JVC

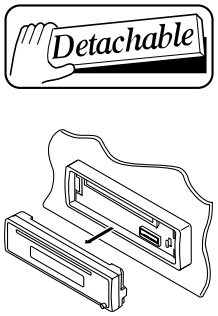
SCHEMATIC DIAGRAMS

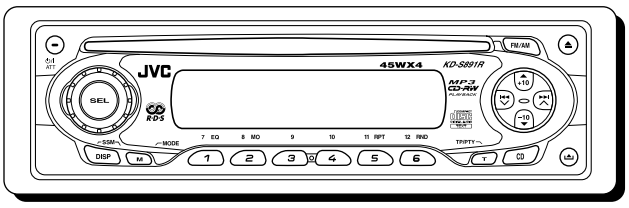
CD RECEIVER

KD-S891R

CD-ROM No.SML200307

Area suffix
E ---------- Continental Europe
EX ---------- Central Europe





COMPACT disc DIGITAL AUDIO TEXT

R·D·S

MP3 CD-RW PLAYBACK

Contents

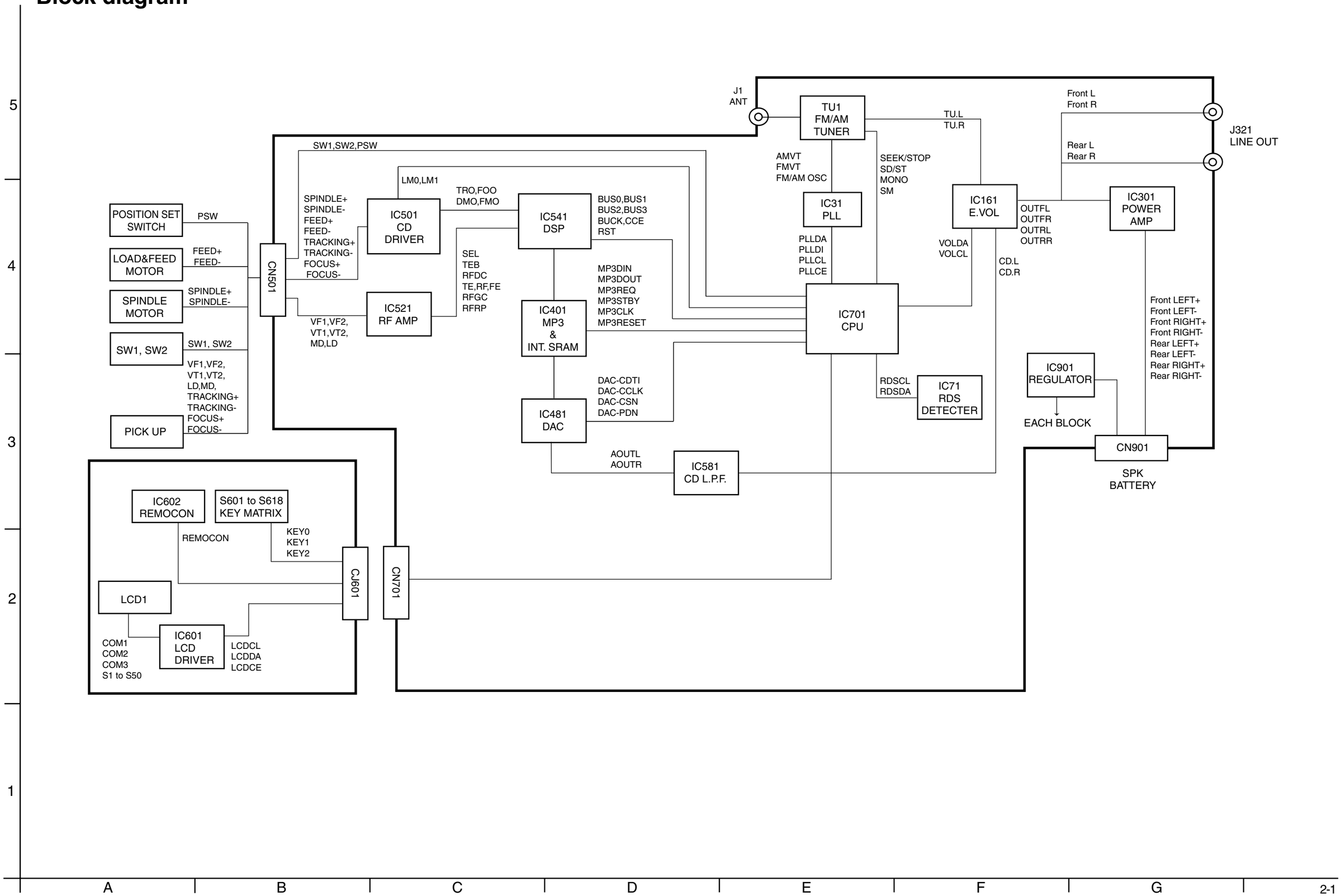
No.49876SCH
2003/7

Safety precaution

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of 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)
3. COMPONENTS IN ( ) INDICATE NOT USE.

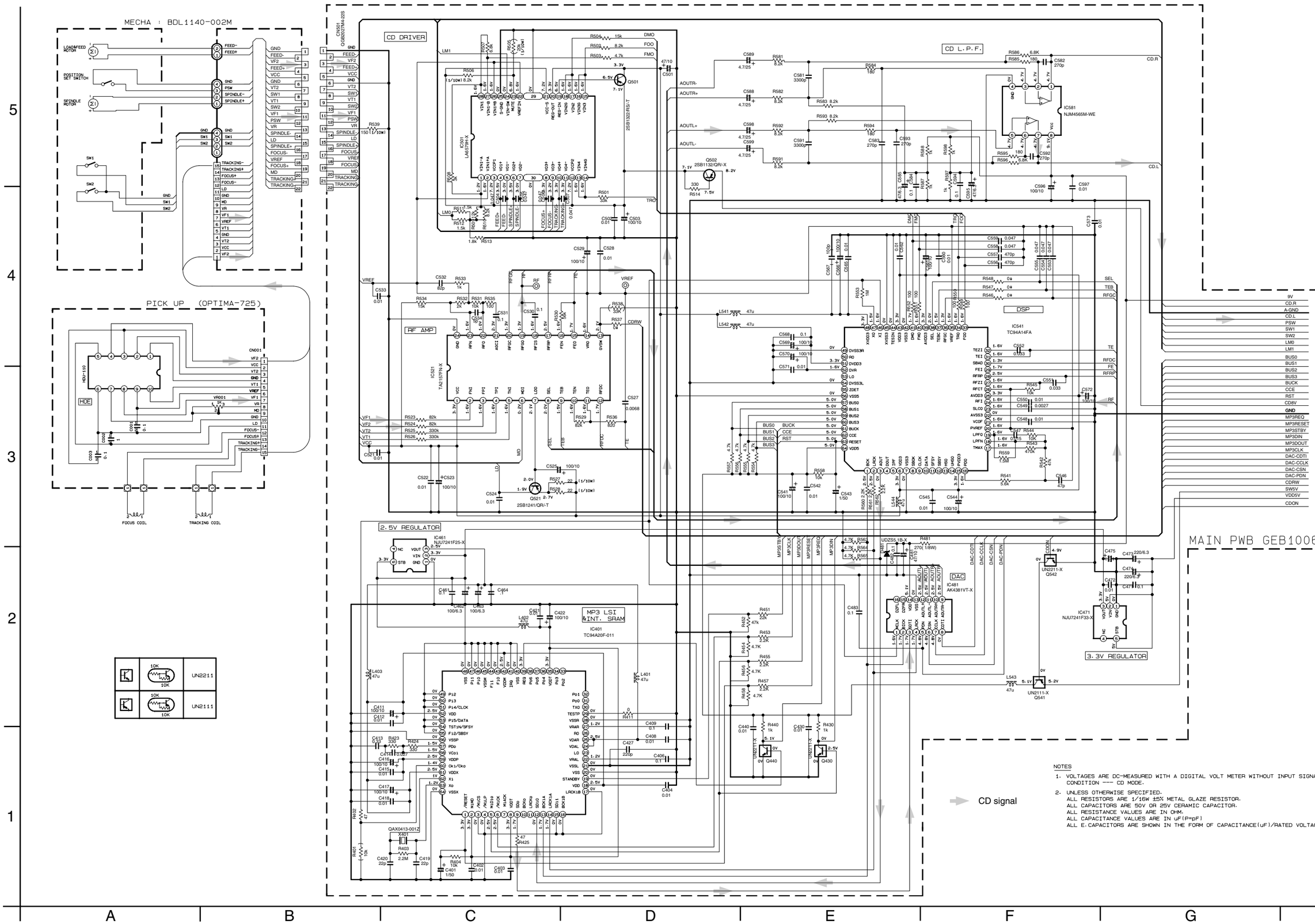
FM/AM TUNER TU1 QAU0292-001
PLL IC31 TB2118F-X
FM/AM SW.
RDS DETECTER IC71 SAA6579T-X
LEVEL METER
E. VOLUME IC161 TEA6320T-X
POWER AMP. IC301 LA4743K
LINE OUT MUTING
SQ
CPU IC701 UPD784217AGC199
EPROM IC771 BR24L16F-W-X
REGULATOR IC901 AN80T07
RESET IC702 IC-PST600M/G/-W
LINE OUTPUT J321 QNN0489-001
POWER CORD ASSY QAM0175-002
F1 QMFZ047-150-T FUSE 15A
IC801 HD74HC126FP-X
J801 QNZ0095-001 CHANGER CONTROL
CN701 VMC0334-001
To CD servo control section CJ601
To LCD & Key control section CJ601
D701 - D709 UDZS6.2B-X
D712 - D713 UDZS6.2B-X
NOT USE
JVC BUS
MEMORY.IN
QAX0617-001Z
QAX0401-001
MAIN PWB GEB10062A

Tuner signal
CD signal
Front signal
Rear signal

	10K 10K	UN2211
	10K 10K	UN2111

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

■ CD servo control section



NOTES

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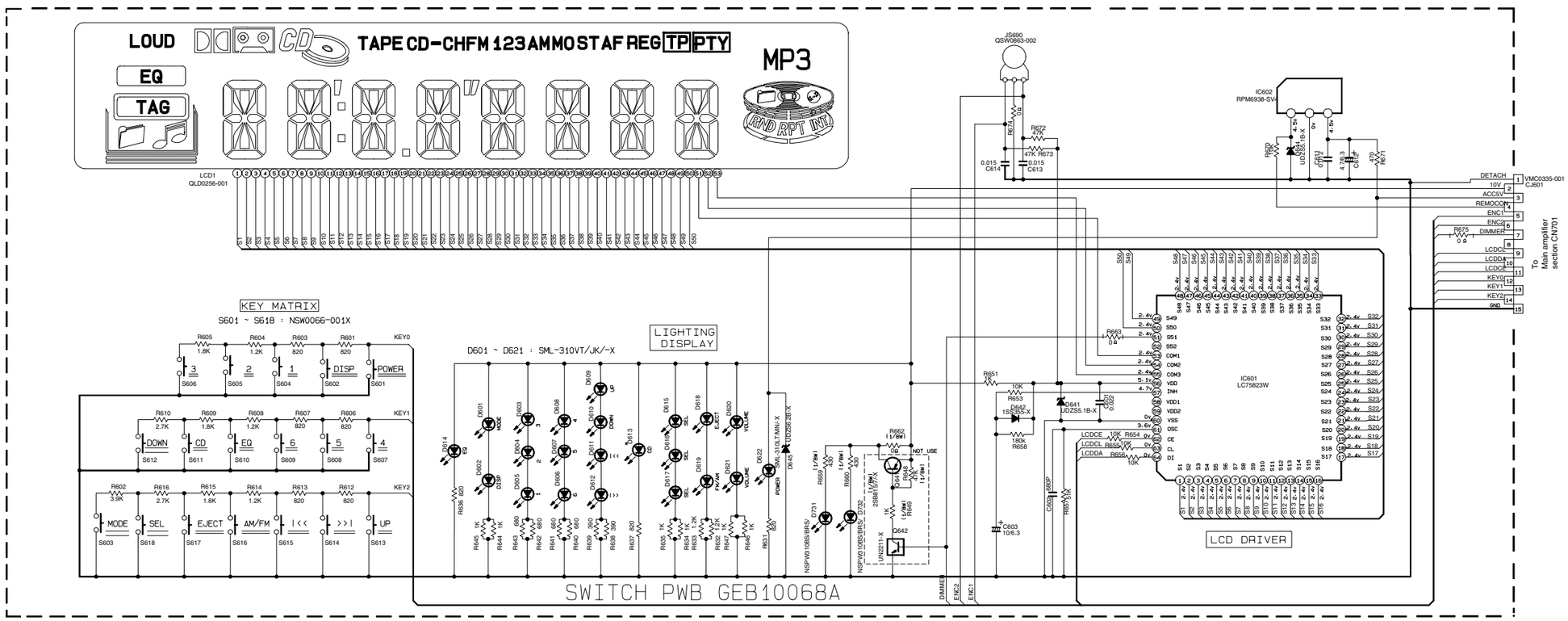
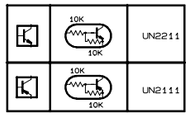
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

■ LCD & Key control section



FRONT CIRCUIT BOARD SECTION



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/16W ±5% METAL GLAZE RESISTOR.
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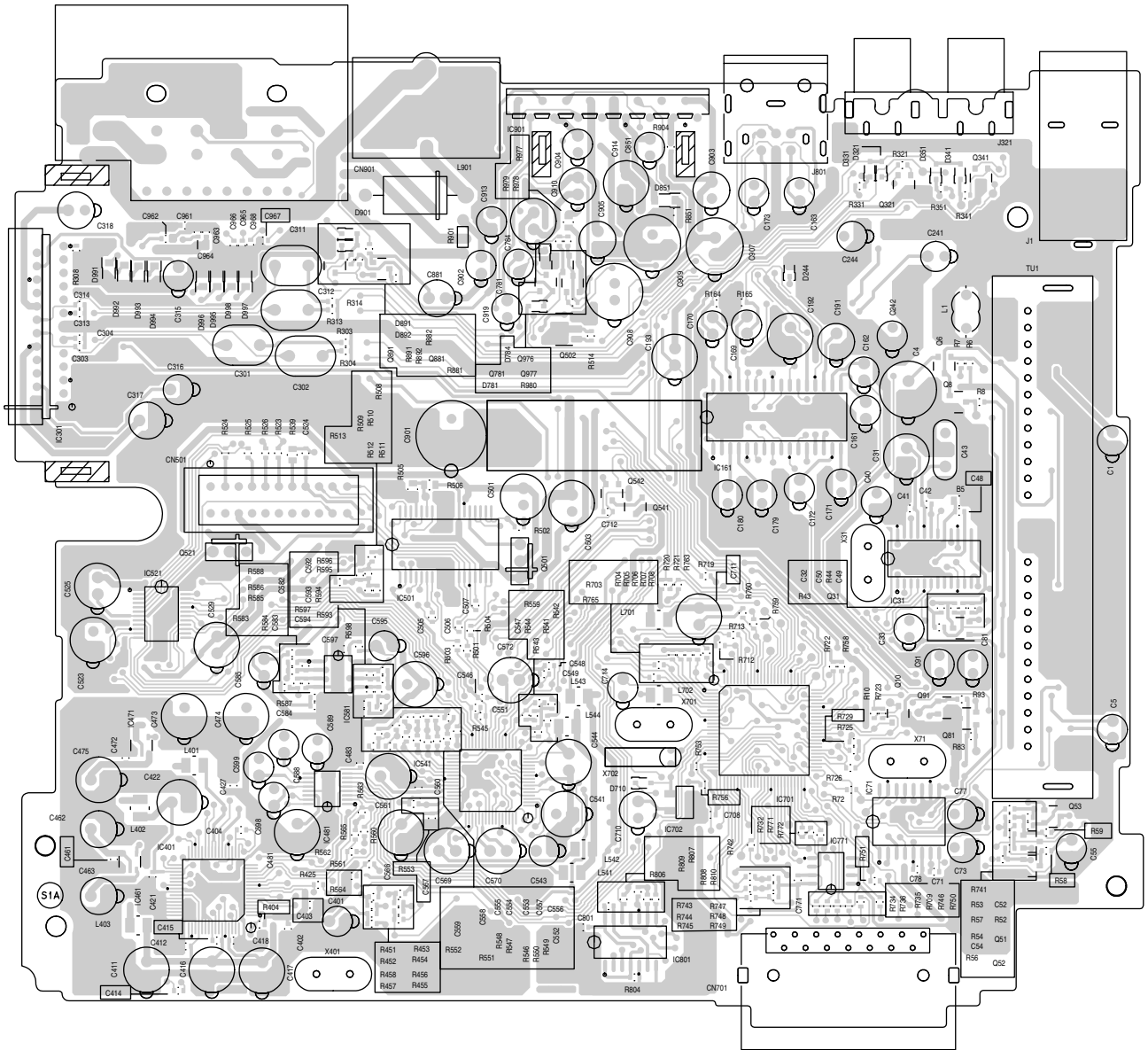
   MM --- TANTAL CAPACITOR.

Printed circuit boards

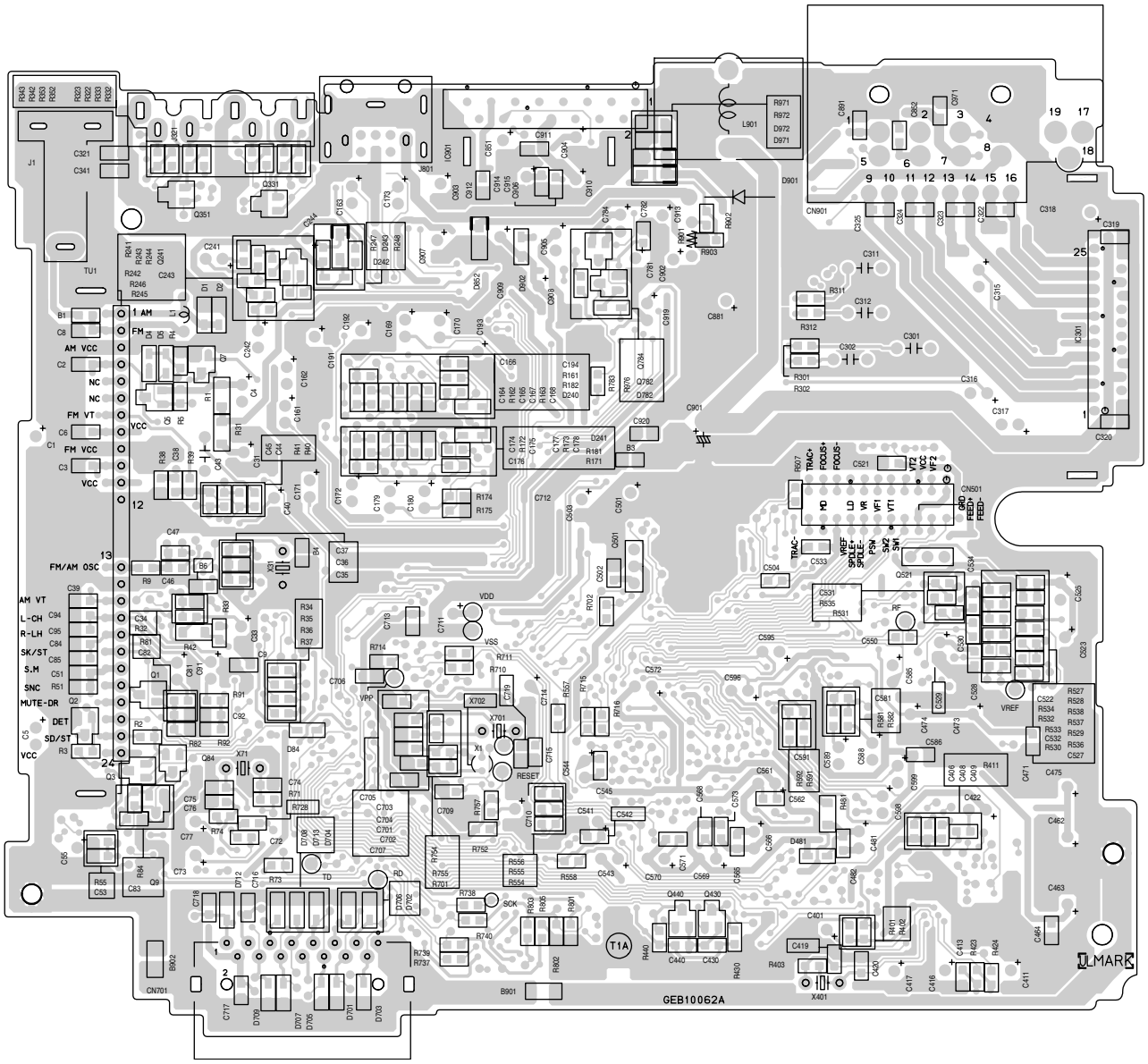
■ Main board

Forward side



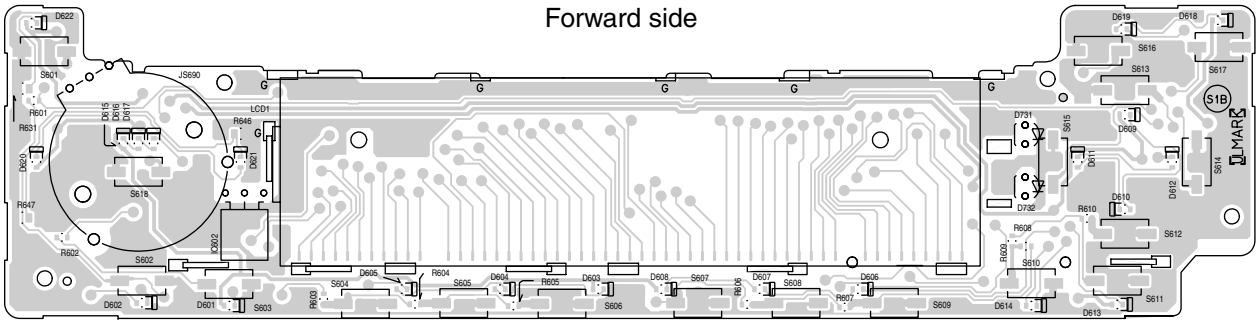
■ Main board

Reverse side

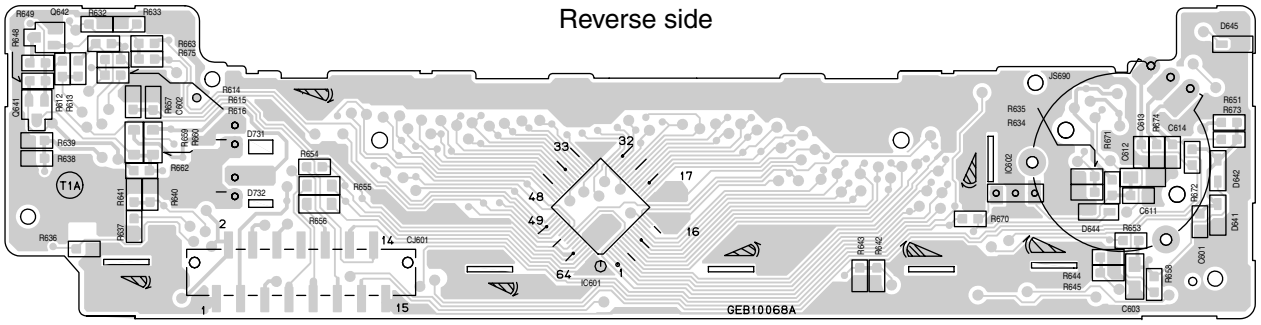


■ Front board

Forward side



Reverse side



JVC

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

(No.49876SCH)

Printed in Japan
WPC

JVC

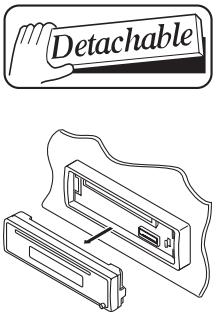
SERVICE MANUAL

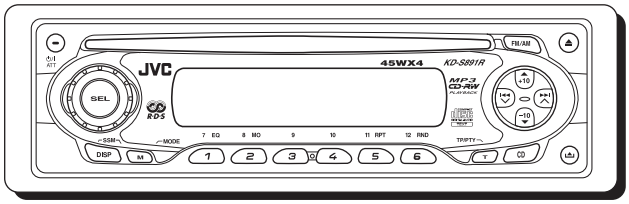
CD RECEIVER

KD-S891R

Area suffix

E ---------- Continental Europe
EX ---------- Central Europe





COMPACT disc DIGITAL AUDIO TEXT

R·D·S

MP3 CD-RW PLAYBACK

TABLE OF CONTENTS

No.49876
2003/7

SPECIFICATION

AUDIO AMPLIFIER SECTION	Maximum Power Output	Front	45 W per channel	
		Rear	45 W per channel	
	Continuous Power Output (RMS)	Front	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.	
		Rear	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.	
	Load Impedance	4 Ω (4 Ω to 8 Ω allowance)		
	Tone Control Range	Bass	±10 dB at 100 Hz	
		Treble	±10 dB at 10 kHz	
		Frequency Response	40 Hz to 20 000 Hz	
		Signal-to-Noise Ratio	70 dB	
		Line-Out Level/Impedance	2.0 V/20 kΩ load (full scale)	
	Output Impedance	1 kΩ		
TUNER SECTION	Frequency Range	FM	87.5 MHz to 108.0 MHz	
		AM	(MW) 522 kHz to 1 620 kHz	
			(LW) 144 kHz to 279 kHz	
	[FM Tuner]	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)	
		50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)	
	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 μV	
		Sensitivity	35 dB	
	[LW Tuner]	Sensitivity	50 μV	
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	MPEG1/2 Audio Layer 3		
	Max. Bit Rate	320 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	
		Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
			Panel Size (approx.)	188 mm × 58 mm × 11 mm
		Mass (approx.)	1.3 kg (excluding accessories)	

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

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

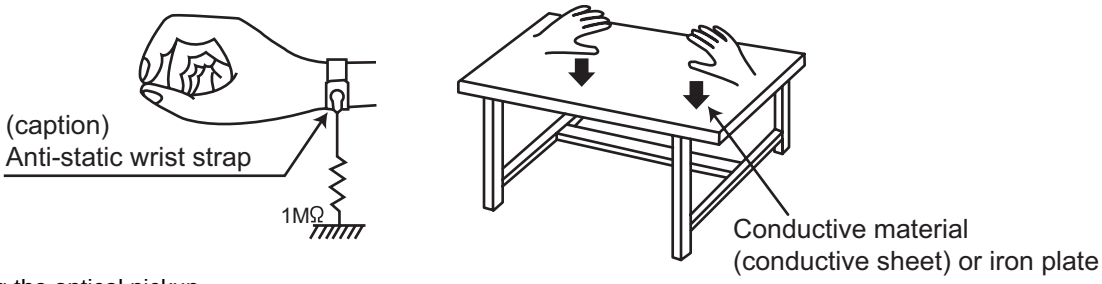
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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 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.

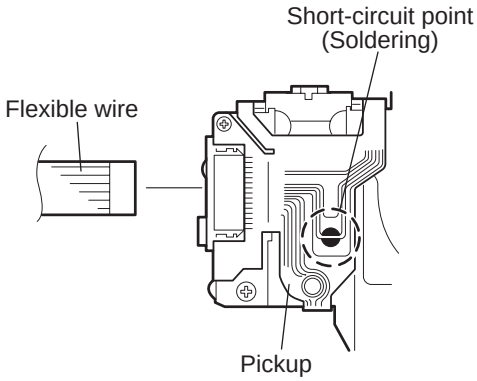
1.3 Handling the traverse unit (optical pickup)

(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 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
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) Press the release button and remove the front panel assembly.

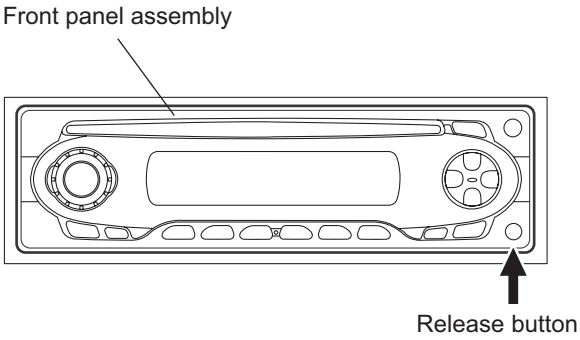


Fig.1

3.1.2 Removing the front chassis assembly (See Figs.2 to 3)

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

(1) Remove the screw **A** on the left side of the main body.
(2) Release the two joints **a** and two joints **b** on both sides of the main body.
(3) Release the two joints **c** on the bottom side of the main body and remove the front chassis assembly in the direction of the arrow.

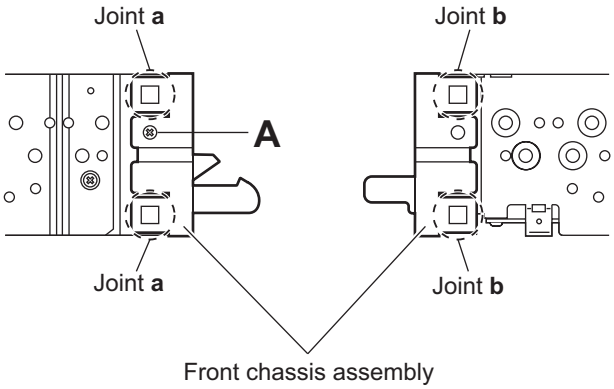


Fig.2

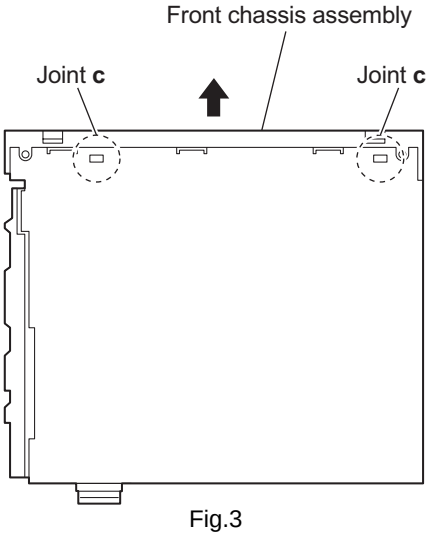


Fig.3

3.1.3 Removing the heat sink (See Fig.4)

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

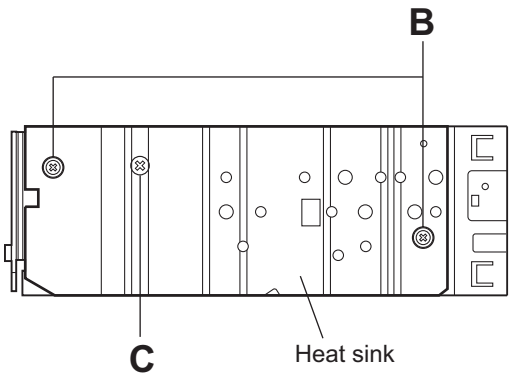


Fig.4

3.1.4 Removing the bottom cover (See Figs.5)

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

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

CAUTION:

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

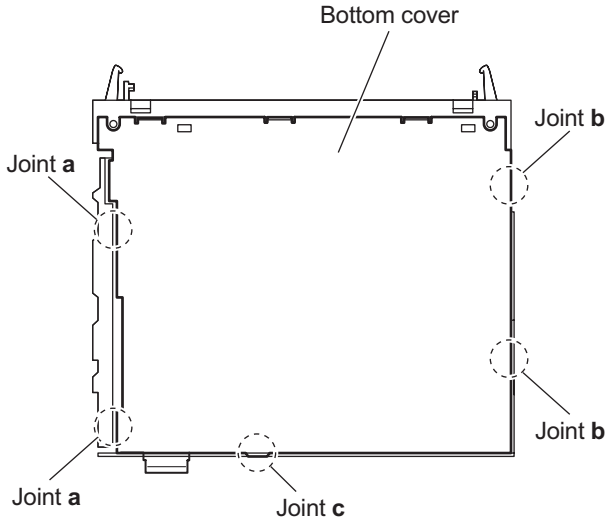


Fig.5

3.1.5 Removing the rear bracket (See Fig.6)

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

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

(2) Remove the rear bracket.

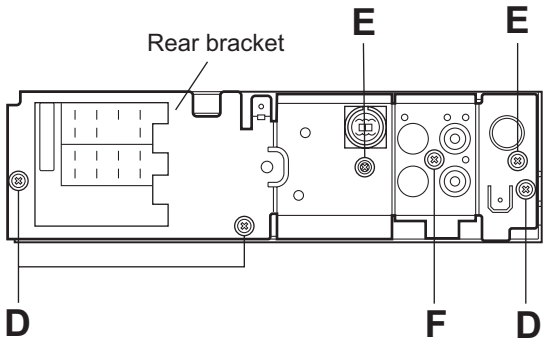


Fig.6

3.1.6 Removing the main board (See Fig.7)

- 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 **G** attaching the main board.
  (2) Disconnect the connector CN501 and remove the main board.

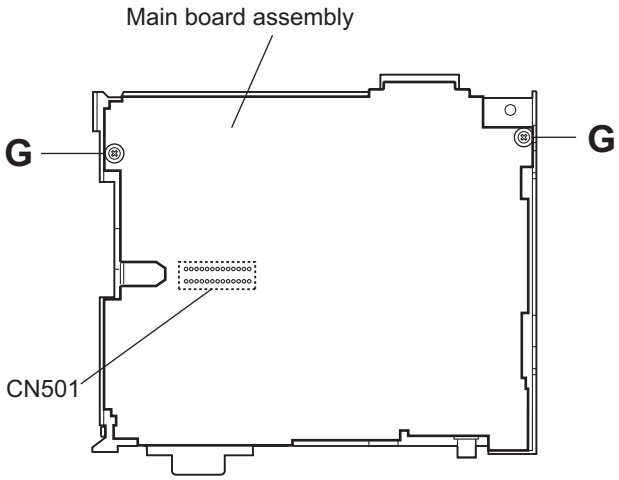


Fig.7

3.1.7 Removing the CD mechanism assembly (See Fig.8)

- 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 **H**.

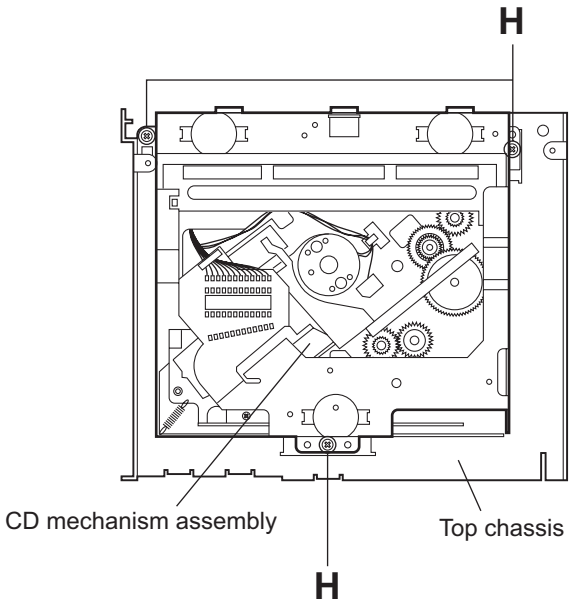


Fig.8

3.1.8 Removing the front board (See Figs.9 to 11)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **J** on the back side of the front panel assembly.
  (2) Release the fourteen joints **g**.
  (3) Release the joint **h** and take out the front board.

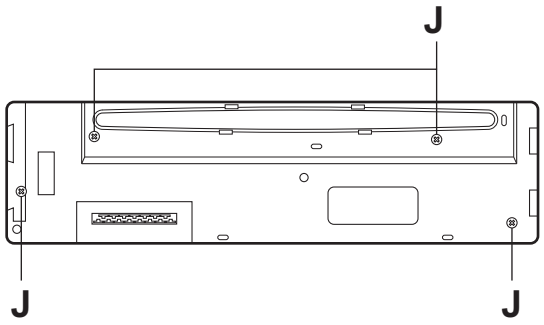


Fig.9

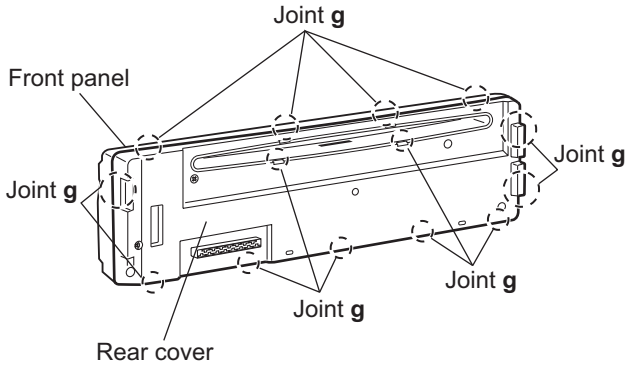


Fig.10

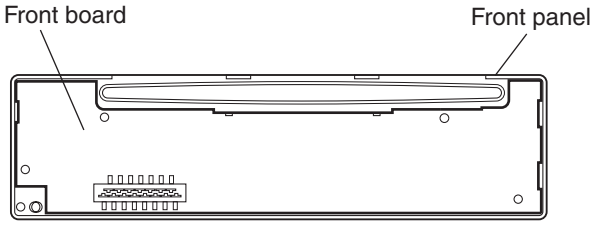


Fig.11

3.2 CD Mechanism Assembly

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

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

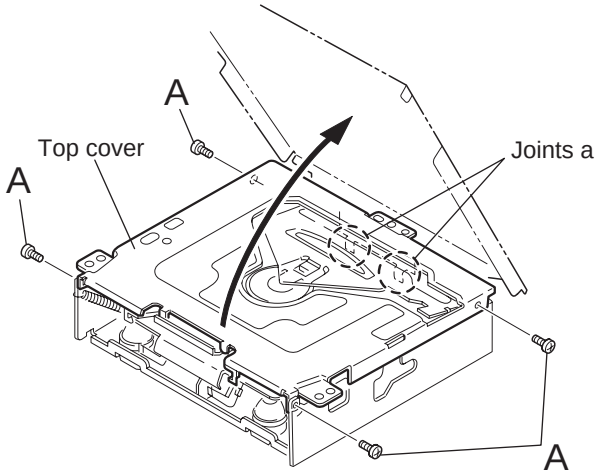


Fig.1

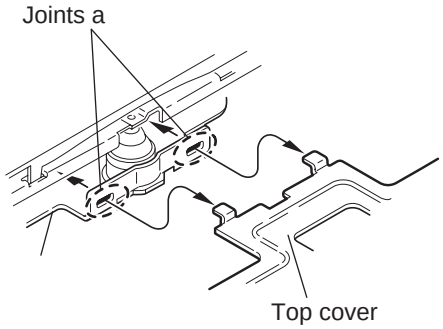


Fig.2

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

CAUTION:

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

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

CAUTION:

Unsolder the short-circuit point after reassembling.

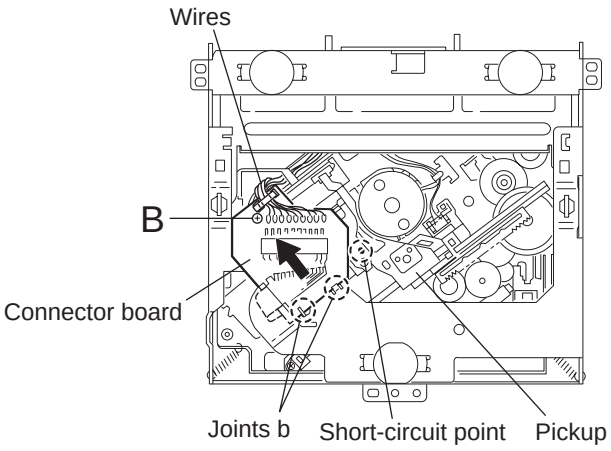


Fig.3

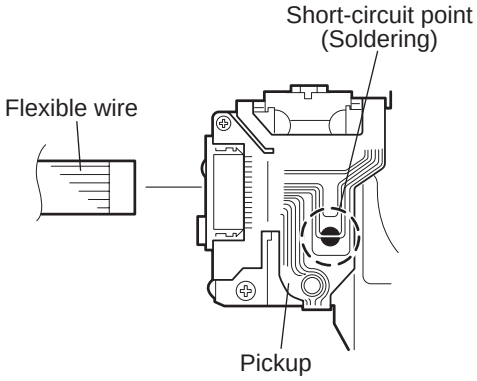


Fig.4

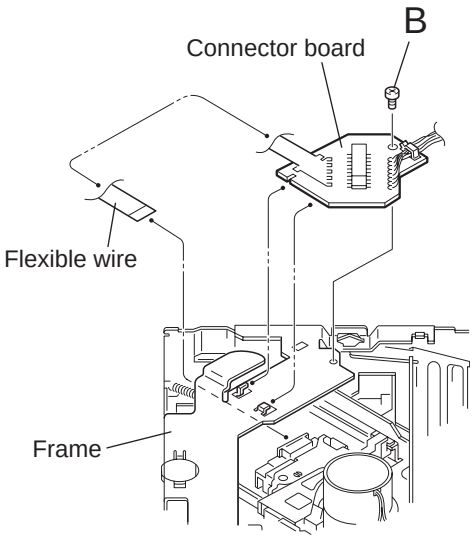


Fig.5

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.

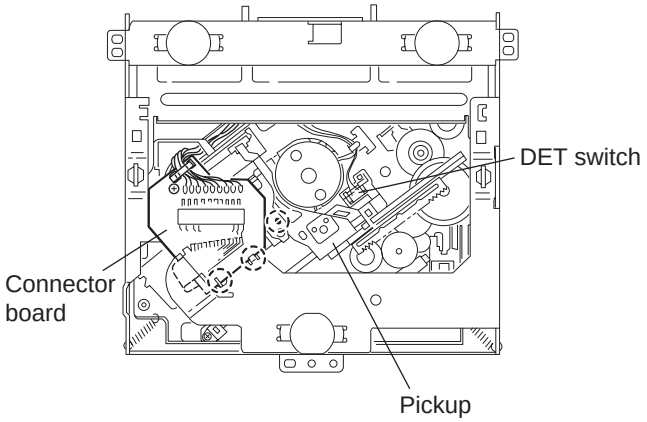


Fig.6

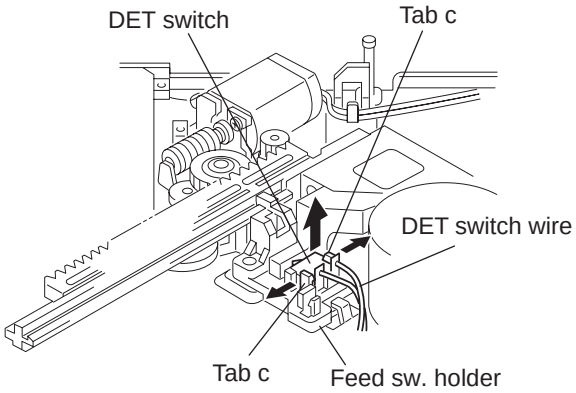


Fig.7

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.

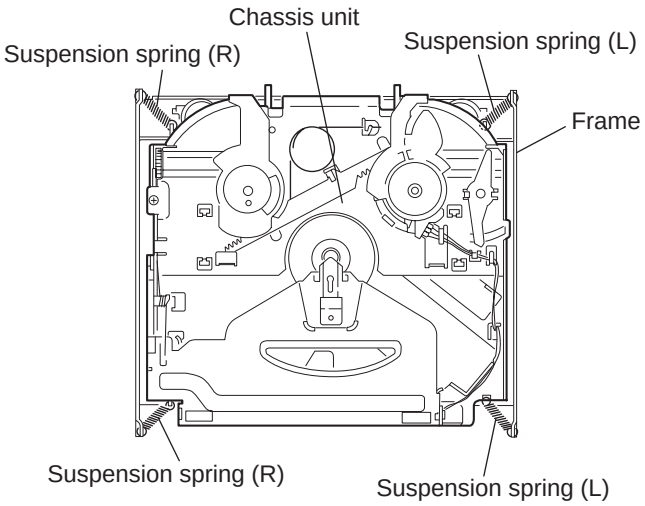


Fig.8

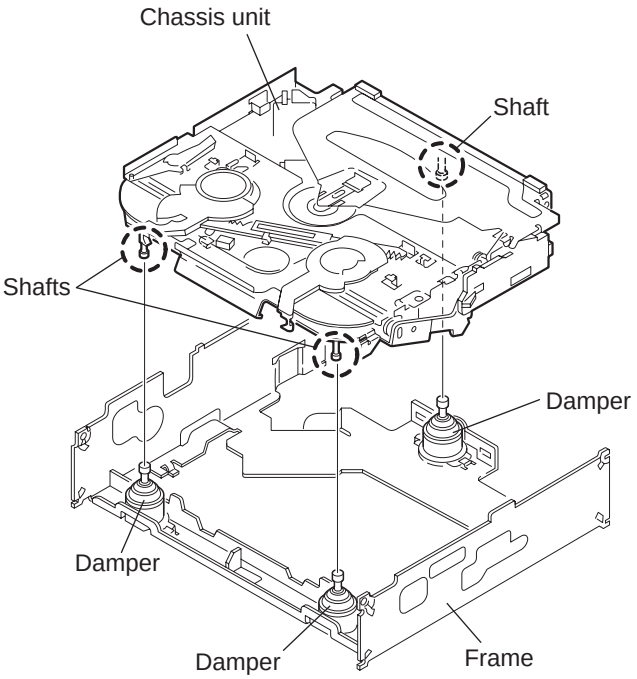


Fig.9

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**.

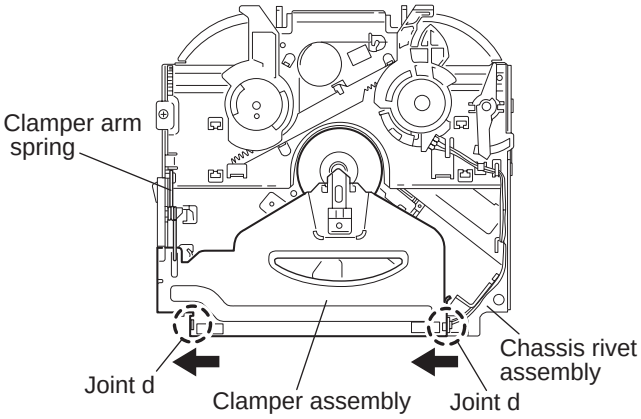


Fig.10

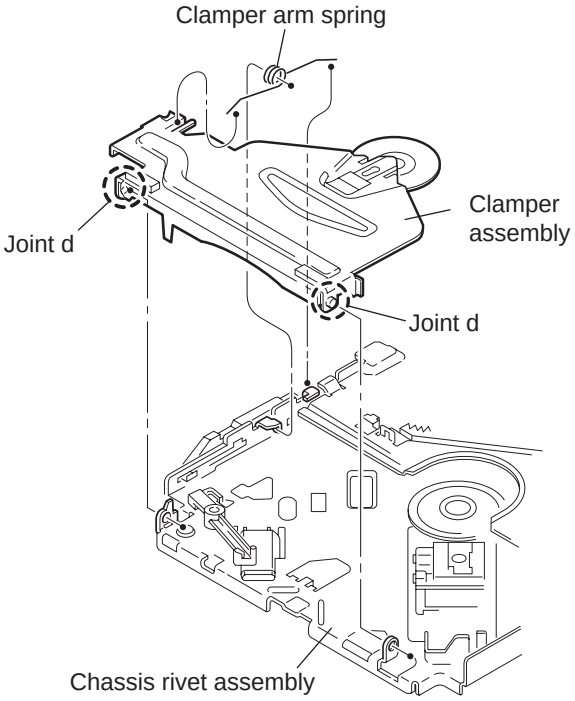


Fig.11

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.

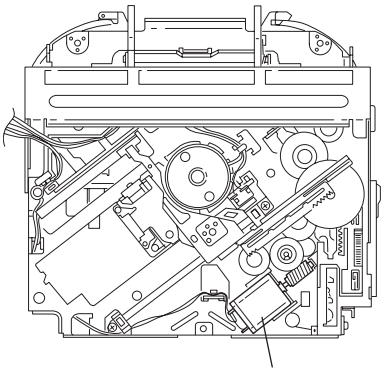


Fig.12

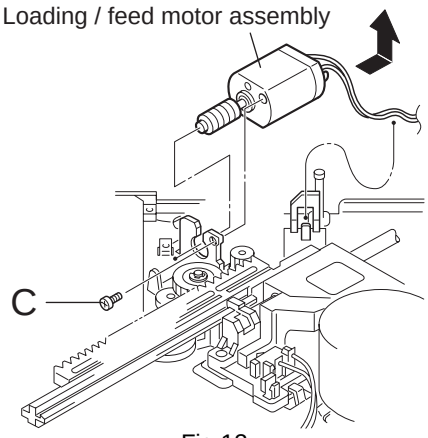


Fig.13

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.

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

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

CAUTION:

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

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

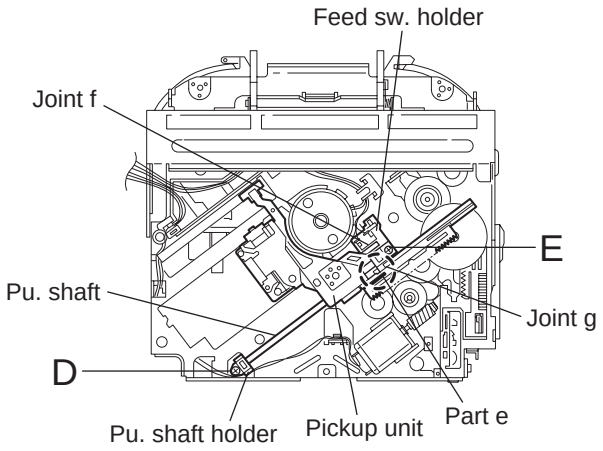


Fig.14

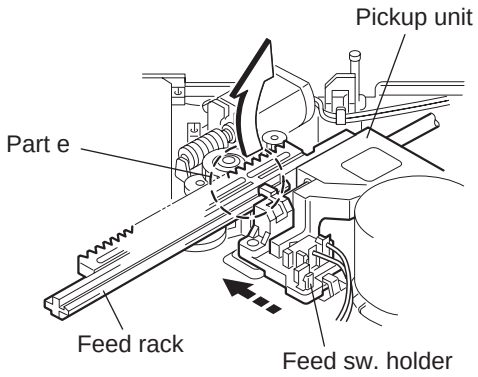


Fig.15

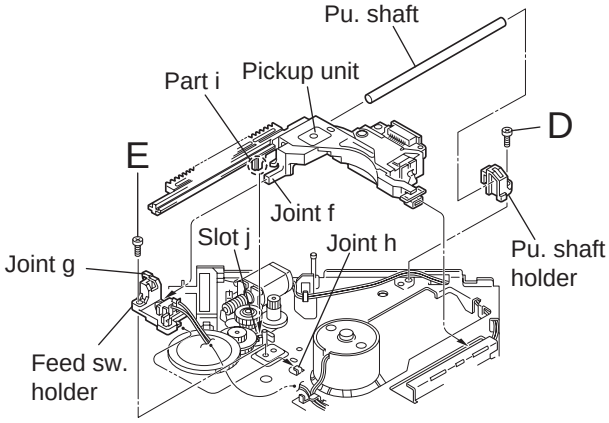


Fig.16

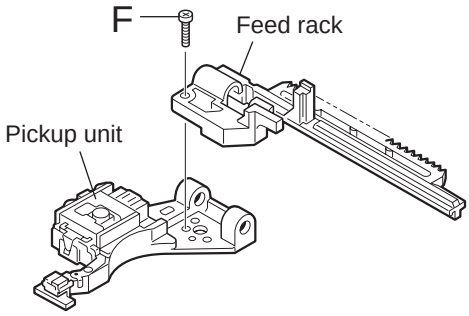


Fig.17

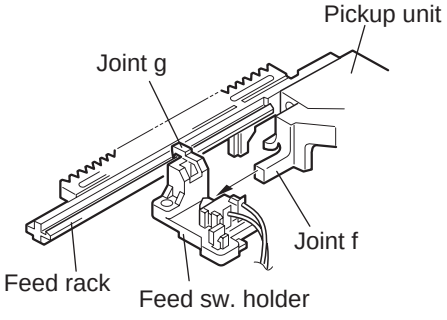


Fig.18

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

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

  CAUTION:

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

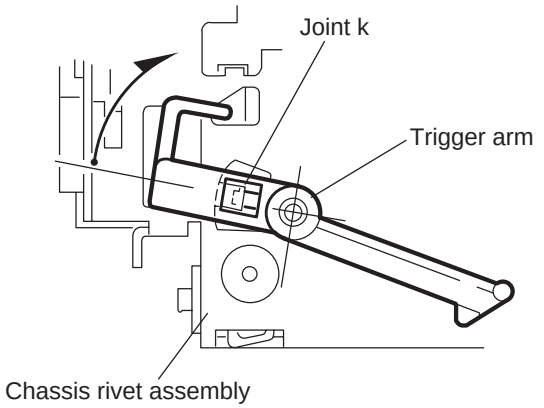


Fig.19

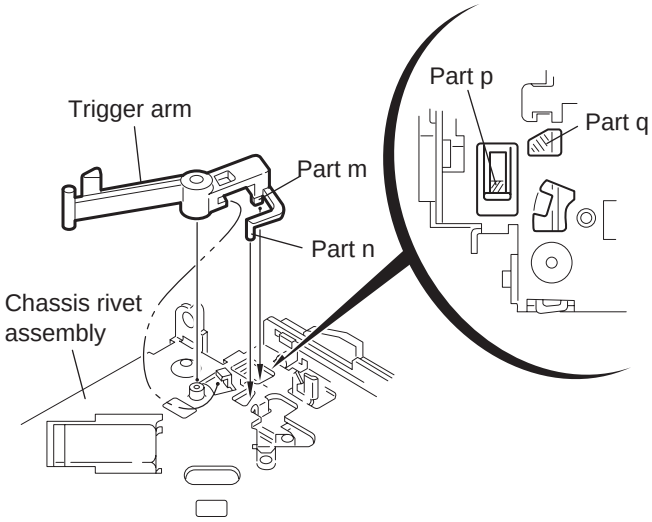


Fig.20

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

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

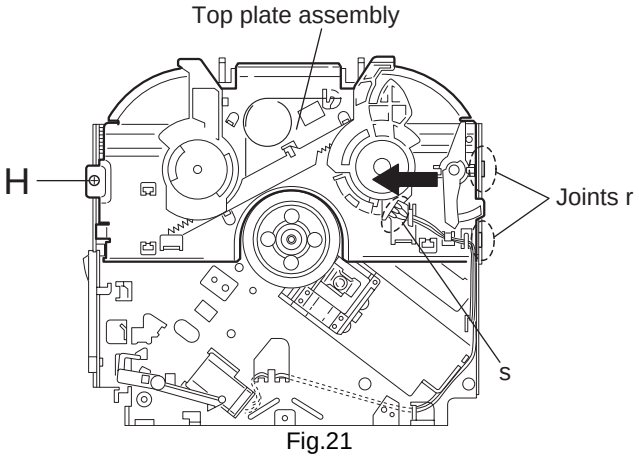


Fig.21

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

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

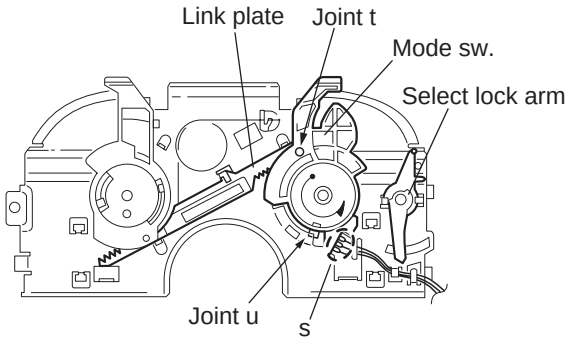


Fig.22

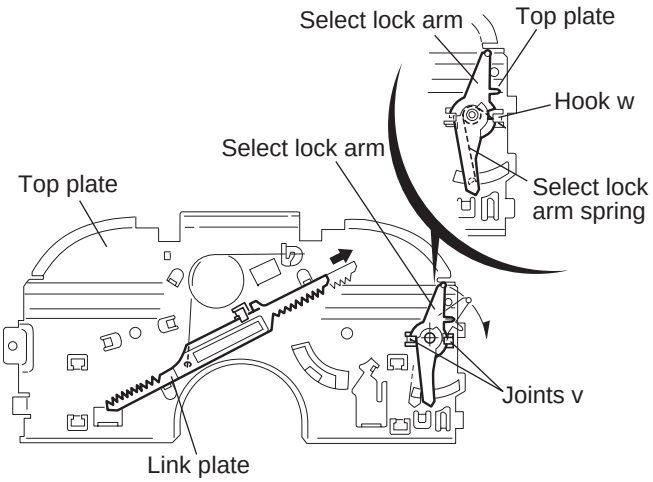


Fig.23

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

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook w on the top plate.

(2) Set the other longer end of the select lock arm spring to the boss x on the underside of the select lock arm, and join the select lock arm to the slots (joint **v**). Turn the select lock arm as shown in the figure.

(3) Reattach the mode sw. while setting the part t to the first peak of the link plate gear, and join the joint **u**.

CAUTION:

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

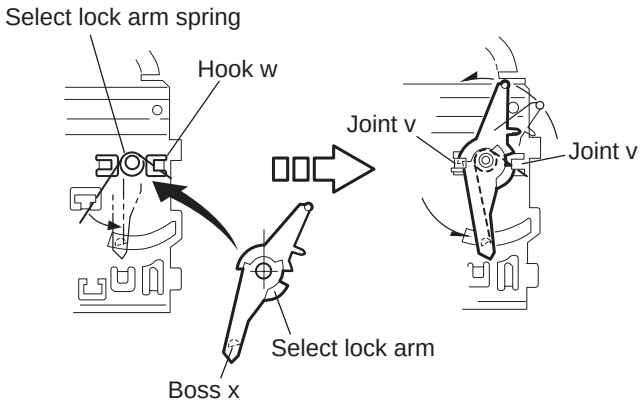


Fig.24

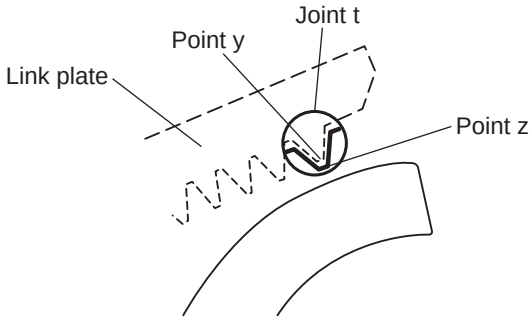


Fig.25

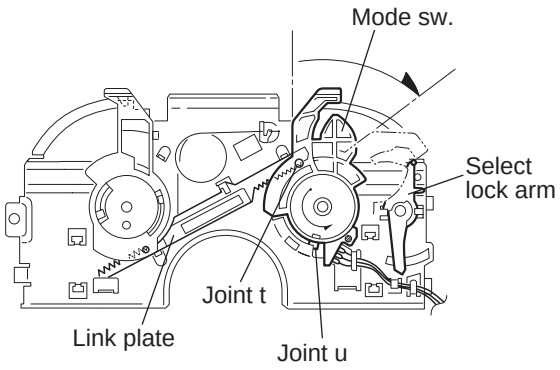


Fig.26

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

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

REFERENCE:

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

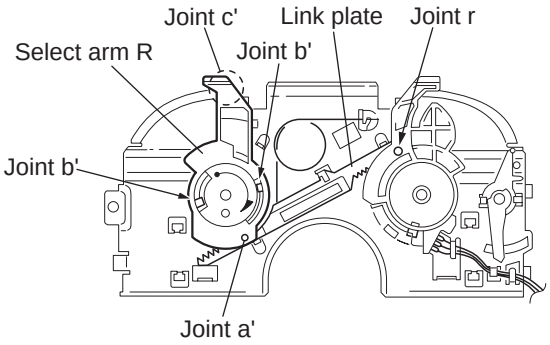


Fig.27

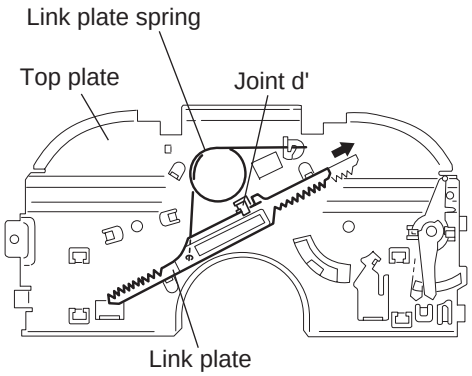


Fig.28

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

REFERENCE:

Reverse the above removing procedure.

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

CAUTION:

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

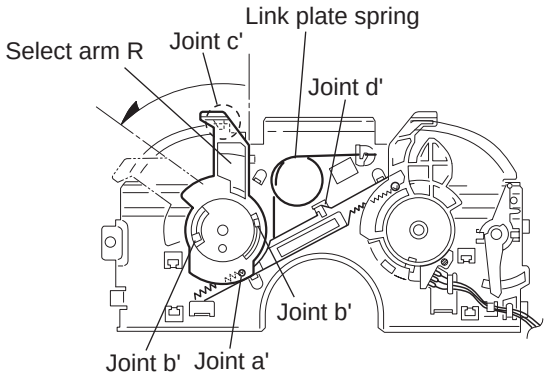


Fig.29

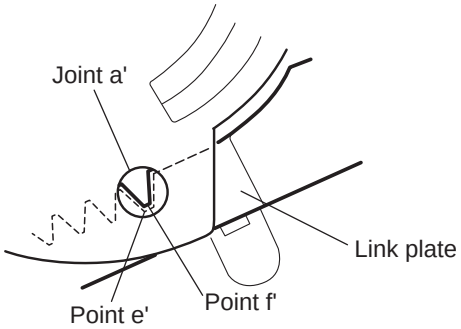


Fig.30

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

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

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

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

      CAUTION:

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

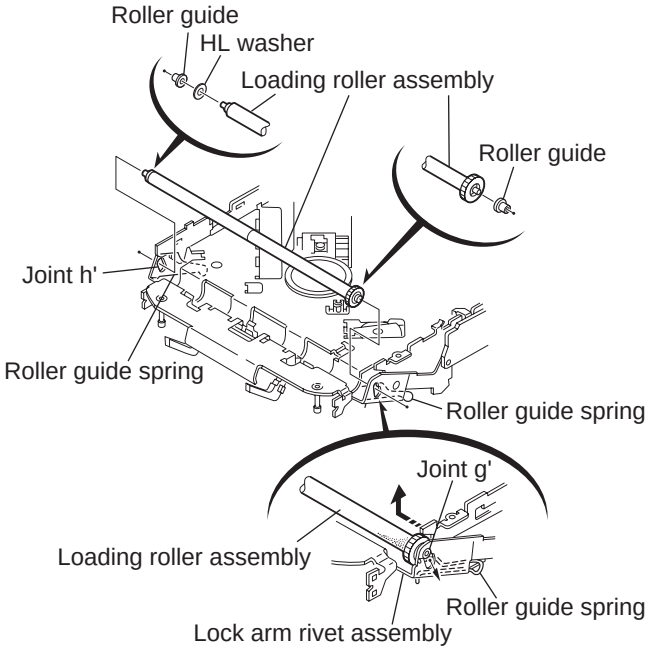


Fig.31

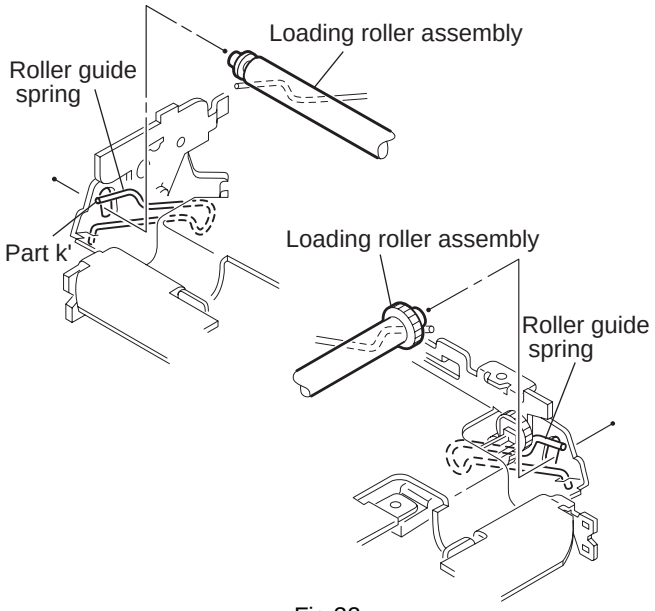


Fig.32

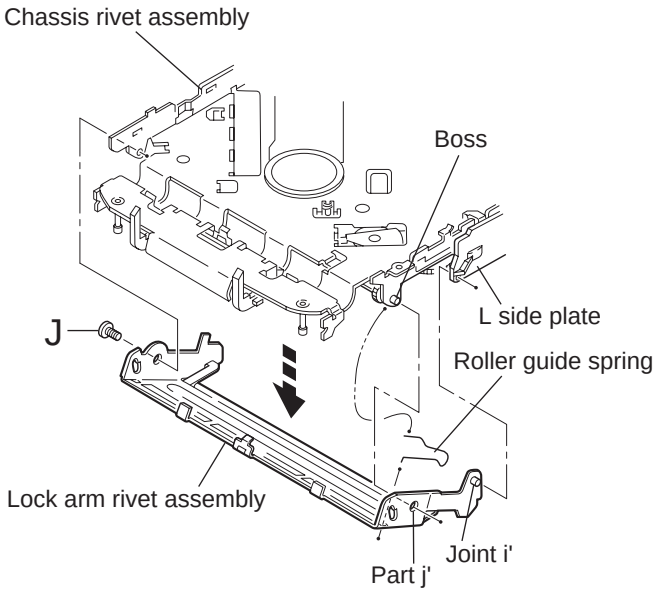


Fig.33

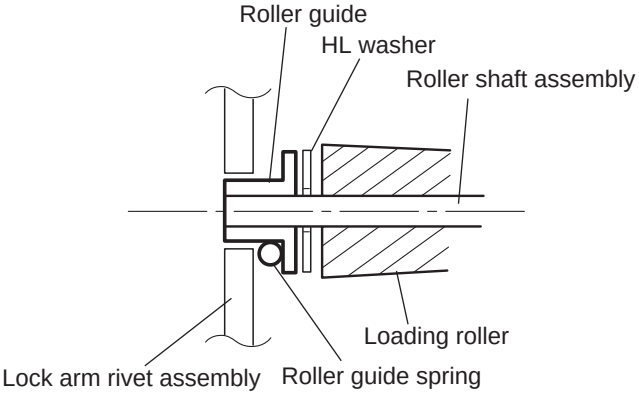


Fig.34

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.

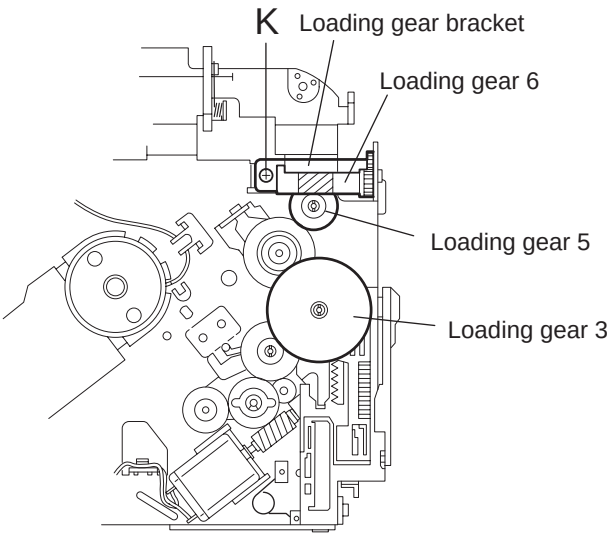


Fig.35

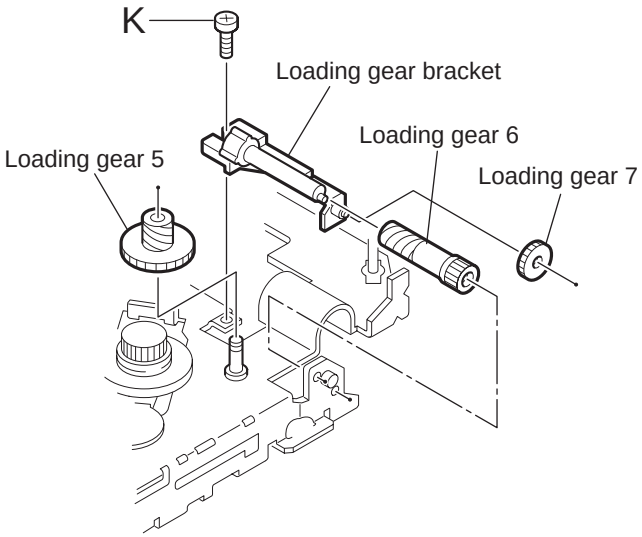


Fig.36

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 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.

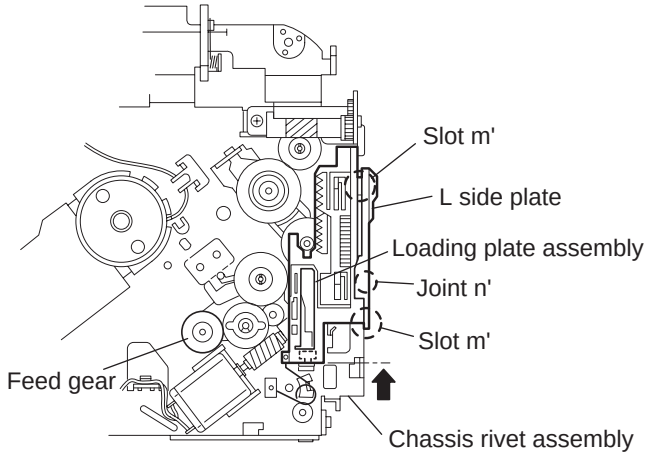


Fig.37

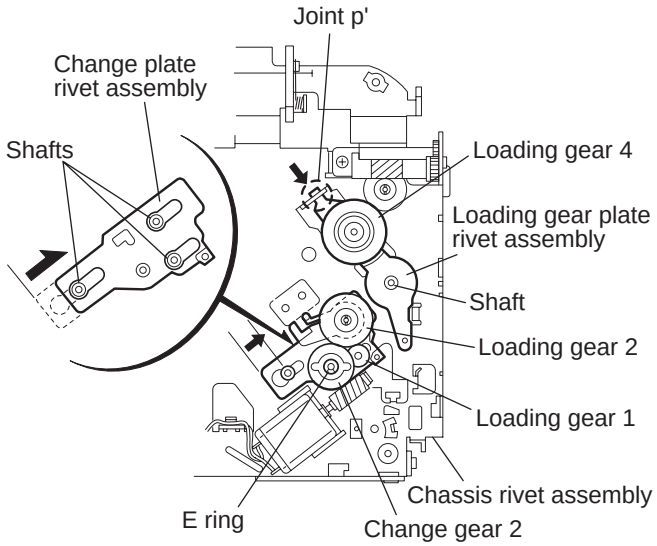


Fig.38

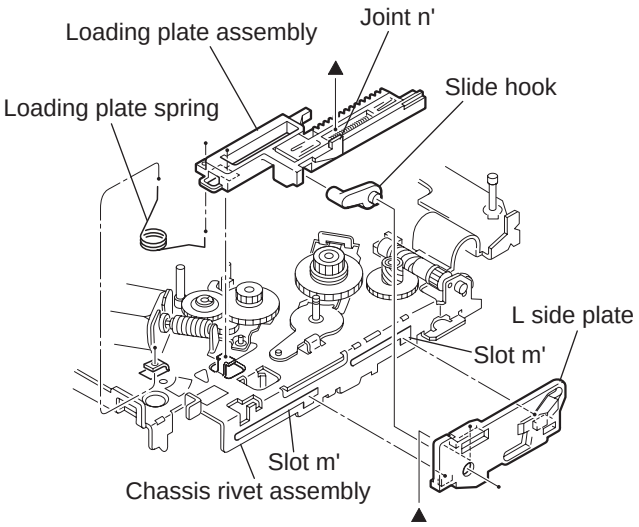


Fig.39

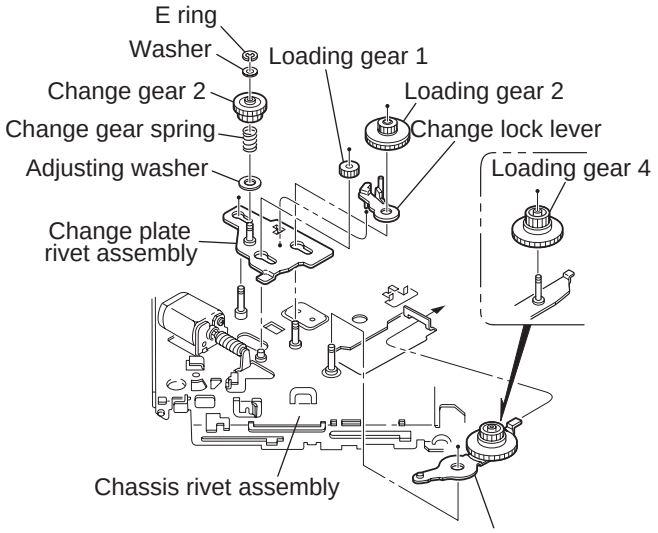


Fig.40

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 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.

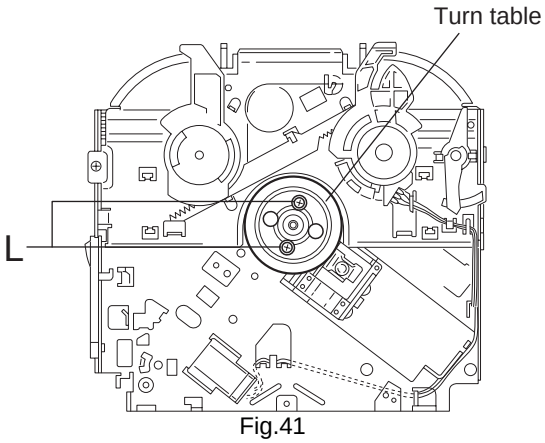


Fig.41

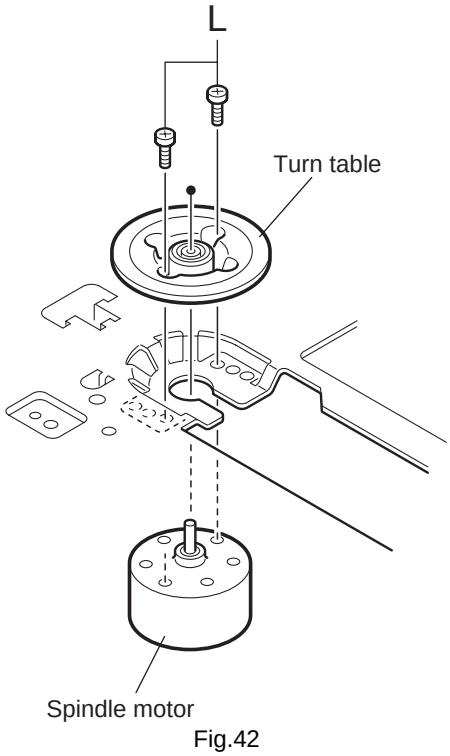


Fig.42

SECTION 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

■ **Standard measuring conditions**

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

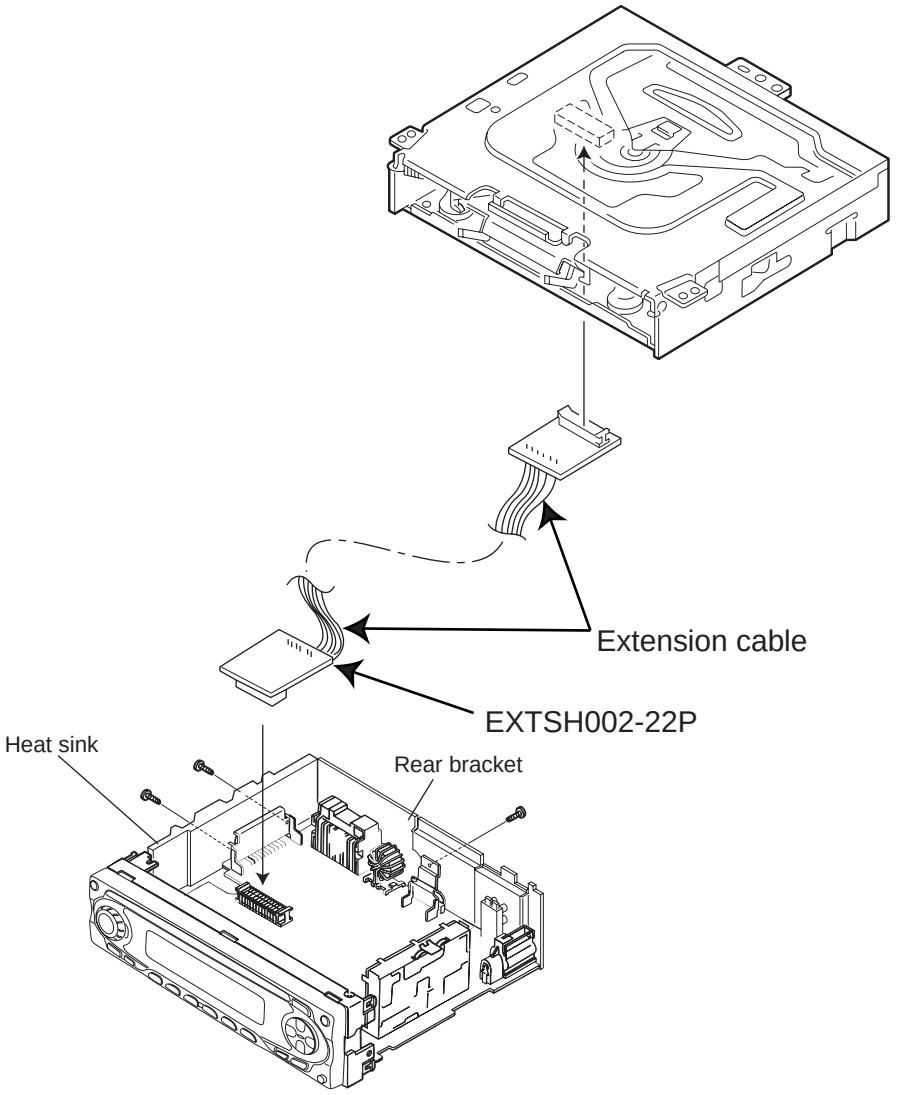
■ **Dummy load**

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.

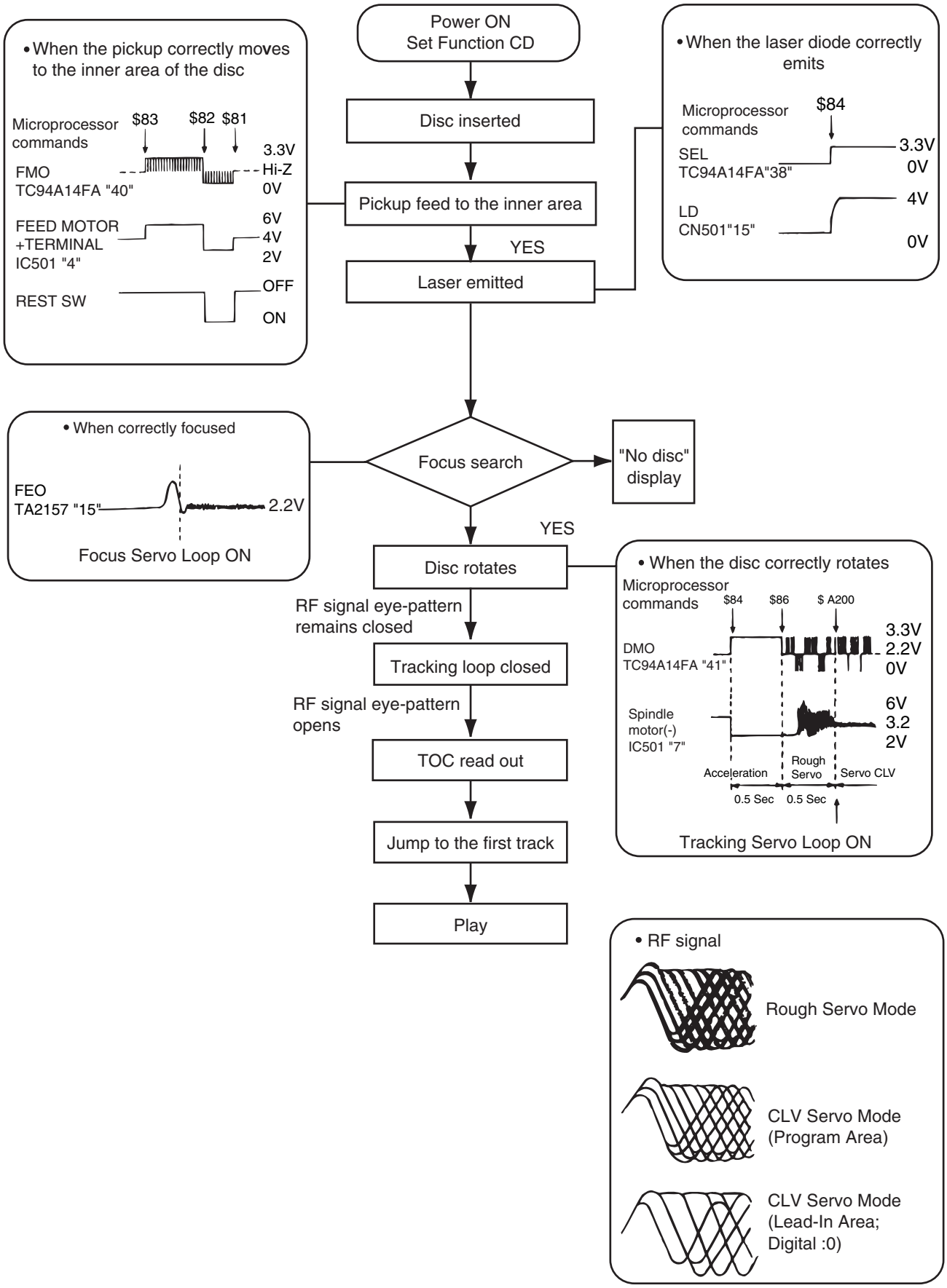
■ **How to connect the extension cable for adjusting**

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.

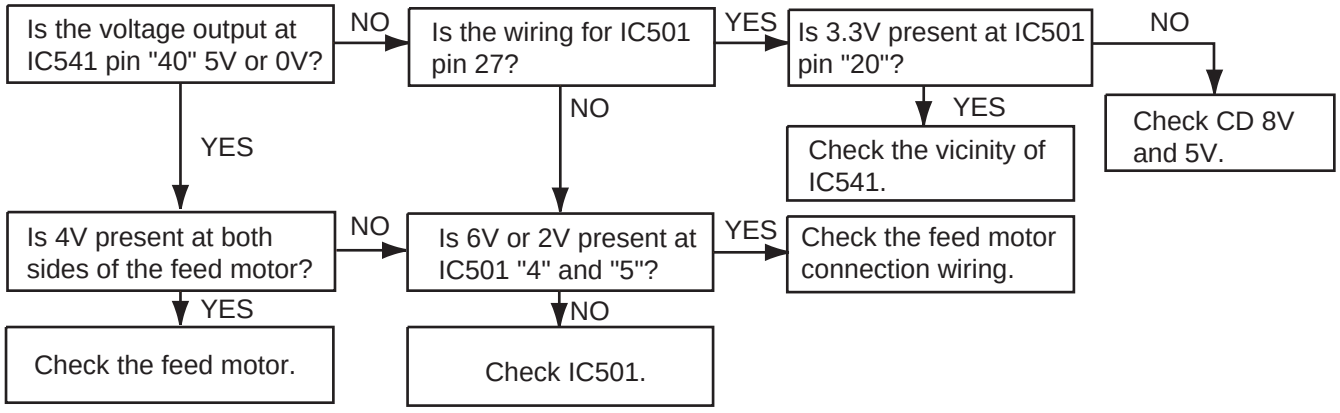


4.2 Flow of functional operation unit TOC read

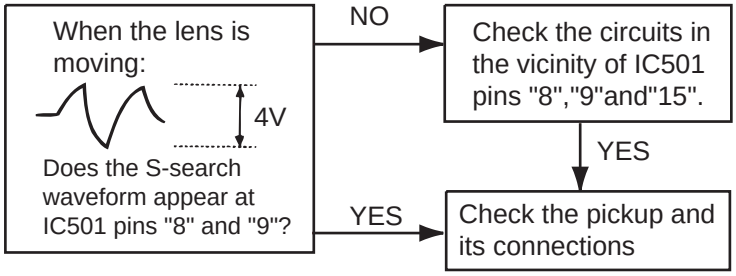


SECTION 5
TROUBLE SHOOTING

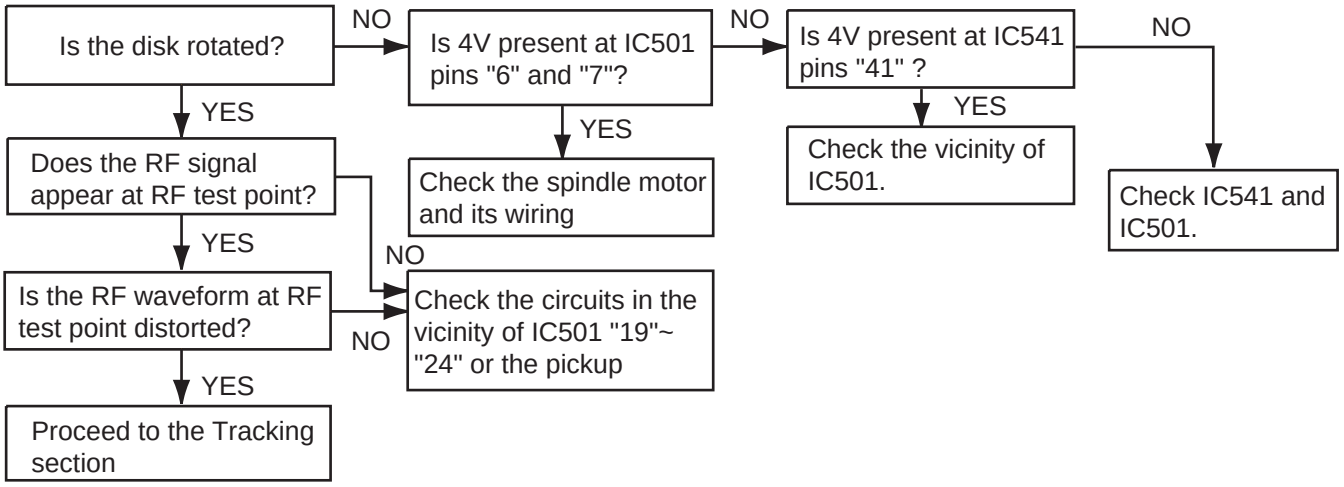
5.1 Feed section



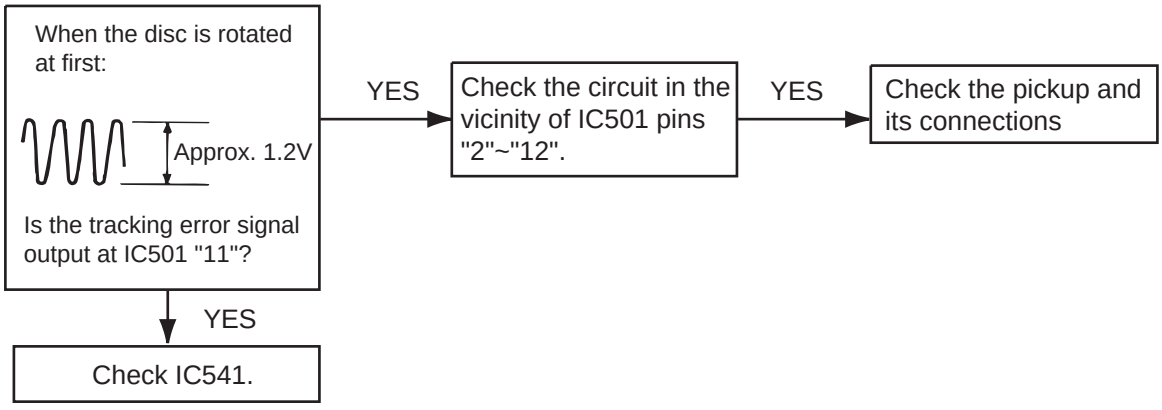
5.2 Focus section



5.3 Spindle section



5.4 Tracking section

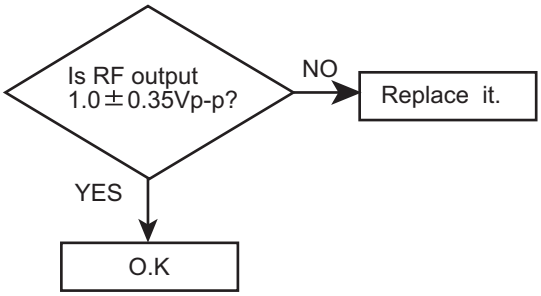


5.5 Maintenance of laser pickup

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

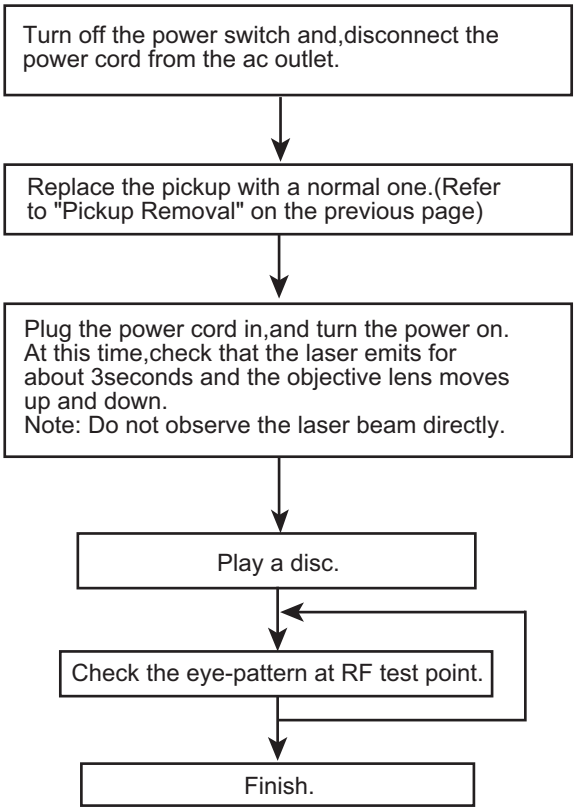
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

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



(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

5.6 Replacement of laser pickup



JVC
VICTOR COMPANY OF JAPAN, LIMITED
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(No.49876)

Printed in Japan
WPC

PARTS LIST

[KD-S891R]

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

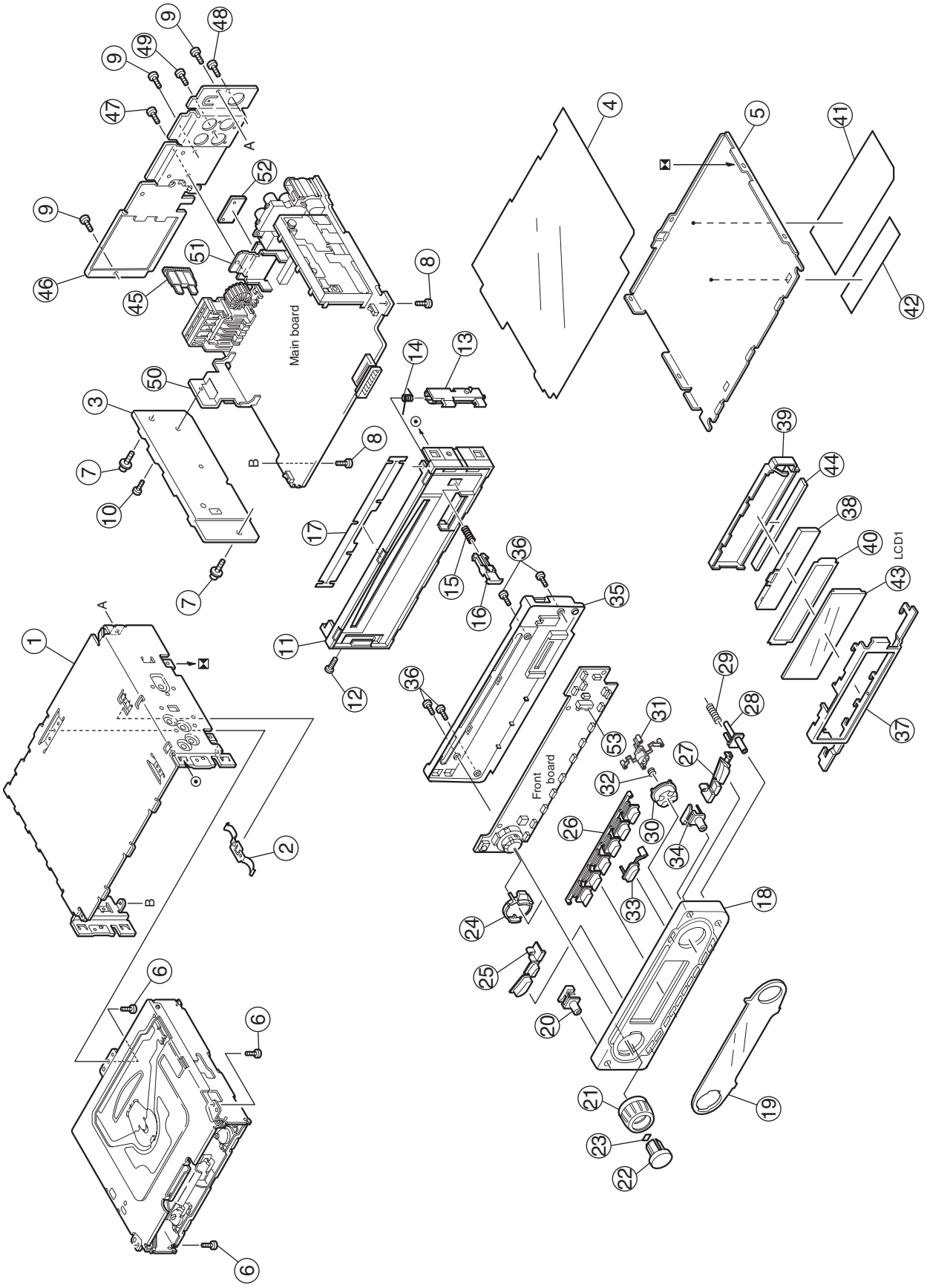
Area suffix

E---------- Continental Europe
EX ---------- Central Europe

- Contents -

Exploded view of general assmbly and parts list

Block No. M 1 M M



General Assembly

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

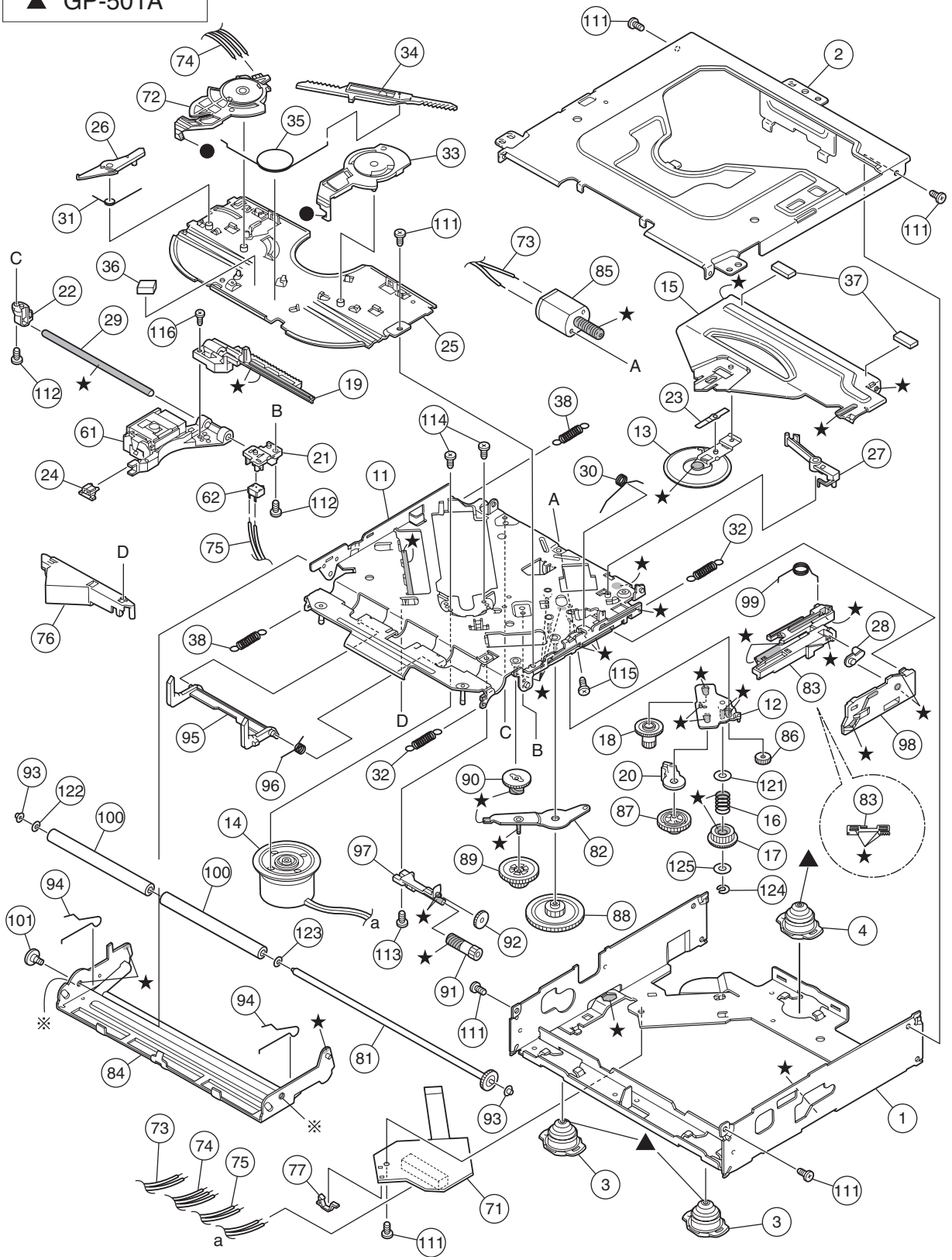
⚠ Symbol No.	Part No.	Part Name	Description	Local
1	GE10043-210A	TOP CHASSIS		
2	GE40135-001A	EARTH PLATE		
3	GE30938-003A	SIDE PANEL		
4	GE30393-002A	BOTTOM COVER		
5	FSMA3004-203	INSULATOR		
6	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
7	FSKZ4005-001	SCREW	(x2)	
8	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)	
9	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
10	QYSDST2610Z	SCREW	2.6mm x 10mm	
11	GE10056-001A	FRONT CHASSIS		
12	QYSDST2004M	SCREW	2mm x 4mm	
13	GE30583-001A	LOCK LEVER		
14	FSKW4005-003	TORSION SPRING		
15	FSKW3002-015	COMP.SPRING		
16	FSXP3026-002	RLS KNOB		
17	GE40140-001A	BLIND		
18	GE10057-001A	FRONT PANEL		
19	GE30802-017A	FINDER ASSY		
20	GE30105-002B	POWER BUTTON		
21	GE30815-003A	VOLUME KNOB		
22	GE30816-002A	SEL BUTTON		
23	FSYH4036-053	SHEET		
24	GE30817-002A	RIM LENS		
25	GE30811-002A	PUSH BUTTON		
26	GE20143-001A	PRESET BUTTON		
27	GE30814-008A	D FUNC BUTTON		
28	GE30807-001A	DETACH BUTTON		
29	FSKW3002-012	COMP.SPRING		
30	GE30818-001A	NAVI BUTTON		
31	GE30819-001A	NAVI BASE		
32	GE40127-002A	COMP.SPRING		
33	GE30813-001A	D.FUNC BTN UP		
34	GE30803-001A	EJECT BUTTON		
35	GE10058-004A	REAR COVER		
36	VKZ4777-001	MINI SCREW	(x4)	
37	GE30804-002A	LCD CASE		
38	GE30805-001A	LCD LENS		
39	GE30806-001A	LENS CASE		
40	GE40150-005A	LIGHTING SHEET		
41	GE30735-001A	NAME PLATE		
42	LV41843-002A	LASER CAUTION		
43	QLD0256-001	LCD MODULE		
44	QNZ0442-001	LCD CONNECTOR		
⚠ 45	QMFZ047-150-T	FUSE	15A	
46	GE30912-007A	REAR BRACKET		
47	QYSDST2606Z	SCREW	2.6mm x 6mm	
48	QYSDST2606Z	SCREW	2.6mm x 6mm	
49	QYSDSF2606Z	SCREW	2.6mm x 6mm	
50	GE40172-002A	IC BRACKET		
51	GE40103-002A	REG BRACKET		
52	GE40107-002A	HEAT SINK		
53	GE30854-001A	LED HOLDER		

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][P][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
IC31	TB2118F-X	PLL IC	PLL	
IC71	SAA6579T-X	IC	RDS detecter	
IC161	TEA6320T-X	IC	E.volume	
IC301	LA4743K	POWER IC	Power amp.	
IC401	TC94A20F-011	IC	DAC/SRAM built in type D-ROM decoder + MP3 decoder	
IC461	NJU7241F25-X	IC	Regulator	
IC471	NJU7241F33-X	IC	Voltage regulator	
IC481	AK4381VT-X	IC	2ch DAC	
IC501	LA6579H-X	IC	4-Channel bridge driver	
IC521	TA2157FN-X	RF AMP IC	RF amp	
IC541	TC94A14FA	CD LSI IC	DSP & DAC	
IC581	NJM4565M-WE	IC	CD L.P.F	
IC701	UPD784217AGC199			
IC702	IC-PST600M/G/-W	IC		
IC771	BR24L16F-W-X	IC	EEPROM	
IC901	AN80T07	IC	Regulator	
Q1	2SD601A/R/-X	TRANSISTOR		
Q2	2SD601A/R/-X	TRANSISTOR		
Q3	UN2111-X	TRANSISTOR		
Q5	2SB709A/R/-X	TRANSISTOR		
Q6	2SB624/4/-X	TRANSISTOR		
Q7	UN2211-X	TRANSISTOR		
Q10	UN2211-X	TRANSISTOR		
Q31	UN2211-X	TRANSISTOR		
Q51	2SD601A/R/-X	TRANSISTOR		
Q52	2SD601A/R/-X	TRANSISTOR		
Q53	UN2211-X	TRANSISTOR		
Q81	2SD601A/R/-X	TRANSISTOR		
Q84	UN2111-X	TRANSISTOR		
Q91	2SD601A/R/-X	TRANSISTOR		
Q241	2SD601A/R/-X	TRANSISTOR		
Q321	2SD1781K/QR/-X	TRANSISTOR		
Q331	2SD1781K/QR/-X	TRANSISTOR		
Q341	2SD1781K/QR/-X	TRANSISTOR		
Q351	2SD1781K/QR/-X	TRANSISTOR		
Q430	UN2211-X	TRANSISTOR		
Q440	UN2211-X	TRANSISTOR		
Q501	2SB1322/RS/-T	TRANSISTOR		
Q502	2SB1132/QR/-X	CHIP.TR.C.M		
Q521	2SB1241/QR/-T	TRANSISTOR		
Q541	UN2111-X	TRANSISTOR		
Q542	UN2211-X	TRANSISTOR		
Q781	UN2111-X	TRANSISTOR		
Q782	UN2211-X	TRANSISTOR		
Q784	UN2111-X	TRANSISTOR		
Q891	UN2211-X	TRANSISTOR		
Q976	UN2211-X	TRANSISTOR		
Q977	2SB709A/R/-X	TRANSISTOR		
D1	1SS355-X	SI DIODE		
D2	1SS355-X	SI DIODE		
D4	1SS355-X	SI DIODE		
D5	1SS355-X	SI DIODE		
D84	1SS355-X	SI DIODE		
D240	1SS355-X	SI DIODE		
D241	1SS355-X	SI DIODE		
D242	1SS355-X	SI DIODE		
D243	RB160M-30-X	SB DIODE		
D244	UDZS5.1B-X	Z DIODE		
D321	1SS355-X	SI DIODE		
D331	1SS355-X	SI DIODE		
D341	1SS355-X	SI DIODE		
D351	1SS355-X	SI DIODE		
D481	UDZS5.1B-X	Z 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	1SS355-X	SI DIODE		
D712	UDZS6.2B-X	Z DIODE		
D781	1SS355-X	SI DIODE		
D782	1SS355-X	SI DIODE		
D784	UDZS11B-X	Z DIODE		
D891	1SS355-X	SI DIODE		
D892	1SS355-X	SI DIODE		
D901	1N5401-F64	DIODE		
D902	1SS355-X	SI DIODE		
D971	RB160M-30-X	SB DIODE		
D972	RB160M-30-X	SB DIODE		
C1	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C5	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C6	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C31	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C32	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C33	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C34	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C35	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C36	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C37	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C38	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C39	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C40	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C41	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C42	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C43	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J	
C44	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C45	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C46	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C47	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C48	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C49	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C50	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C51	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C52	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C53	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C54	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C55	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C71	NCS31HJ-561X	C CAPACITOR	560pF 50V J	
C72	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C73	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C74	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C75	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C77	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C81	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C82	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C83	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C84	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C85	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C91	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C92	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C94	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C95	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C161	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C162	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C164	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C165	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C166	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C167	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C168	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C169	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C170	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C171	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C172	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C174	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C175	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C176	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C177	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C178	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C179	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C180	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C191	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C192	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C193	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C194	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C241	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C242	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C243	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C244	QEKJ1HM-224Z	E CAPACITOR	0.22uF 50V M	
C301	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C302	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C303	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C304	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C311	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C312	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C313	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C314	NCS31HJ-391X	C CAPACITOR	390pF 50V J	
C315	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C316	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C317	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C318	QEDJ1CM-226Z	E CAPACITOR	22uF 16V M	
C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C320	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C321	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C322	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C323	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C324	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C325	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C401	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C402	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C403	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C404	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C406	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C408	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C409	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C411	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C412	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C413	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C414	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C416	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C417	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C418	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C419	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C420	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C421	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C422	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C427	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C430	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C440	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C461	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C462	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C463	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C464	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C471	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C472	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C473	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C474	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C481	QERF1AM-476Z	E CAPACITOR	47uF 10V M	
C482	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C483	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C501	QEDJ1AM-476Z	E CAPACITOR	47uF 10V M	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	QEDJ1AM-107Z	E CAPACITOR	100uF 10V M	
C504	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C505	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C506	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C507	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C522	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C523	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C524	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C525	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C527	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C528	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C529	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C530	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C531	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C532	NCS31HJ-820X	C CAPACITOR	82pF 50V J	
C533	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C534	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C541	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C542	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C543	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C544	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C546	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C547	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C548	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C549	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C551	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C552	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C553	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C554	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C555	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C556	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C557	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C558	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C559	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C560	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C561	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C562	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C565	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C566	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C568	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C569	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C570	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C571	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C572	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C573	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C581	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C582	NCS31HJ-271X	C CAPACITOR	270pF 50V J	
C583	NCS31HJ-271X	C CAPACITOR	270pF 50V J	
C584	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C585	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C588	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C589	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C591	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C592	NCS31HJ-271X	C CAPACITOR	270pF 50V J	
C593	NCS31HJ-271X	C CAPACITOR	270pF 50V J	
C594	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C595	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C596	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C597	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C598	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C599	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C701	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C702	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C703	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C704	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C706	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C707	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C708	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C711	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C713	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C714	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C715	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C716	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C717	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C718	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C771	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C781	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C782	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C784	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C901	QEZ0616-228	E CAPACITOR	2200uF	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C904	QEDJ1CM-106Z	E CAPACITOR	10uF 16V M	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C908	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C909	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C910	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C911	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C913	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C915	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C919	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C961	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C962	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C963	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C964	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C965	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C966	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C967	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C968	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
R1	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R2	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R10	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R31	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R32	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R33	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R34	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R35	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R36	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R37	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R38	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R40	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R41	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R42	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R43	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R44	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R51	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R52	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R53	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R54	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R55	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R56	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R57	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R58	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R59	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R71	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R72	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R81	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R82	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R83	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R84	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R91	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R92	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R93	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R161	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R162	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R164	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R171	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R174	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R175	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R181	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R182	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R241	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R242	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R243	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R244	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R245	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R246	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R247	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R248	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R301	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R302	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R311	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R312	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R321	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R322	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R323	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R331	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R332	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R333	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R341	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R342	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R343	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R351	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R352	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R402	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R403	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R411	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R423	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R424	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R425	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R430	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R440	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R452	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R453	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R454	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R455	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R456	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R457	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R458	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R481	NRS181J-271X	MG RESISTOR	270Ω 1/8W J	
R501	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R504	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R506	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R507	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R508	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R510	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R511	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R512	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R513	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R514	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R523	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R524	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R525	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R526	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R527	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R528	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R530	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R532	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R533	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R534	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R535	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R536	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R537	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R539	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R541	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R542	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R543	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R546	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R549	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R550	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R551	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R552	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R553	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R554	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R555	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R556	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R557	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R559	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R560	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R561	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R562	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R563	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R564	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R565	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R581	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R582	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R583	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R584	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R585	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R586	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R587	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R588	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R591	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R592	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R593	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R594	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R595	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R596	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R597	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R598	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R701	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R704	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R705	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R708	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R713	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R716	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R720	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R732	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R734	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R735	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R736	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R743	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R745	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R748	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R749	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R752	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R753	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R754	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R755	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R756	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R757	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R763	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R783	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R976	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R977	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
L1	QQL244J-4R7Z	COIL	4.7uH J	
L401	NQL114K-470X	COIL	47uH K	
L402	NQL114K-470X	COIL	47uH K	
L403	NQL114K-470X	COIL	47uH K	
L541	NQL114K-470X	COIL	47uH K	
L542	NQL114K-470X	COIL	47uH K	
L543	NQL114K-470X	COIL	47uH K	
L544	NQL114K-470X	COIL	47uH K	
L701	NQL114M-4R7X	COIL	4.7uH M	
L702	NQL114K-100X	COIL	10uH K	
L901	QQR1362-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	VMC0334-001	CONNECTOR		
CN901	QNZ0112-001	CAR CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
J321	QNN0489-001	PIN JACK		
TU1	QAU0292-001	TUNER PAC		
X31	QAX0616-001Z	CRYSTAL	10.250MHz	
X71	QAX0263-001Z	CRYSTAL	4.332MHz	
X401	QAX0413-001Z	CRYSTAL	16.9344MHz	
X701	QAX0617-001Z	CRYSTAL	12.500MHz	
X702	QAX0401-001	CRYSTAL	32.768KHz	

Mecha control board

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

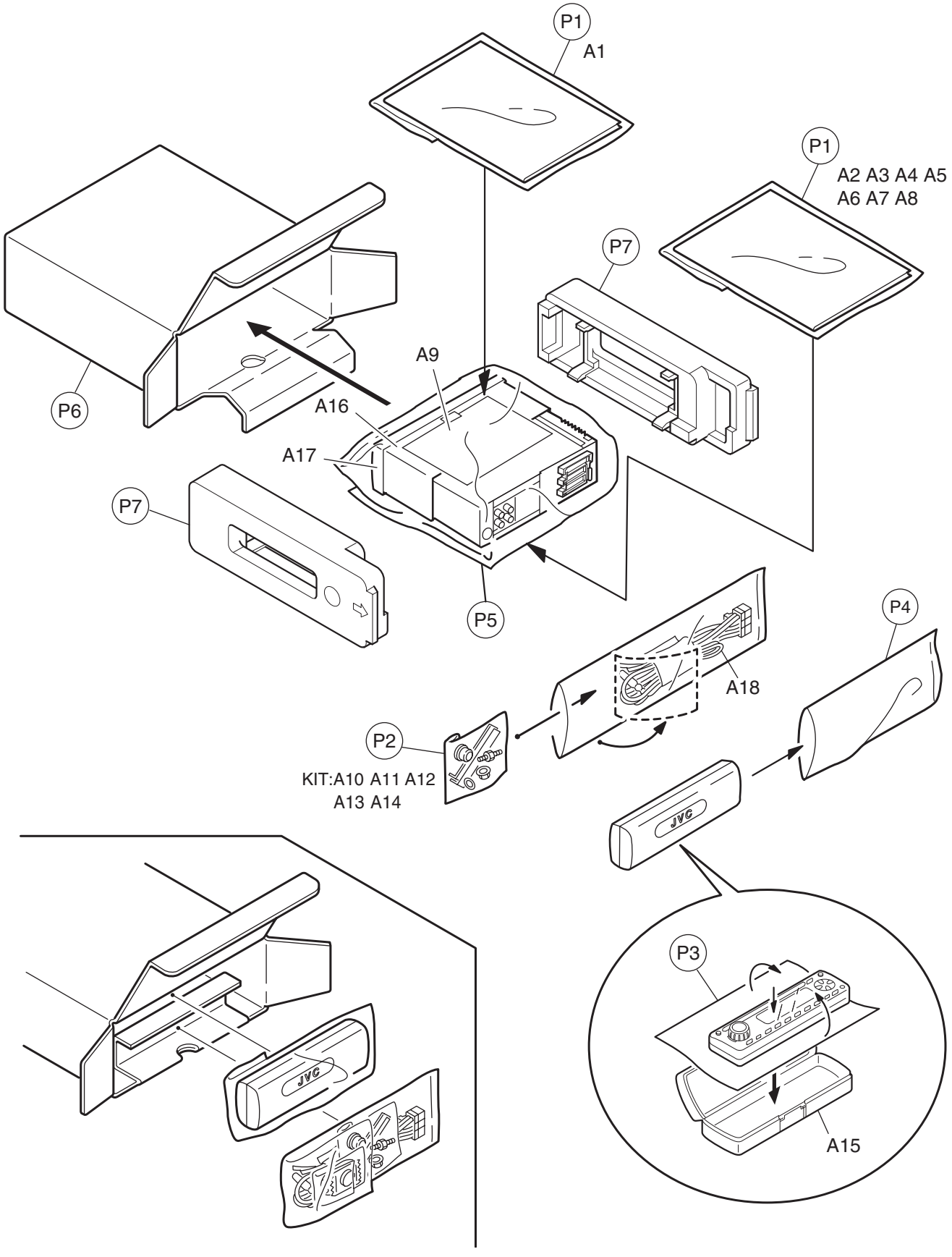
⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	LC75823W	IC	LCD driver	
IC602	RPM6938-SV4	IC	Remote sensor	
D601	SML-310VT/JK/-X	LED		
D602	SML-310VT/JK/-X	LED		
D603	SML-310VT/JK/-X	LED		
D604	SML-310VT/JK/-X	LED		
D605	SML-310VT/JK/-X	LED		
D606	SML-310VT/JK/-X	LED		
D607	SML-310VT/JK/-X	LED		
D608	SML-310VT/JK/-X	LED		
D609	SML-310VT/JK/-X	LED		
D610	SML-310VT/JK/-X	LED		
D611	SML-310VT/JK/-X	LED		
D612	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		
D618	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-310LT/MN/-X	LED		
D641	UDZS5.1B-X	Z DIODE		
D642	1SS355-X	SI DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
D644	UDZS5.1B-X	Z DIODE		
D645	UDZS6.2B-X	Z DIODE		
D731	NSPW310BS/BRS/	LED		
D732	NSPW310BS/BRS/	LED		
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	
C613	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C614	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R603	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R604	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R605	NRSA63J-182X	MG RESISTOR	1.8kΩ 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-182X	MG RESISTOR	1.8kΩ 1/16W J	
R616	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R631	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R632	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R633	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R634	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R635	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R636	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R637	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R638	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R639	NRSA02J-391X	MG RESISTOR	390Ω 1/10W J	
R640	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R641	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R642	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R643	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R644	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R645	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R646	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R647	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R656	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R657	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R658	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R659	NRS181J-431X	MG RESISTOR	430Ω 1/8W J	
R660	NRS181J-431X	MG RESISTOR	430Ω 1/8W J	
R662	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R670	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R671	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R672	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R673	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R674	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CJ601	VMC0335-001	CONNECTOR		
JS690	QSW0863-002	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		
S618	NSW0066-001X	TACT SW		

<MEMO>

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	GET0136-001A	INST BOOK	ENG,GER,FRE,DUT	
A 2	GET0136-002A	INST BOOK	SPA,ITA,POL,RUS	S891 RED
A 2	GET0136-003A	INST BOOK	SWE,DAN,FIN,GER	S891 REX
A 3	GET0136-004A	INSTALL MANUAL	ENG,GER,FRE,DUT	
A 4	GET0136-005A	INSTALL MANUAL	SPA,ITA,POL,RUS	S891 RED
A 4	GET0136-006A	INSTALL MANUAL	SWE,DAN,FIN,GER	S891 REX
A 5	BT-54013-6	WARRANTY CARD		S891 RED
A 6	LVT0770-002C	MP3 SHEET		
A 7	VND3050-002	IDENTITY CARD		
A 8	VND3046-001	SERIAL TICKET		
A 9	LV40978-001A	CAUTION SHEET		
A 10	VKZ4027-202	PLUG NUT		
A 11	VKH4871-001SS	MOUNT BOLT		
A 12	VKZ4328-001	LOCK NUT		
A 13	WNS5000Z	WASHER		
A 14	GE40130-001A	HOOK	(x2)	
A 15	FSJB3002-00C	HARD CASE		
A 16	GE20137-003A	MOUNTING SLEEVE		
A 17	GE20135-001A	TRIM PLATE		
A 18	QAM0175-002	POWER CORD		
KIT	KSFX480K-SCREW1	SCREW PARTS KIT	A10 to A14	
P 1	FSPG4002-001	POLY BAG	(x2)	
P 2	QPA00801205	POLY BAG	8cm x 12cm	
P 3	FSYH4036-068	SHEET		
P 4	QPA01003003	POLY BAG	10cm x 30cm	
P 5	QPC03004315P	POLY BAG	30cm x 43cm	
P 6	GE30736-001A	CARTON		
P 7	GE10070-001A	EPS CUSHION		