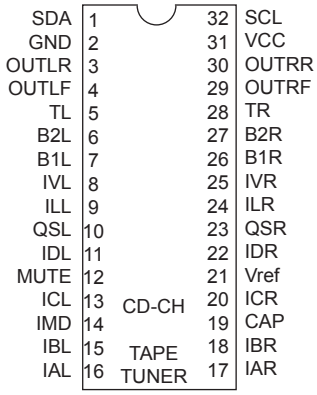


• Block diagram

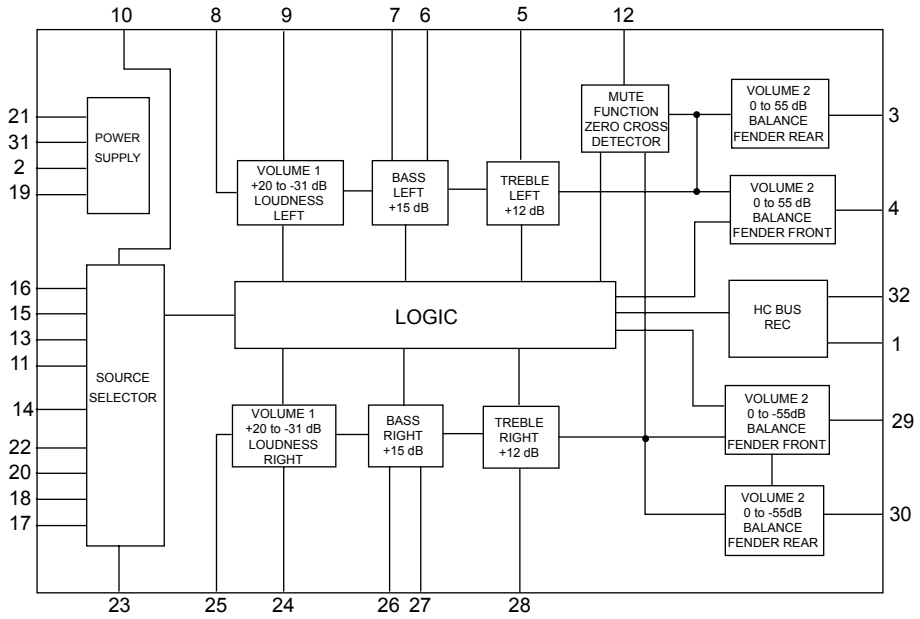


4.9 TEA6320T-X (IC301) : E.volume

• Pin layout



• Block diagram



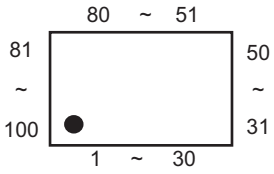
• Pin functions

Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.
2	GND	-	Ground.
3	OUTLR	O	output left rear.
4	OUTLF	O	output left front.
5	TL	I	Treble control capacitor left channel or input from an external equalizer.
6	B2L	-	Bass control capacitor left channel or output to an external equalizer.
7	B1L	-	Bass control capacitor left channel.
8	IVL	I	Input volume 1. left control part.
9	ILL	I	Input loudness. left control part.
10	QSL	O	Output source selector. left channel.
11	IDL	-	Not used
12	MUTE	-	Not used
13	ICL	I	Input C left source.
14	IMO	-	Not used
15	IBL	I	Input B left source.
16	IAL	I	Input A left source.

Pin No.	Symbol	I/O	Functions
17	IAR	I	Input A right source.
18	IBR	I	Input B right source.
19	CAP	-	Electronic filtering for supply.
20	ICR	I	Input C right source.
21	Vref	-	Reference voltage (0.5Vcc)
22	IDR	-	Not used
23	QSR	O	Output source selector right channel.
24	ILR	I	Input loudness right channel.
25	IVR	I	Input volume 1. right control part.
26	B1R	-	Bass control capacitor right channel
27	B2R	O	Bass control capacitor right channel or output to an external equalizer.
28	TR	I	Treble control capacitor right channel or input from an external equalizer.
29	OUTRF	O	Output right front.
30	OUTRR	O	Output right rear.
31	Vcc	-	Supply voltage.
32	SCL	I	Serial clock input.

4.10 UPD178078GF-621 (IC701) : System CPU

• Pin layout



• Pin function

Pin No.	Symbol	I/O	Function
1~8	NC	-	No use
9	VOL-DA	I/O	VOL IC communication line
10	VOL-CLK	O	VOL IC communication line
11	NC	-	No use
12	LCD-DA	O	LCD driver communication line
13	LCD-CLK	O	LCD driver communication line
14,15	NC	-	No use
16	LCD-CE	O	LCD driver communication line
17	SW2	I	CD mechanism switch
18	PSW	I	CD mechanism switch
19	LED RED	O	Red led lighting control
20	LED BLUE	O	Blue led lighting control
21	VOL-1	I	Encoder input
22	VOL-2	I	Encoder input
23	KEY0	I	Key input
24	KEY1	I	Key input
25	KEY2	I	Key input
26	LEVEL	I	Audio level input
27	AVDD	-	Power supply
28	SM	I	Signal level meter input
29	NC	-	No use
30	DOOR SW	I	Door open switch
31	NC	-	No use
32	AVSS	-	Ground
33	REGCPU	-	---
34	VDD	-	Power supply
35	REGOSC	-	---
36	X2	-	System clock
37	X1	I	System clock
38	GND0	-	Ground
39	SD/ST	I	Station detector & Stereo indicator
40	GND2	-	Ground
41	NC	-	No use
42	IFC	I	IF count input
43	VDDPLL	-	Power supply
44	OSC INPUT	I	FM, AM OSC input
45	NC	-	No use
46	GNDPLL	-	Ground
47	AM E.OUT	O	PLL error output for AM

Pin No.	Symbol	I/O	Function
48	FM E.OUT	O	PLL error output for FM
49	IC(VPP)	-	Setting to write for flash
50	RESET	I	System reset
51	SW1	I	CD mechanism switch
52	REMOCON	I	Remocon input
53,54	NC	-	No use
55	POWER	O	Power control
56	CD-ON	O	CD power control
57	MUTING	O	Muting control
58	STAGE1	I	Setting for destination
59	BUZZER	O	Buzzer output
60	STAGE2	I	Setting for destination
61~67	NC	-	No use
68	CD-RW	O	RF gain control L = CD-RW, H = CD-DA
69	LM	O	Disc loading and ejecting control
70	MOTOR SEL	O	Motor select
71	BUCK	O	Clock output for CD LSI
72	CCE	O	CE output for CD LSI
73	BUS0	I/O	Data output and input 0 for CD LSI
74	BUS1	I/O	Data output and input 1 for CD LSI
75	BUS2	I/O	Data output and input 2 for CD LSI
76	BUS3	I/O	Data output and input 3 for CD LSI
77	RST	O	CD LSI communication line
78	PS1	I	ACC detection input
79	PS2	I	Memory detection
80	DETACH	I	Detach detection
81	NC	-	No use
82	GND1	-	Ground
83	MONO	O	Mono by force
84	SEEK/STOP	O	Switching SEEK & STOP
85	FM/AM	O	Band switch
86,87	NC	-	Not use
88	DIMMER IN	I	Dimmer in
89	ANTENNA	O	Antenna control output
90	IFC CONT	O	IF out control
91	UNLOCK	O	PLL unlock monitor output
92~97	NC	-	Not use
98	DIMMER OUT	O	Dimmer control output
99	VDDPORT	-	Power supply
100	GNDPORT	-	Ground

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY MOBILE ENTERTAINMENT CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.49861)

Printed in Japan
WPC

PARTS LIST

[KD-S797]

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

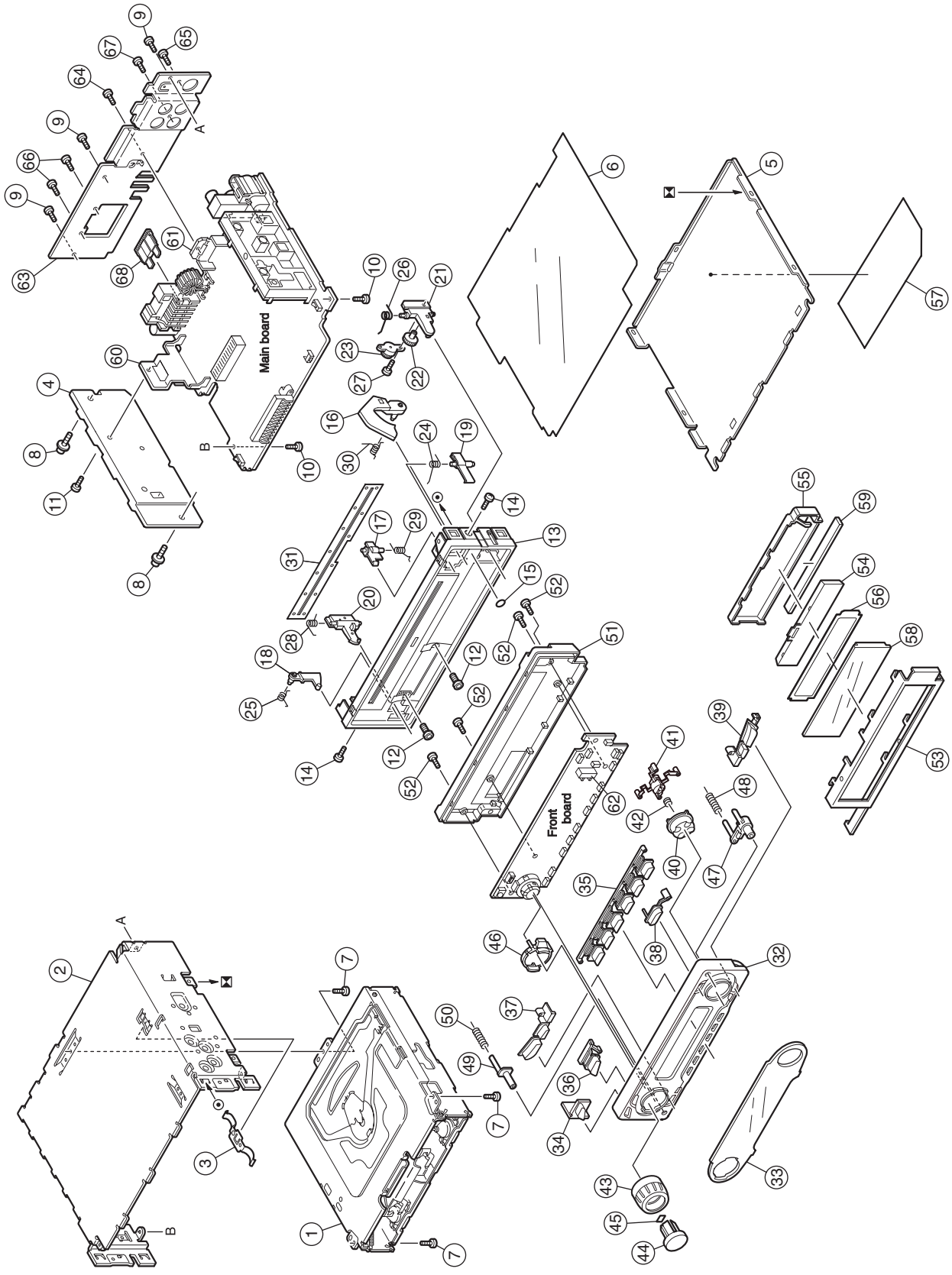
Area suffix

UR ---------- Brazil

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M



General assembly

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

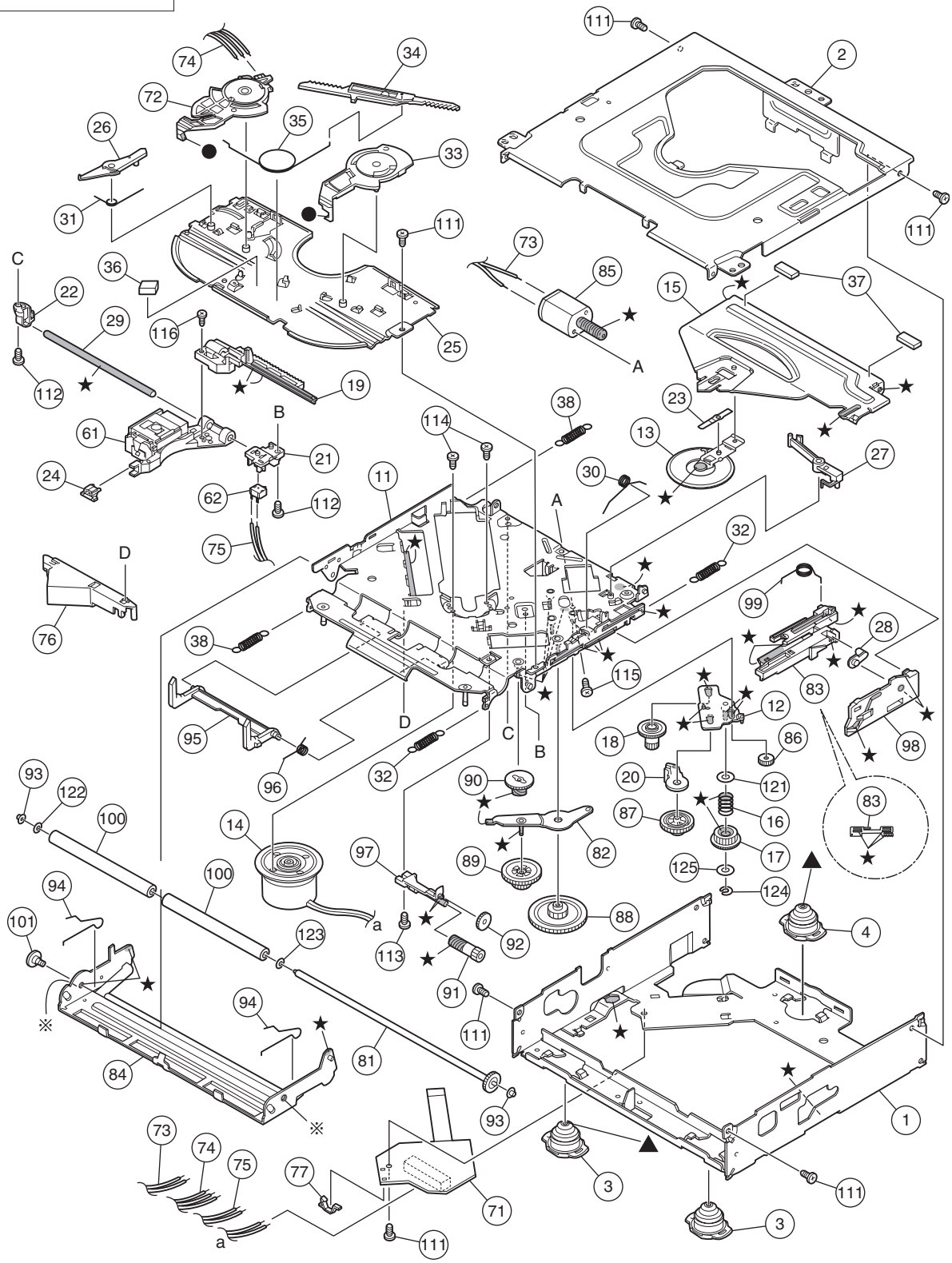
⚠ Symbol No.	Part No.	Part Name	Description	Local
1	----------	CD MECHA		
2	GE10043-210A	TOP CHASSIS		
3	GE40135-001A	EART PLATE		
4	GE30938-003A	HEAT SINK		
5	GE30393-002A	BOTTOM COVER		
6	FSMA3005-001	INSULATOR		
7	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
8	FSKZ4005-001	SCREW	(x2)	
9	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
10	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)	
11	QYSDST2610Z	SCREW	2.6mm x 10mm	
12	QYSDSF2006M	SCREW	2mm x 6mm(x2)	
13	GE30823-002A	F. CHASSIS ASSY		
14	QYSDST2004M	MINI SCREW	2mm x 4mm(x2)	
15	FSYH4036-046	SHEET		
16	GE30827-001A	OPEN LEVER		
17	GE30824-002A	LOCK LEVER(O.L)		
18	GE30826-001A	RELEASE LEVER		
19	GE30829-001A	LOCK LEVER(TOP)		
20	GE30825-001A	LOCK LEVER(L)		
21	GE30828-001A	LOCK LEVER(R)		
22	GE40154-001A	GEAR		
23	QZW0108-002	OIL DAMPER		
24	FSKW4012-002	T.SPRING		
25	VKW5264-005	T. SPRING		
26	GE40155-001A	T.SPRING		
27	QYSDSF2006M	SCREW	2mm x 6mm	
28	VKW5263-002	TORS. SPRING		
29	GE40157-001A	T.SPRING		
30	GE40153-001A	T.SPRING		
31	GE40156-001A	BLIND		
32	GE10059-003A	FRONT PANEL		
33	GE30809-011A	FINDER ASSY		
34	GE40163-002A	REMOTE LENS		
35	GE20143-001A	PRESET BUTTON		
36	GE30810-001A	POWER BUTTON		
37	GE30915-001A	PUSH BUTTON (L)		
38	GE30813-001A	D.FUNC BTN UP		
39	GE30916-001A	D.FUNC BTN DOWN		
40	GE30818-001A	NAVI BUTTON		
41	GE30819-001A	NAVI BASE		
42	GE40127-002A	COMP.SPRING		
43	GE30815-002A	VOLUME KNOB		
44	GE30816-002A	SEL BUTTON		
45	FSYH4036-053	SHEET		
46	GE30817-002A	RIM LENS		
47	GE30820-001A	EJECT BUTTON		
48	VKW3001-330	COM. SPRING		
49	GE30812-001A	DETACH BUTTON		
50	VKW3001-330	COM. SPRING		
51	GE10060-002A	REAR COVER		
52	VKZ4777-001	MINI SCREW	(x4)	
53	GE30821-001A	LCD CASE		
54	GE30805-001A	LCD LENS		
55	GE30806-001A	LENS CASE		
56	GE40150-001A	LIGHTING SHEET		
57	----------	NAME PLATE		
58	QLD0256-001	LCD MODULE		
59	QNZ0442-001	LCD CONNECTOR		
60	GE40172-002A	IC BRACKET		
61	GE40124-001A	REG BRACKET		
62	GE30854-001A	LED HOLDER		
63	GE30912-008A	REAR BRACKET		
64	QYSDST2606Z	SCREW	2.6mm x 6mm	
65	QYSDST2606Z	SCREW	2.6mm x 6mm	
66	QYSDSF2606Z	SCREW	2.6mm x 6mm(x2)	
67	QYSDSF2606Z	SCREW	2.6mm x 6mm	
⚠ 68	QMFZ047-150-T	FUSE	15A	

CD mechanism assembly and parts list

Block No. M B M M

TN-2001-1011

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



CD mechanism

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	30320101T	FRAME		
2	30320102T	TOP COVER		
3	30320115T	DANPER F		
4	30320116T	DANPER R		
11	303205505T	CHASSIS RIVET		
12	303205503T	CHANGE P. RVT A		
13	303205301T	CLAMPER ASS'Y		
14	303205302T	SPINDLE MOTOR A		
15	30320502T	CLAMPER ARM		
16	30320503T	CHANGE GEAR SPG		
17	30320505T	CHANGE GEAR 2		
18	30320506T	FEED GEAR		
19	30320507T	FEED RACK		
20	30320509T	CHANGE LOCK RAR		
21	30320510T	FEED SW HOLDER		
22	30320511T	PU SHAFT HOLDER		
23	30320513T	CLAMPER SUB SPG		
24	30320514T	FD SUB HOLDER		
25	30320518T	TOP PLATE		
26	30320519T	SELECT LOCK ARM		
27	30320520T	TRIGGER ARM		
28	30320521T	SLIDE HOOK		
29	30320522T	PU SHAFT		
30	30320525T	CLAMPER ARM SPG		
31	30320526T	SELECT L ARM SP		
32	30320538T	SUSPENSION SP R		
33	30320529T	SELECT ARM R		
34	30320530T	LINK PLATE		
35	30320531T	LINK PLATE SPG		
36	30320523T	CUSHION F		
37	30320524T	CUSHION R		
38	30320539T	SUSPENSION SP L		
61	69011614T	PICKUP OPT-725		
62	64180406T	DET SW ESE22		
71	303210301T	CONN PWB ASS'Y		
72	30321002T	MODE SW		
73	30321003T	LOAD MOTOR WIRE		
74	30321005T	MODE SW WIRE		
75	30321009T	SL WIRE		
76	30321011T	WIRE HOLDER		
77	19501403T	WIRE CLUMPER		
81	303211301T	ROLLER SHAFT AS		
82	303211501T	L GEAR PLATE RV		
83	303211302T	LOADING PLATE A		
84	303211502T	LOCK ARM RV ASS		
85	303211303T	L/F MOTOR ASS'Y		
86	30321101T	LOADING GEAR 1		
87	30321102T	LOADING GEAR 2		
88	30321103T	LOADING GEAR 3		
89	30321104T	LOADING GEAR 4		
90	30321105T	LOADING GEAR 5		
91	30321106T	LOADING GEAR 6		
92	30321107T	LOADING GEAR 7		
93	30321111T	ROLLER GUIDE		
94	30321114T	ROLLER GUIDE SP		
95	30321116T	DISC STOPPER AR		
96	30321117T	DISC ST ARM SPG		
97	30321118T	LD GEAR BRACKET		
98	30321125T	L SIDE PLATE		
99	30321131T	LOAD PLATE SPG		
100	30321133T	LDG ROLLER		
101	18211223T	COLLAR SCREW		
111	9P0420031T	SCREW		
112	9P0420041T	TAP.SCREW		
113	9B0320041T	SCREW		
114	9C0117183T	SCREW		
115	9C0120203T	SCREW		
116	9C0317503T	SCREW		
121	9W0130170T	PW 3.5X8X0.3		
122	9W0513060T	HL WASHER		
123	9W0710070T	L WASHER		
124	9E0100152T	E RING		
125	9W0113020T	PW 2.1X4X0.13		

Electrical parts list

Main board

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC301	TEA6320T-X	IC		
IC351	LA47505	IC		
IC501	TA2157FN-X	RF AMP IC		
IC521	TC94A14FA	CD LSI IC		
IC561	LA6579H-X	BTL DRIVER IC		
IC571	NJM4565M-WE	IC		
IC701	UPD178078GF-621	IC		
IC961	HA13164A	IC		
Q2	UN2211-X	TRANSISTOR		
Q5	2SB709A/R/-X	TRANSISTOR		
Q6	2SB624/4/-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q8	UN2211-X	TRANSISTOR		
Q31	2SD601A/R/-X	TRANSISTOR		
Q32	2SD601A/R/-X	TRANSISTOR		
Q41	2SC3661-X	TRANSISTOR		
Q42	2SC3661-X	TRANSISTOR		
Q351	UN2211-X	TRANSISTOR		
Q372	2SD1781K/QR/-X	TRANSISTOR		
Q472	2SD1781K/QR/-X	TRANSISTOR		
Q501	2SB1241/QR/-T	TRANSISTOR		
Q521	UN2111-X	TRANSISTOR		
Q522	UN2211-X	TRANSISTOR		
Q561	2SB1322/RS/-T	TRANSISTOR		
Q951	2SD601A/R/-X	TRANSISTOR		
Q963	2SB709A/R/-X	TRANSISTOR		
Q964	UN2211-X	TRANSISTOR		
Q976	UN2111-X	TRANSISTOR		
Q977	UN2111-X	TRANSISTOR		
D1	1SS355-X	SI DIODE		
D2	1SS355-X	SI DIODE		
D3	1SS355-X	SI DIODE		
D4	1SS355-X	SI DIODE		
D301	1SS355-X	SI DIODE		
D302	1SS355-X	SI DIODE		
D351	1SS355-X	SI DIODE		
D372	1SS355-X	SI DIODE		
D472	1SS355-X	SI DIODE		
D561	1A3G-T1	SI DIODE		
D701	UDZS6.2B-X	Z DIODE		
D702	UDZS6.2B-X	Z DIODE		
D703	UDZS6.2B-X	Z DIODE		
D704	UDZS6.2B-X	Z DIODE		
D705	UDZS6.2B-X	Z DIODE		
D706	UDZS6.2B-X	Z DIODE		
D707	UDZS6.2B-X	Z DIODE		
D708	UDZS6.2B-X	Z DIODE		
D709	UDZS6.2B-X	Z DIODE		
D710	UDZS6.2B-X	Z DIODE		
D711	UDZS6.2B-X	Z DIODE		
D712	UDZS6.2B-X	Z DIODE		
D713	LNJ308G81/1-3/X	LED		
D714	LNJ308G81/1-3/X	LED		
D715	LNJ308G81/1-3/X	LED		
D951	RB160M-30-X	SB DIODE		
D952	1SS355-X	SI DIODE		
D953	UDZS5.1B-X	Z DIODE		
D960	1N5401-F64	DIODE		
D961	1SS355-X	SI DIODE		
D962	RB160M-30-X	SB DIODE		
D963	RB160M-30-X	SB DIODE		
D976	1SS355-X	SI DIODE		
D977	UDZS11B-X	Z DIODE		
C1	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C2	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C4	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C5	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C7	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C11	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C12	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C15	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C16	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C17	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C31	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C32	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C33	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C34	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C41	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C42	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C43	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C103	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C105	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C203	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C205	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C302	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C303	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C304	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C305	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C306	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C307	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C308	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C309	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C310	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C346	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C347	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C351	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C352	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C353	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C354	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C355	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C356	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C357	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C358	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C359	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C361	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C362	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C364	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C365	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C371	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C402	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C403	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C404	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C405	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C406	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C446	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C447	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C451	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C452	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C453	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C454	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C507	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C512	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C514	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C522	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C523	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C524	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C525	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C526	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C527	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C528	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C529	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C530	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C531	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C533	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C534	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C535	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C536	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C537	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C538	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C539	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C540	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C545	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C546	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C547	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C548	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C549	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C550	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C551	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C552	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C553	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C554	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C555	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C556	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C561	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C563	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C564	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C565	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C566	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C567	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C581	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C582	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C583	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C587	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C588	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C589	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C591	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C592	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C593	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C594	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C596	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C598	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C599	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C698	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C699	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C702	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C703	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C705	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C706	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C707	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C708	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C709	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C710	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C711	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C712	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C713	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C714	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C715	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C716	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C951	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C952	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C953	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C954	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C960	QEZ0622-338	E CAPACITOR	3300uF	
C961	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C962	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C963	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C964	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C965	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C966	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C967	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C968	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C969	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C970	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C975	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C976	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C977	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C981	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C982	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C983	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C991	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C992	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C993	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C994	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C995	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C996	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C997	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C998	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
R1	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R2	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R4	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5	NRSA02J-332X	MG RESISTOR	3.3kΩ 1/10W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R11	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R12	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R13	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R14	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R15	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R31	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R32	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R33	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R34	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R35	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R41	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R42	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R43	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R45	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R101	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R102	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R201	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R202	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R301	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R302	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R303	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R346	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R347	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R351	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R352	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R356	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R357	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R372	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R374	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R376	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R401	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R402	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R403	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R404	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R446	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R447	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R451	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R452	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R472	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R474	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R476	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R503	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R504	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R505	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R506	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R507	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R508	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R509	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R512	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R514	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R516	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R519	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R521	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R522	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R523	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R524	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R527	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R528	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R529	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R531	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R532	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R533	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R534	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R536	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R537	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R539	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R540	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R561	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R562	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R563	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R564	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R566	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R567	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R568	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R569	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R570	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R571	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R572	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R573	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R578	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R579	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R581	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R582	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R583	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R584	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R586	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R591	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R593	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R594	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R595	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R597	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R704	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R705	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R706	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R707	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R710	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R711	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R722	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R725	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R728	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R731	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R732	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R734	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R735	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R736	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R737	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R738	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R744	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R745	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R752	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R754	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R756	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R759	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R760	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R762	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R763	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R764	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R766	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R767	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R769	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R791	NRS181J-181X	MG RESISTOR	180Ω 1/8W J	
R893	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R951	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R952	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R953	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R954	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R955	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R956	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R957	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R958	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R961	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R962	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R963	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R966	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R967	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R968	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R969	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L521	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L522	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L523	QQL244J-470Z	COIL	47uH J	
L524	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L701	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L702	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L961	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QNZ0605-001	CAR CONNECTOR		
CN901	QNZ0611-001	16P CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
J931	QNN0519-001	PIN JACK		
S701	QSW0451-001	DETECT SW		
S702	QSW0451-001	DETECT SW		
S703	QSQ1A11-V06Z	TACT SW I/M		
TU1	QAU0281-001	TUNER PACK		
X521	QAX0741-001Z	CRYSTAL	16.934MHz	
X701	QAX0406-001Z	CRYSTAL	4.500MHz	

Front board

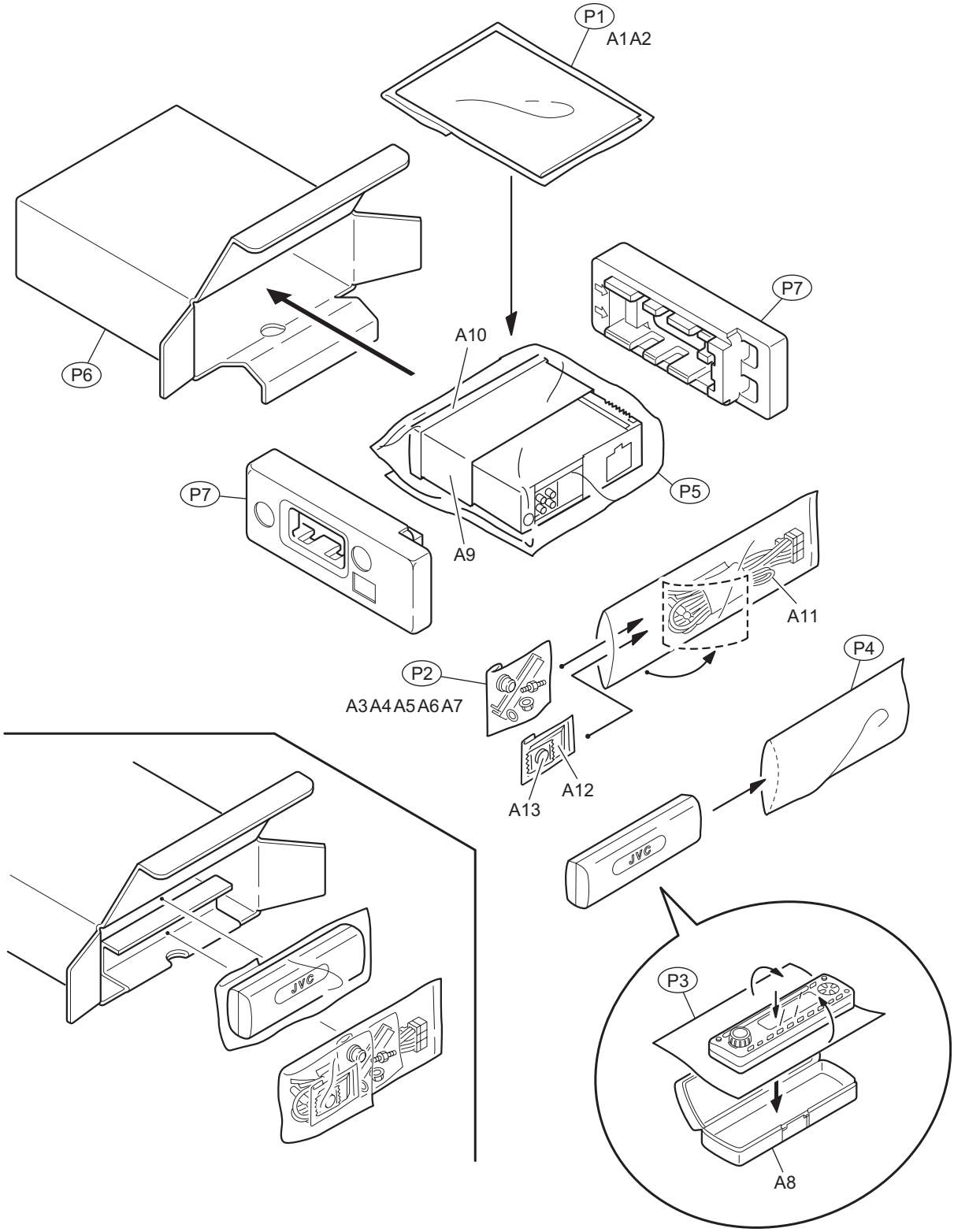
Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PT6523LQ	IC		
IC602	RPM6938-SV4	REMOCON RCV		
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310VT/JK/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D613	SML-310VT/JK/-X	LED		
D614	SML-310VT/JK/-X	LED		
D615	SML-310VT/JK/-X	LED		
D616	SML-310VT/JK/-X	LED		
D617	SML-310VT/JK/-X	LED		
D619	SML-310VT/JK/-X	LED		
D620	SML-310VT/JK/-X	LED		
D621	SML-310VT/JK/-X	LED		
D622	SML-310VT/JK/-X	LED		
D623	SML-310VT/JK/-X	LED		
D624	SML-310VT/JK/-X	LED		
D625	SML-310LT/MN/-X	LED		
D641	UDZS5.1B-X	Z DIODE		
D643	1SS355-X	SI DIODE		
D644	NSPW310BS/BRS/	LED		
D645	NSPW310BS/BRS/	LED		
D646	UDZS6.2B-X	Z DIODE		
C601	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C602	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C611	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C612	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R612	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R613	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R614	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R615	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R631	NRS181J-821X	MG RESISTOR	820Ω 1/8W J	
R632	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R633	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R634	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R635	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R636	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R637	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R638	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R639	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R640	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R641	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R642	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R643	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R644	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R645	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	
R646	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R647	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R648	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R649	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R651	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R652	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R659	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R660	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R661	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R662	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R672	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R681	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CN601	NNZ0087-001	CAR CONNECTOR		
EN601	QSW0793-001	ROTARY ENCODER		
S601	NSW0066-001X	TACT SW		
S602	NSW0066-001X	TACT SW		
S603	NSW0066-001X	TACT SW		
S604	NSW0066-001X	TACT SW		
S605	NSW0066-001X	TACT SW		
S606	NSW0066-001X	TACT SW		
S607	NSW0066-001X	TACT SW		
S608	NSW0066-001X	TACT SW		
S609	NSW0066-001X	TACT SW		
S610	NSW0066-001X	TACT SW		
S611	NSW0066-001X	TACT SW		
S612	NSW0066-001X	TACT SW		
S613	NSW0066-001X	TACT SW		
S614	NSW0066-001X	TACT SW		
S615	NSW0066-001X	TACT SW		
S616	NSW0066-001X	TACT SW		
S617	NSW0066-001X	TACT SW		

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	----------	INST.BOOK		
A 2	----------	INSTALL MANUAL		
A 3	VKZ4027-202	PLUG NUT		
A 4	VKH4871-001SS	MOUNT BOLT		
A 5	VKZ4328-001	LOCK NUT		
A 6	WNS5000Z	WASHER		
A 7	GE40130-001A	HOOK	(x2)	
A 8	FSJB3002-00E	HARD CASE		
A 9	GE20137-003A	MOUNTING SLEEVE		
A 10	GE20149-003A	TRIM PLATE		
A 11	QAM0089-001SSF	16P CORD ASSY		
A 12	RM-RK60	REMOCON UNIT		
A 13	----------	BATTERY		
P 1	----------	POLY BAG		
P 2	----------	POLY BAG		
P 3	----------	SHEET		
P 4	----------	POLY BAG		
P 5	----------	POLY BAG		
P 6	----------	CARTON		
P 7	----------	EPS CUSHION		