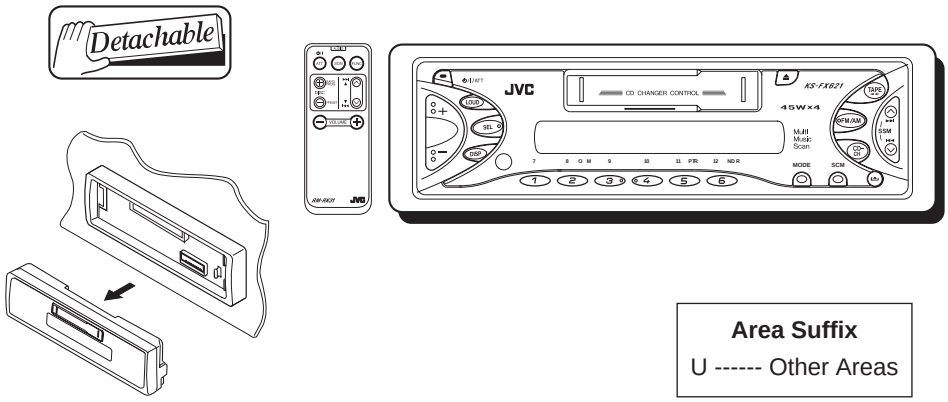
JVC

SERVICE MANUAL

CASSETTE RECEIVER

KS-FX621



Area Suffix
U ------ Other Areas

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No.49825
2003/03

SECTION 1
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.

SECTION 2
Disassembly method

2.1 Main body

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

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

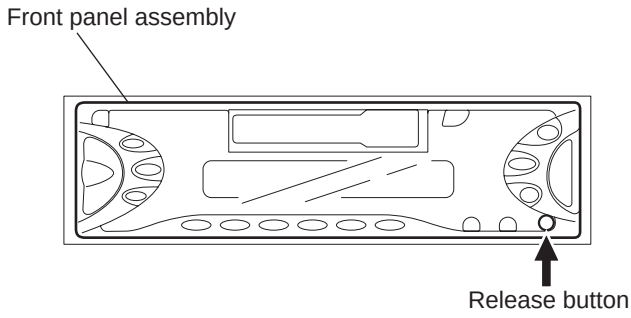


Fig.1

2.1.2 Removing the bottom cover (See Fig.2)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Turn the body upside down.
  (2) Insert **a** screwdriver under the joints to release the two joints **a** on the left side, the two joints **b** on the right side and the joint **c** on the back of the body, then remove the bottom cover from the body.

CAUTION:
When releasing the joint **c** using a screwdriver, do not damage the main board.

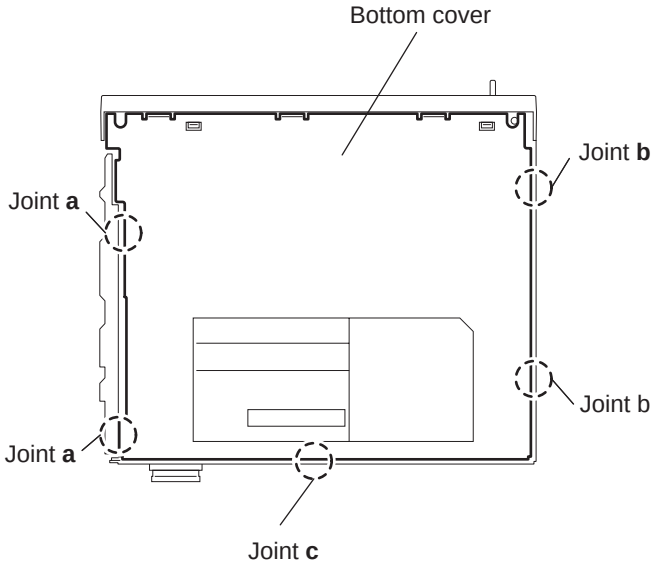


Fig.2

2.1.3 Removing the front chassis (See Fig.3)

- Prior to performing the following procedure, remove the front panel assembly and bottom cover.
  (1) Remove the screw **A** on each side of the body.
  (2) Release the two joints **d** and the two joints **e** on the sides, then remove the front chassis toward the front.

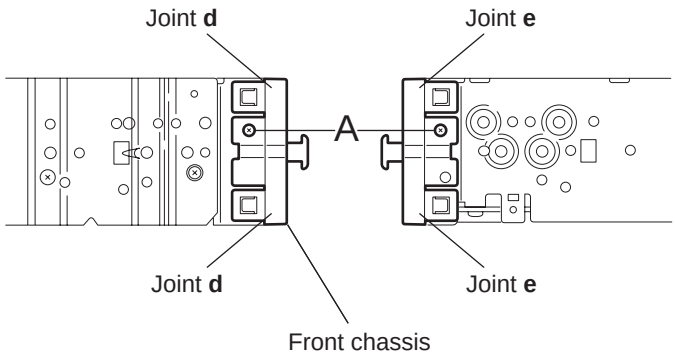


Fig.3

2.1.4 Removing the heat sink (See Fig.4)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the two screws **B** and two screws **C** attaching the heat sink on the left side of the body, and remove the heat sink.

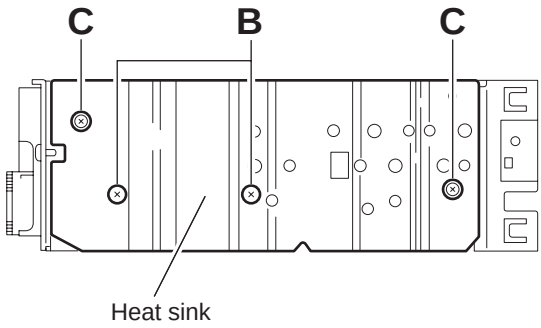


Fig.4

2.1.5 Removing the rear panel (See Fig.5)

- Prior to performing the following procedure, remove the front panel assembly and bottom cover.
  (1) Remove the two screws **D**, three screws **E** and three screws **F** attaching the rear panel on the back of the body.

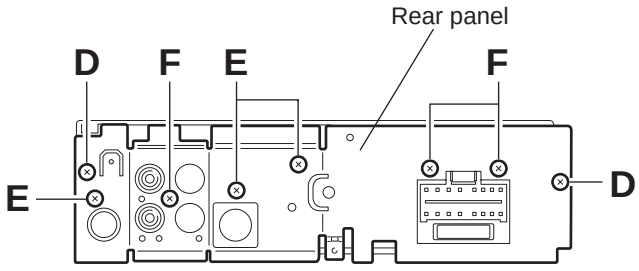


Fig.5

2.1.6 Removing the main board (See Fig.6)

- Prior to performing the following procedure, remove the front panel assembly, bottom cover, front chassis, heat sink and rear panel.
  (1) Remove the two screws **G** attaching the main board on the top chassis.
  (2) Disconnect the connectors CP701 on the main board from the cassette mechanism assembly.

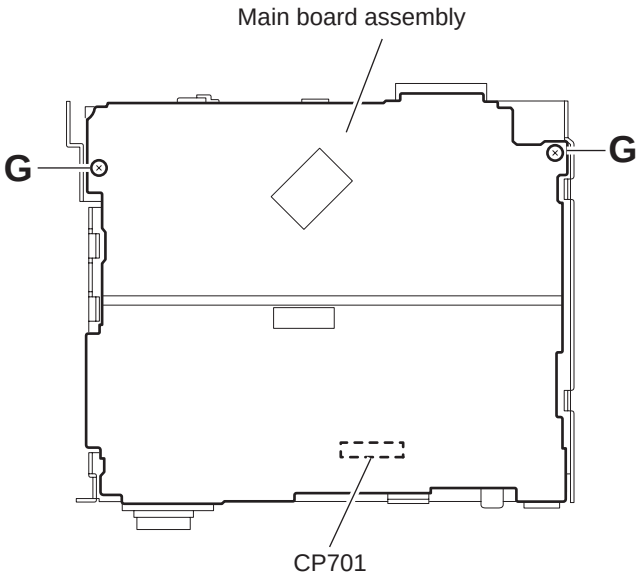


Fig.6

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

- Prior to performing the following procedure, remove the front panel assembly, bottom cover, front chassis, heat sink, rear panel and main board.
  (1) Remove the four screws **H** attaching the cassette mechanism assembly from the top chassis.

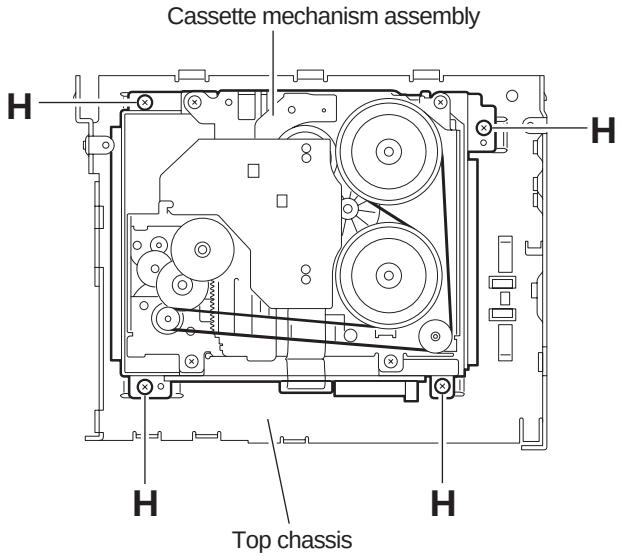


Fig.7

2.1.8 Removing the mecha board (See Fig.8)

- Prior to performing the following procedure, remove the front panel assembly, bottom cover, front chassis, heat sink, rear panel, main board and cassette mechanism assembly.
  (1) Disconnect the wire from the connectors CN402 and CN403 on the mecha board.
  (2) Remove the screw **J** attaching the mecha board.

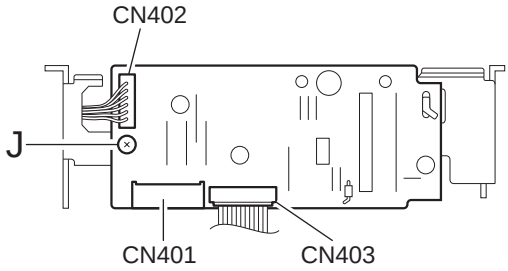


Fig.8

2.1.9 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 **L** attaching the rear cover on the back of the front panel assembly. (See fig.9)
  (2) Release the eleven joints **f**, the front panel and the rear cover become separate. (See fig.10)
  (3) Remove the front board from the front panel assembly. (See fig.11)

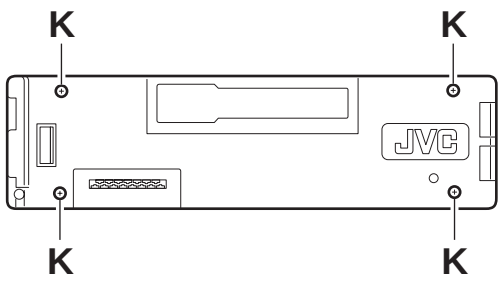


Fig.9

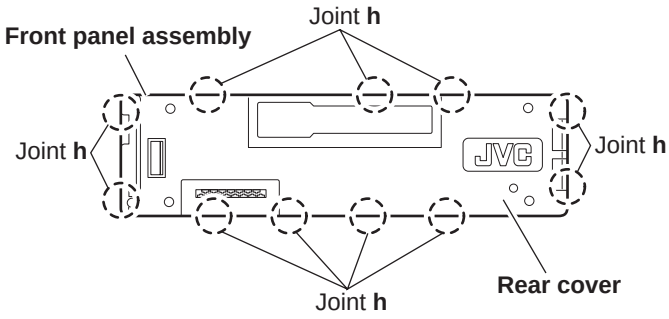


Fig.10

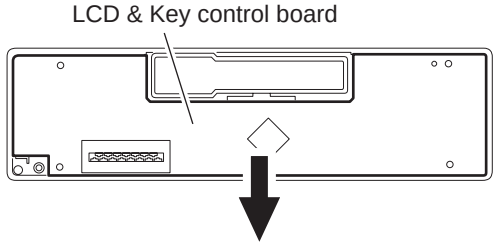


Fig.11

2.2 CD Mechanism Assembly

REFERENCE:

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

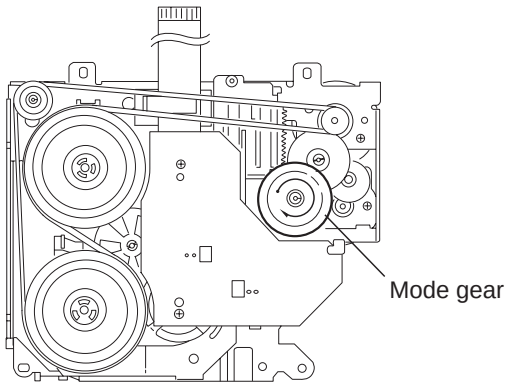


Fig.1

2.2.1 Removing the cassette guide (See Fig.2)

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

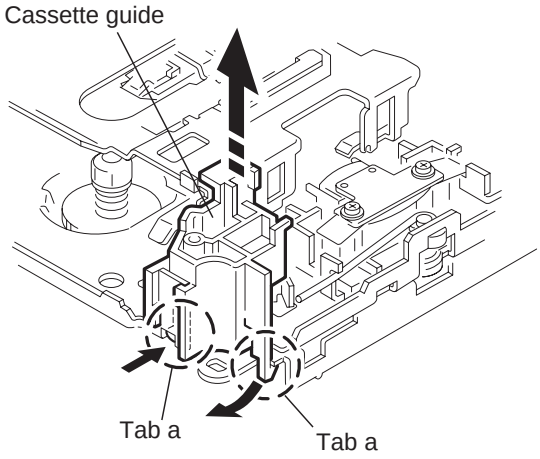


Fig.2

2.2.2 Removing the load arm (See Fig.3)

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

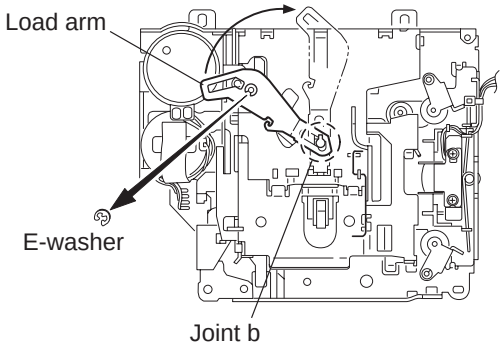


Fig.3

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

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

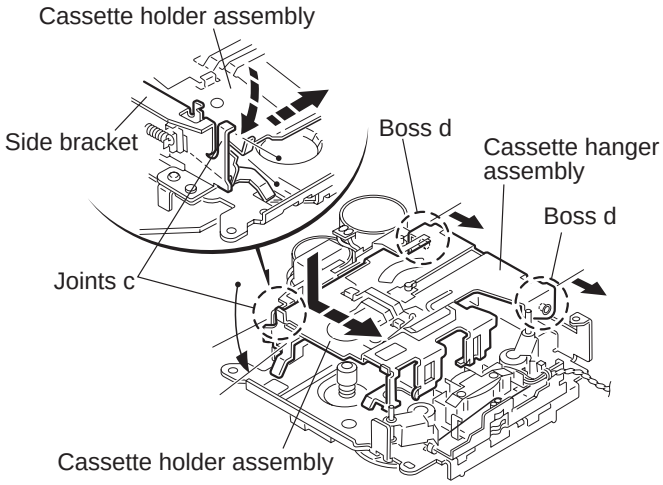


Fig.4

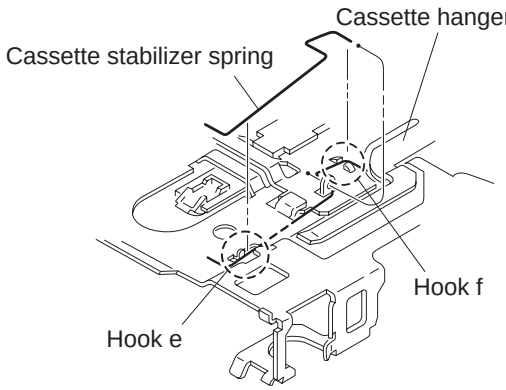


Fig.5

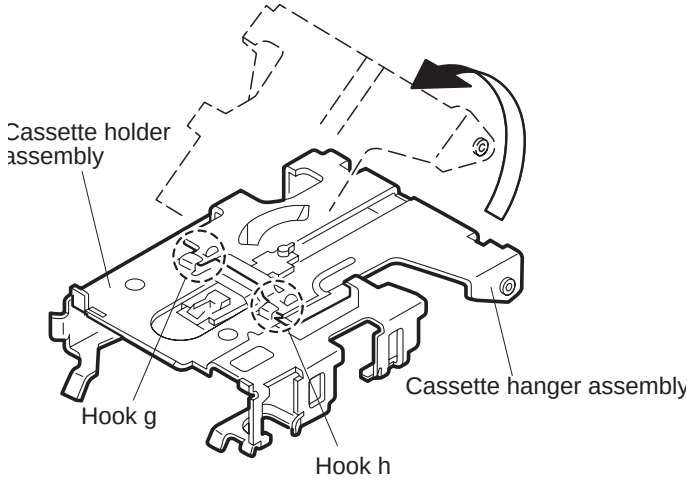


Fig.6

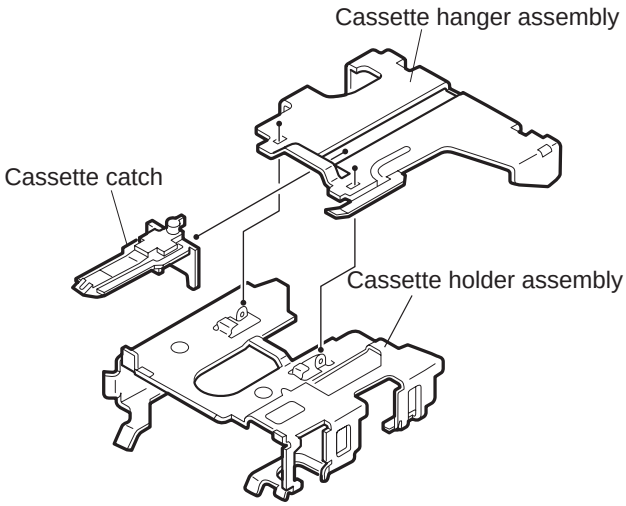


Fig.7

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

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

CAUTION:

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

CAUTION:

After reattaching the side bracket assembly, confirm operation.

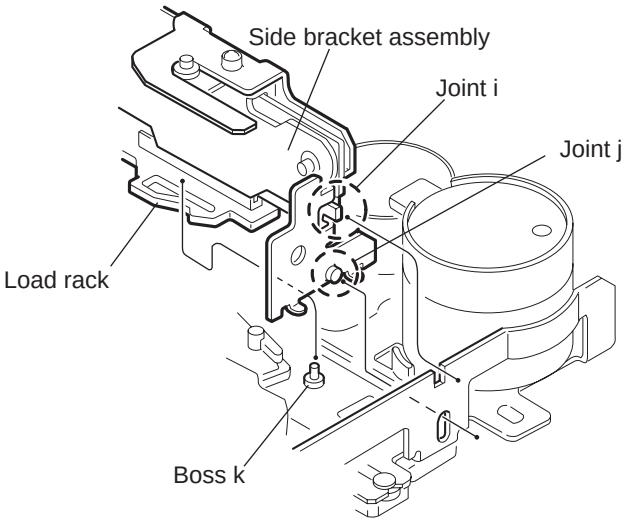


Fig.9

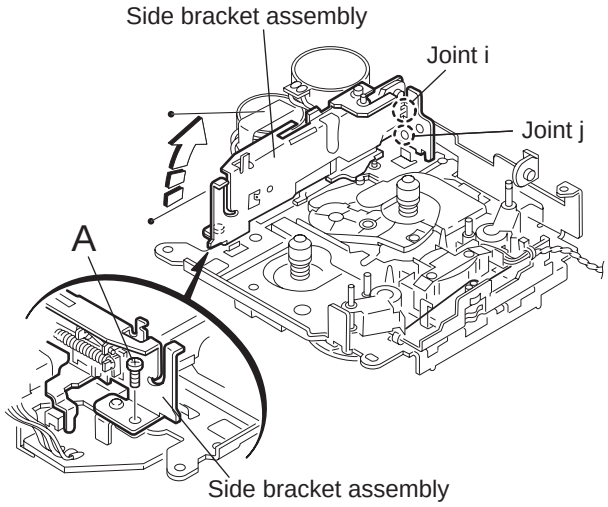


Fig.8

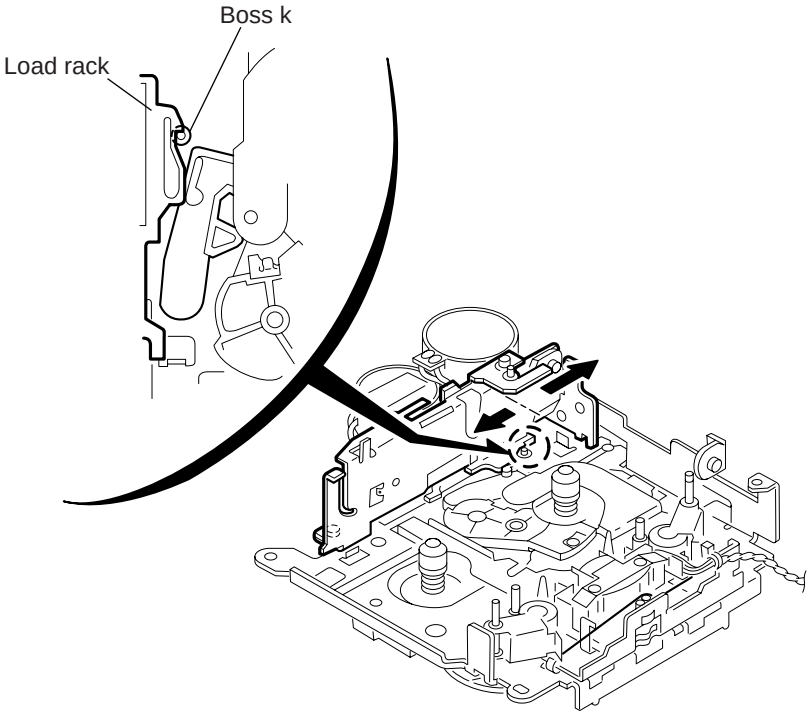


Fig.10

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

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

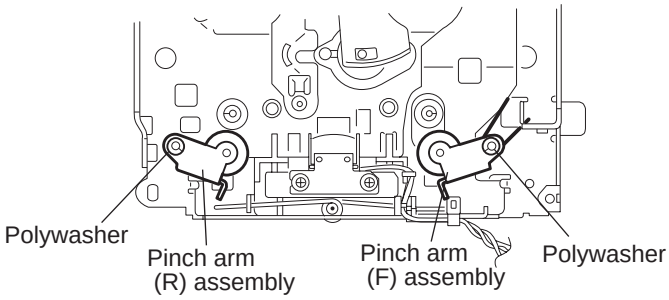


Fig.11

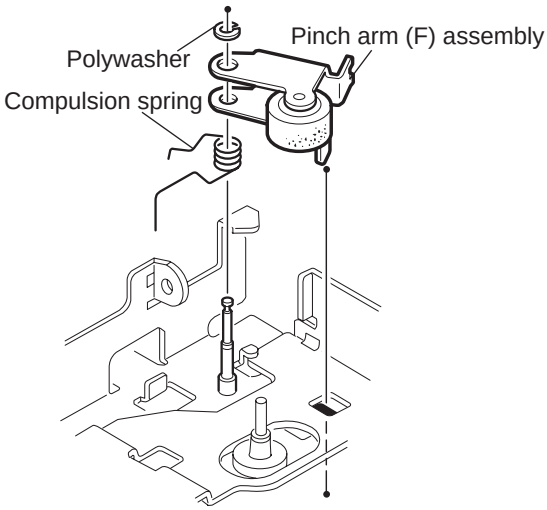


Fig.12

2.2.6 Removing the pinch arm (R) assembly (See Fig.11 and 13)

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

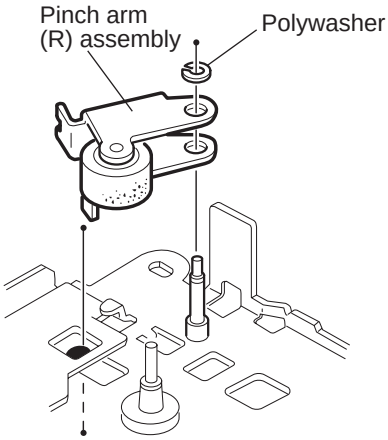


Fig.13

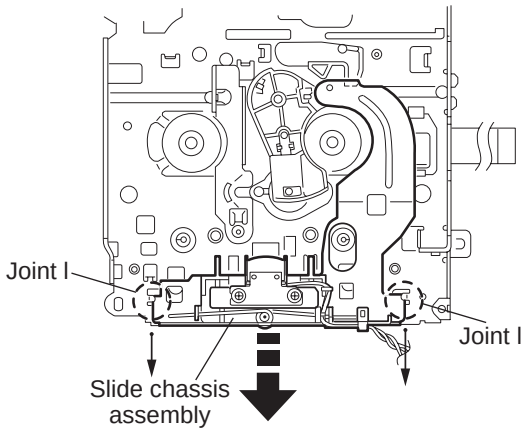


Fig.14

2.2.7 Removing the slide chassis assembly (See Fig.14 and 15)

REFERENCE:

It is not necessary to remove the head and the tape guide.

(1) Move the slide chassis assembly in the direction of the arrow to release the two joints **l** and remove from the main chassis.
(2) Remove the rack link.

CAUTION:

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

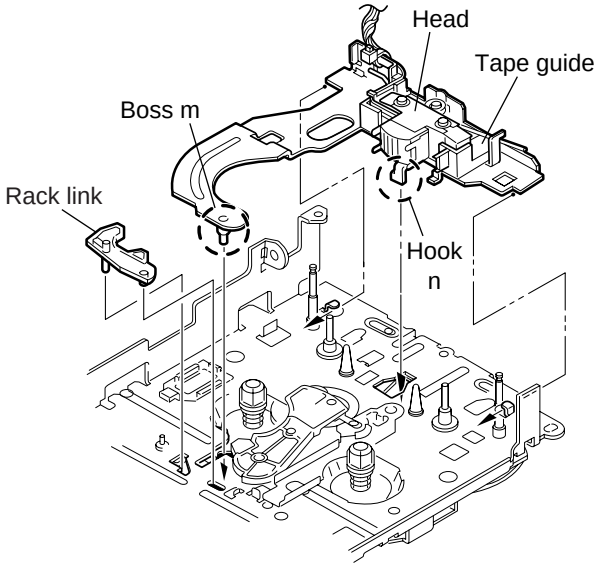


Fig.15

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

REFERENCE:

It is not necessary to remove the slide chassis assembly.

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

CAUTION:

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

CAUTION:

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

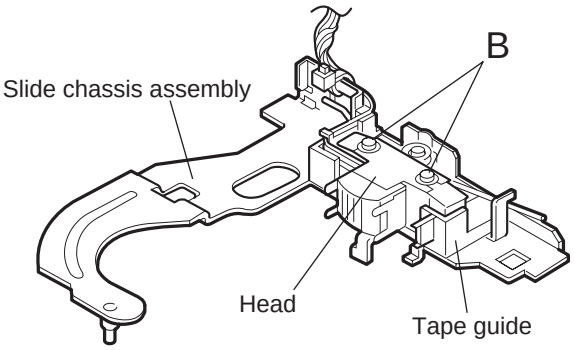


Fig.16

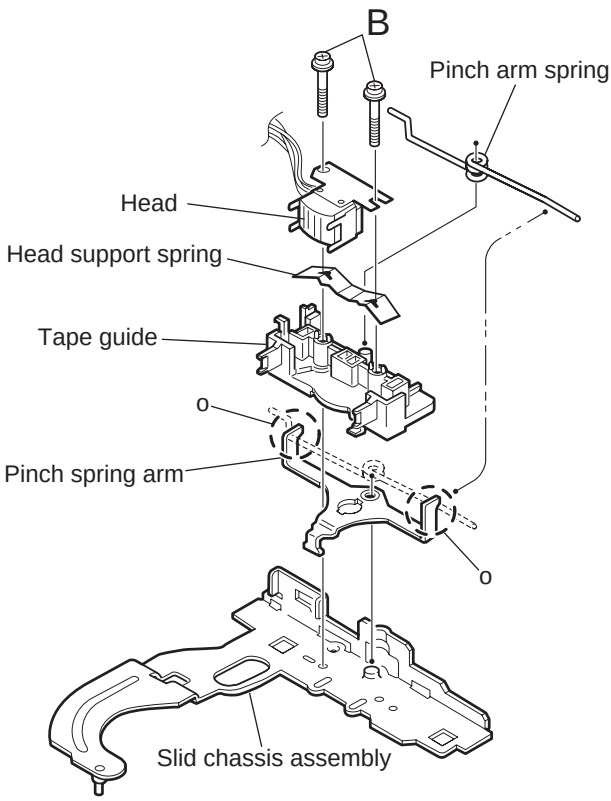


Fig.17

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

REFERENCE:

It is not necessary to remove the slide chassis assembly.

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

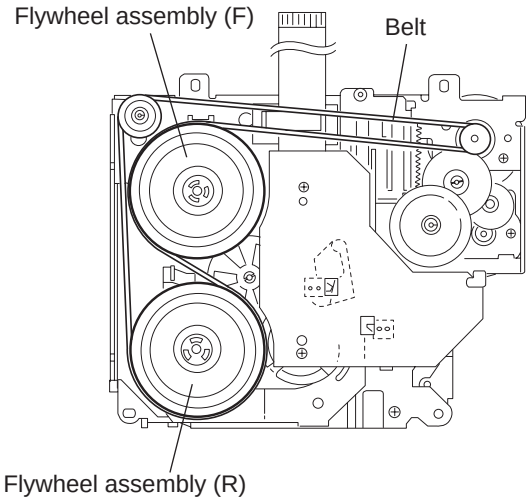


Fig.18

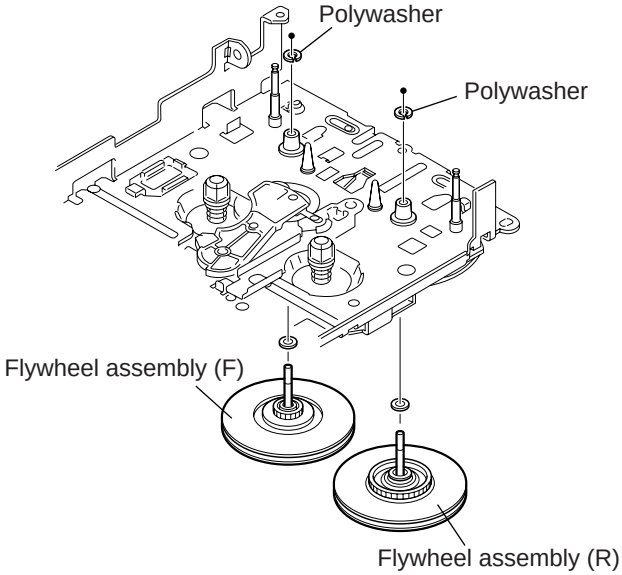


Fig.19

2.2.10 Disassembling the flywheel assembly (F) (See Fig.20 and 21)

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

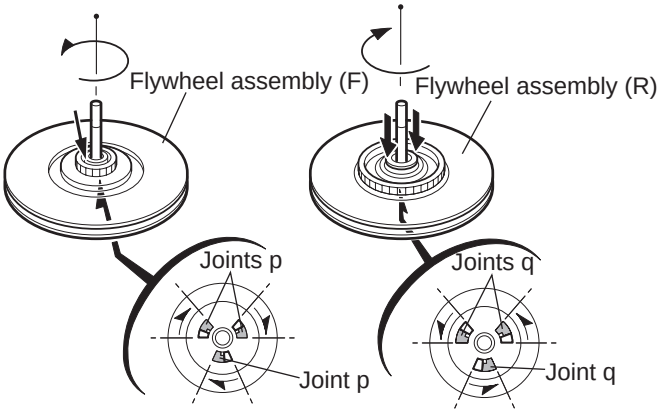


Fig.20

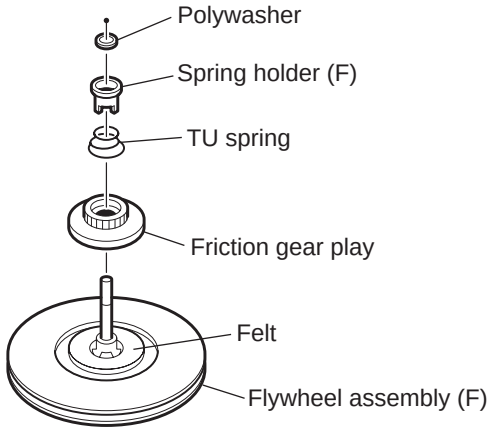


Fig.21

2.2.11 Disassembling the flywheel assembly (R) (See Fig.20 and 22)

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

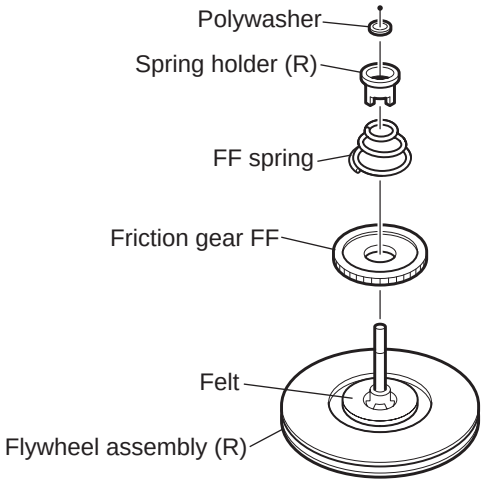


Fig.22

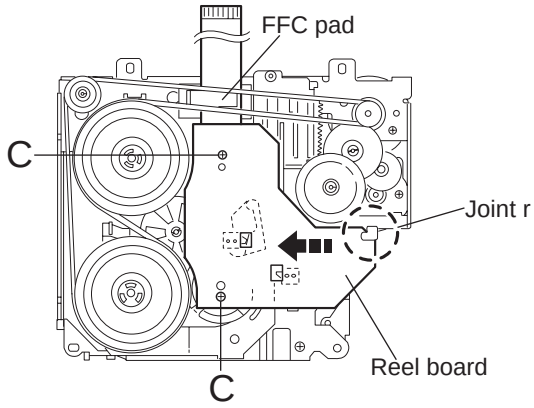


Fig.23

2.2.12 Removing the reel board (See Fig.23 and 24)

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

CAUTION:

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

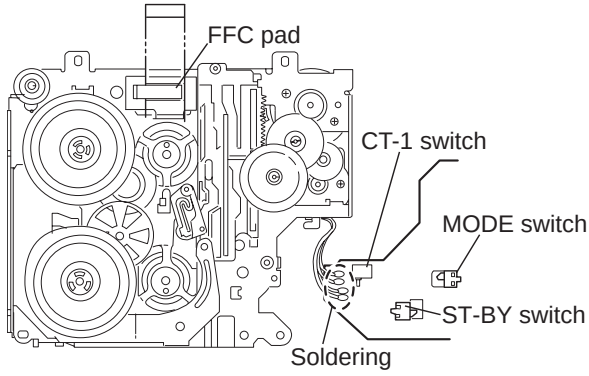


Fig.24

2.2.13 Removing the gear base arm / gear base link assembly (See Fig.25 to 27)

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

REFERENCE:

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

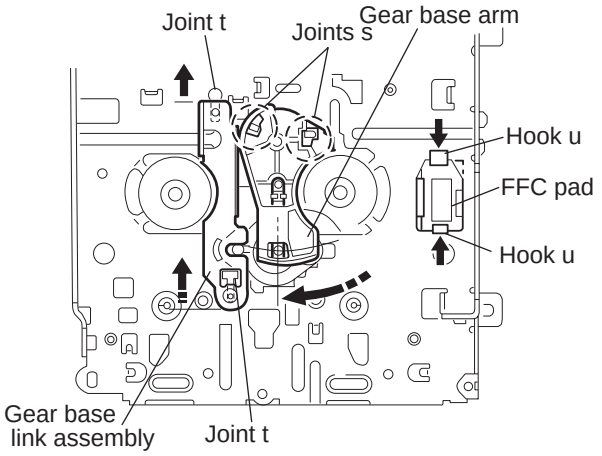


Fig.25

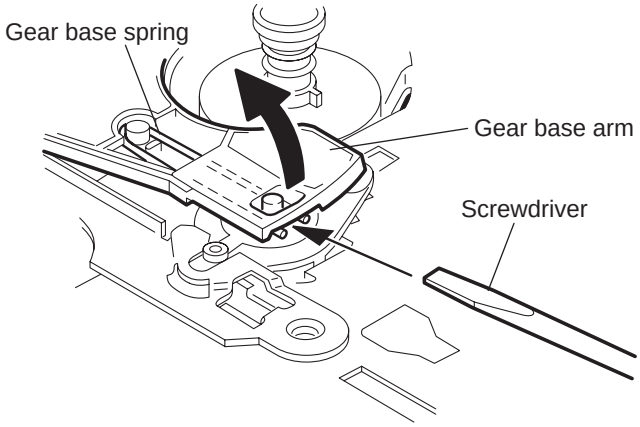


Fig.26

2.2.14 Removing the FFC pad (See Fig.27 and 29)

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

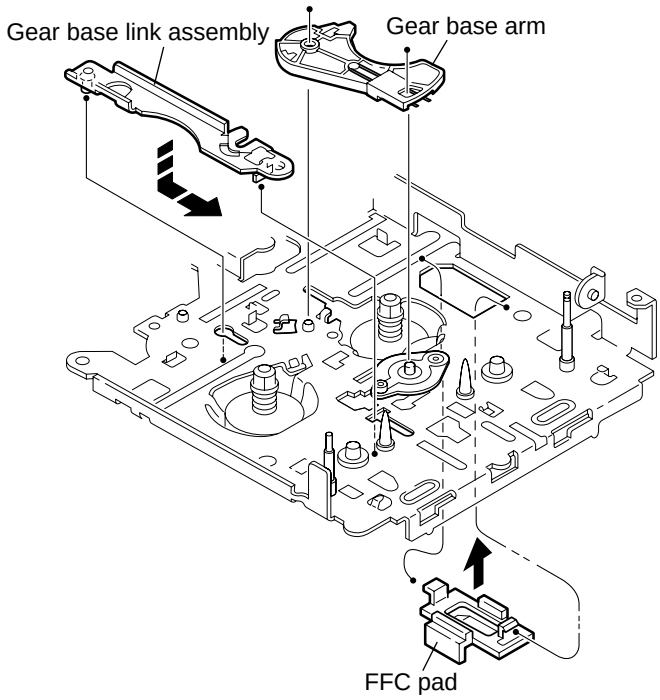


Fig.27

2.2.15 Removing the mode gear
(See Fig.28 and 31)

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

2.2.16 Removing the mode switch actuator
(See Fig.28, 29 and 31)

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

REFERENCE:

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

2.2.17 Removing the direction link / direction plate
(See Fig.29 to 31)

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

REFERENCE:

When reattaching the direction plate, engage the two joints **a'** and move in the direction of the arrow (Refer to Fig.30).

REFERENCE:

When reattaching the direction link, move the direction plate in the direction of the arrow and engage the three joint **x**, **y** and **z** at a time (Refer to Fig.31).

2.2.18 Removing the mode rack assembly
(See Fig.29 and 30)

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

REFERENCE:

When reattaching, set the two **b'** Eon the bottom of the mode rack assembly into the slots of the main chassis and move in the direction of the arrow (See Fig.30).

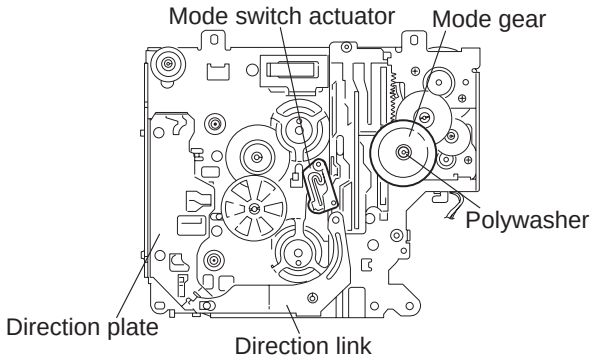


Fig.28

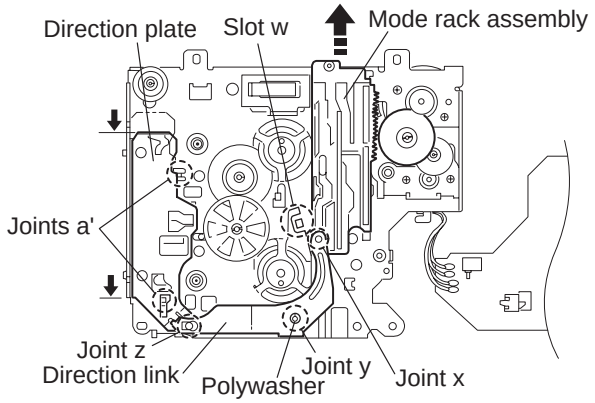


Fig.29

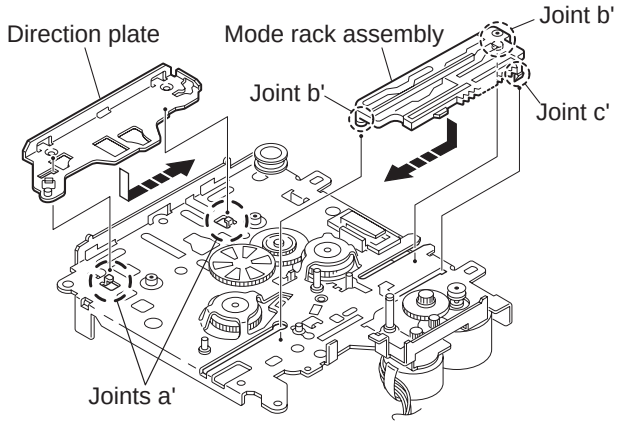


Fig.30

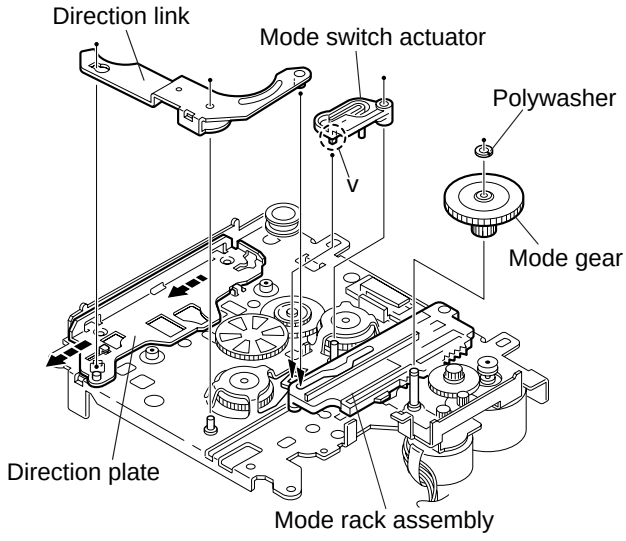


Fig.31

2.2.19 Removing the gear base assembly / take up gear / reflector gear (See Fig.32 to 34)

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

REFERENCE:

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

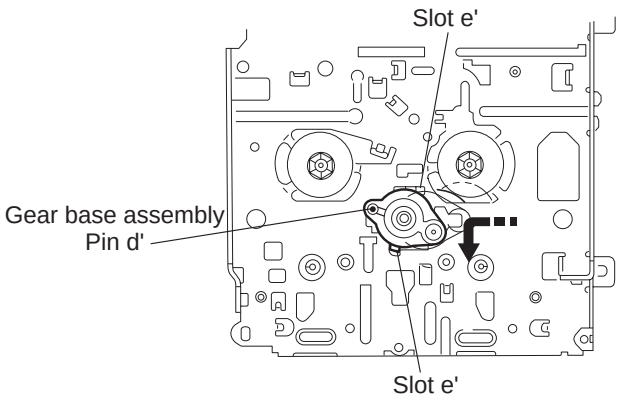


Fig.32

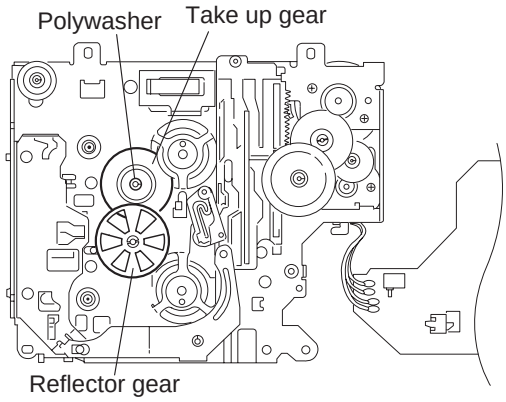


Fig.33

2.2.20 Removing the reel driver / reel spindle (See Fig.34)

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

CAUTION:

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

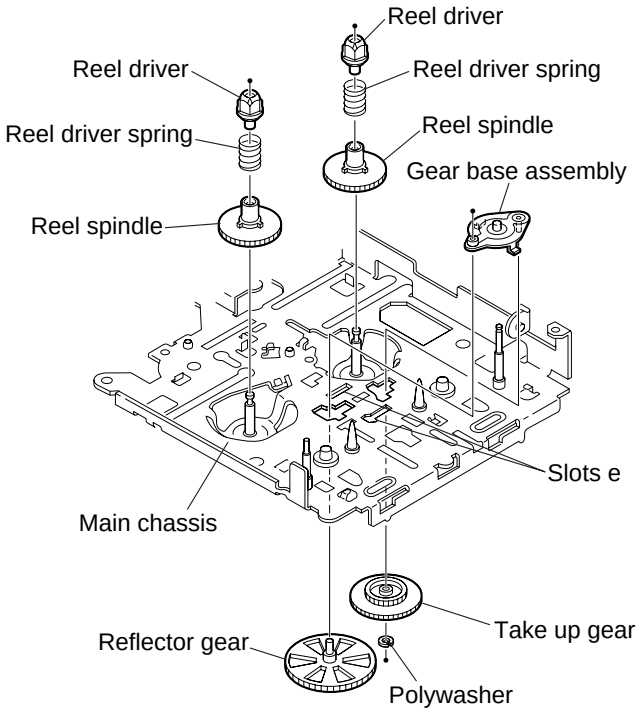


Fig.34

2.2.21 Removing the side bracket assembly (See Fig.35 to 39)

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

CAUTION:

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

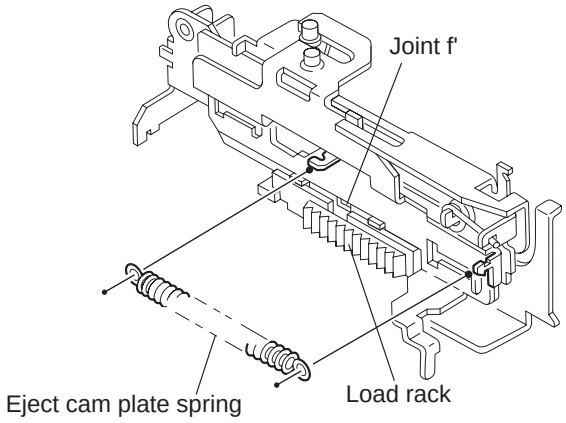


Fig.35

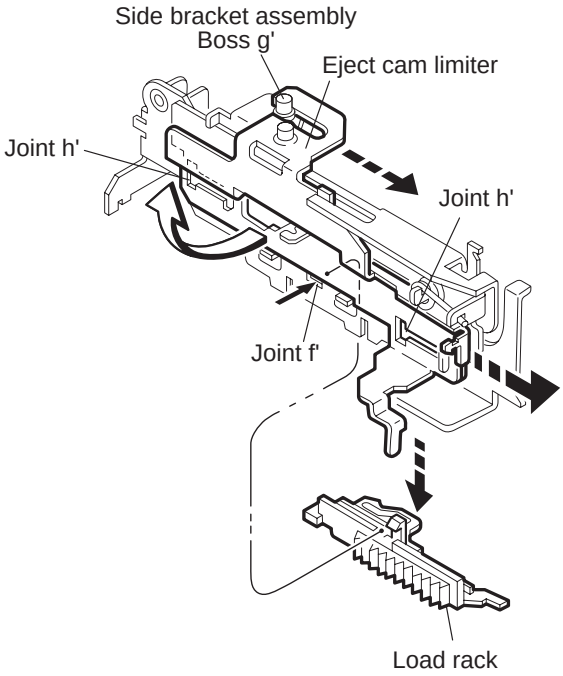


Fig.36

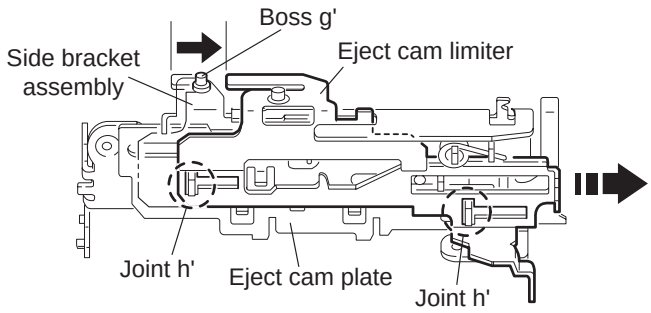


Fig.37

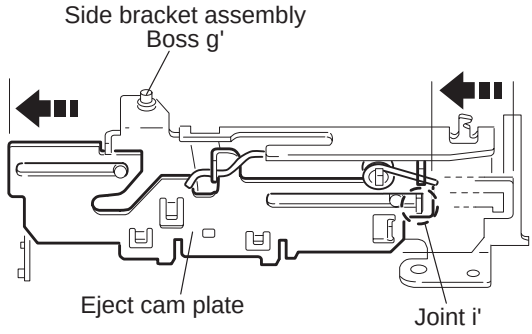


Fig.38

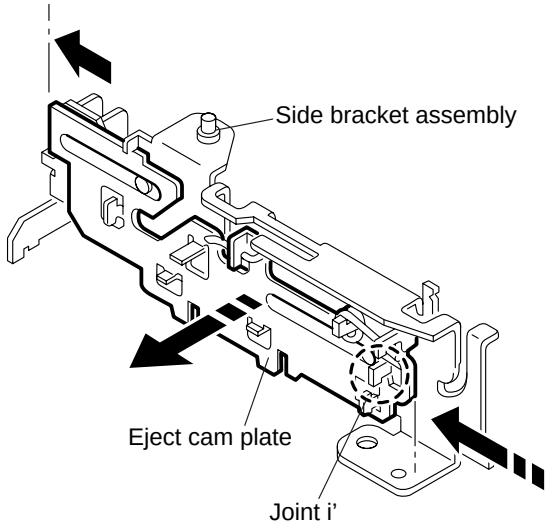


Fig.39

2.2.22 Removing the main motor assembly / sub motor assembly (See Fig.40 to 42)

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

CAUTION:

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

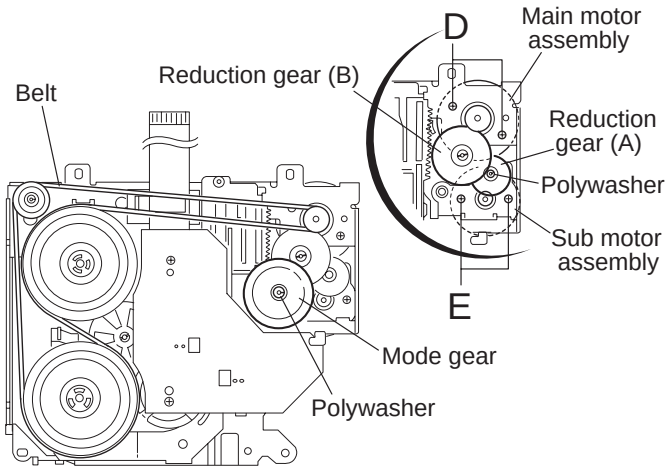


Fig.40

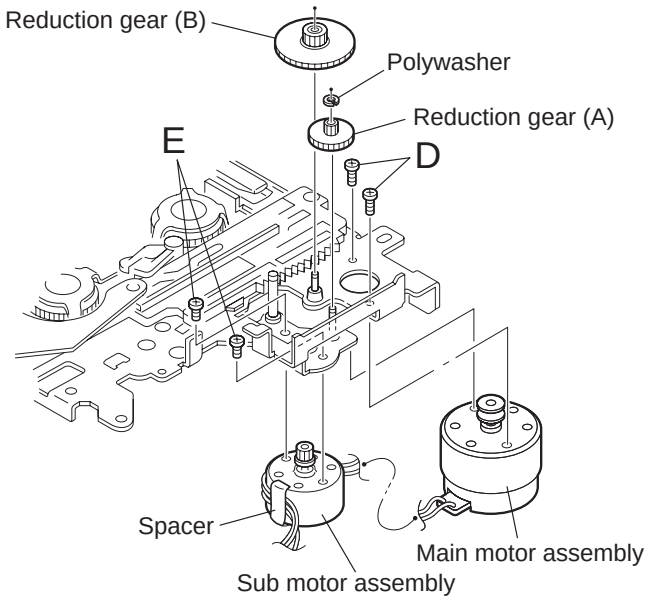


Fig.41

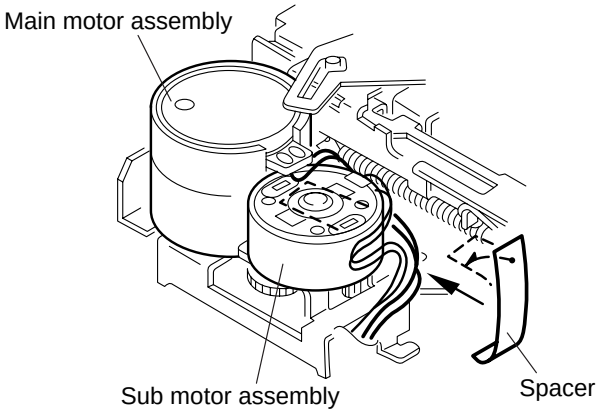


Fig.42

SECTION 3
Adjustment

3.1 Adjustment method

■Test instruments reqired for adjustment

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

■Standard volume position

Balance and Bass, Treble volume, Fader
: Center(Indication"0")
Loudness, Dolby NR, Sound, Cruise : Off
Volume position is about 2V at speaker output with following conditions, Playback the test tape VT721.

AM mode	999kHz/62dB, INT/400Hz, 30% modulation signal on recieving.
FM mono mode	97.9MHz/66dB, INT/400Hz, 22.5kHz deviation pilot off mono
FM stereo mode	1kHz, 67.5kHz dev.pilot 7.5kHz dev
Output level	0dB (1μV,50Ω/open terminal)

■Measuring conditions(Amplifier section)

Power supply voltage..... DC14.4V(11V to 16V allowance)
Load impedance..... 4Ω (4Ωto 8Ω allowance)
Line out level/Impedance.....1.0V/20kΩload (250 nWb/m)

■Frequency band

Band	FM		87.5 MHz to 108.0MHz
	AM	MW	522 kHz to 1620 kHz
		LW	144 kHz to 279 kHz

■Information for using a car audio service jig

1. We're advancing efforts to make our extension cords common for all car audio products.
   Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord : EXTKSRT002-18P (18 pin extension cord) For connection between mechanism assembly and main board.
4. Check for mechanism driving section such as motor ,etc.

■Disassembly method

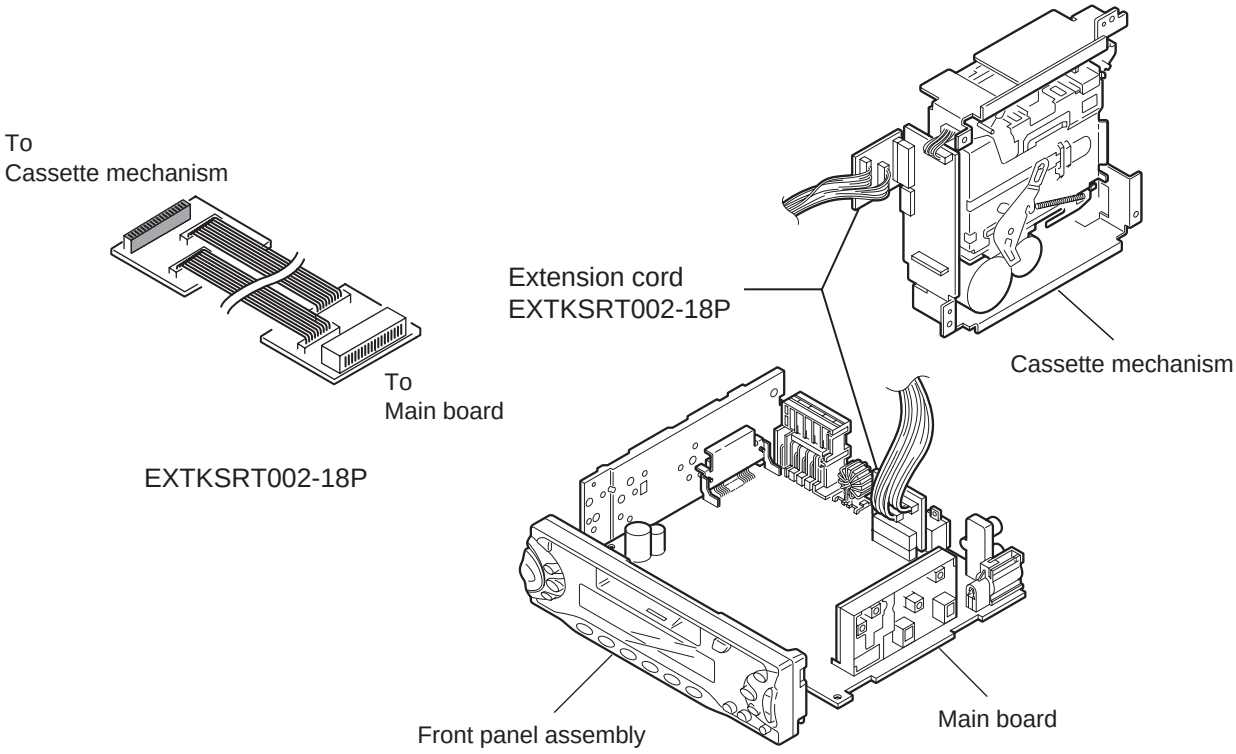
1. Remove the front panel assembly.
2. Remove the bottom cover.
3. Remove the front chassis.
4. Remove the rear panel.
5. Remove the heat sink.
6. Remove the main board.
7. Reattach the heat sink with two screw B. (Refer to Disassembly method.)
8. Install the front chassis and front panel assmbly.
9. Confirm that current is being carried by connecting an extension cord jig.

Note

Available to connect to the CJ701 connector when installing the front panel.

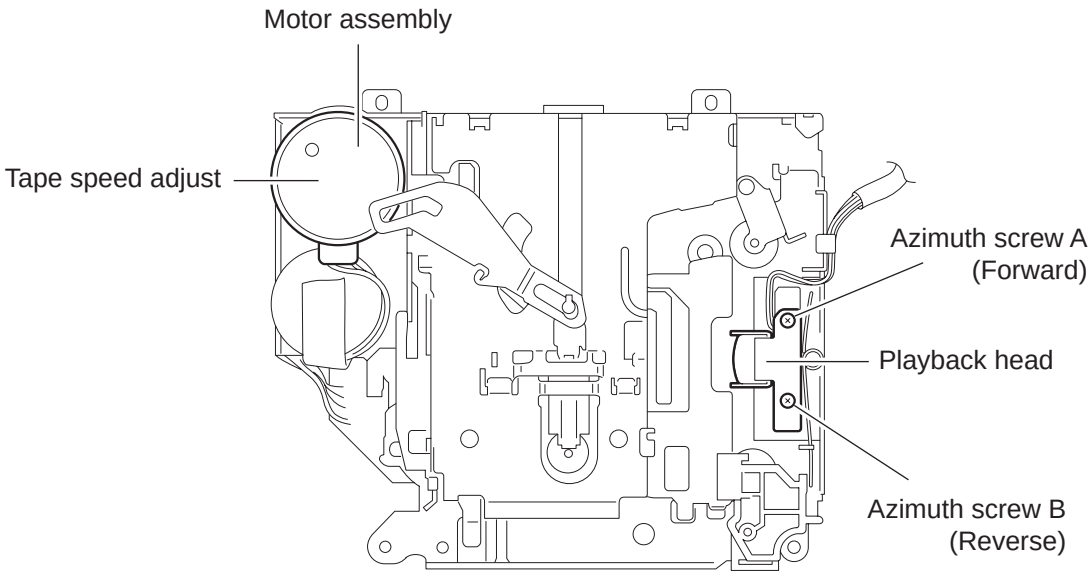
CAUTION :

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

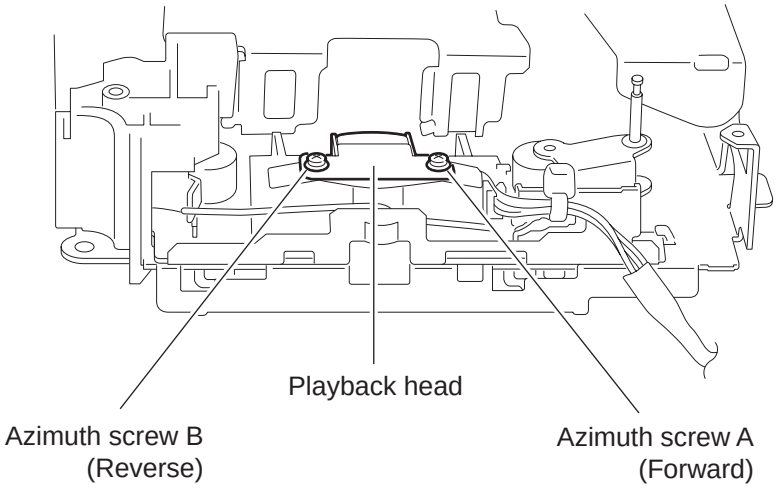


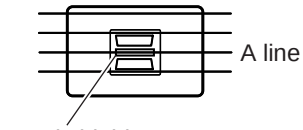
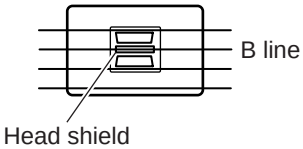
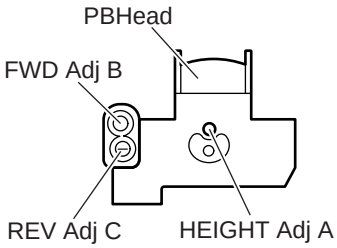
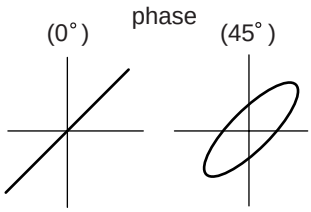
■ Arrangement of adjusting & test points

Cassette mechanism
(Surface)



Head section view



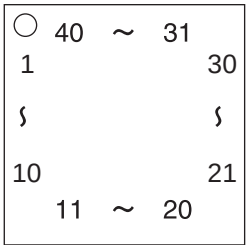
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. Head azimuth adjustment	Test tape: SCC-1659 VT703(10kHz)	◆ Head height adjustment ※ Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment. 1. Load the SCC-1659 mirror tape. Adjust with height adjustment screw A and azimuth adjustment screw B so that line A of the mirror tape runs in the center between Lch and Rch in the reverse play mode. 2. After switching from REV to FWD then to REV, check that the head position set in procedure 1 is not changed. (If the position has shifted, adjust again and check.) 3. Adjust with azimuth adjustment screw B so that line B of the mirror tape runs in the center between Lch and Rch in the forward play mode. ◆ Head azimuth adjustment 1. Load VT724 (1kHz) and play it back in the reverse play mode. Set the Rch output level to max. 2. Load VT703 (10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to max, with azimuth adjustment screw B. In this case, the phase difference should be within 45°. 3. Engage the reverse mode and adjust the output level to max, with azimuth adjustment screw C. (The phase difference should be 45° or more.) 4. When switching between forward and reverse modes, the difference between channels should be within 3dB. (Between FWD L and R, REV L and R.) 5. When VT721 (315Hz) is played back, the level difference between channels should be within 1.5dB.	 Head shield The head is at low position during.  Head shield The head is at High position during REV. Output level: Maximum  	
2. Tape speed and wow flutter confirmation	Test tape: VT712 (3kHz)	1. Check to see if the reading of the F, counter / wow flutter meter is within 3015Hz to 3045Hz (FWD/ REV), and less than 0.35% (JIS RMS). 2. In case of out of specification, adjust the motor with a built-in volume resistor.	Tape speed: 3015Hz to 3045Hz Wow flutter: less than 0.35%	Built-in volume resistor
3. Play back frequency response confiramation	Test tape: VT724 (1kHz) VT739 (63Hz / 1kHz / 10kHz)	1. Play test tape VT724, and set the volume position at 2V. 2. Play test tape VT739 and confirm. 1kHz / 10kHz: -1 ± 3dB, 1kHz / 63Hz: 0 ± 3dB, 3. When 10kHz is out of specification, it will be necessary to read adjust the azimuth.	Speaker out 1kHz / 63Hz : 0±3db 1kHz / 10kHz : -1±3db	

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

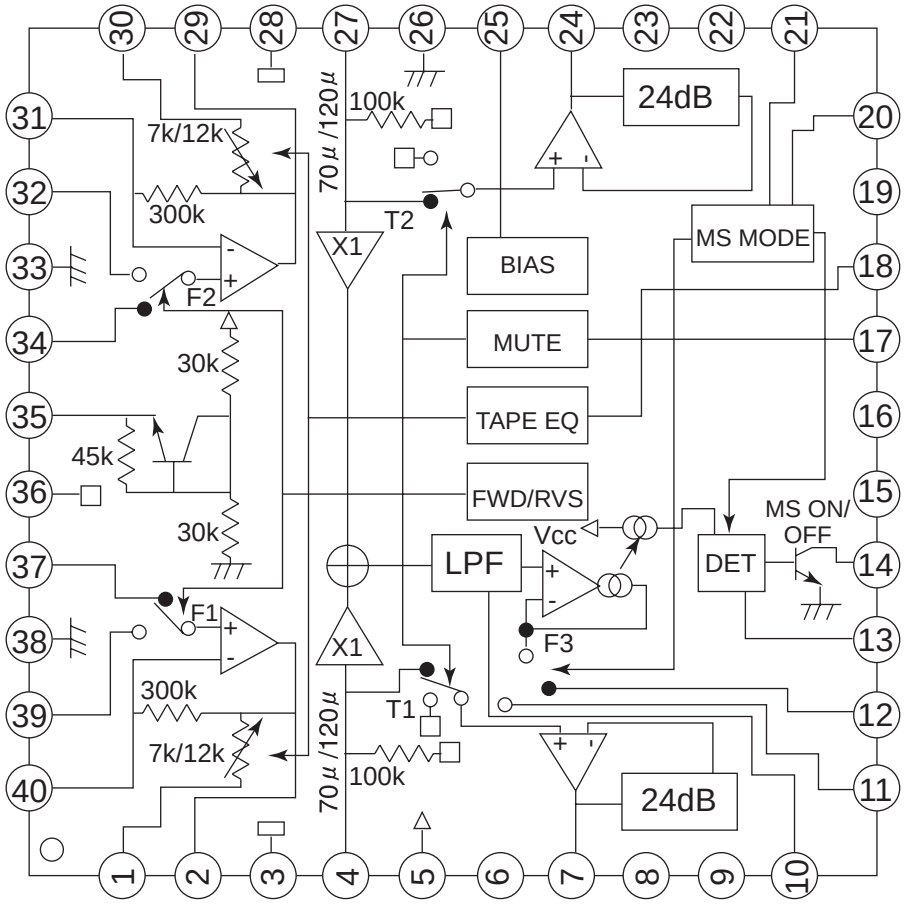
SECTION 4
Description of major ICs

4.1 CXA2559Q (IC401) : Head amp.

- Pin layout

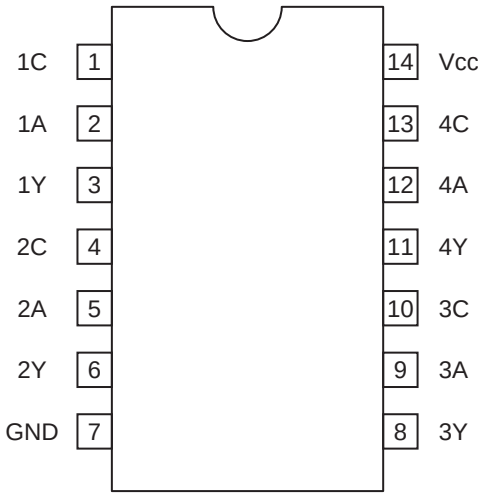


- Block diagram



4.2 HD74HC126P (IC801) : Changer control

- Pin arrangement

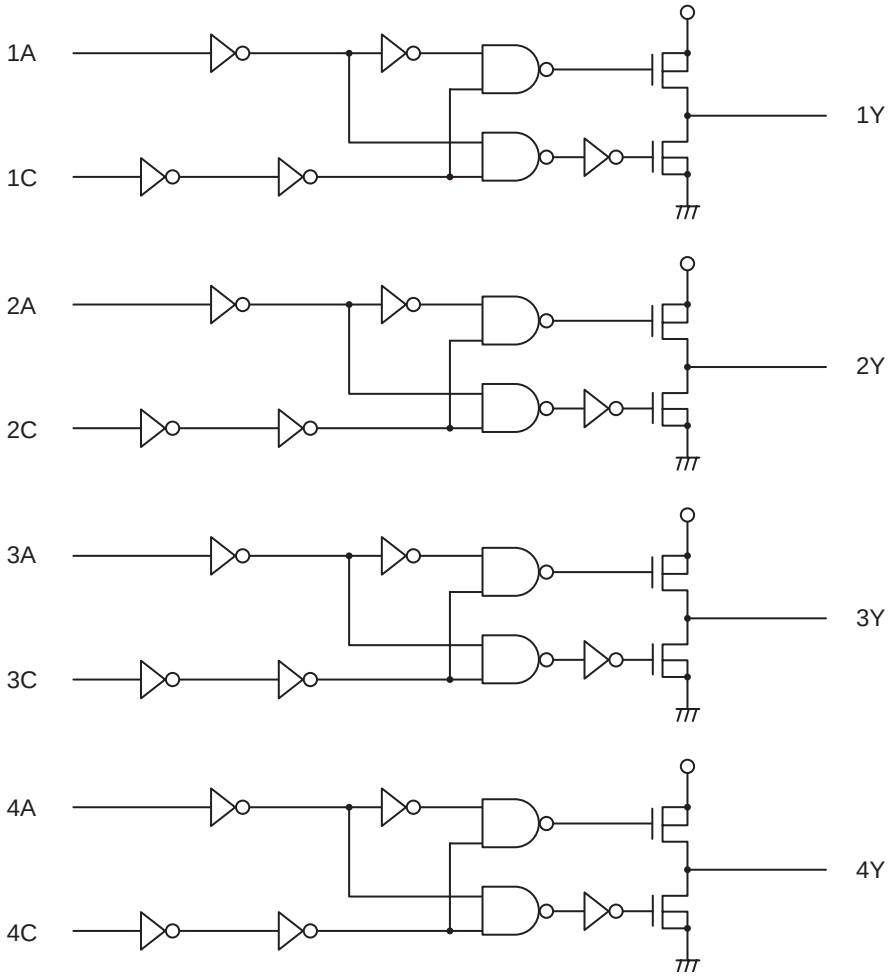


(TOP VIEW)

- Pin function

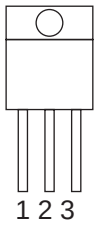
Input		Output
C	A	Y
L	X	Z
H	L	L
H	H	H

- Block diagram

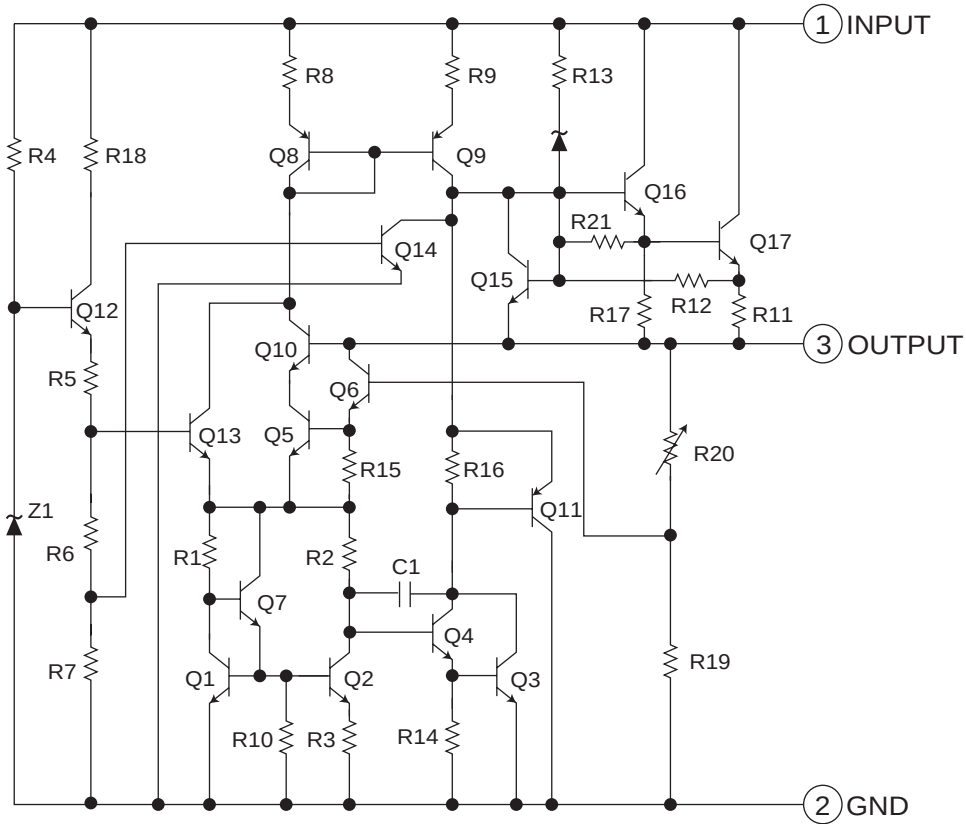


4.3 KIA7810PI (IC902) : Regulator

- Pin layout

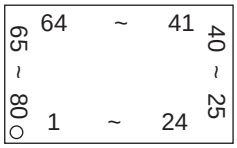


- Block diagram



4.4 LC72366-9B41 (IC701) : Micon

- Pin layout



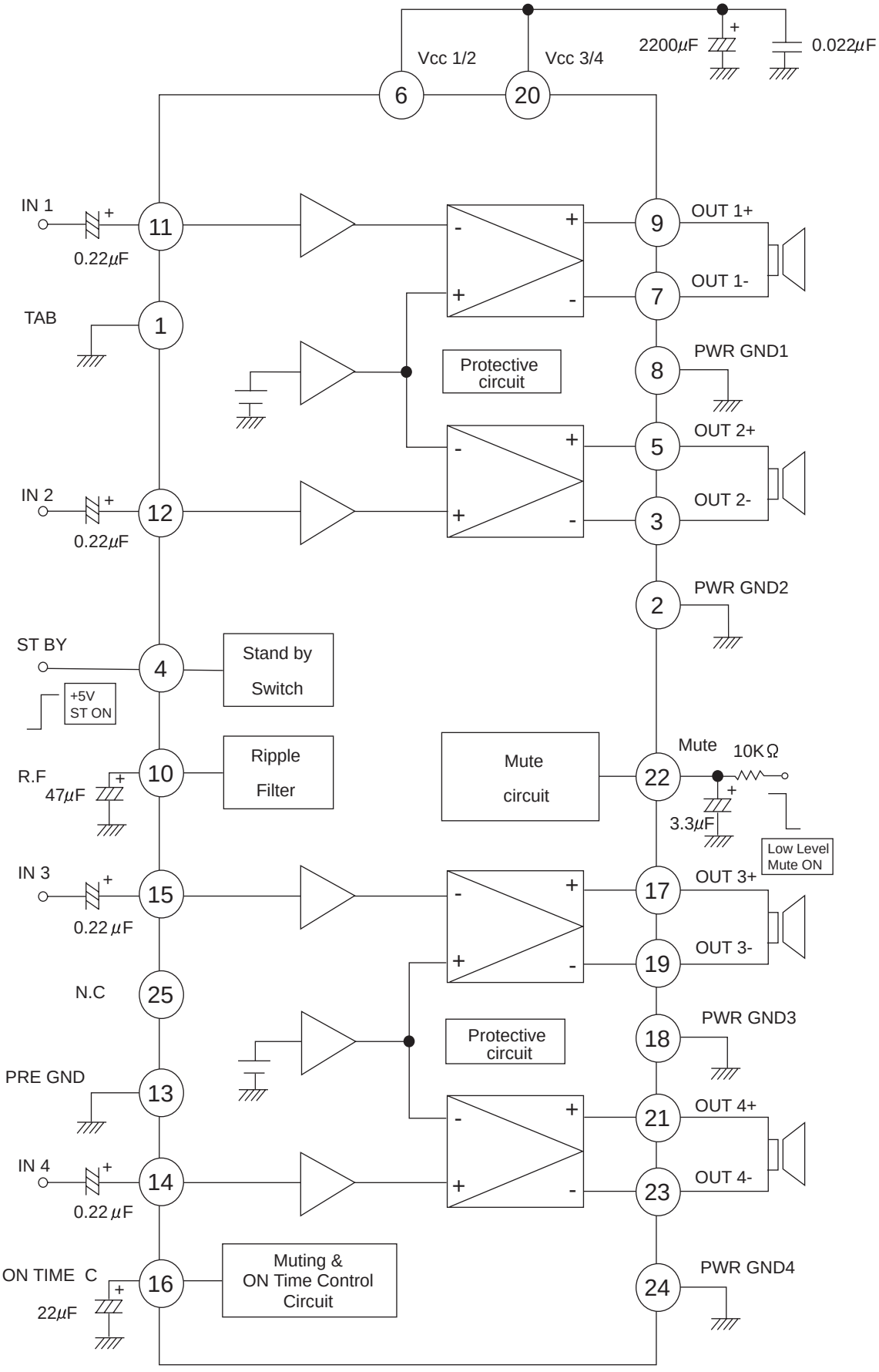
- Pin function

Pin No.	Symbol	I/O	Function
1	XIN	I	4.5MHz crystal oscillation
2	TEST2	-	Connect to ground
3	J-BUS SI	I	J-BUS signal data input (to 74HC126)
4	J-BUS SO	O	J-BUS signal data output (to 74HC126)
5	J-BUS SCK	O	J-BUS output clock signal (to 74HC126)
6	J-BUS I/O	I/O	J-BUS I/O control ie. "H" = "O", "L" = "I" (to 74HC126)
7	NC	-	No use
8	LCD SO	O	LCD driver data output (to LC75823E pin 64)
9	LCD SCK	O	LCD driver clock signal (to LC75823E pin 63)
10	LCD CE	O	LCD driver chip enable port (to LC75823E pin 62)
11	NC	-	No use
12	SDA	O	E. volume data output (to TEA6320T pin 1)
13	SCL	O	E. volume clock output (to TEA6320T pin 32)
14	NC	-	No use
15	TUNER_ILL	O	Connect to LED (of TUNER button)
16	TAPE_ILL	O	Connect to LED (of TAPE button)
17	CD_ILL	O	Connect to LED (of CD button)
18	DIMMER	O	Connect to display lamp supply
19~24	NC	-	No use
25	KS1	O	Output for initial setting diode matrix
26	KS0	O	Output for initial setting diode matrix
27	K3	I	Input for initial setting diode matrix
28	K2	I	Input for initial setting diode matrix
29	K1	I	Input for initial setting diode matrix
30	K0	I	Input for initial setting diode matrix
31	Vdd	-	5V supply
32	TEST	I	Change key input to test mode
33	FF/REW	O	Change MS IC input sensitivity (L at FF/REW)
34	SEEK/STOP	O	IF count REQ and output [H] at seek.and scan
35	MONO	O	Output [H] at FM forced monoral mode
36	R/T	O	Output of mode radio / tape (Radio:H.Tape:L)
37	NC	-	No use
38	POWER ON	-	Output [H] at power on
39	ACC	O	Output [H] during [ACC DET] is [H]
40	IFC CONT	O	IF count control output (To tuner cct)
41	MOTER	O	Main motor output (Drive:H Stop:L)
42	SUB MOTER+	O	Sub motor output (sub motor loading)
43	SUB MOTER-	O	Sub motor output (sub motor eject)
44	BEEP	O	Beep on (output f :2.25KHz)

Pin No.	Symbol	I/O	Function
45	TAPE IN	I	Detect cassette in SW. [H] at cassette in
46	STAND BY	I	Detect stand by SW position.
47	REEL	I	Pulse input
48	MODE	I	Detect mode position.
49	F/R	O	Output F/R (Forward:L Reverse:H)
50	MS IN	I	Detect MS. [H] at no music.
51	SD/ST	I	Station detect and FM stereo signal input [H] at SD
52	DETACH	I	Front panel detect
53	JOG-0	I	Rotary encoder input 0
54	JOG-1	I	Rotary encoder input 1
55	JBUS INT	I	J-BUS interrupt (to 74HC126)
56	REMOCON	I	Remocon input
57	BAND	O	FM/AM band selection ("H" : FM, "L" : AM)
58	DOLBY	O	Output DOLBY mode ("H" : DOLBY on)
59	IFRQ/AGC	O	During FM auto search IF request output 'H' after SD detected. During AM auto search AGC output ("H" : auto search)
60	MUTE	O	Muting switch
61	P.SAVE2	I	Power save 2 : +B detect
62	LEVEL	I	Level meter input
63	S.METER	I	S meter input
64	KEY2	I	Key 2 data input (AD)
65	KEY1	I	Key 1 data input (AD)
66	KEY0	I	Key 0 data input (AD)
67	P.SAVE1	I	Power save 1, ACC power detect
68	SNS	I	Voltage sense
69	NC	-	
70	FM IF COUNT	I	FM IF counter data input
71	NC	-	
72	NC	-	
73	Vdd	-	5V supply
74	NC	-	
75	FM OSC	I	FM input frequency
76	Vss	-	Ground
77	NC	-	
78	EO	O	PLL error output signal
79	TEST1	-	Connect to ground
80	XOUT	O	4.5MHz crystal oscillation

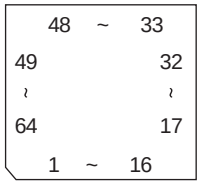
4.5 LA4743K (IC301) : Power amp.

- Block diagram

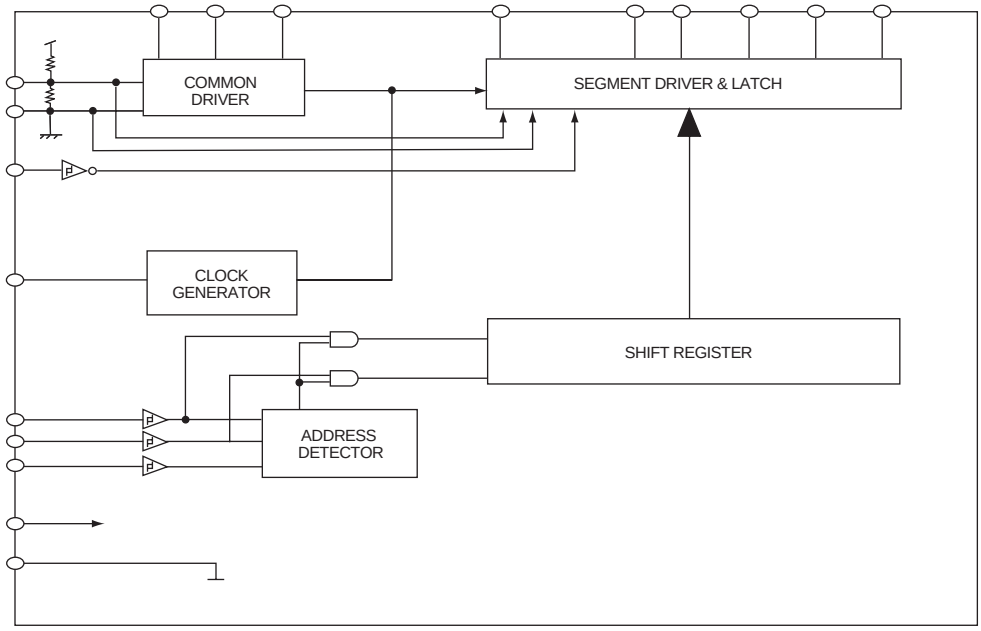


4.6 PT6523LQ (IC651) : LCD driver

- Pin layout



- Block diagram



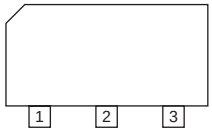
- Piin function

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

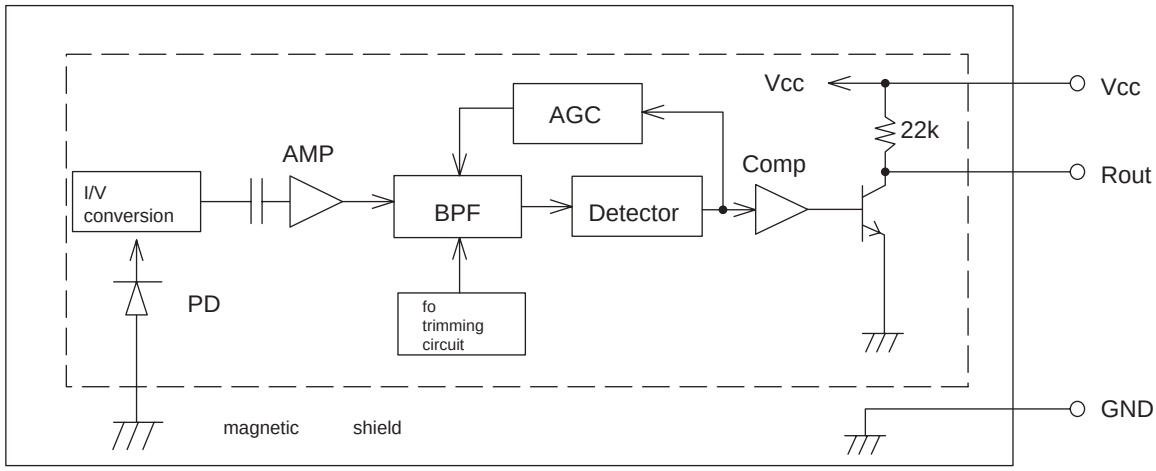
Note 1:
When $\overline{INH}$ = "LOW" : Serial data trensfers can be performed when the display is forcibly OFF.

4.7 RPM6938-SV4 (IC652) : Remote sensor

- Pin diagram

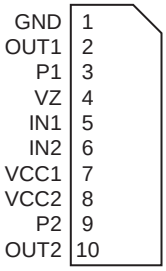


- Block diagram



4.8 LB1641 (IC402) : DC motor driver

- Pin layout

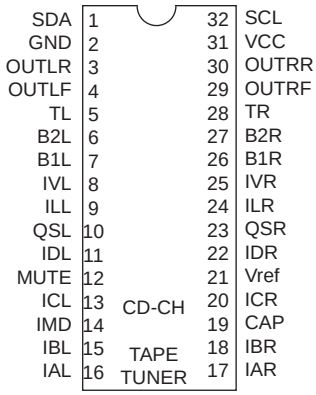


- Truth table

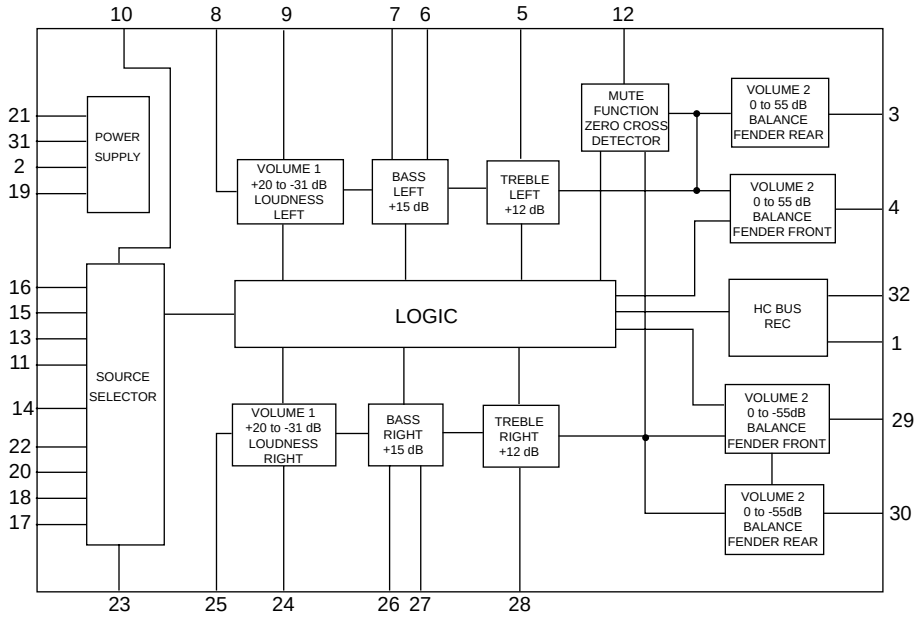
Input		Output		Mode
IN1	IN2	OUT1	OUT2	
0	0	0	0	Brake
1	0	1	0	CLOCKWISE
0	1	0	1	COUNTER-CLOCKWISE
1	1	0	0	Brake

4.9 TEA6320T-X (IC161) : E.volume

- Pin layout



- Block diagram



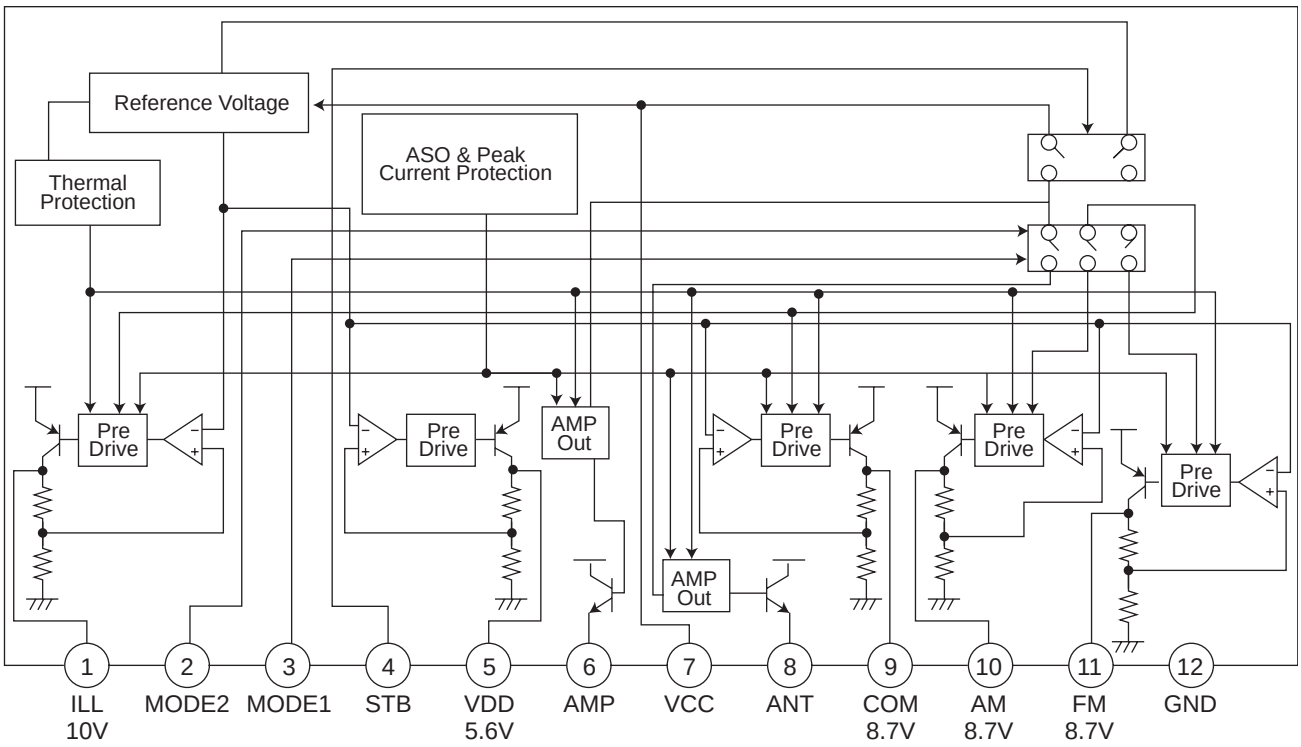
- Pin functions

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 AN80T05 (IC901) : Regulator

- Terminal layout & Block diagram



- Pin function

Pin No.	Symbol	Function
1	ILL	10V power supply for illumination.
2	MODE2	When 5V is input,becomes AM. and the antenna output is turned on.
3	MODE1	When 5V is input,becomes AM. and the output of FM is switched.
4	STB	When 5V is input outputs to ILL,COM,and AMP. It is 0V usually.
5	VDD	5.6V power supply.
6	AMP	Power supply supply to remote amplifier
7	VCC	Back up. connects with ACC with it.
8	ANT	Psower supply supply to auto antenna.
9	COM	8.7V power supply.
10	AM	The power supply of 8.7V to AM.
11	FM	The power supply of 8.7V to FM.
12	GND	Ground

JVC

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

(No.49825)

Printed in Japan
200303WPC

PARTS LIST

[KS-FX621]

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

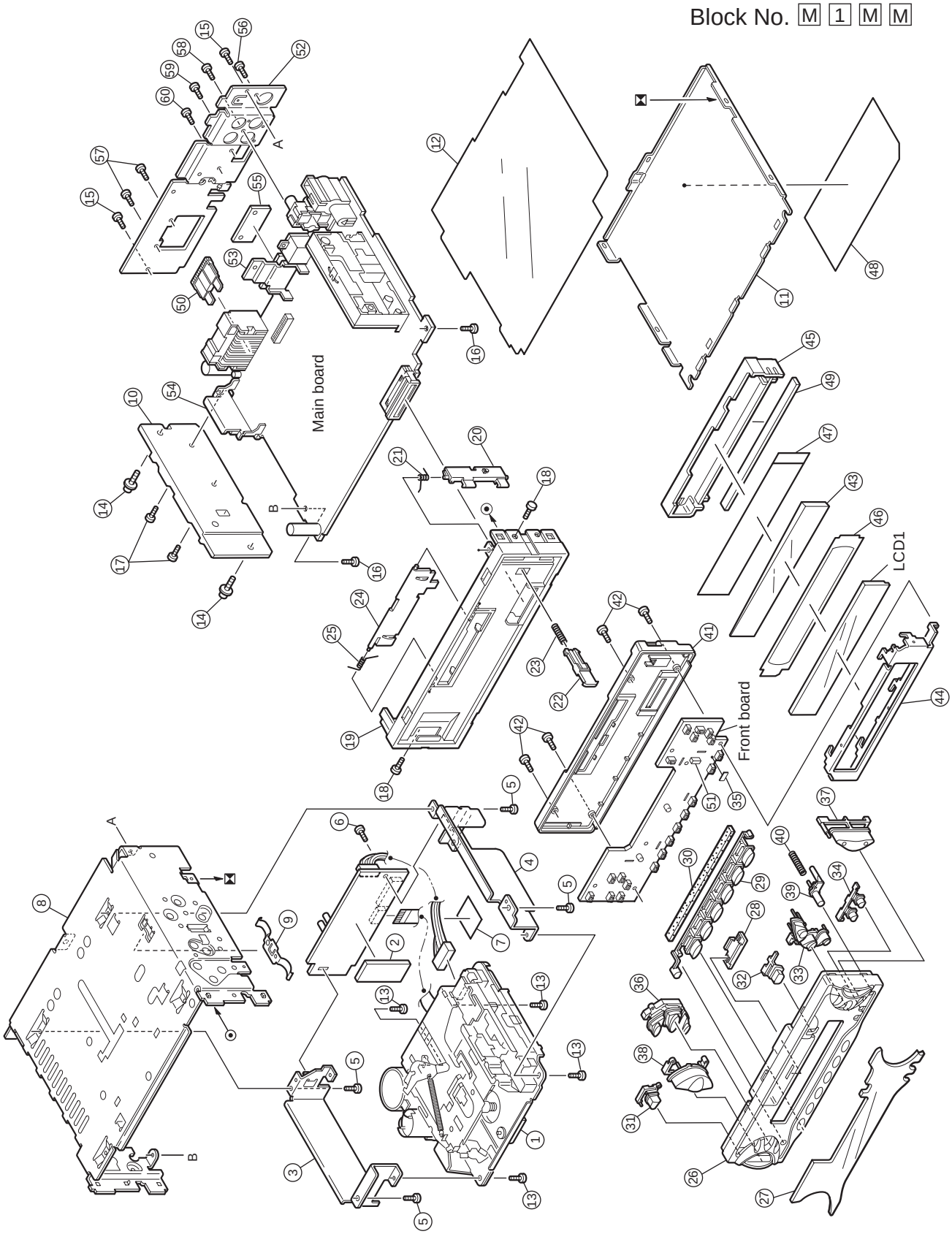
Area suffix

U ---------- Other Areas

- Contents -

Exploded view of general assmbly and parts list

Block No. M 1 M M



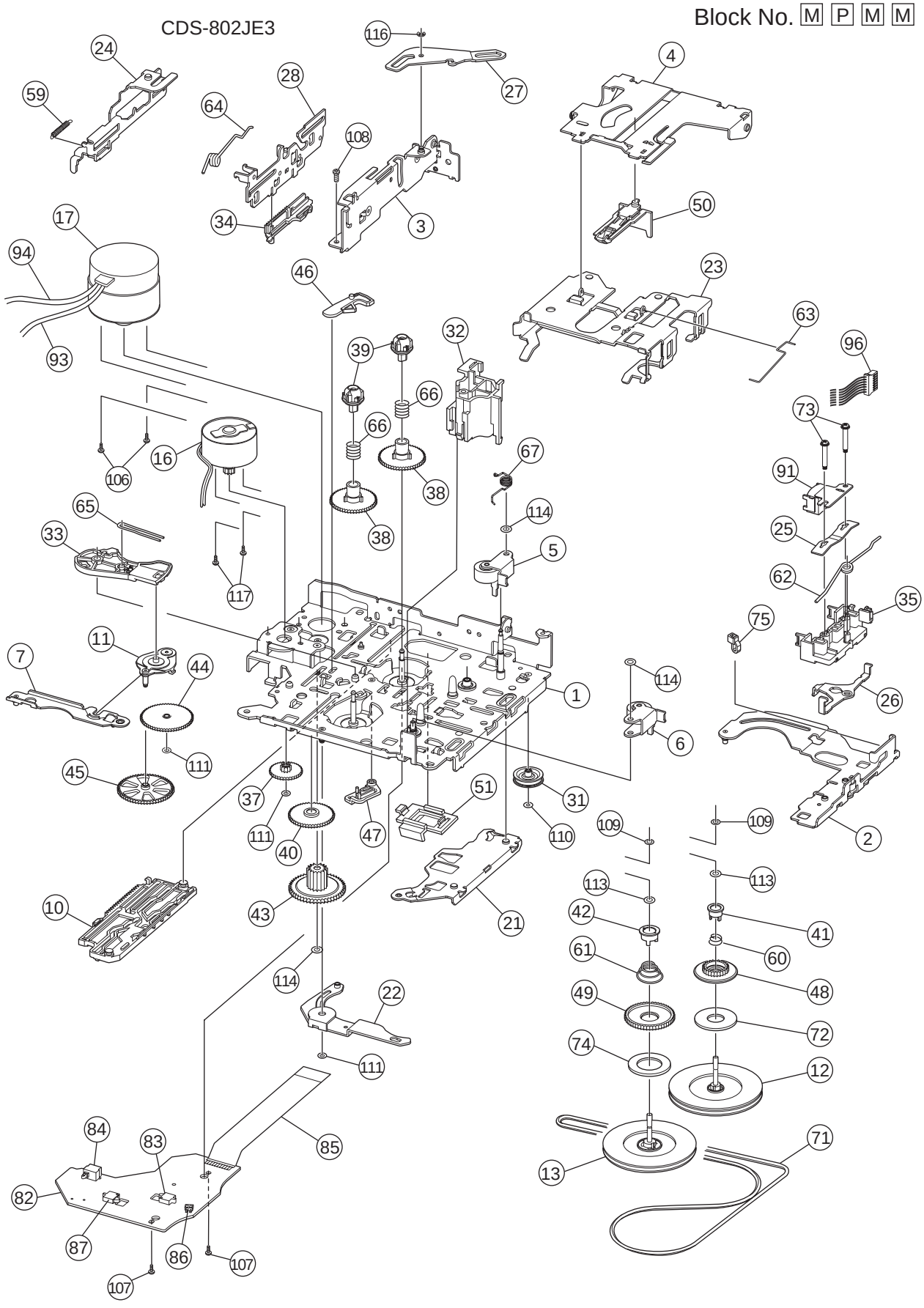
Exploded view of general assembly and parts list

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	----------	MECHA		
2	FSYH4036-050	SPACER		
3	GE20136-001A	MECHA BKT(L)		
4	FSKL2002-002	MECHA BKT(R)		
5	QYSDST2606Z	SCREW	2.6mm x 6mm(x4)	
6	QYSDST2606Z	SCREW	2.6mm x 6mm	
7	LV40847-002A	SPACER		
8	GE10043-011A	TOP CHASIS		
9	GE40135-001A	EARTH PLATE		
10	GE30568-006A	HEAT SINK		
11	GE30393-001A	BOTTOM COVER		
12	FSMA3004-203	INSULATOR		
13	QYSDST2604Z	SCREW	2.6mm x 4mm(x4)	
14	FSKZ4005-001	SCREW		(x2)
15	QYSDST2604Z	SCREW	2.6mm x 4mm(x2)	
16	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)	
17	QYSDST2612Z	SCREW	2.6mm x 12mm(x2)	
18	QYSDST2004M	MINI SCREW	2mm x 4mm(x2)	
19	GE10054-001A	FRONT CHASSIS		
20	GE30583-001A	LOCK LEVER		
21	FSKW4005-003	TORSION SPRING		
22	FSXP3026-002	RLS KNOB		
23	FSKW3002-004	COMP. SPRING		
24	FSJC3014-003	CASSETTE LID		
25	VKW4947-002	DOOR SPRING		
26	GE10039-001A	FRONT PANEL		
27	GE30303-006A	FINDER ASSY		
28	FSJK3014-001	LIGHT LENS		
29	GE20119-001A	PRESET BUTTON		
30	FSYH4036-077	SHEET		
31	GE30304-001A	POWER BUTTON		
32	GE30305-001A	EJECT BUTTON		
33	GE20131-012A	D.FUNC. BUTTON		
34	GE30307-001A	SND FUNC BUTTON		
35	FSYH4036-032	SHEET		
36	GE20130-002A	PUSH BUTTON		
37	GE20120-001A	UP/DOWN BUTTON		
38	GE20118-002A	+/- BUTTON		
39	GE30306-001A	DETACH BUTTON		
40	FSKW3002-012	COMP.SPRING		
41	GE10040-002A	REAR COVER		
42	VKZ4777-001	MINI SCREW		(x4)
43	GE30308-001A	LCD LENS		
44	GE30309-001A	LCD CASE		
45	GE30310-001A	LENS CASE		
46	GE40125-003A	LIGHTING SHEET		
47	GE40171-001A	LIGHTING SHEET		
48	GE30648-001A	NAME PLATE		
49	QNZ0440-001	LCD CONNECTOR		
⚠ 50	QMFZ047-150-T	FUSE		15A
51	GE30854-001A	LED HOLDER		
52	GE30382-013A	REAR BRACKET		
53	GE40103-002A	REG BRACKET		
54	GE40136-001A	IC BRACKET		
55	GE40107-002A	HEAT SINK		
56	QYSDST2606Z	SCREW	2.6mm x 6mm	
57	QYSDSF2606Z	SCREW	2.6mm x 6mm(x2)	
58	QYSDSF2606Z	SCREW	2.6mm x 6mm	
59	QYSDST2606Z	SCREW	2.6mm x 6mm	
60	QYSDST2606Z	SCREW	2.6mm x 6mm	
LCD1	QLD0251-001	LCD MODULE		

Cassette mechanism assembly and parts list

Block No. M P M M

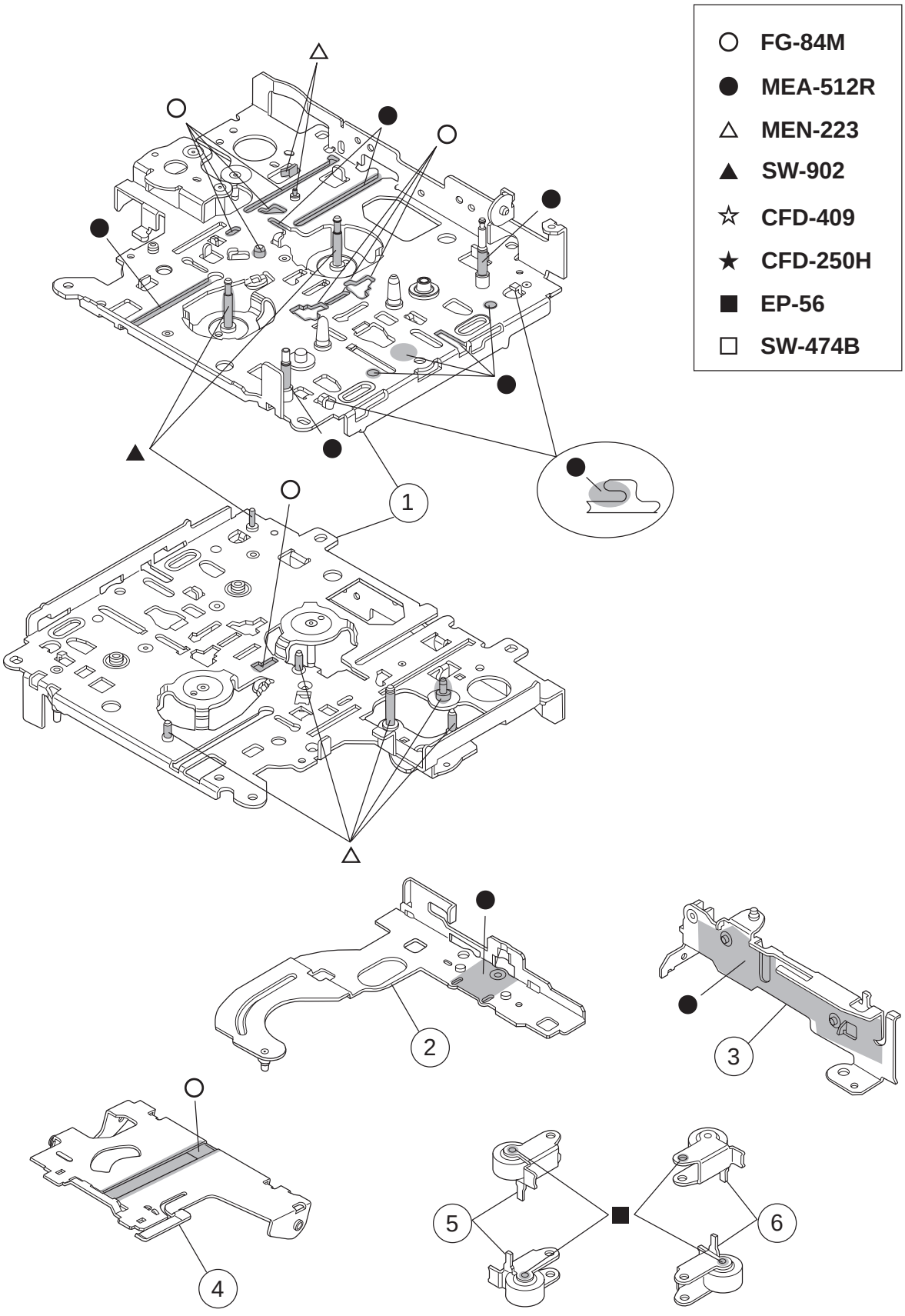


Cassette mechanism

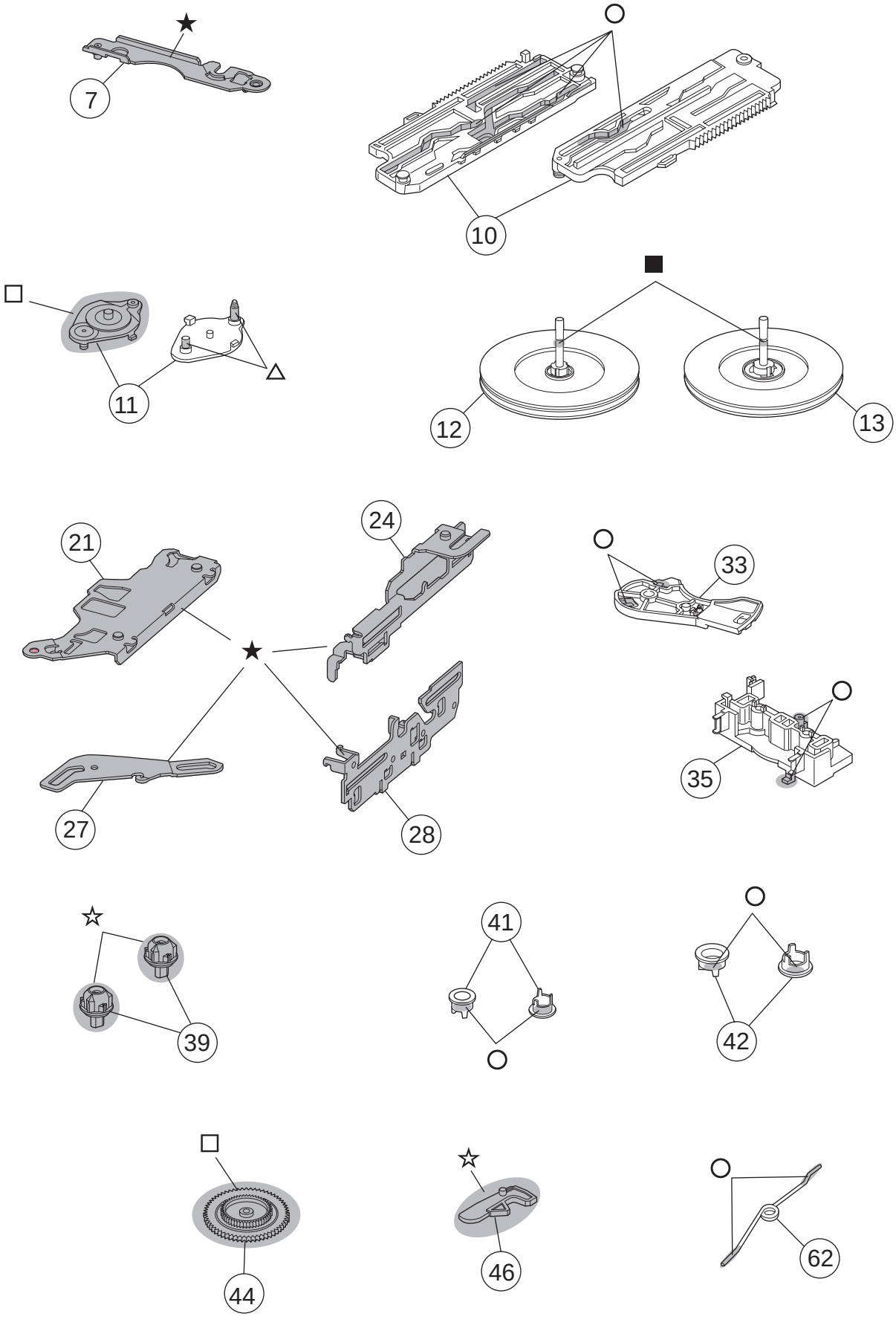
Block No. [M][P][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	X-0802-1009S	MAIN CHASSIS AS		
2	X-0802-1002S	SLIDE CHASSIS A		
3	X-0802-1003S	SIDE BKT ASSY		
4	X-0802-1004S	CASSETTE HANGER		
5	X-0802-1005S	PINCH ARM F ASS		
6	X-0802-1006S	PINCH ARM R ASS		
7	X-0802-1007S	GEARBASE LINK A		
10	X-0802-2001S	MODE RACK ASSY		
11	X-0802-2002S	GEAR BASE ASSY		
12	1-0802-6001S	FLYWHEEL ASSY F		
13	1-0802-6002S	FLYWHEEL ASSY R		
16	X-0802-7002S	SUB MOTOR ASSY		
17	X-0802-7004S	MAIN MOTOR ASSY		
21	1-0802-1002S	DIRECTION PLATE		
22	1-0802-1005S	DIRECTION LINK		
23	1-0802-1006S	CASSETTE HOLDER		
24	1-0802-1011S	EJECT CAM LIMIT		
25	1-0802-1012S	HEAD SUPT SPG		
26	1-0802-1013S	PINCH SPG ARM		
27	1-0802-1014S	LOAD ARM		
28	1-0802-1015S	EJECT CAM PLATE		
31	1-0101-2056S	IDLE PULLEY(A1)		
32	1-0802-2001S	CASSETTE GUIDE		
33	1-0802-2004S	GEAR BASE ARM		
34	1-0802-2006S	LOAD RACK		
35	1-0802-2007S	TAPE GUIDE		
37	1-0802-2009S	REDUCTION GEARA		
38	1-0802-2010S	REEL SPINDLE	(x2)	
39	1-0802-2011S	REEL DRIVER	(x2)	
40	1-0802-2012S	REDUCTION GEARB		
41	1-0802-2013S	SPG HOLDER F		
42	1-0802-2014S	SPG HOLDER R		
43	1-0802-2015S	MODE GEAR		
44	1-0802-2016S	TAKE UP GEAR		
45	1-0802-2017S	REFLECTOR GEAR		
46	1-0802-2018S	RACK LINK		
47	1-0802-2019S	MODE SW ACTUATR		
48	1-0802-2020S	FRICTION GEARPL		
49	1-0802-2021S	FRICTION GEARFF		
50	1-0802-2022S	CASSETTE CATCH		
51	1-0802-2026S	FFC PAD		
59	1-0802-4001S	EJECT CAM PL SP		
60	1-0802-4002S	TU SPG		
61	1-0802-4003S	FF SPG		
62	1-0802-4004S	PINCH ARM SPG		
63	1-0802-4005S	HOLDER STAB SPG		
64	1-0802-4006S	HOLDER CUSH SPG		
65	1-0802-4007S	GEAR BASE SPG		
66	1-0802-4008S	REEL DRIVER SPG	(x2)	
67	1-0802-4013S	COMPULSION SPG		
71	1-0802-5001S	BELT		
72	1-0802-5002S	FELT 7.5*18.5*1		
73	1-0802-5003S	AZIMUTH SCREW	(x2)	
74	1-0802-5004S	FELT 11*18.5*1		
75	1-0050-5023S	WTRE CLAMPER		
82	1-0802-7001S	REEL PCB DL		
83	1-0802-7010S	SW(MATSUCHITA ESE22)		
84	1-0802-7003S	SW(MICMPU11750)		
85	1-0802-7016S	FLAT CABLE 10P		
86	1-0801-7024S	PHOTO SENSOR		
87	1-0802-7009S	SW(MICMPU12370)		
91	1-0802-7007S	HEAD(MITSUMI P-5344)		
93	1-0801-7009-0S	M.MOTOR WIRE B		
94	1-0801-7009-1S	M.MOTOR WIRE R		
96	1-0802-7017S	JOINT WIRE ASSY		
106	2-1032-0025-C2S	SCREW	(x2)	
107	2-13S2-0025-P2S	+PLAIN SCR M2	(x2)	
108	2-1112-6035-C2S	+PLAIN SCR M2.6		
109	2-1816-0032-E8S	MYLAR WASHER(S)	(x2)	
110	2-1812-0032-D2S	PSW-S 1.2		
111	1-0036-5024S	PSW(REEL)	(x3)	
113	2-1821-0040-D1S	POLY WASHER	(x2)	
114	2-1821-0040-D2S	PSW-S 2.1	(x3)	
116	2-1711-5040-16S	E RING		
117	2-1031-7030-C2S	SCREW	(x2)	

Grease point 1/2



Grease point 2/2



Electrical parts list

Main board

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC161	TEA6320T-X	IC		
IC301	LA4743K	POWER IC		
IC701	LC72366-9B41	IC		
IC801	HD74HC126P	IC		
IC901	AN80T05	IC		
IC902	KIA7810PI	10V REGULATOR		
Q4	KRC102M-T	DIGI TRANSISTOR		
Q31	KTC3199/GL/-T	TR I/M		
Q32	KTC3199/GL/-T	TR I/M		
Q241	KTC3199/GL/-T	TR I/M		
Q301	KRC102M-T	DIGI TRANSISTOR		
Q321	2SD2144S/VW/-T	TRANSISTOR		
Q351	2SD2144S/VW/-T	TRANSISTOR		
Q701	KTC3199/GL/-T	TR I/M		
Q781	KRA102M-T	DIGI TRANSISTOR		
Q782	KRA102M-T	DIGI TRANSISTOR		
Q901	KTA1267/YG/-T	TRANSISTOR		
Q902	KRC102M-T	DIGI TRANSISTOR		
Q903	KRA102M-T	DIGI TRANSISTOR		
Q904	KRC102M-T	DIGI TRANSISTOR		
Q905	2SA1855/RST/-T	TRANSISTOR		
Q906	KRC102M-T	DIGI TRANSISTOR		
Q907	KTA1267/YG/-T	TRANSISTOR		
Q976	KTA1267/YG/-T	TRANSISTOR		
Q977	KTC3199/GL/-T	TR I/M		
D1	1SS133-T2	SI DIODE		
D2	1SS133-T2	SI DIODE		
D10	RB721Q-40-T2	DIODE		
D31	MTZJ9.1C-T2	Z.DIODE I M		
D32	1SS133-T2	SI DIODE		
D79	1SS133-T2	SI DIODE		
D241	RB721Q-40-T2	DIODE		
D242	RB721Q-40-T2	DIODE		
D310	1SS133-T2	SI DIODE		
D321	1SS133-T2	SI DIODE		
D702	1SS133-T2	SI DIODE		
D704	1SS133-T2	SI DIODE		
D705	MTZJ6.2B-T2	Z DIODE		
D706	MTZJ6.2B-T2	Z DIODE		
D707	MTZJ6.2B-T2	Z DIODE		
D708	MTZJ6.2B-T2	Z DIODE		
D709	MTZJ6.2B-T2	Z DIODE		
D710	MTZJ6.2B-T2	Z DIODE		
D711	MTZJ6.2B-T2	Z DIODE		
D715	MTZJ6.2B-T2	Z DIODE		
D781	1SS133-T2	SI DIODE		
D782	MTZJ11B-T2	Z DIODE		
D901	1N5401-F64	DIODE		
D902	1SS133-T2	SI DIODE		
D903	1A3G-T1	SI DIODE		
D904	1A3G-T1	SI DIODE		
C1	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C2	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C4	QDVB1EZ-223Y	C CAPACITOR	0.022uF 25V Z	
C6	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C8	QCBB1HK-121Y	C CAPACITOR	120pF 50V K	
C9	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C10	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C12	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C13	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C31	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C32	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C33	QEQF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C34	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C35	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C81	QDX11EK-183Z	C CAPACITOR	0.018uF 25V K	
C82	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C91	QDX11EK-183Z	C CAPACITOR	0.018uF 25V K	
C92	QERF1HM-105Z	E CAPACITOR	1uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C162	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C163	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C164	QFLA1HJ-822Z	M CAPACITOR	8200pF 50V J	
C165	QFVD1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C166	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C167	QFV61HJ-333Z	MF CAPACITOR	0.033uF 50V J	
C168	QDXB1CM-562Y	C CAPACITOR	5600pF 16V M	
C172	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C173	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C174	QFLA1HJ-822Z	M CAPACITOR	8200pF 50V J	
C175	QFVD1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C176	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C177	QFV61HJ-333Z	MF CAPACITOR	0.033uF 50V J	
C178	QDXB1CM-562Y	C CAPACITOR	5600pF 16V M	
C181	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C182	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C191	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C192	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C195	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C196	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C197	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C198	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C199	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C241	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C242	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C243	QCFB1HZ-473Y	C CAPACITOR	0.047uF 50V Z	
C244	QERF1HM-474Z	E CAPACITOR	0.47uF 50V M	
C301	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C302	QERF1HM-475Z	E CAPACITOR	4.7uF 50V M	
C303	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C304	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K	
C305	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C306	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C307	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C308	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C309	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C321	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C322	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C331	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C332	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C341	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C342	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C351	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C352	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C701	QDUB1HJ-270Y	C CAPACITOR	27pF 50V J	
C702	QDCB1HJ-220Y	C CAPACITOR	22pF 50V J	
C703	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C704	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M	
C705	QFVD1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C707	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C711	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C781	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C782	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C801	QCFB1HZ-473Y	C CAPACITOR	0.047uF 50V Z	
C901	QEZ0615-228	E CAPACITOR	2200uF	
C902	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C903	QERF1AM-106Z	E CAPACITOR	10uF 10V M	
C904	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C905	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C906	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C907	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C909	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C910	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C911	QFVD1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C912	QEZ0423-228	E CAPACITOR	2200uF	
C917	QFV11HJ-334AZ	MF CAPACITOR	3.34F 50V J	
R1	QRE141J-100Y	C RESISTOR	10Ω 1/4W J	
R4	QRE141J-100Y	C RESISTOR	10Ω 1/4W J	
R6	QRE141J-820Y	C RESISTOR	82Ω 1/4W J	
R7	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R8	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J	
R9	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R11	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R31	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R32	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R33	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R34	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R35	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R36	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R81	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R82	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R91	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R92	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R161	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R162	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R163	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R164	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J	
R171	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R172	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R173	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R174	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J	
R195	QRE141J-100Y	C RESISTOR	10Ω 1/4W J	
R241	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J	
R242	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J	
R243	QRE141J-184Y	C RESISTOR	180kΩ 1/4W J	
R244	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R245	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R246	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R247	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R248	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R301	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R303	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R321	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R322	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R325	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R331	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R332	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R341	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R342	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R343	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R344	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R351	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R352	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R353	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R354	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R355	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R701	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R702	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R703	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R704	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R705	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R706	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R708	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R709	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R710	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R711	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R712	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R713	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R714	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R716	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R717	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R718	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R719	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R720	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R721	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R722	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R723	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R724	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R725	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R727	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R728	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R729	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R730	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R731	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R734	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R735	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R736	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R737	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R738	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R743	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R750	QRE141J-683Y	C RESISTOR	68kΩ 1/4W J	
R801	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R802	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R803	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R804	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	
R805	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	
R806	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R807	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R808	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R809	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R810	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R811	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R812	QRE141J-242Y	C RESISTOR	2.4kΩ 1/4W J	
R813	QRE141J-242Y	C RESISTOR	2.4kΩ 1/4W J	
R814	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R901	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R902	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R903	QRE141J-113Y	C RESISTOR	11kΩ 1/4W J	
R908	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R909	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R910	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R976	QRE141J-433Y	C RESISTOR	43kΩ 1/4W J	
R977	QRE141J-683Y	C RESISTOR	68kΩ 1/4W J	
R978	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R979	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
L1	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
L902	QQL231K-470Y	INDUCTOR I/M	47uH K	
L903	QQL231K-470Y	INDUCTOR I/M	47uH K	
CJ321	QNN0519-001	PIN JACK		
CJ701	VMC0334-001	CONNECTOR		
CP701	QGB1214J1-18S	CONNECTOR	B-B (1-18)	
CP801	QNZ0095-001	CONNECTOR		
CP981	QNZ0611-001	16P CONNECTOR		
J1	QNB0100-002	CAR ANT JACK		
TU1	QAU0281-001	TUNER PACK		
X701	QAX0406-001Z	CRYSTAL		

Front board

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC651	PT6523LQ	IC		
IC652	RPM6938-SV4	REMOCON RCV		
D601	SML-310LT/MN/-X	LED		
D602	LNJ308G81/1-3/X	LED		
D603	LNJ308G81/1-3/X	LED		
D604	LNJ308G81/1-3/X	LED		
D605	LNJ308G81/1-3/X	LED		
D606	LNJ308G81/1-3/X	LED		
D607	LNJ308G81/1-3/X	LED		
D608	SML-310VT/JK/-X	LED		
D609	LNJ308G81/1-3/X	LED		
D610	LNJ308G81/1-3/X	LED		
D611	LNJ308G81/1-3/X	LED		
D612	LNJ308G81/1-3/X	LED		
D613	LNJ308G81/1-3/X	LED		
D614	LNJ308G81/1-3/X	LED		
D615	LNJ308G81/1-3/X	LED		
D616	LNJ308G81/1-3/X	LED		
D617	LNJ308G81/1-3/X	LED		
D618	LNJ308G81/1-3/X	LED		
D619	LNJ308G81/1-3/X	LED		
D620	LNJ308G81/1-3/X	LED		
D640	NSPW310BS/B2RS/	LED		
D641	NSPW310BS/B2RS/	LED		
D651	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D652	MA152WA-X	DIODE		
D653	MA152WA-X	DIODE		
D654	MA152WK-X	DIODE		
D655	MA152WK-X	DIODE		
D657	MA3062/H/-X	Z DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
C651	NCB21HK-223X	C CAPACITOR	0.022uF 50V K	
C652	NBE20JM-106X	TS E CAPACITOR	10uF 6.3V M	
C653	NCB21HK-681X	C CAPACITOR	680pF 50V K	
C654	NBE20JM-475X	TS E CAPACITOR	4.7uF 6.3V M	
D651	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
R601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R602	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R603	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R604	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R605	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R607	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R608	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R609	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R610	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R611	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R612	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R613	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R614	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R615	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R616	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R617	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R618	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R630	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	
R631	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	
R635	NRSA02J-821X	MG RESISTOR	820Ω 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-122X	MG RESISTOR	1.2kΩ 1/10W J	
R641	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R642	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R643	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R644	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R645	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R646	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R647	NRSA02J-511X	MG RESISTOR	510Ω 1/10W J	
R648	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R649	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R652	NRSA02J-473X	MG RESISTOR	47kΩ 1/10W J	
R653	NRSA02J-184X	MG RESISTOR	180kΩ 1/10W J	
R654	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R655	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R656	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R658	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R659	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R660	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R661	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CP701	VMC0335-001	PANEL CONNECTOR		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		
S617	NSW0124-001X	TACT SW		
S618	NSW0124-001X	TACT SW		
S619	NSW0124-001X	TACT SW		
S620	NSW0124-001X	TACT SW		
S621	NSW0124-001X	TACT SW		

Mecha control board

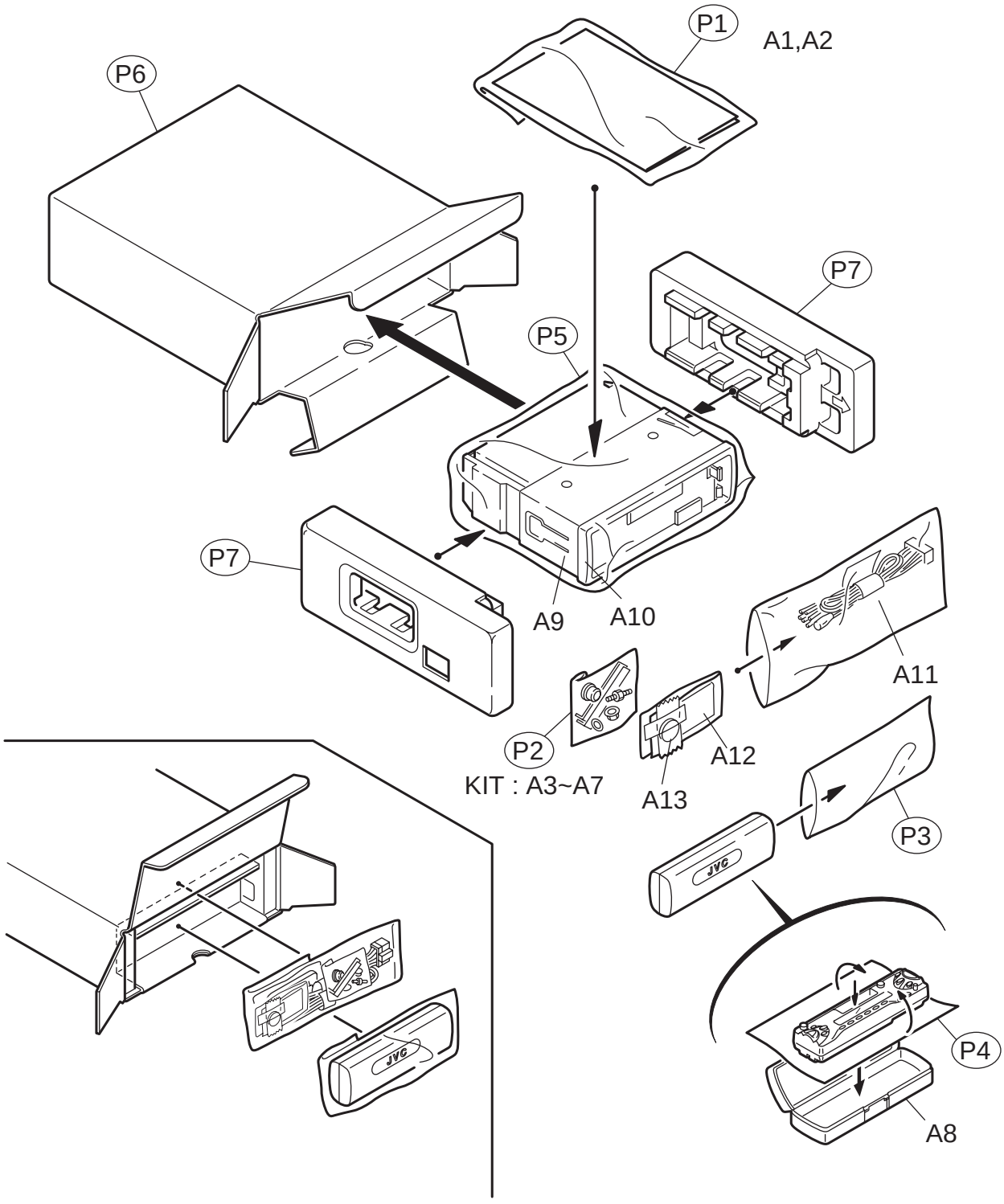
Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC401	CXA2559Q	IC		
IC402	LB1641	IC		
Q402	UN2211-X	TRANSISTOR		
Q403	2SB1322/RS/-T	TRANSISTOR		
D401	MA3047/H/-X	Z DIODE		
D402	1A3G-T1	SI DIODE		
C401	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C402	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C403	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C404	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C405	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C406	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C407	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C408	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C409	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C410	QFV61HJ-153Z	MF CAPACITOR	0.015uF 50V J	
C411	QFV61HJ-153Z	MF CAPACITOR	0.015uF 50V J	
C412	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C413	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C414	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C415	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C418	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C419	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C421	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C422	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C423	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C424	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C425	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R401	NRS181J-681X	MG RESISTOR	680Ω 1/8W J	
R402	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R403	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R404	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R405	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R406	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R407	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R408	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R409	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R410	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R411	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R412	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R413	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R414	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R415	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R416	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R417	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R418	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R422	NRSA02J-332X	MG RESISTOR	3.3kΩ 1/10W J	
R423	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R424	NRSA02J-332X	MG RESISTOR	3.3kΩ 1/10W J	
R425	NRS181J-330X	MG RESISTOR	33Ω 1/8W J	
CN401	QGB1214K1-18S	CONNECTOR	B-B (1-18)	
CN402	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN403	QGF1219F1-10S	CONNECTOR	FFC/FPC (1-10)	

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M
Block No. M 5 M M



Packing

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
P1	FSPG4002-001	POLY BAG		
P2	QPA00801205	POLY BAG	8cm x 12cm	
P3	QPA01003003	POLY BAG	10cm x 30cm	
P4	FSYH4036-068	SHEET		
P5	QPC03004315P	POLY BAG	30cm x 43cm	
P6	GE30649-001A	CARTON		
P7	GE10036-001A	EPS CUSHION	(x2)	

Accessories

Block No. [M][5][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A1	GET0113-001A	INST BOOK	ENG ARA CHA INA	
A2	GET0113-002A	INSTALL MANUAL	ENG ARA CHA INA	
A3	VKZ4027-202	PLUG NUT		
A4	VKH4871-001SS	MOUNT BOLT		
A5	VKZ4328-001	LOCK NUT		
A6	WNS5000Z	WASHER		
A7	GE40130-001A	HOOK	(x2)	
A8	FSJB3001-30C	HARD CASE		
A9	GE20137-003A	MOUNTING SLEEVE		
A0	GE20135-002A	TRIM PLATE		
A11	QAM0013-006	16P CORD ASSY		
A 2	RM-RK31	REMOCON UNIT		
A 3	----------	BATTERY		
KIT	KSFX480K-SCREW1	SCREW PARTS KIT	A3 TO A7	

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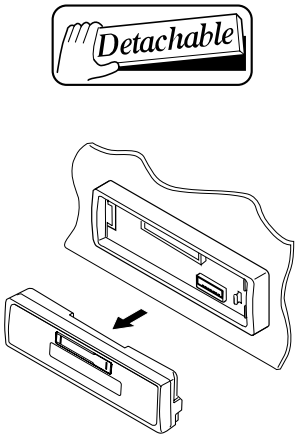
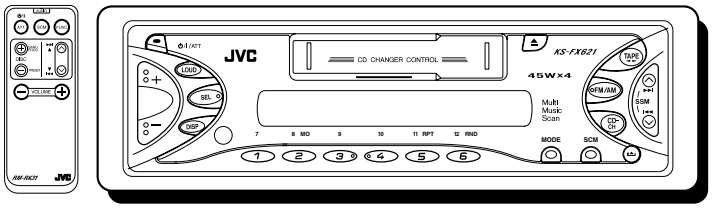
SCHEMATIC DIAGRAMS

CASSETTE RECEIVER

KS-FX621

CD-ROM No.SML200303





Area Suffix
U ---------- Other Areas

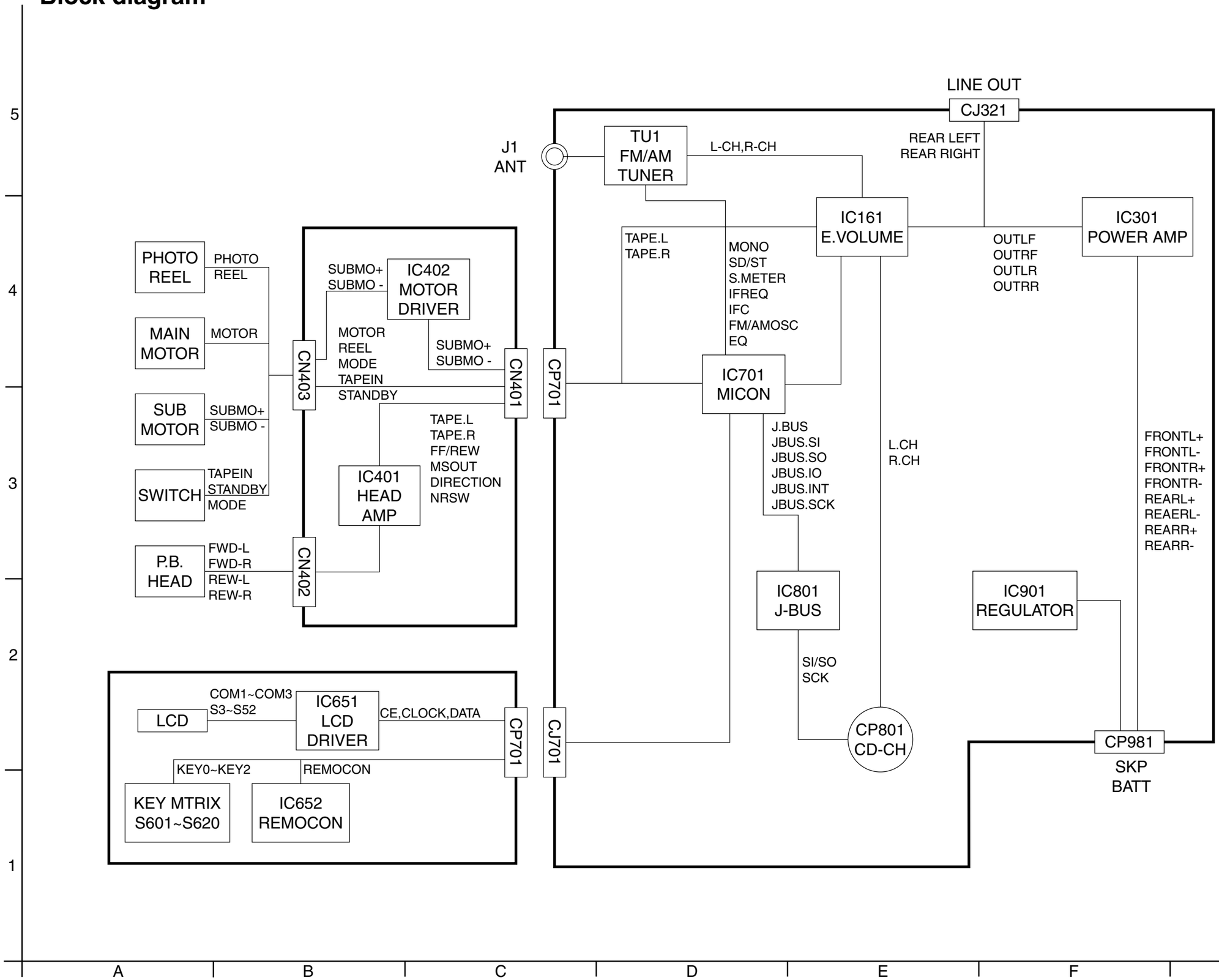
Contents

No.49825SCH
2003/03

Safety precaution

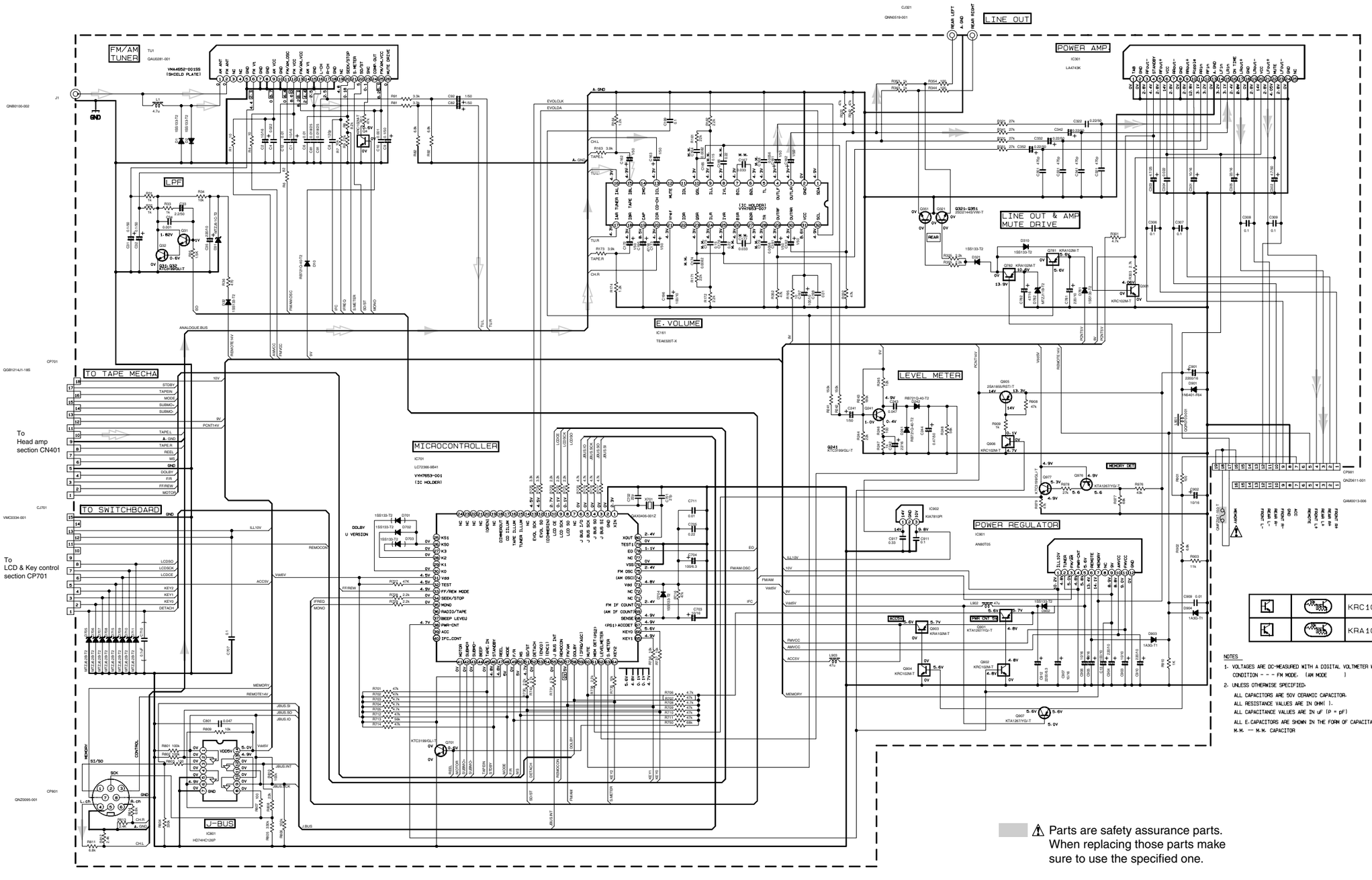
⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Block diagram



Standard schematic diagrams

■ Main amp section



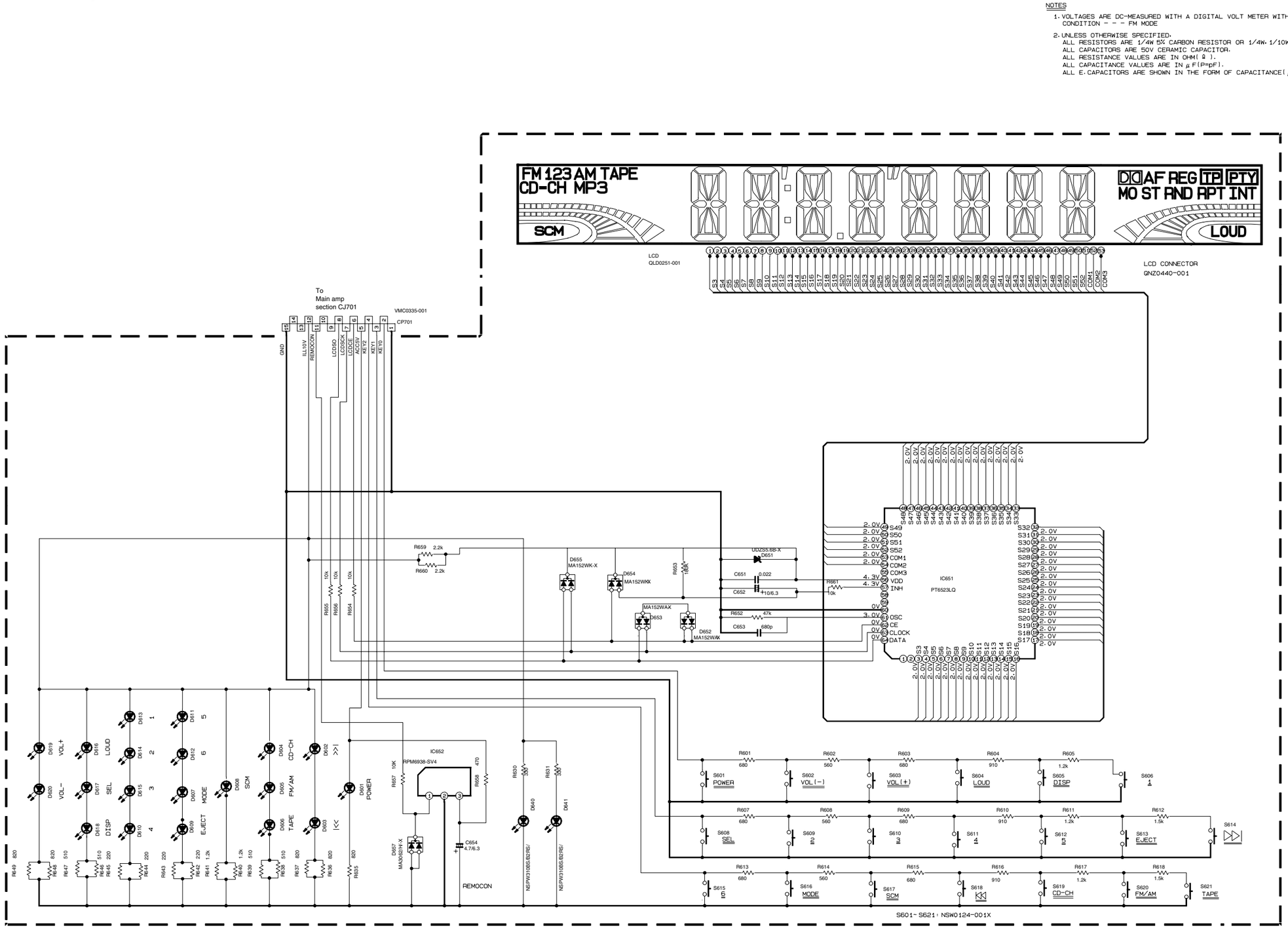
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE. (AM MODE)
2. UNLESS OTHERWISE SPECIFIED.
   ALL CAPACITORS ARE 50V 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
   M.M. -- M.M. CAPACITOR

MAIN BOARD:GEB10078A

■ LCD & Key control section

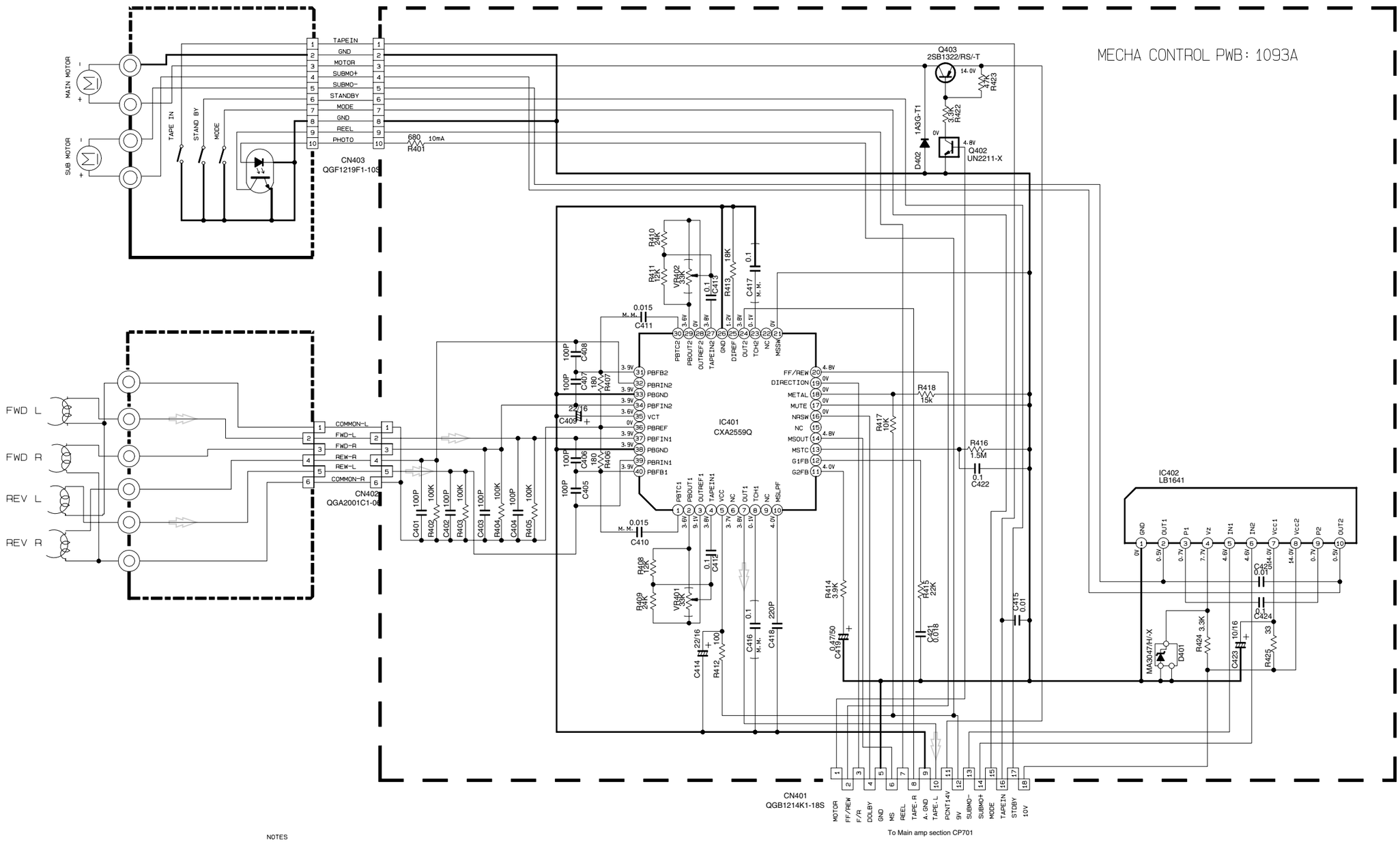
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/4W 5% CARBON RESISTOR OR 1/4W. 1/10W 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).



MODEL / REF. NO.	KS-FX621U
D602~D620	LNJ308G81/1-3/X
D601	SML-310LT/MN/-X
D608	SML-310VT/JK/-X

SWITCH PWB : GEB10033A

■ Head amp section

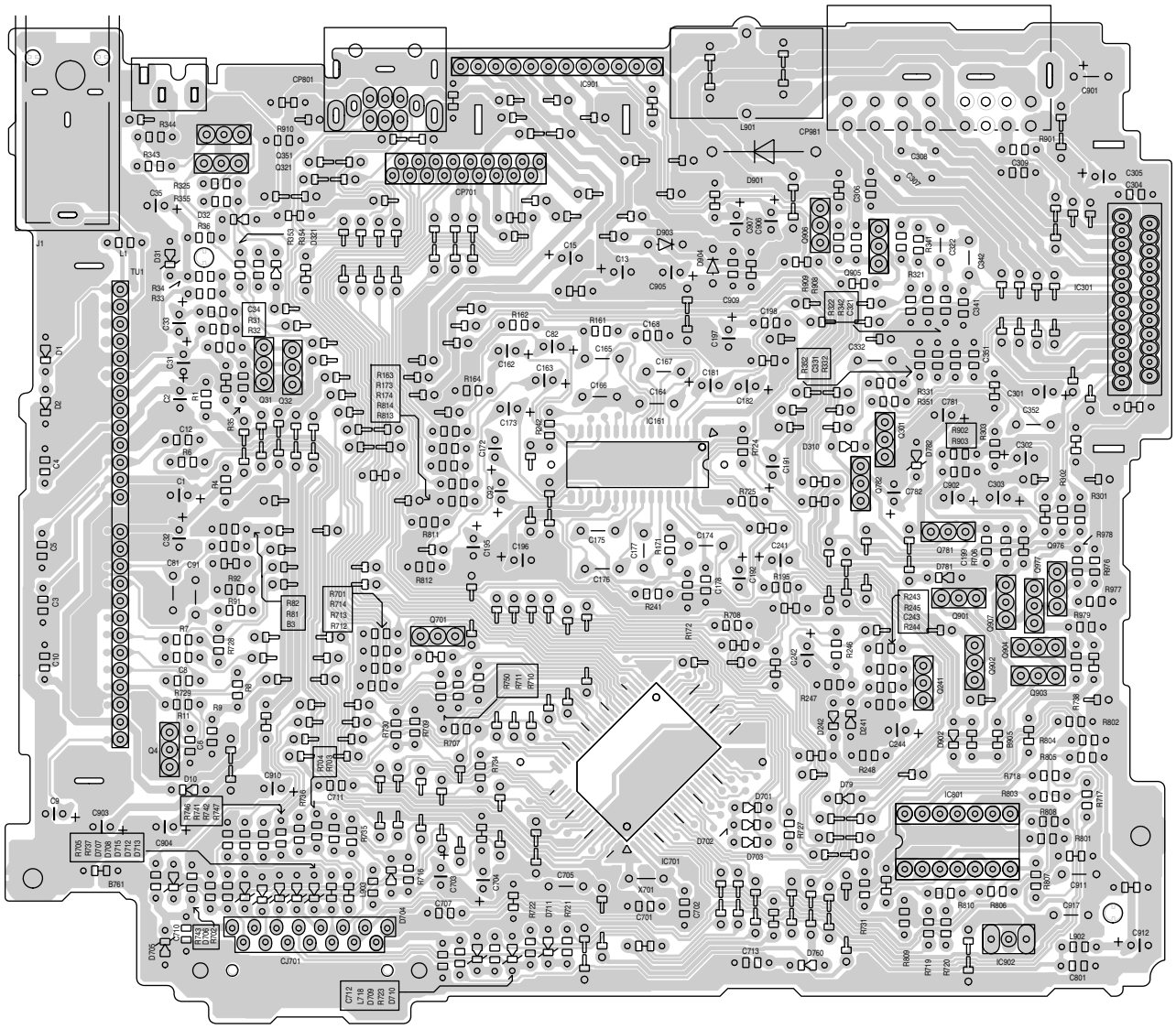


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION----TAPE MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/4W ±5% OR 1/10W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)
   M.M. -- M.M. CAPACITOR

Printed circuit boards

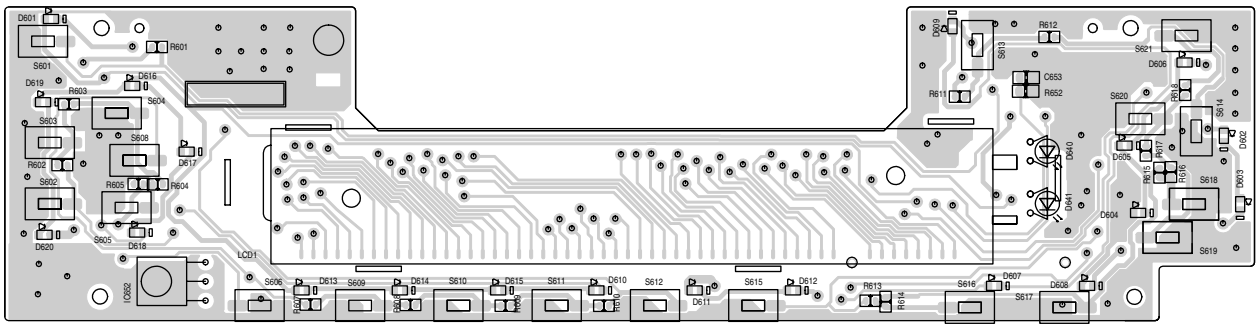
■ Main board



■ Front board

5

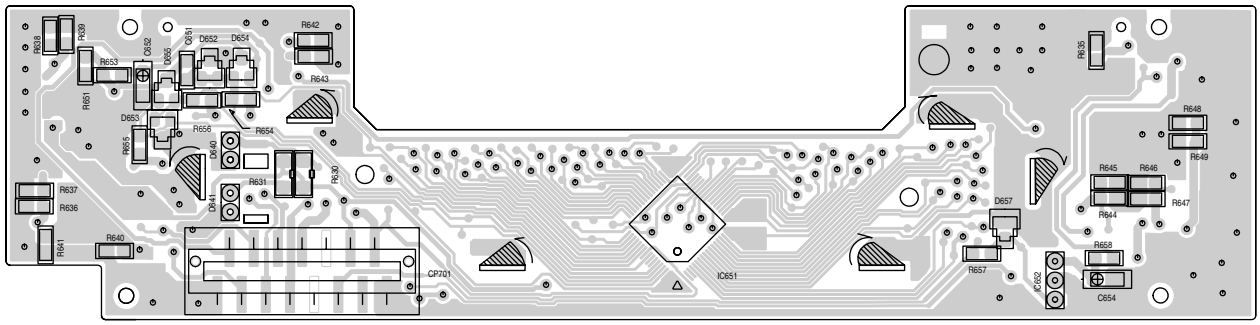
Forward side



4

3

Reverse side

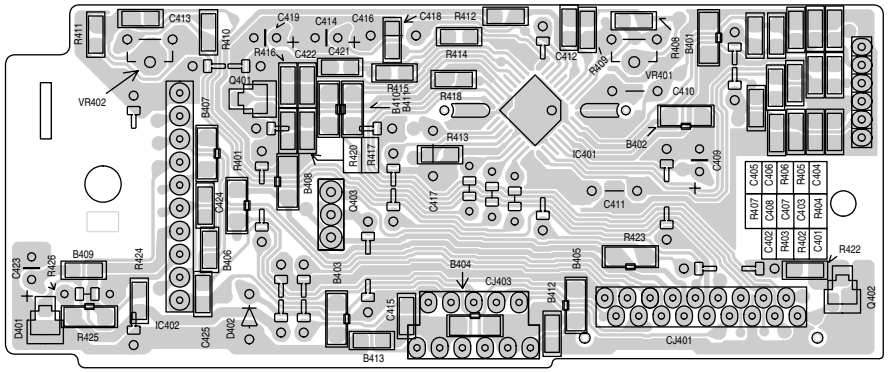


2

1

A B C D

■ Mecha board


C413
C419
C414
C416
C418
R412
R411
R410
R416
C422
C421
R414
C412
R409
R408
B401
VR401
VR402
Q401
R415
B410
B411
R418
C410
B407
R413
B402
IC401
C409
R420
R417
R401
B408
C424
Q403
C417
C411
C405
C406
R406
R405
C404
R407
C408
C407
C403
R404
C402
R403
R402
C401
R423
R422
B409
C423
R426
R424
B406
B404
CJ403
B405
B403
B412
Q402
D401
R425
IC402
C425
D402
C415
CJ401
B413

KS-FX621

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