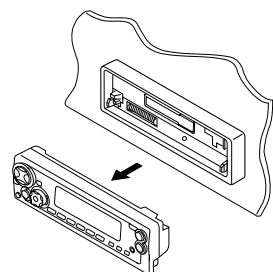
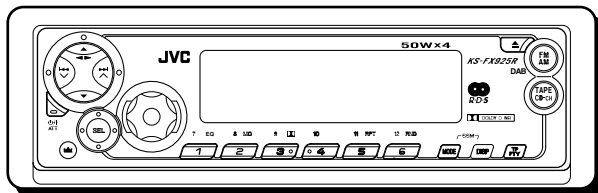


# JVC

# SERVICE MANUAL

## CASSETTE RECEIVER

### KS-FX925R




**Area Suffix**  
 EE ----- Russian Federation

### Contents

Safety precaution .....	1- 2
Disassembly method .....	1- 3
Adjustment method .....	1-11
Description of major ICs .....	1-15~26

## Safety precaution

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

## Disassembly method

### ■ Removing the front panel unit

(See Fig.1)

1. Press the release switch and remove the front panel unit in the direction of the arrow.

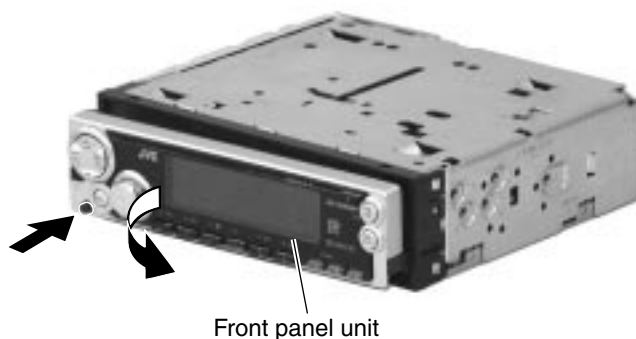


Fig.1

### ■ Removing the bottom cover

(See Fig.2,3)

1. Turn the body upside down.
2. Insert a screwdriver to the two joints **a** and two joints **b** on both sides of the body and the joint **c** on the back of the body, then detach the bottom cover from the body.

**CAUTION:** When disengaging the joint **c** using a screwdriver, do not damage or break the board.

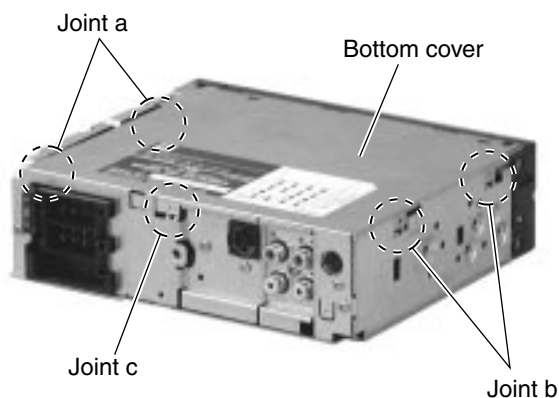


Fig. 2

### ■ Removing the front chassis (See Fig.4,5)

- Prior to performing the following procedure, remove the bottom cover.

1. Remove the two screws **A** attaching the front chassis.
2. Remove the two screws **B** on each side of the body.
3. Release the two joints **d** and the two joints **e** on the sides. remove the front chassis toward the front.

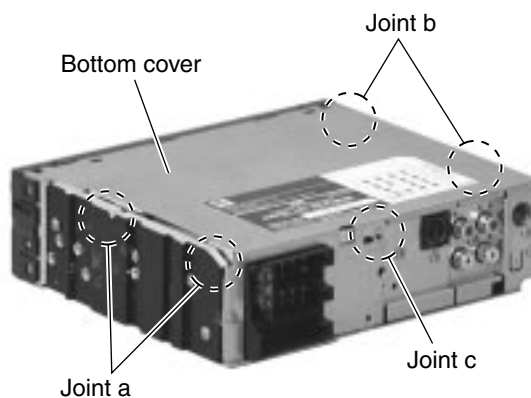


Fig. 3

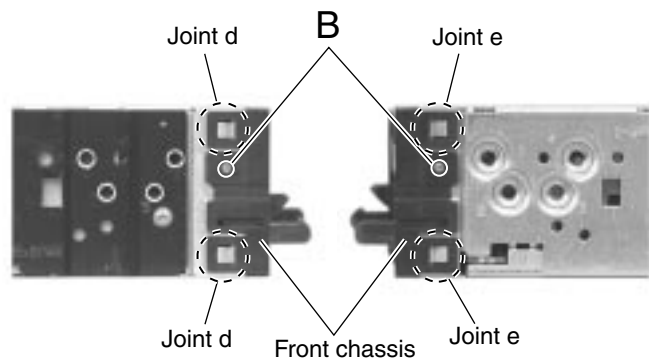


Fig. 5

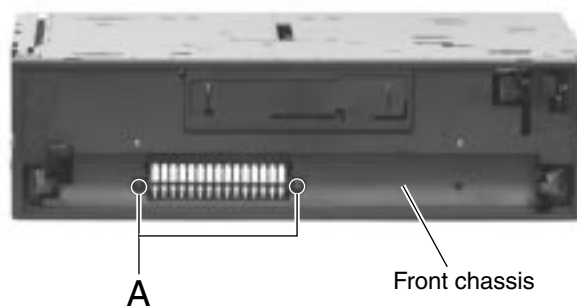


Fig.4

■ **Removing the heat sink (See Fig.6)**

1. Remove the four screws **C** attaching the heat sink on the left side of the body, and remove the heat sink.

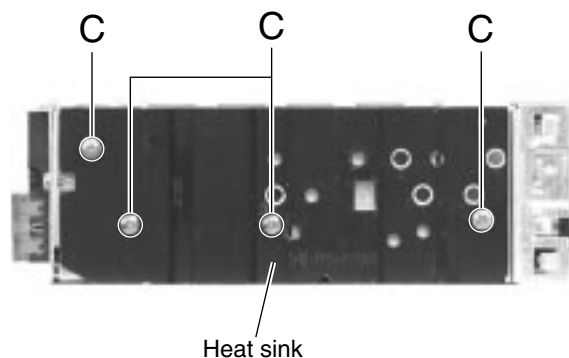


Fig. 6

■ **Removing the rear panel (See Fig.7 )**

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

1. Remove the five screws **D** attaching the rear panel and one screw **E** attaching the pine jack on the back of the body.

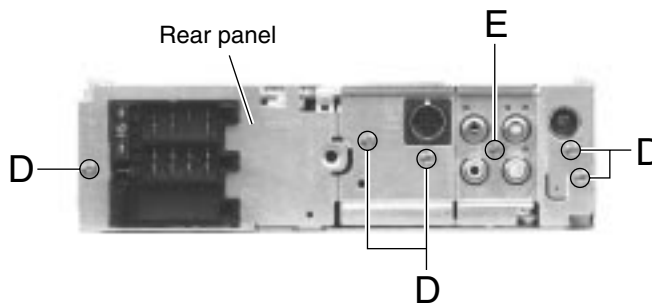


Fig. 7

■ **Removing the main amplifier board assembly (See Fig.8)**

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

1. Remove the two screws **F** attaching the main amplifier board assembly on the top cover.
2. Disconnect connector CP401 on the main amplifier board assembly from the cassette mechanism assembly.

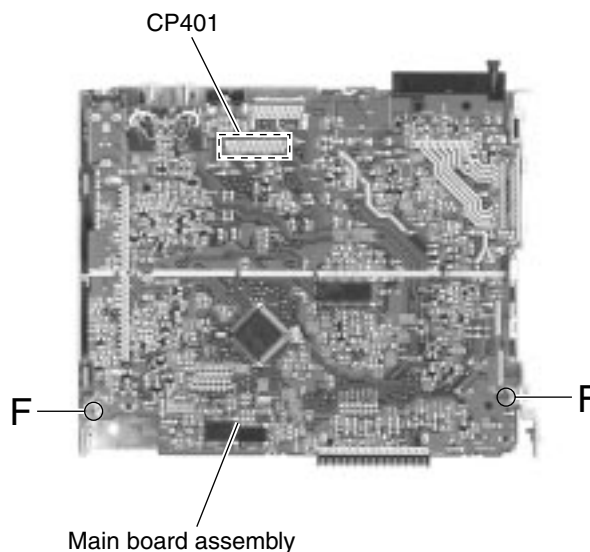


Fig. 8

## ■ Removing the cassette mechanism assembly (See Fig.9)

· Prior to performing the following procedure, remove the front chassis, the heat sink, bottom cover and the main amplifier board assembly.

1. Remove the four screws **G** attaching the cassette mechanism assembly from the top cover.

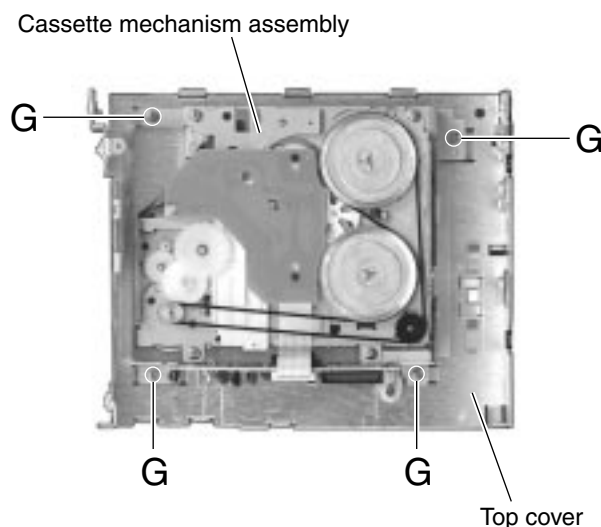


Fig. 9

## ■ Removing the (LCD & key) control switch board (See Fig.10 to 12)

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

1. Remove the four screws **H** attaching the rear cover on the back of the front panel assembly.
2. Unjoint the nine joints **f** with the front panel and the rear cover.
3. Remove the control switch board on the back of the front panel.



Fig. 10

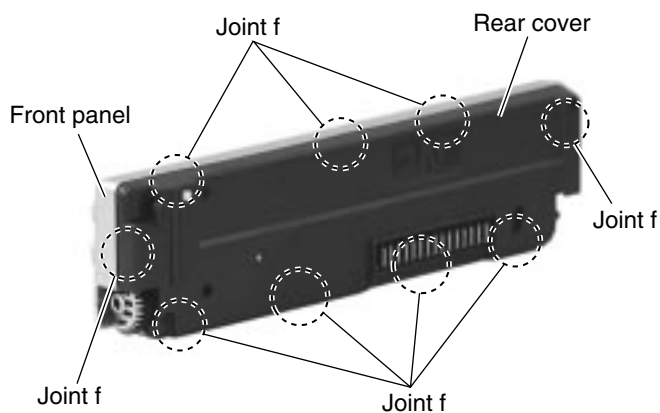


Fig. 11

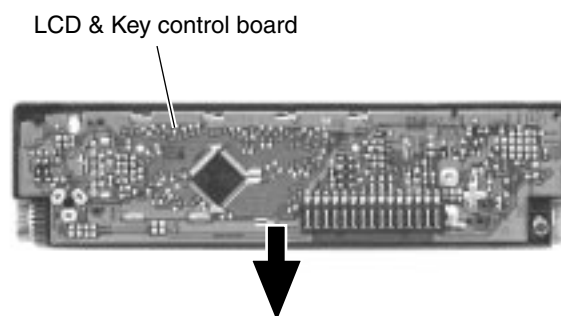


Fig. 12

<Cassette mechanism section>

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).

■ Removing the reinforce bracket  
(See Fig.1 and 2)

1. Remove the screw **A** attaching the reinforce bracket on the bottom of the body.
2. To release joint **a**, turn and detach the reinforce bracket from the side bracket assembly as shown in Fig.2

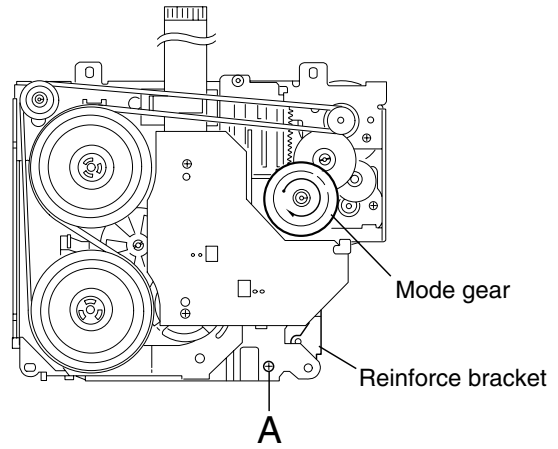


Fig.1

■ Removing the cassette guide (See Fig.3)

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 **b** in the direction of the arrow.

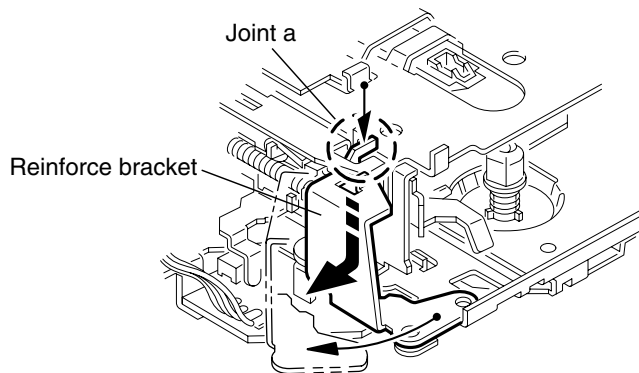


Fig.2

■ Removing the head board (See Fig.4)

1. Remove the screw **B** on the upper side. Unsolder the wires on the under side of the head board, if necessary.

REFERENCE: When reassembling, twist the wires by turning the head board twice remarked **c** and pass through the notch **d** as shown in Fig.4.

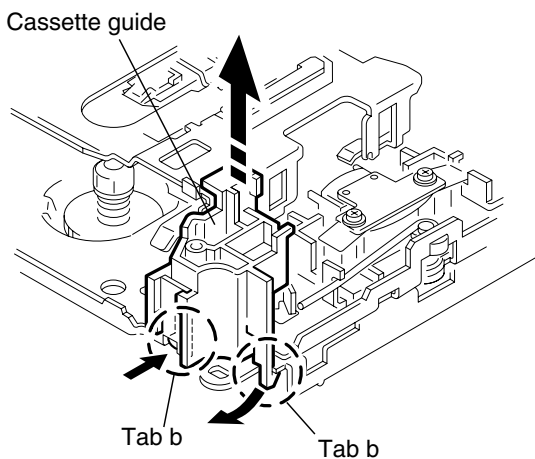


Fig.3

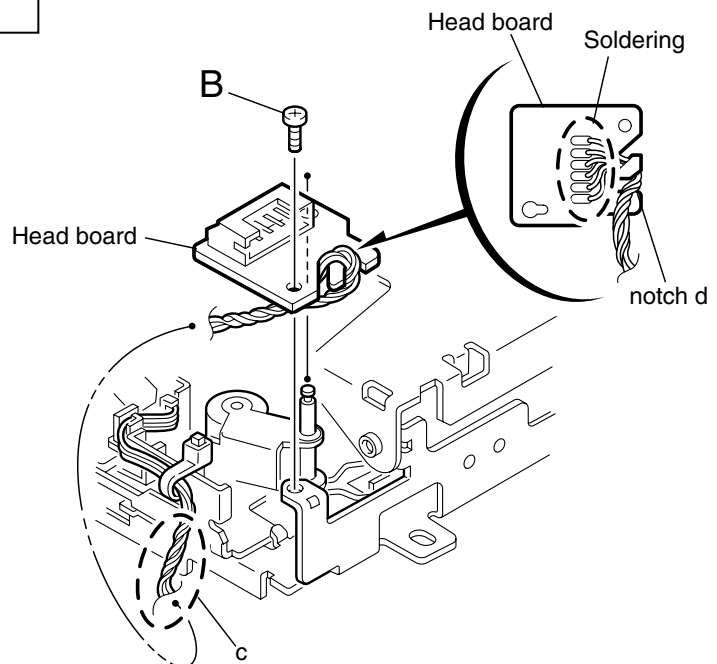


Fig.4

**■ Removing the load arm (See Fig.5)**

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

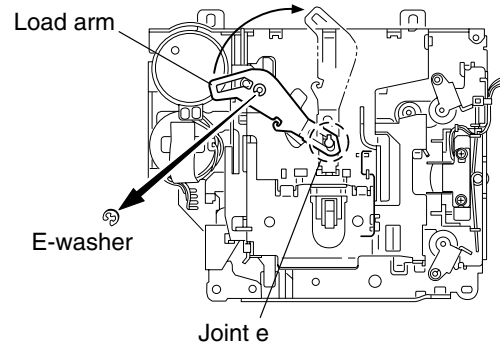


Fig.5

**■ Removing the cassette hanger assembly / cassette holder (See Fig.6 to 9)**

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 **f**.
2. Move the rear part of the cassette hanger assembly in the direction of the arrow to release it from the two joint bosses **g**.
3. Release the holder stabilizer spring from the hooks **h** and **i**, then pull out from the cassette hanger assembly.
4. Bring up the rear side of the cassette hanger assembly to release the joint **j** and **k**.
5. Pull out the cassette catch from the cassette hanger assembly.

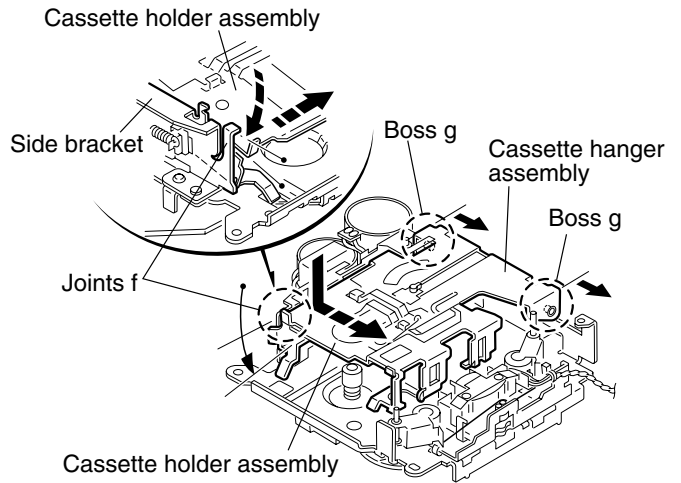


Fig.6

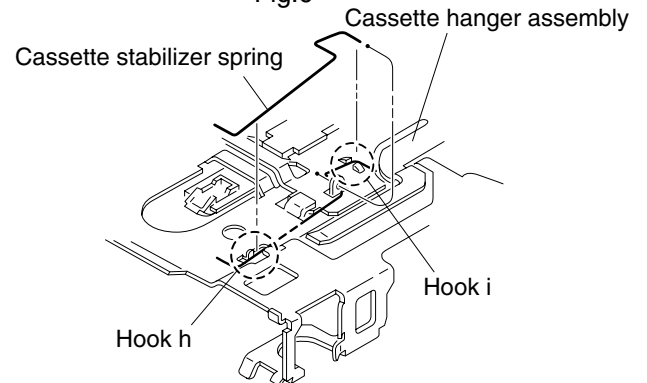


Fig.7

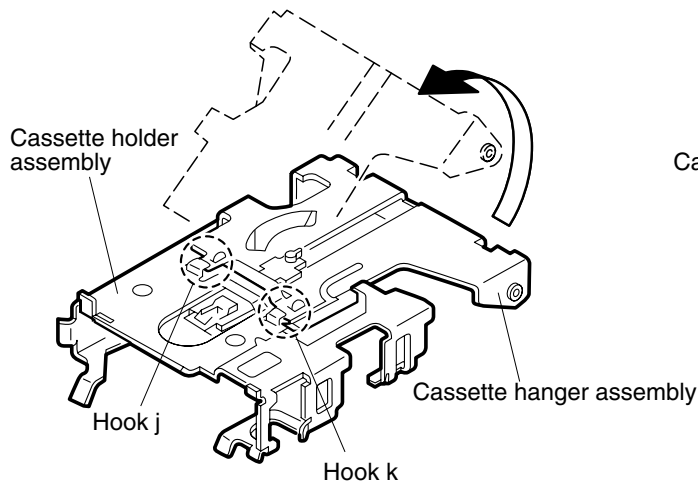


Fig.8

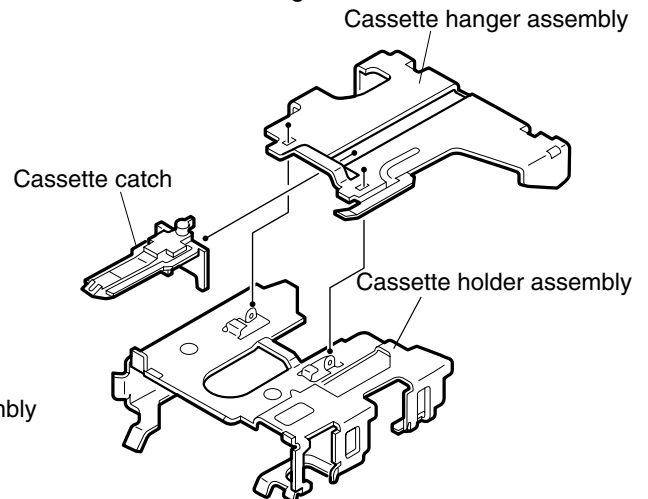


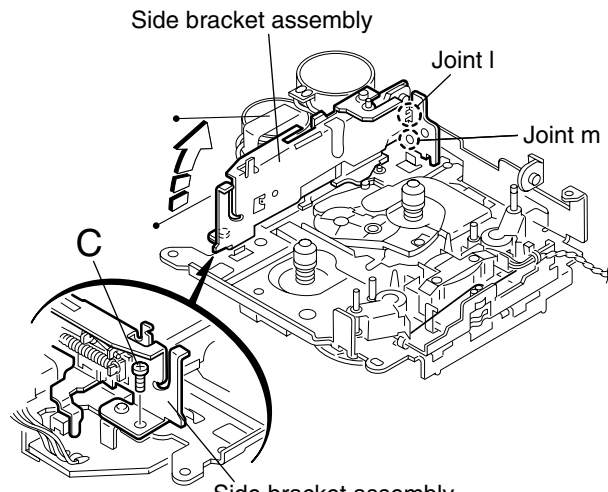
Fig.9

**■ Removing the side bracket assembly  
(See Fig.10 to 12)**

1. Remove the screw **C** 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 **m** in the rear.

**CAUTION:** When reassembling, make sure that the boss **n** 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 **n**.

**CAUTION:** After reattaching the side bracket assembly, confirm operation.



Side bracket assembly  
Fig.10

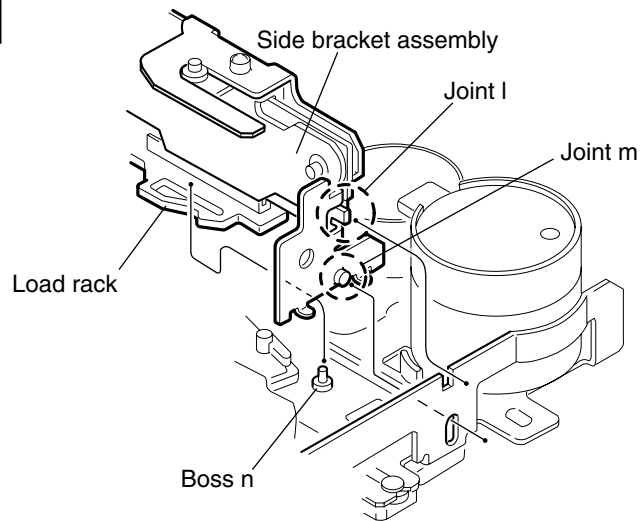


Fig.11

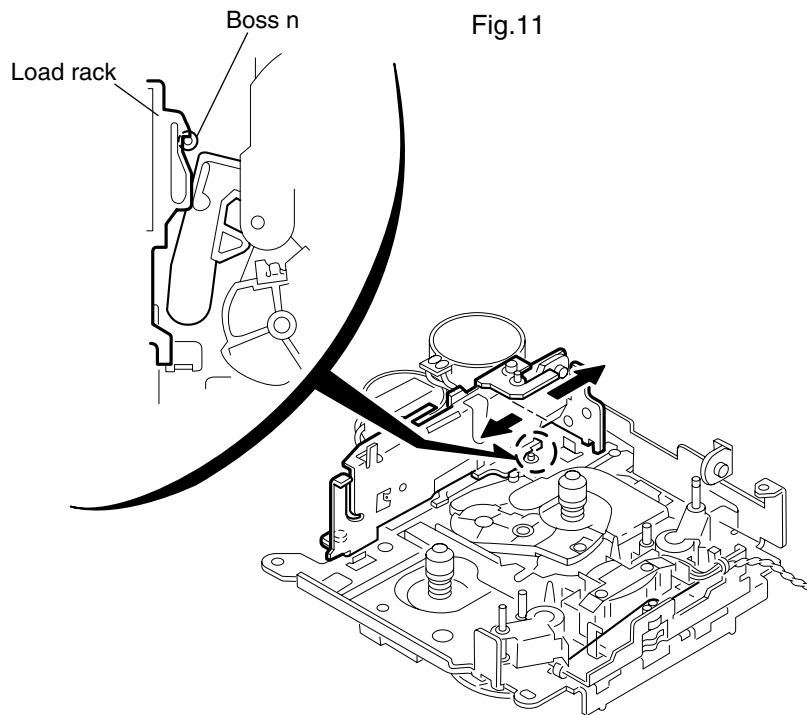
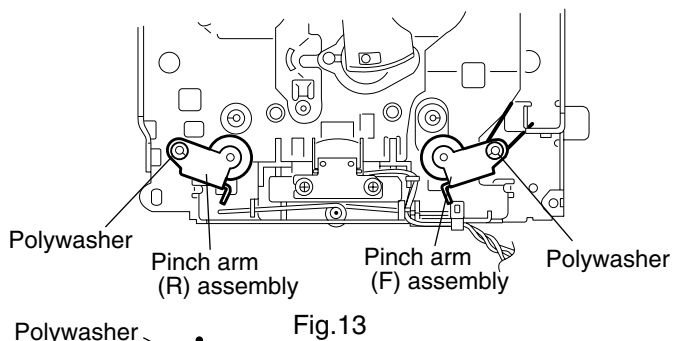


Fig.12



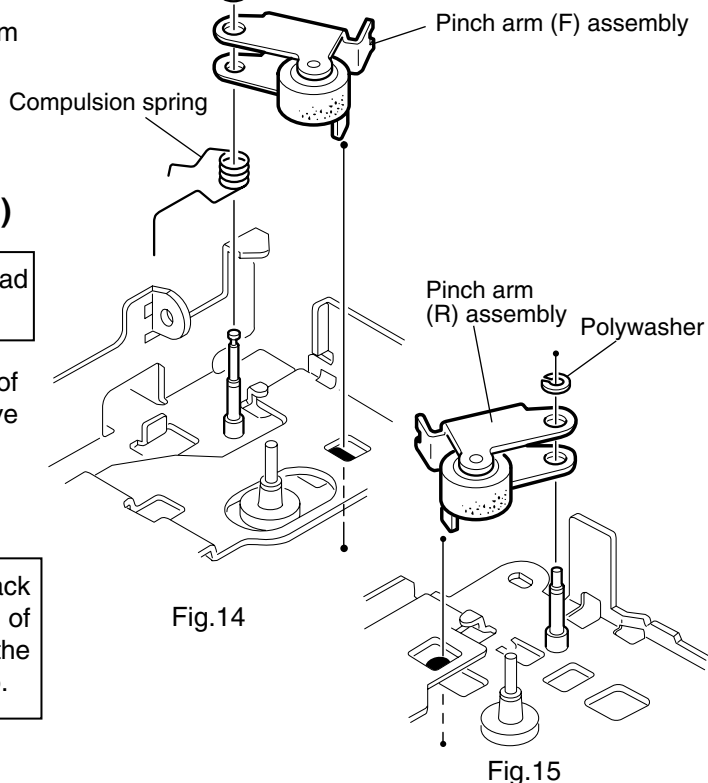
**■ Removing the pinch arm (F) assembly  
(See Fig.13 and 14)**

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



**■ Removing the pinch arm (R) assembly  
(See Fig.13 and 15)**

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

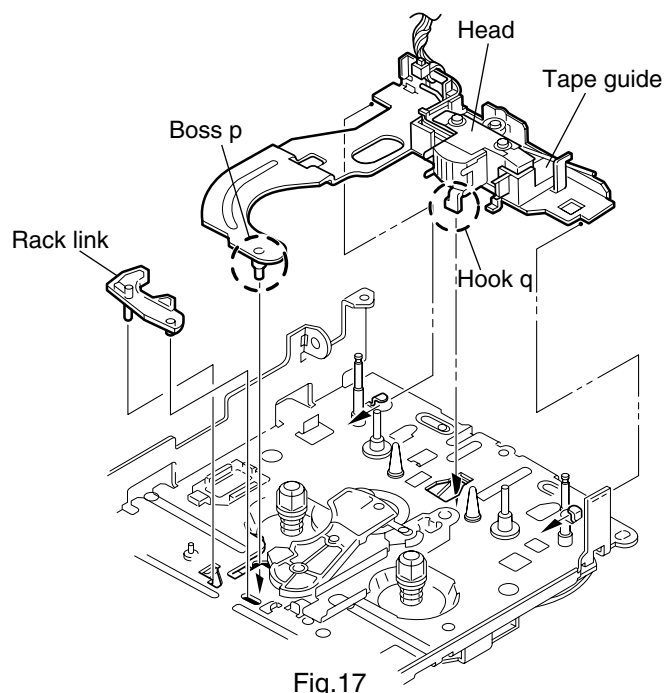
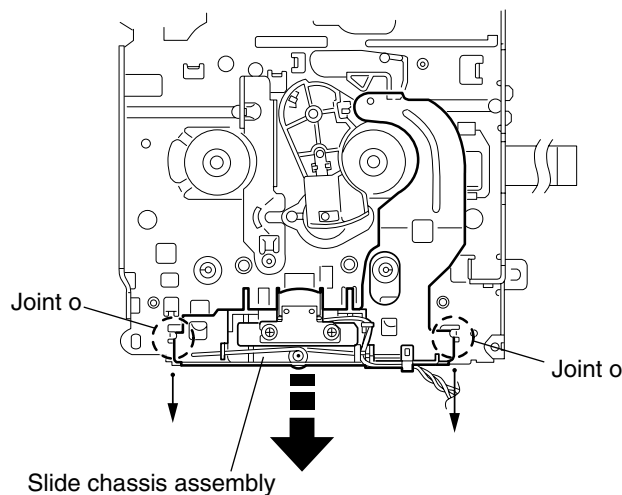


**■ Removing the slide chassis assembly  
(See Fig.16 and 17)**

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 **o** and remove from the main chassis.
2. Remove the rack link.

CAUTION: When reassembling, first reattach the rack link, and next fit the boss **p** and hook **q** of the slide chassis assembly to the hole of the main chassis, and engage the two joints **o**.



**■ Removing the head / tape guide**  
(See Fig.18 and 19)

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 **D**, 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 **r**).

CAUTION: When reattaching the head, set the wires into the groove of the tape guide (Fig.18).

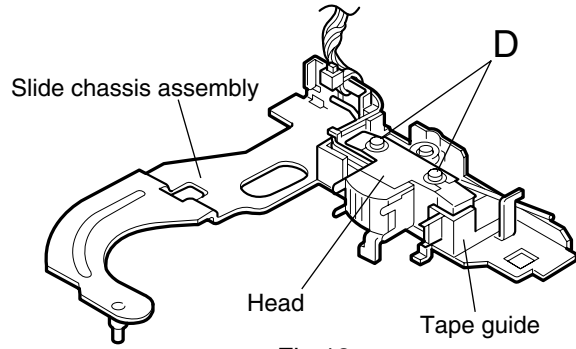


Fig.18

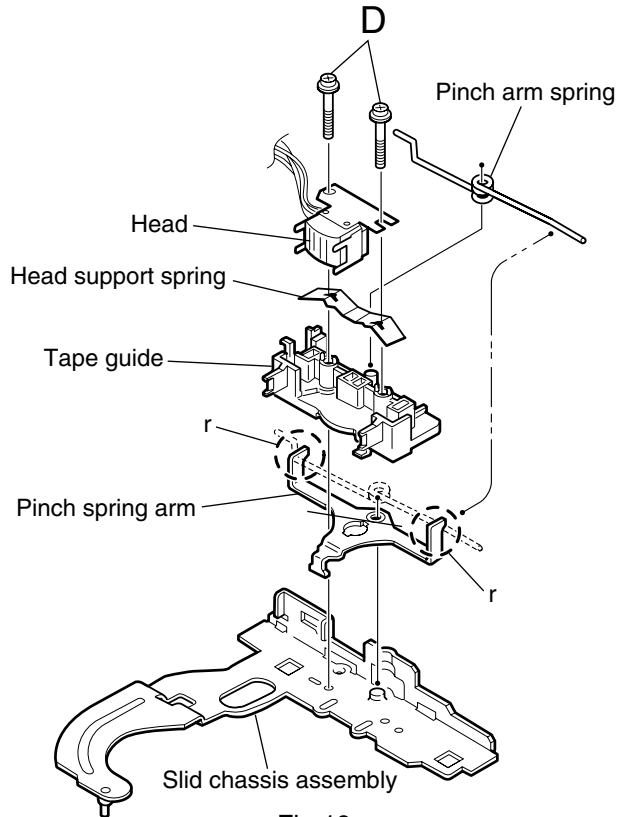


Fig.19

**■ Removing the flywheel assembly (F) & (R)**  
(See Fig.20 and 21)

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.

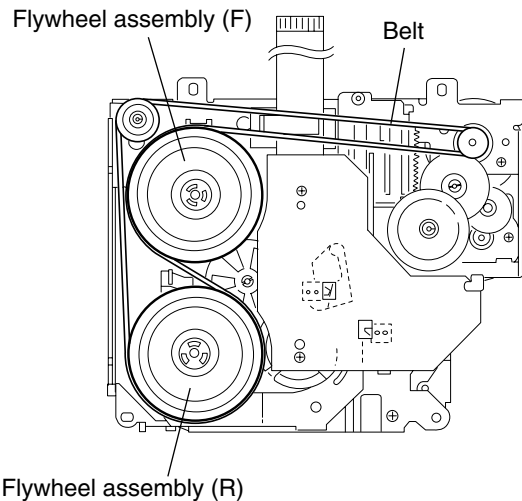


Fig.20

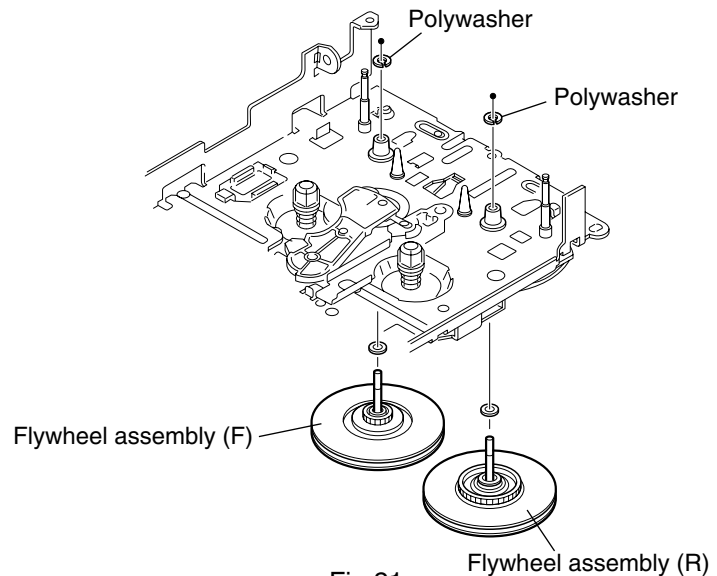


Fig.21

**Disassembling the flywheel assembly (F)**  
(See Fig.22 and 23)

1. Push and turn counterclockwise the spring holder (F) to release the three joints **s** 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.

**Disassembling the flywheel assembly (R)**  
(See Fig.22 and 24)

1. Push and turn clockwise the spring holder (R) to release the three joints **t** 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.

**Removing the reel board**  
(See Fig.25 and 26)

1. Remove the two screws **E** attaching the reel board.
2. Move the reel board in the direction of the arrow to release the joint **u**.
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.

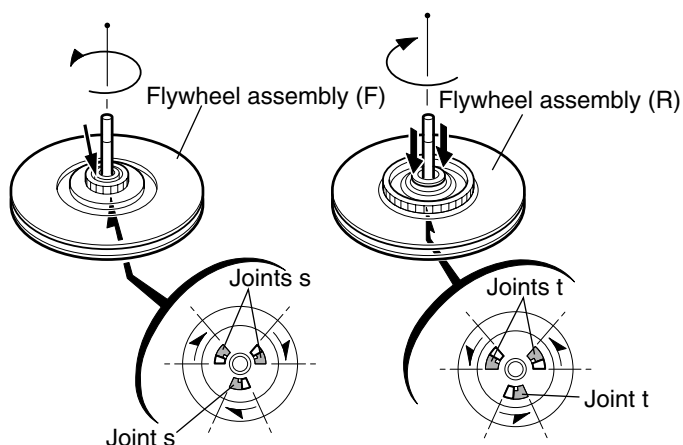


Fig.22

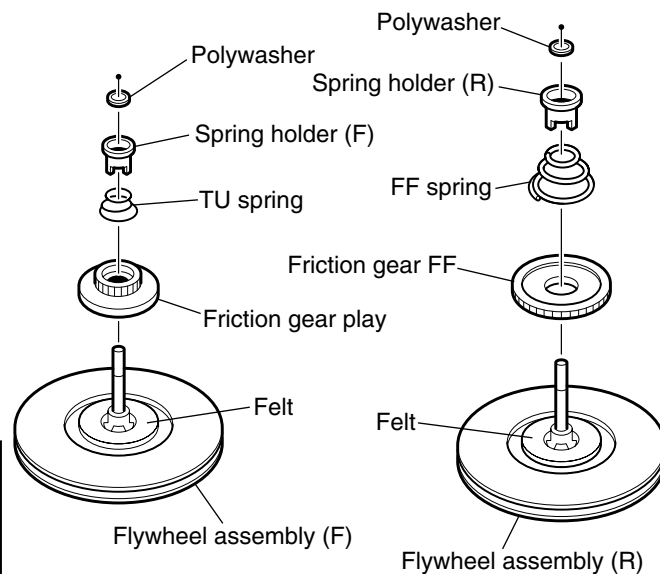


Fig.23

Fig.24

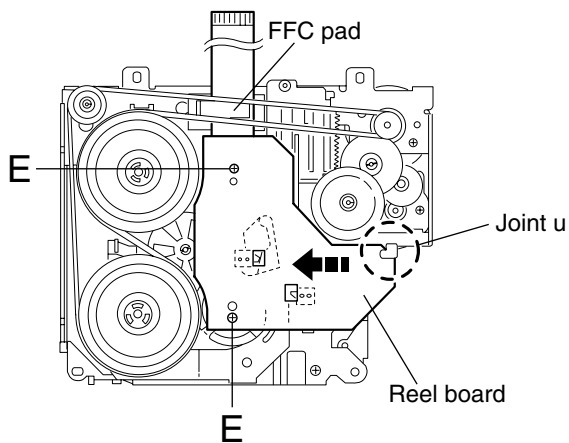


Fig.25

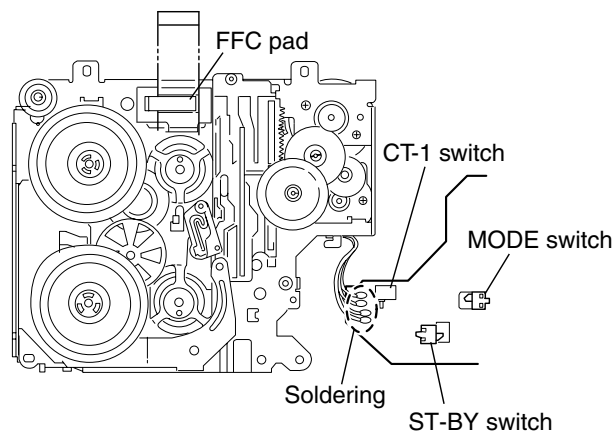
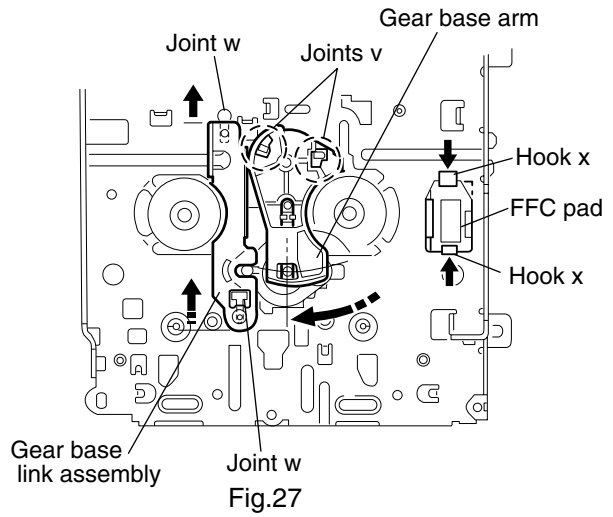


Fig.26

■ **Removing the gear base arm / gear base link assembly (See Fig.27 to 29)**

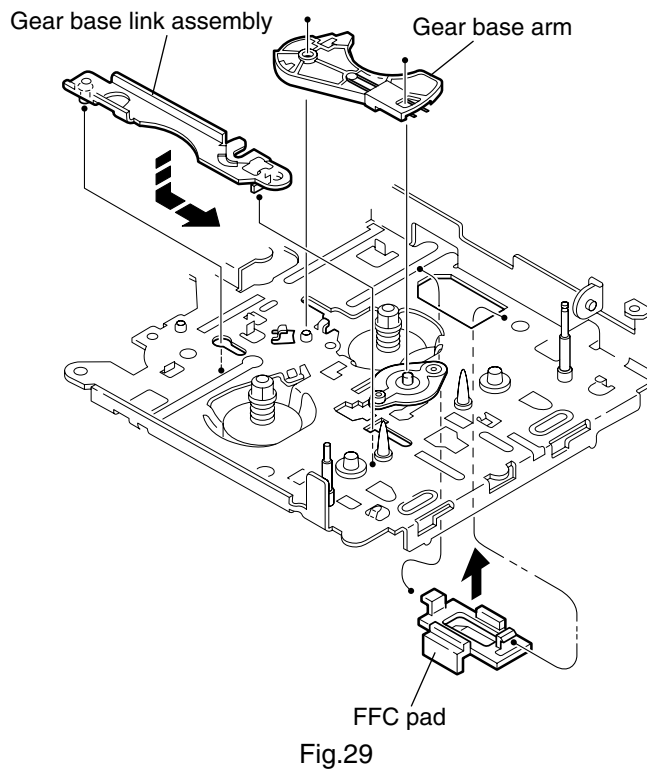
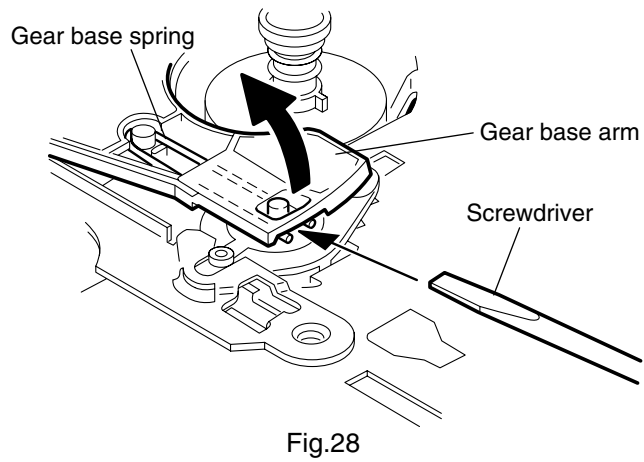
1. Move the gear base arm in the direction of the arrow.
2. Insert a slotted screwdriver to the gear base spring under the gear base arm, and release the gear base arm upward from the boss on the gear base assembly.
3. Remove the gear base arm from the main chassis while releasing the two joints **v**.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



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

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

1. Push each joint hook **x** of the FFC pad and remove toward the bottom.



**■ Removing the mode gear**  
(See Fig.30 and 33)

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

**■ Removing the mode switch actuator**  
(See Fig.30, 31 and 33)

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 **y** into the slot **z**.

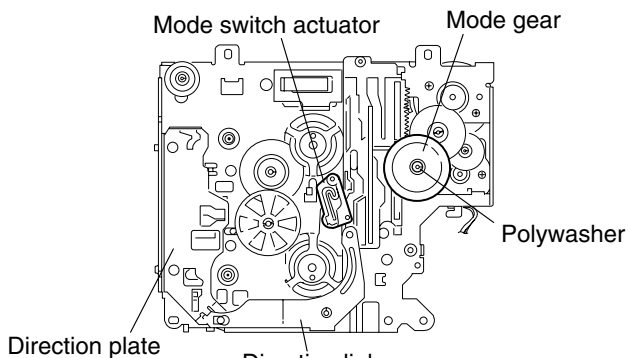


Fig.30

**■ Removing the direction link / direction plate**  
(See Fig.31 to 33)

1. Remove the polywasher attaching the direction link.
2. Bring up the direction link to release the three joints **a'**, **b'** and **c'** at a time.
3. Move the direction plate in the direction of the arrow to release the two joints **d'**.

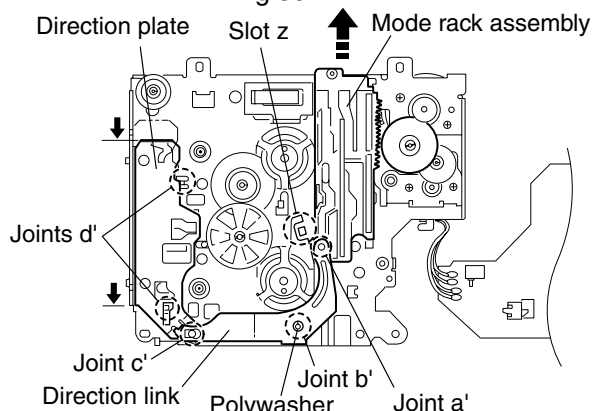


Fig.31

REFERENCE: When reattaching the direction plate, engage the two joints **d'** and move in the direction of the arrow (See Fig.32).

REFERENCE: When reattaching the direction link, move the direction plate in the direction of the arrow and engage the three joint **a'**, **b'** and **c'** at a time (See Fig.33).

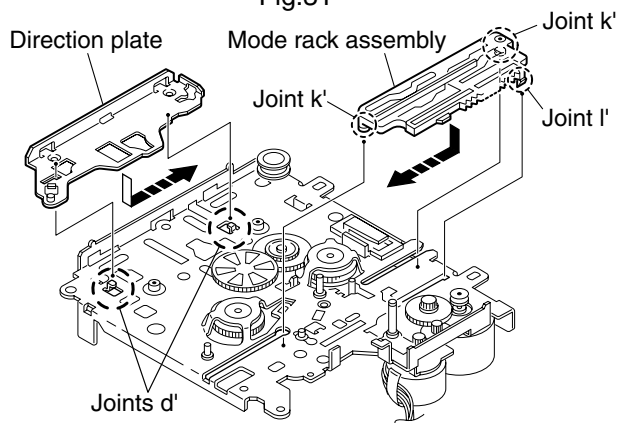


Fig.32

**■ Removing the mode rack assembly**  
(See Fig.31 and 32)

1. Move the mode rack assembly in the direction of the arrow to release the two joints **k'** and the joint **l'**.

REFERENCE: When reattaching, set the two **k'** on the bottom of the mode rack assembly into the slots of the main chassis and move in the direction of the arrow (See Fig.32).

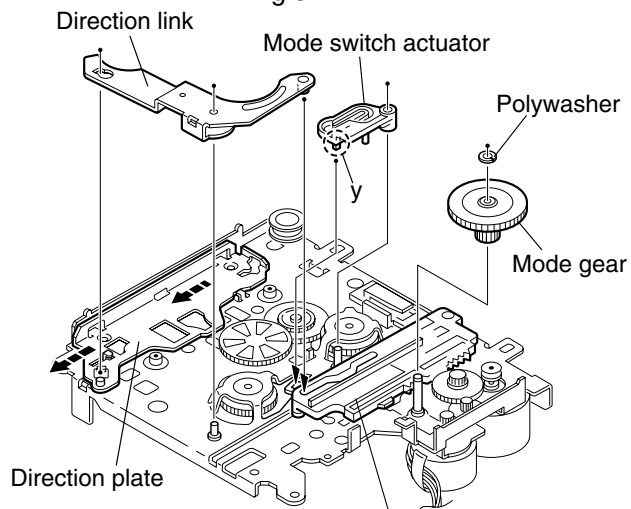


Fig.33

**■ Removing the gear base assembly / take up gear / reflector gear (See Fig.34 to 36)**

1. Push in the pin **e'** 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 **f'** of the main chassis.

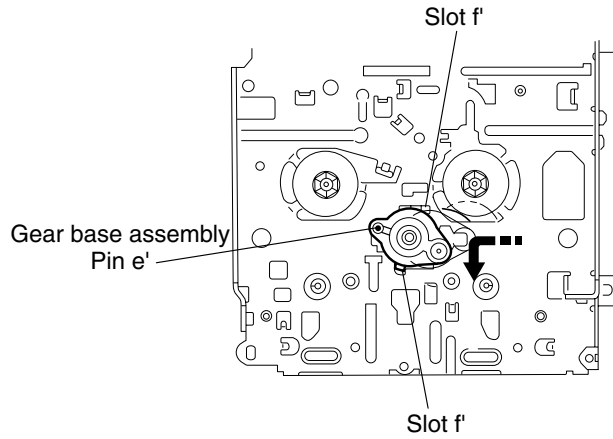


Fig.34

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

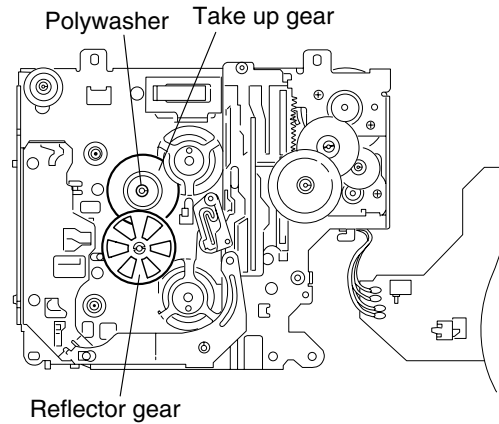


Fig.35

**■ Removing the reel driver / reel spindle (See Fig.36)**

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.

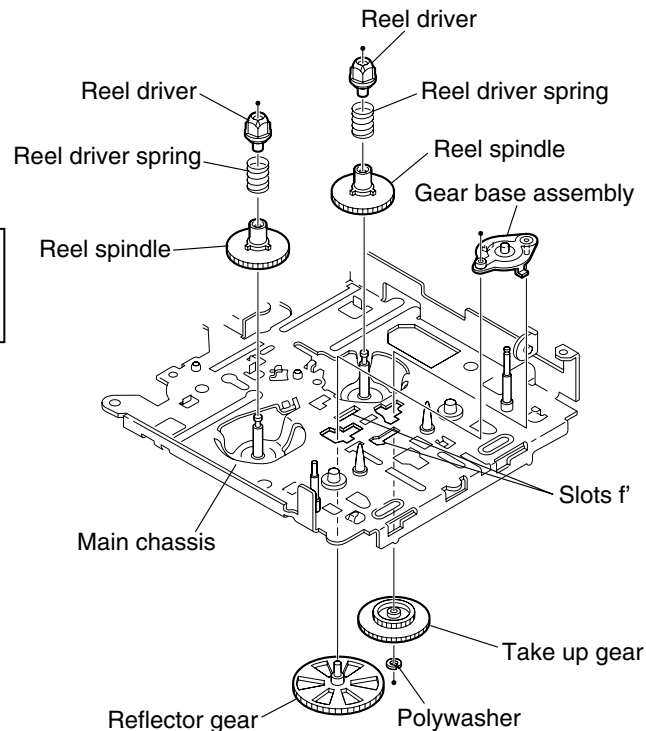


Fig.36

**■ Removing the side bracket assembly  
(See Fig.37 to 41)**

1. Remove the eject cam plate spring.
2. Push the joint **g'** 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 **h'** of the side bracket assembly and from the two joints **i'**.
4. Move the eject cam plate in the direction of the arrow to release the joint **j'**.

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

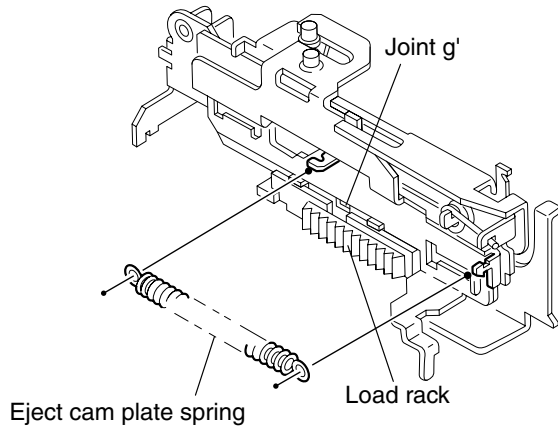


Fig.37

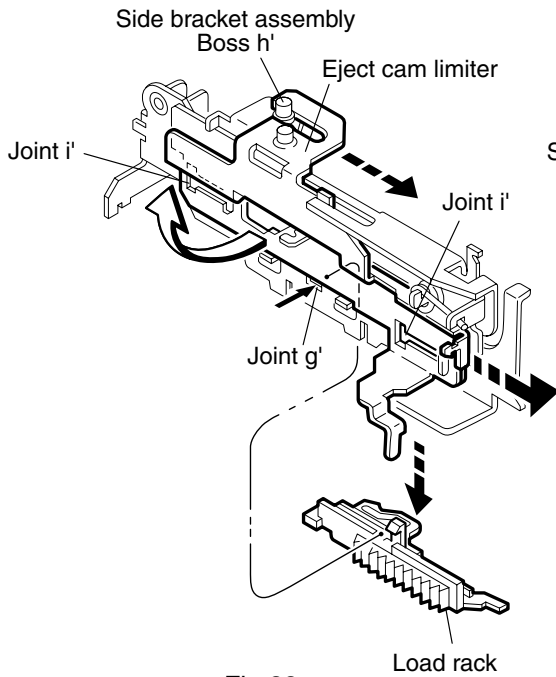


Fig.38

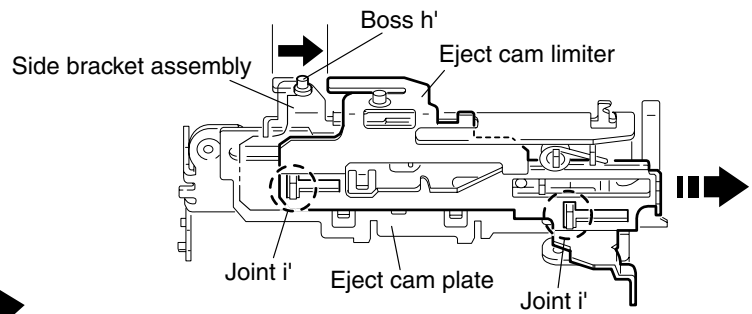


Fig.39

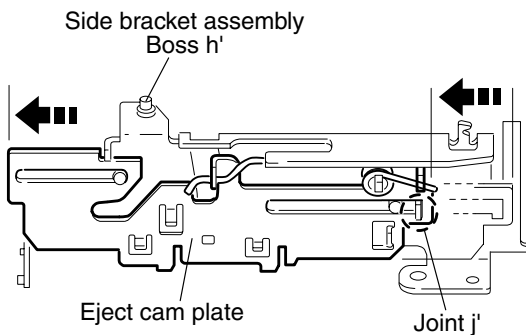


Fig.40

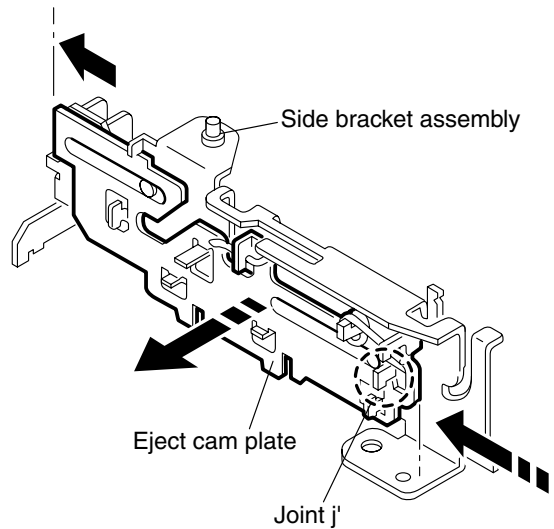


Fig.41

■ **Removing the main motor assembly / sub motor assembly (See Fig.42 to 44)**

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 **F** attaching the main motor assembly.
6. Remove the two screws **G** attaching the sub motor assembly.
7. Unsolder the wires on the reel board if necessary.

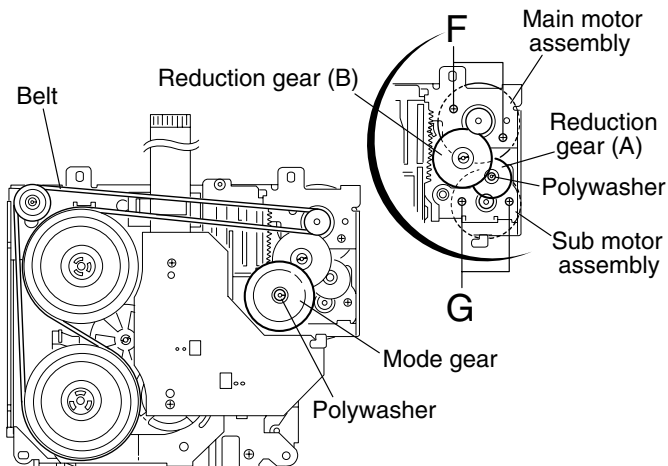


Fig.42

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

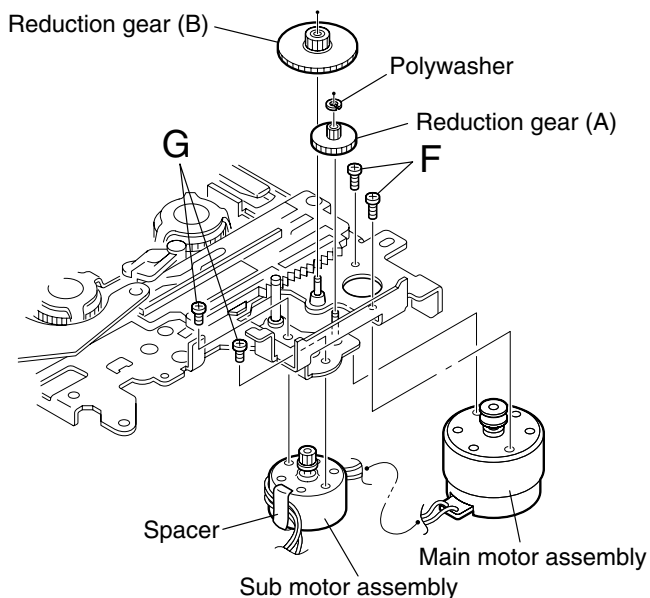


Fig.43

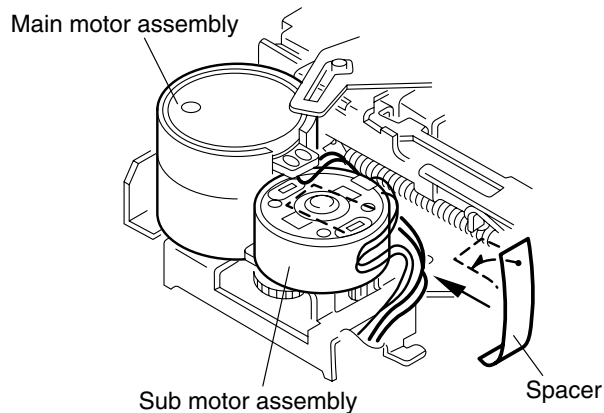


Fig.44



## Adjustment method

### ■ Test Instruments required for adjustment

1. Digital oscilloscope(100MHz)
2. Frequency Counter meter
3. Electric voltmeter
4. Wow & flutter meter
5. Test Tapes

- VT724 ----- for DOLBY level measurement  
 VT739 ----- For playback frequency measurement  
 VT712 --- For wow flutter & tape speed measurement  
 VT703 ----- For head azimuth measurement
6. Torque gauge ----- Cassette type for CTG-N  
 (mechanism adjustment)

### ■ Measuring conditions(Amplifier section)

- Power supply voltage ----- DC14.4V(10.5~16V)  
 Load impedance -----  $4\Omega$ (2Speakers connection)  
 Line out -----  $20k\Omega$

### ■ Standard volume position

Balance and Bass, Treble volume .Fader

:Center(Indication"0")

Loudness, Dolby NR, Sound, Cruise: Off

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

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

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

FM stereo mode 1kHz, 67.5kHz dev. pilot 7.5kHz dev.

Output level 0dB( $1\mu\text{V}$ ,  $50\Omega$ /open terminal).

### ■ Frequency Range

FM1 /FM2 : 87.5 MHz to 108.0 MHz

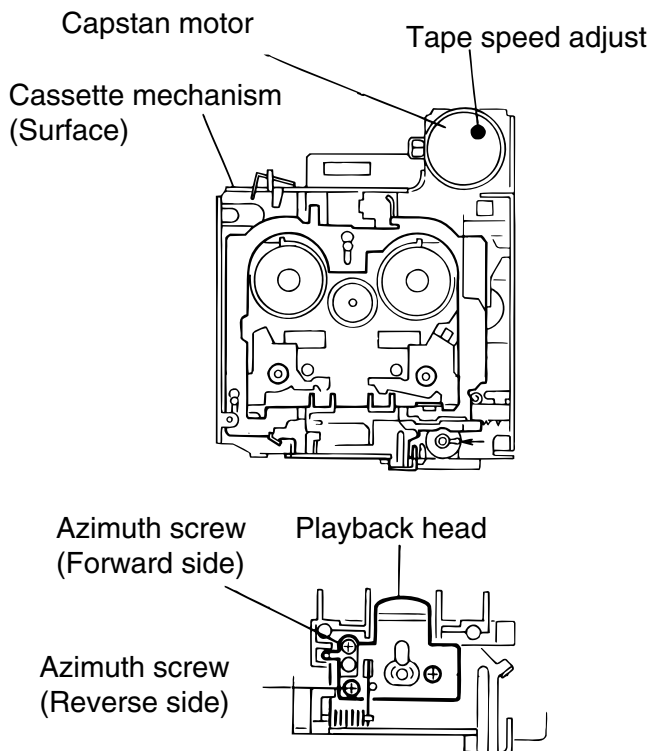
FM3 : 65 MHz to 74 MHz

AM : (MW) 522 kHz to 1620 kHz  
 (LW) 144 kHz to 279 kHz

### ■ DUMMY LOAD

Exclusive dummy load should be used for AM and 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.

### ■ Arrangement of Adjusting Cassette Mechanism Section



## ■ Arrangement of adjusting

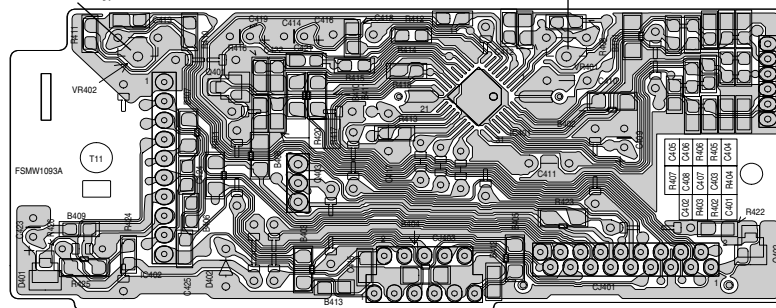
Head amplifier board section (Reverse side)

VR402:Rch

(Dolby NR level adj)

VR401:Rch

(Dolby NR Frequency response adj)



## ■ Information for using a car audio service jig

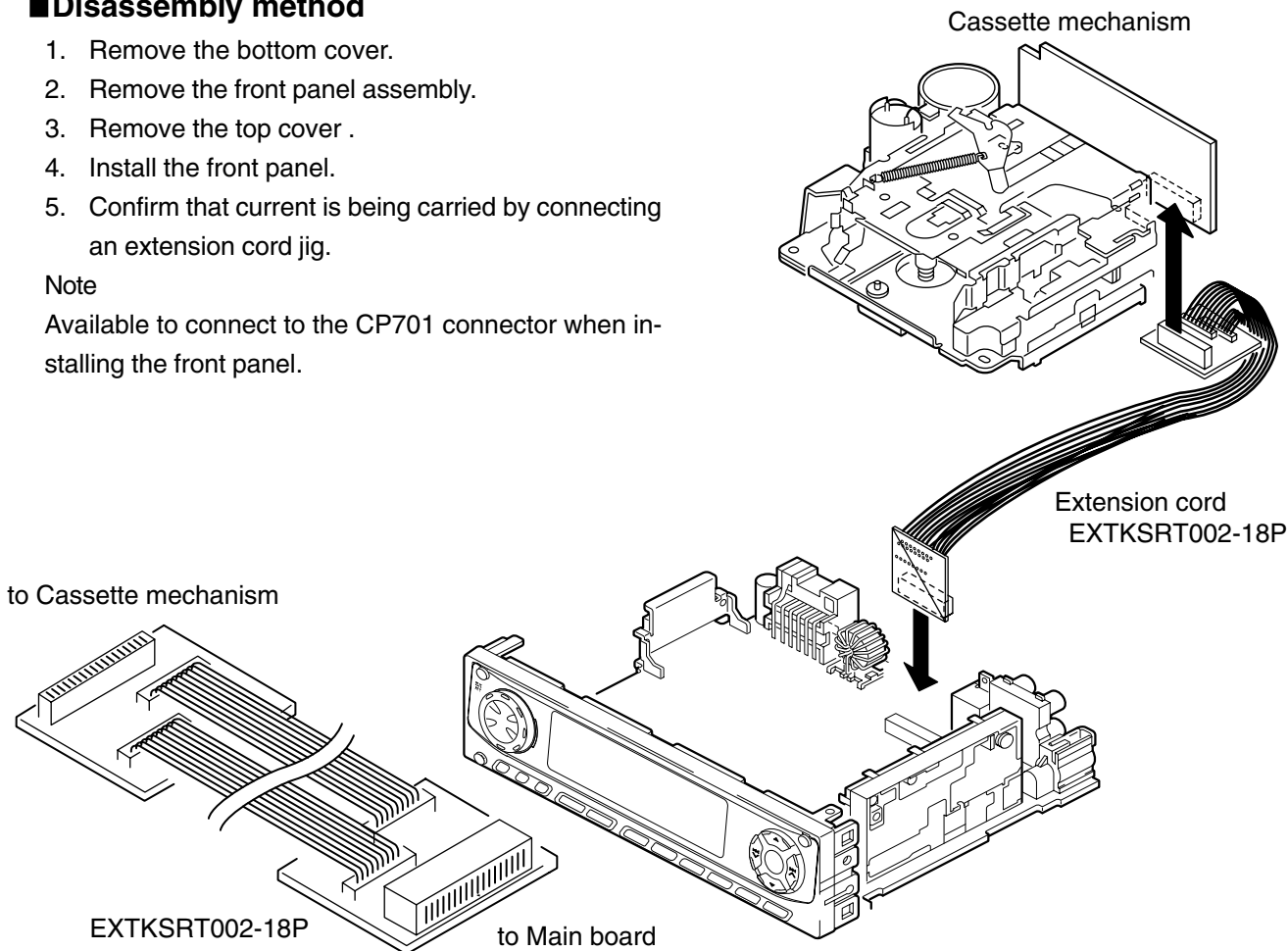
1. We're advancing efforts to make our extension cords common for all car audio products. Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord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

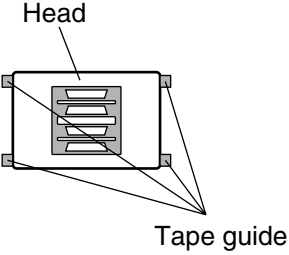
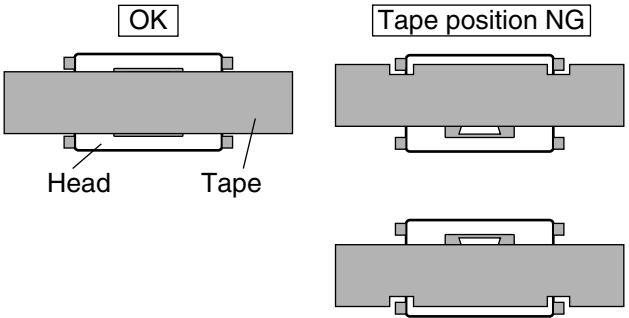
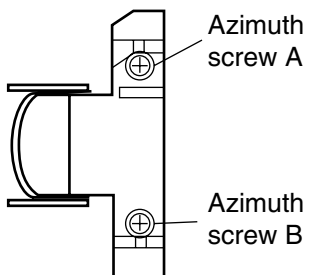
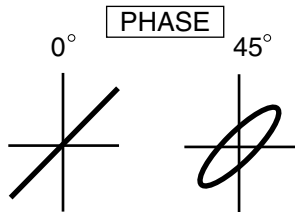
## ■ Disassembly method

1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover .
4. Install the front panel.
5. Confirm that current is being carried by connecting an extension cord jig.

Note

Available to connect to the CP701 connector when installing the front panel.

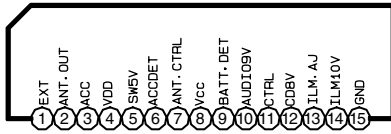


Item	Adjustment and check method	Adjust	Spec			
<p>1. Tape position</p> <p>2. Head azimuth ajust and check</p>	<p>a) Playback at FWD side, use the mirror tape and adjuste azimuth screw A and B, check the tape position at tape guide position of the head.</p> <p>b) Playback at REV side, use the mirror tape and adjuste azimuth screw A and B, check the tape position at tape guide position of the head.</p> <p>c) Playback at FWD and REV both side, check the tape position at tape guide position at the head.</p> <p>a) Playback at FWD side, adjuste azimuth screw A to make peak position of Lch /Rch. * Oscilloscope wave forme standard is 45 digrees.</p> <p>b) Playback at REV side, adjuste azimuth screw B to make peak position of Lch/Rch. * Oscilloscope wave forme standard si 45 digrees.</p> <p>c) Check the level difference of FWD side and REV side less than 3dB by VTVM.</p> <p>d) After operation check, Lch/Rch azimuth output level difference is less than 1 dB at adjustment level.</p>  	 	<p>3. Tape speed WOW &amp; Flutter</p> <p>4. Playback frequency responce</p>	<p>a) Check the frequency counter and wow flutter meter are 2940~3090Hz(FWD/REV), less than 0.35%(RMS).</p> <p>b) If tape speed is not clear the specification, adjust the v.resistor inside of motor.</p> <p>a) Playback the test tape(VT724:1kHz), spreaker output set to 2V by set volume. Playback the test tape(VT739), check level differe</p> <p>b) to <math>0 \pm 3\text{dB}</math> at 1kHz/10kHz, <math>-4\text{dB} \pm 2\text{dB}</math> at 1kHz/63Hz. 10kHz level is not clear the specification, readjust the head azimuth.</p>	<p>Internal v.resistor</p>	<p>Tape speed 2940~3090Hz WOW &amp; Flutter less than 0.35% (RMS)</p> <p>Speaker output 1kHz/10kHz :<math>0 \pm 3\text{dB}</math> 1kHz/63Hz :<math>-4 \pm 2\text{dB}</math></p>

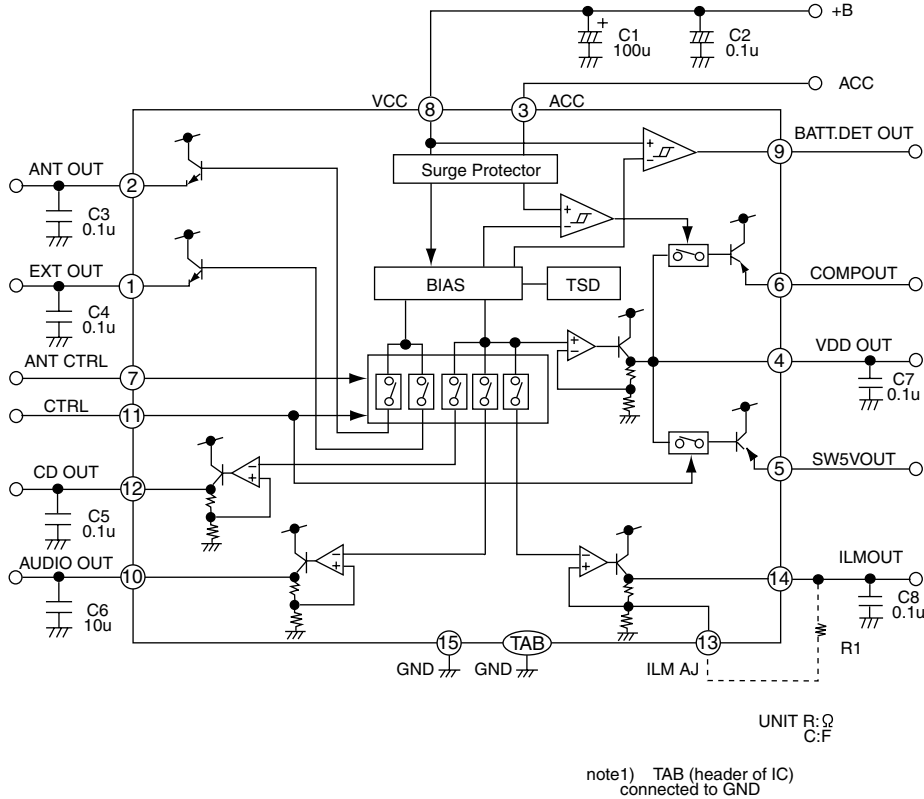
# Description of major ICs

## ■ HA13164A (IC901) : Regulator

### 1. Terminal layout



### 2. Block diagram

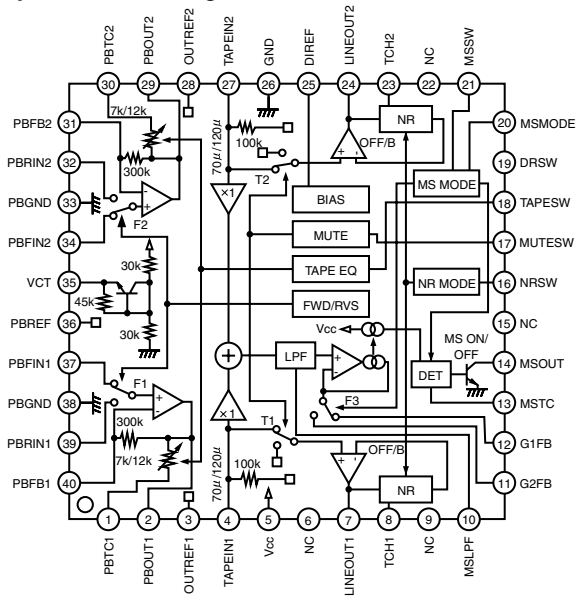


### 3. Pin function

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

■ CXA2560Q (IC401) : Dolby B type noise reduction system with play back equalizer amp.

1. Pin layout & block diagram



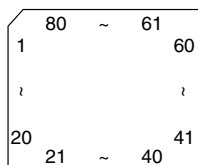
2. Pin function

Pin No.	Symbol	I/O	Function
1	PBTC1	-	Playback equalizer amplifier capacitance
2	PBOUT1	O	Playback equalizer amplifier output
3	OUTREF1	O	Output reference
4	TAPEIN1	I	TAPE input
5	Vcc	-	Power supply
6	NC	-	
7	LINEOUT1	O	Line output
8	TCH1	-	Time constant for the HLS
9	NC	-	
10	MSLPF	-	Cut-off frequency adjustment of the music sensor LPF
11	G2FB	-	Music signal interval detection
12	G1FB	-	Music signal interval detection
13	MSTC	-	Time constant for detecting music signal interval
14	MSOUT	O	Music sensor out
15	NC	-	No use
16	NRSW	I	Dolby NR control
17	MUTESW	I	Mute function control
18	TAPESW	I	Playback equalizer amplifier control
19	DRSW	I	Head select control
20	MSMODE	I	Music sensor mode control
21	MSSW	I	Music sensor control
22	NC	-	
23	TCH2	-	Time constant for the HLS
24	LINEOUT2	O	Line output

Pin No.	Symbol	I/O	Function
25	DIREF	-	Resistance for setting the reference
26	GND	-	Ground
27	TAPEIN2	I	TAPE input
28	OUTREF2	O	Output reference
29	PBOUT2	O	Playback equalizer amplifier output
30	PBTC2	-	Playback equalizer amplifier capacitance
31	PBFB2	I	Playback equalizer amplifier feedback
32	PBRIN2	I	Playback equalizer amplifier input
33	PBGND	-	Playback equalizer amplifier ground
34	PBFIN2	I	Playback equalizer amplifier input
35	VCT	O	Center
36	PBREF	O	Playback equalizer amplifier reference
37	PBFIN1	I	Playback equalizer amplifier input
38	PBGND	-	Playback equalizer amplifier ground
39	PBRIN1	I	Playback equalizer amplifier input
40	PBFB1	I	Playback equalizer amplifier feedback

## ■ UPD178018AGC624 (IC701) : CPU

### 1. Pin layout



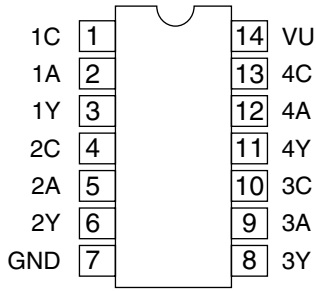
### 2. Pin function

Pin No.	Port Name	I/O	Descriptions
1	KEY 0	I	Key input 0
2	KEY 1	I	Key input 1
3	KEY 2	I	Key input 2
4	LEVEL	I	Level meter input
5	SM	I	S.meter level input
6	SQ	I	S.Quality level input
7	LCDCE	O	CE output to LCD driver
8	LCDDA	O	Data output to LCD driver
9	LCDCK	O	Clock output to LCD driver
10	BUSI/O	I	I/O selector output for J-BUS, H : OUT, L: INPUT
11	OPEN	I	Door open detect input
12	BUSSI	I	J-BUS Data input
13	BUSSO	O	J-BUS Data output
14	BUSSCK	I/O	J-BUS Clock in/output
15	NC	-	Non connect
16	NC	-	Non connect
17	NC	-	Non connect
18	NC	-	Non connect
19	INLOCK	-	Non connect
20	NC	-	Non connect
21	GNDPORT	-	Port GND
22	VDDPORT	-	Port Vdd
23	NC	-	Non connect
24	AFCK	O	AF check output, L: AF check
25	MONO	O	Monaural on /off selecting output, H:mono on
26	FM/AM	O	FM/AM switching output L : FM H : AM
27	SEEK/STOP	O	Auto seek /stop selecting output, H: Seek, L:Stop
28	NC	-	Non connect
29	IFC	I	FM/AM midle frequency counter input
30	VDDPLL	-	PLL Vdd
31	FMOSC	I	FM/AM limited generator frequency input
32	NC	-	None connect
33	GNDPLL	-	PLL GND
34	AMEO	O	AM error out output
35	FMEO	O	FM error out output
36	IC	-	GND
37	SD/ST	I	Station detector, Stereo signal input, H:Find Station, L:Stereo
38	STAGE0	I	Pull up
39	NC	-	Non connect
40	MOTOR	O	Main motor output

Pin No.	Port Name	I/O	Descriptions
41	FF/REW	I	Output for input signal level switching for MS L : FF,REW H : PLAY
42	F/R	O	FWD,REV running direction switch signal input
43	DOLBY	O	Dolby on "H" output
44	MSIN	I	MS input
45	I2CSCK	I/O	E-VOL IC control data I/O
46	I2CDAO	O	I2C information data output
47	I2CDAI	I	I2C information clock input
48	REEL	O	Switch for detecting tape end position
49	SUBMO1	I	Sub motor clock direction input
50	SUBMO2	O	Sub motor clock opposite detection drive output
51	MODE	O	Mechanism mode position detection input
52	TAPEIN	O	Cassette in detection input H : cassette in L : cassette out
53	STANDBY	I	Standby position detection input H : eject side L : operation side
54	NC	-	Non connect
55	NC	-	Non connect
56	NC	-	Non connect
57	NC	-	Non connect
58	NC	-	Non connect
59	BEEP	O	Touch tone output
60	MUTE	O	Mute output , L : mute on
61	PCNT	O	Power ON /OFF switching output , H : power on
62	TELMUTE	I	Telephone mute signal detection input
63	DIMIN	I	Dimmer signal detection input L : dimmer
64	DIMOUT	O	Dimmer control output , Dimmer off L output
65	ENC2	I	Rotary volume signal 2 input
66	ENC1	I	Rotary volume signal 1 input Power save : L
67	ACCDDET	I	Power save 1 Working togethe ACC Power save : L
68	MEMDET	I	Backup power supply detection terminal
69	RDSCK	I	Clock input for RDS
70	RSDSA	I	RDS data input
71	REMOCON	I	Remocom input
72	DETACH	I	Detach signal input H : Power save
73	J-BUSINT	I	Cut-in input for J-BUS signal
74	REGCPU	-	Regulator for CPU power supply, Connect the GND with 0.1 $\mu$ F.
75	GND	-	Ground
76	X2	-	Connecting the crystal oscillator for system clock
77	X1	I	Connecting the crystal oscillator for system clock
78	REGOSC	-	Regulator for oscillator circuit.Connect the GND with 0.1 $\mu$ F.
79	VDD	-	Vdd
80	RESET	-	Pull up

■ HD74HC126FP-X (IC801) : Buffer

1. Terminal layout

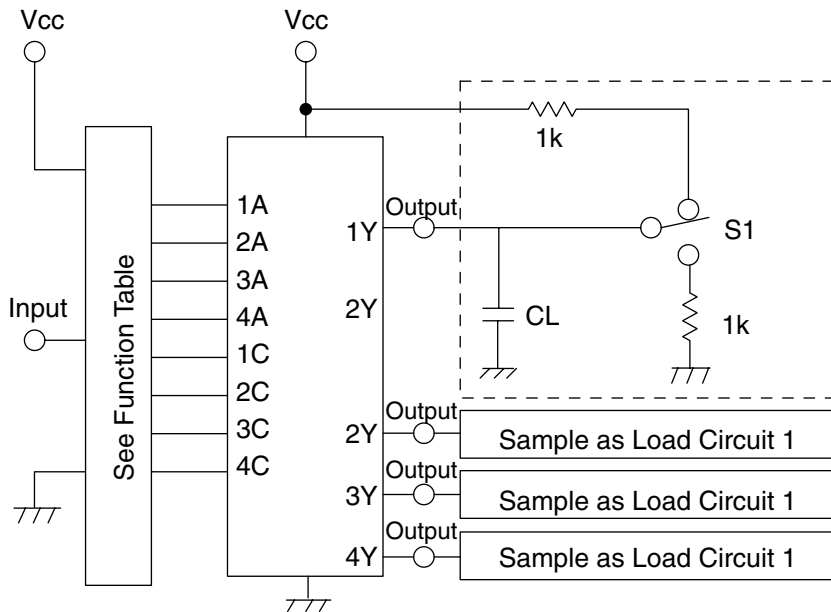


3. Pin function

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

Note) H:High level  
 L:Low level  
 X:Irrelevant  
 Z:Off(High-impedance)  
 State a 3-state input

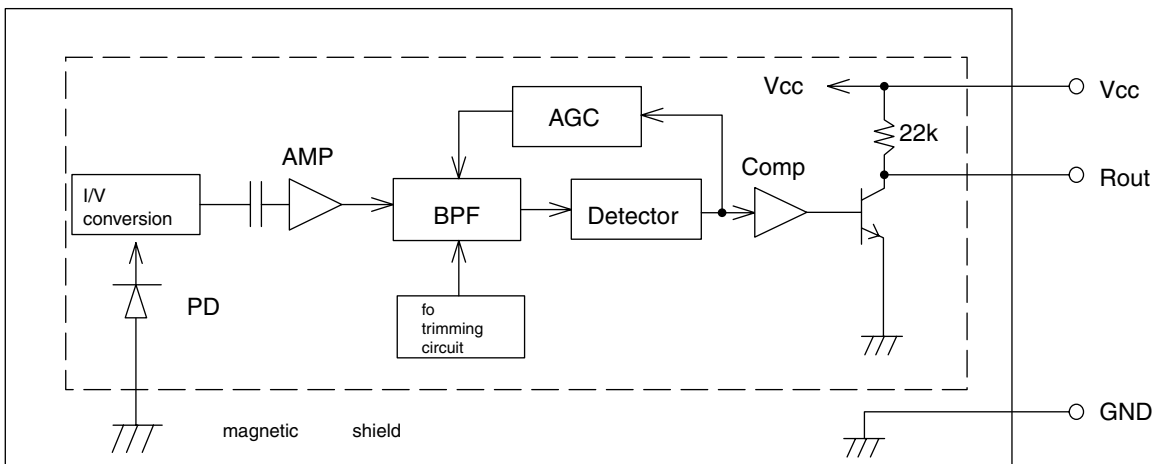
2. Block diagram



Note) CL includes probe and jig capacitance

■ RPM6938-SV4 (IC602) : Remote sensor

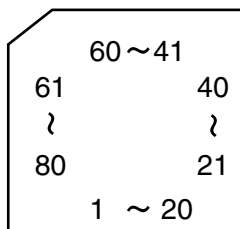
1. Block diagram



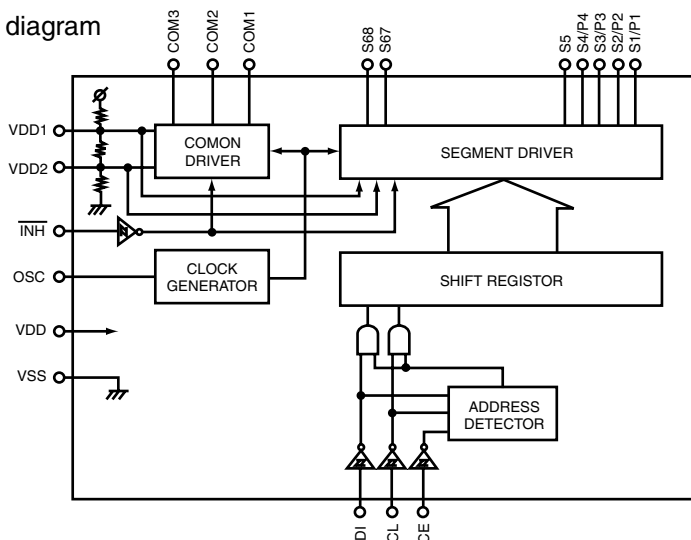


■ LC75873NW (IC601) : LCD driver

1.Pin layout



2.Block diagram

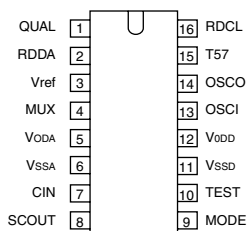


3.Pin function

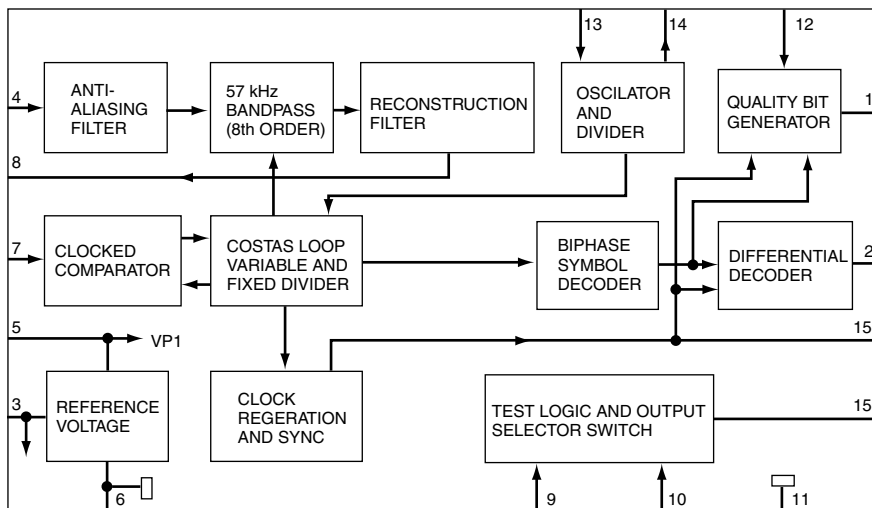
Pin No.	Pin name	I/O	Description
79,80 1,2,3 to 66	S1/P1 TO S4/P4 S5 to S68	O	Segment outputs for displaying the display data transferred by serial data input. The S1/P1 to S4/P4 pins can be used as general-purpose output ports under serial data control.
67 78 69	COM1 COM2 COM3	O	Common driver outputs. The frame frequency $f_0$ is given by : $f_0 = (F_{OSC}/384)Hz$ .
74	OSC	I/O	Oscillator connection An oscillator circuit is formed by connecting an external resistor and capacitor to this pin.
76 77 78	CE CL DI	I	Serial data transfer inputs. Connected to the controller. CE:Chip enable CL:Synchronization clock DI:Transfer data
75	$\overline{INH}$	I	Display off control input <ul style="list-style-type: none"> <li><math>\overline{INH} = "L"(VSS)</math> ... Display forced off                      S1/P1 to S4/P4 = "L"                      (These pins are forcibly set to the segment output port function and held at the low level.)                      S5 to S68 = "L"                      COM1 to COM3="L"</li> <li><math>\overline{INH} = "H"(HDD)</math> ... Display on                      However, serial data transfer is possible when the display is forced off by this pin.</li> </ul>
71	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias drive scheme is used.
72	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias drive scheme is used.
70	VDD	-	Power supply connection. Provide a voltage of between 3.0 and 6.0V.
73	VSS	-	Power supply connection. Connect to ground.

## ■ SAA6579T-X (IC71) : RDS

### 1.Pin layout



### 2.Block diagram



### 3.Pin function

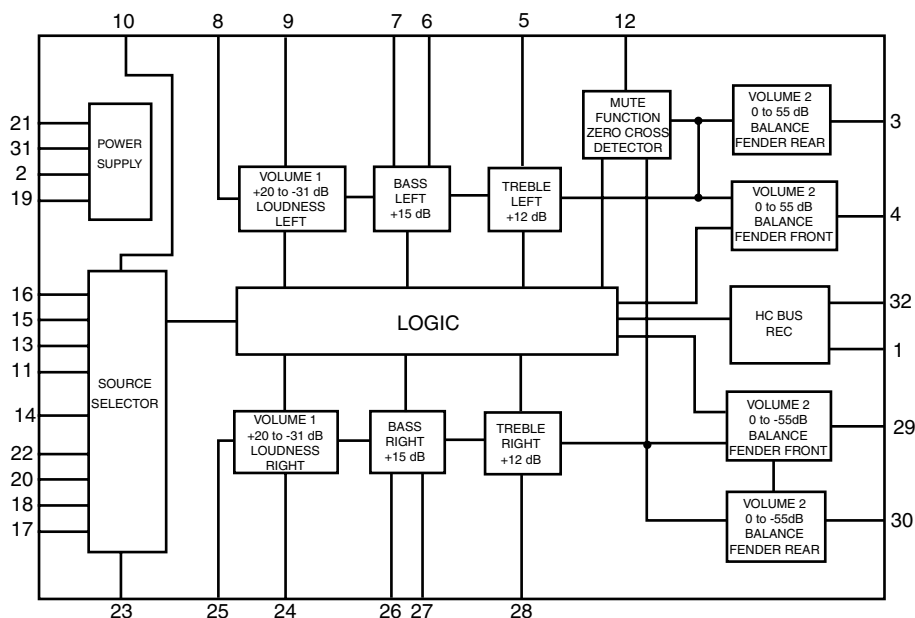
Pin No.	Symbol	Description
1	QUAL	Quality indication output
2	RDDA	RDS data output
3	Vref	Reference voltage output (0.5VDDA)
4	MUX	Multiolex signal input
5	VDDA	+5V supply voltage for analog part
6	VSSA	Ground for analog part (0V)
7	CIN	Subcarrier input to comparator
8	SCOUT	Subcarrier output of reconstruction filter
9	MODE	Oscillator mode / test control input
10	TEST	Test enable input
11	VSSD	Ground for digital part (0V)
12	VDDD	+5V supply voltage for digital part
13	OSCI	Oscillator input
14	OSCO	Oscillator output
15	T57	57 kHz clock signal output
16	RDCL	RDS clock output

TEA6320T-X (IC161) : E.VOLUME

1.Terminal Layout

SDA	1	32	SCL
GND	2	31	VCC
OUTLR	3	30	OUTRR
OUTLF	4	29	OUTRF
TL	5	28	TR
B2L	6	27	B2R
B1L	7	26	B1R
IVL	8	25	IVR
ILL	9	24	ILR
QSL	10	23	QSR
IDL	11	22	IDR
MUTE	12	21	Vref
ICL	13	20	ICR
IMD	14	19	CAP
IBL	15	18	IBR
IAL	16	17	IAR
			CD-CH
			TUNER

2.Block Diagram

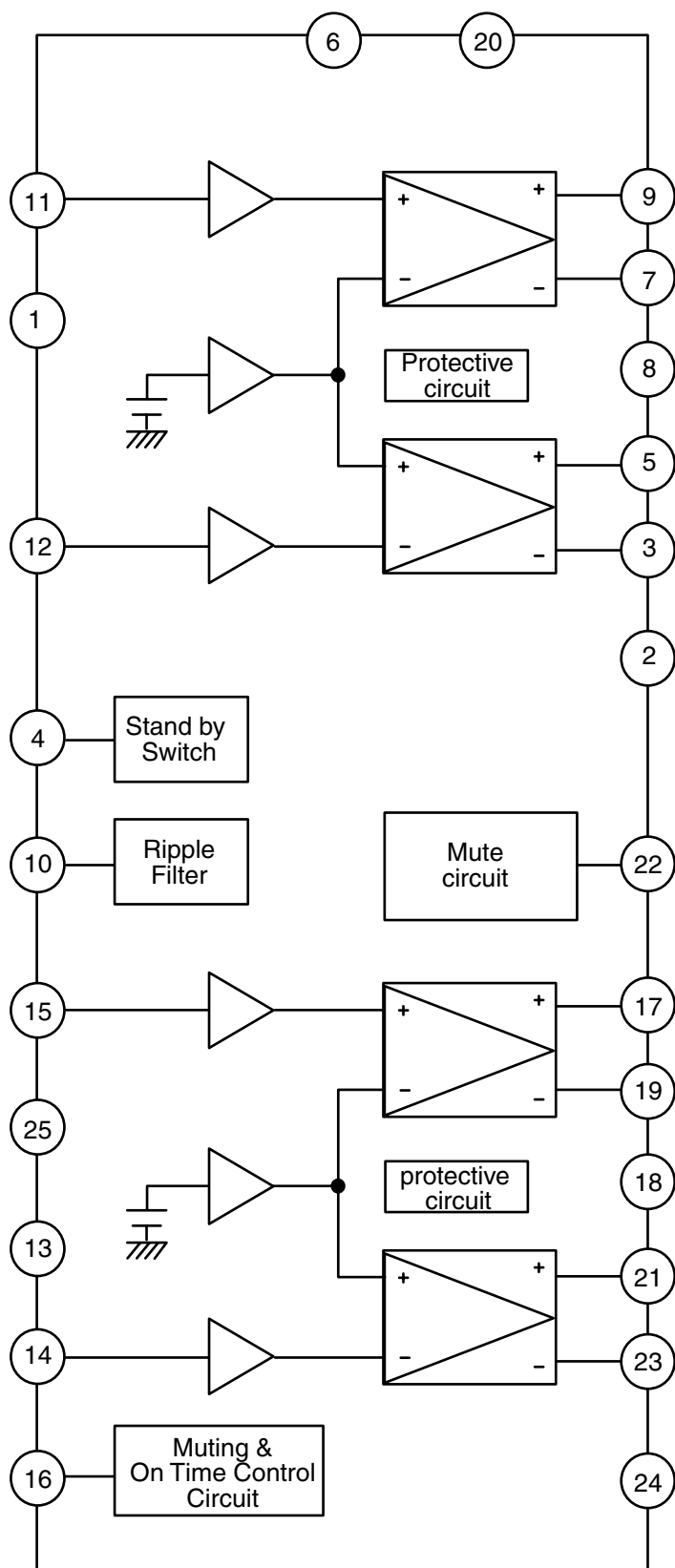


3.Pin Functions

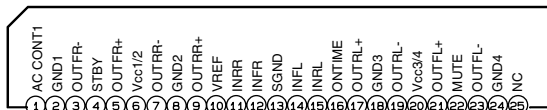
Pin No.	Symbol	I/O	Functions	Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.	17	IAR	I	Input A right source.
2	GND	-	Ground.	18	IBR	I	Input B right source.
3	OUTLR	O	output left rear.	19	CAP	-	Electronic filtering for supply.
4	OUTLF	O	output left front.	20	ICR	I	Input C right source.
5	TL	I	Treble control capacitor left channel or input from an external equalizer.	21	Vref	-	Reference voltage (0.5Vcc)
6	B2L	-	Bass control capacitor left channel or output to an external equalizer.	22	IDR	-	Not used
7	B1L	-	Bass control capacitor left channel.	23	QSR	O	Output source selector right channel.
8	IVL	I	Input volume 1. left control part.	24	ILR	I	Input loudness right channel.
9	ILL	I	Input loudness. left control part.	25	IVR	I	Input volume 1. right control part.
10	QSL	O	Output source selector. left channel.	26	B1R	-	Bass control capacitor right channel
11	IDL	-	Not used	27	B2R	O	Bass control capacitor right channel or output to an external equalizer.
12	MUTE	-	Not used	28	TR	I	Treble control capacitor right channel or input from an external equalizer.
13	ICL	I	Input C left source.	29	OUTRF	O	Output right front.
14	IMO	-	Not used	30	OUTRR	O	Output right rear.
15	IBL	I	Input B left source.	31	Vcc	-	Supply voltage.
16	IAL	I	Input A left source.	32	SCL	I	Serial clock input.

■ LA47505 (IC301) : Power amp.

1. Terminal layout



2. Terminal layout



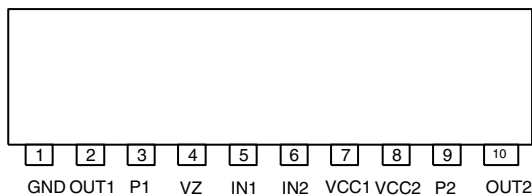
3. Pin function

LA47505

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

■ LB1641 (IC402) : DC motor driver

1. Pin layout



2. Pin function

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



**VICTOR COMPANY OF JAPAN, LIMITED**

MOBILE ELECTRONICS DIVISION

PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

# PARTS LIST

[ KS-FX925R ]

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

Area suffix

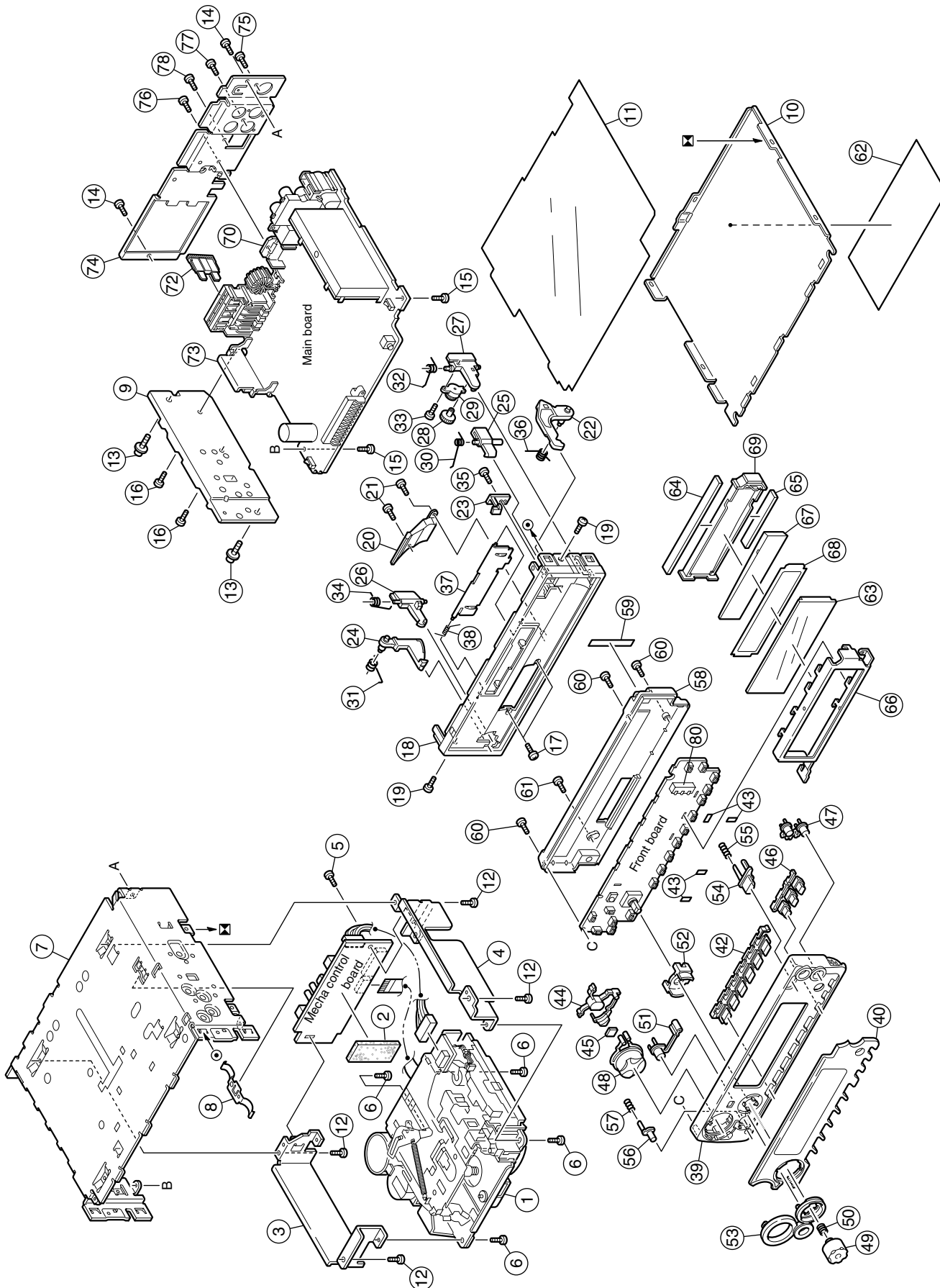
EE ----- Russian Federation

## - Contents -

Exploded view of general assembly and parts list (Block No.M1) .....	3- 2
Cassette mechanism assembly and parts list (Block No.MP) .....	3- 5
Electrical parts list (Block No.01~03) .....	3-10
Packing materials and accessories parts list (Block No.M3,M5) .....	3-16

# Exploded view of general assembly and parts list

Block No. M 1 M M





## ■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	-----	CASSETTE MECHA	1	CDS-802JE1	
	2	FSYH4036-050	SHEET	1		
	3	FSKL2001-004	MECHA BRACKET L	1		
	4	FSKL2002-002	MECHA BRACKET R	1		
	5	QYSDST2606Z	SCREW	1		
	6	QYSDST2606Z	SCREW	4		
	7	GE10043-002A	TOP CHASSIS	1		
	8	GE40135-001A	EARTH PLATE	1		
	9	GE30568-003A	SIDE PANEL	1		
	10	GE30393-001A	BOTTOM COVER	1		
	11	FSMA3005-001	INSULATOR	1		
	12	QYSDST2604Z	SCREW	4	CHASSIS+MECHA BKT	
	13	FSKZ4005-001	SCREW	2	CHASSIS+SIDE PANEL	
	14	QYSDST2604Z	SCREW	2	CHASSIS+REAR BKT	
	15	QYSDST2606Z	SCREW	2	CHASSIS+MAIN PWB	
	16	QYSDST2612Z	SCREW	2	SIDE PANEL+IC BKT	
	17	QYSDSF2006M	SCREW	2	F.CHASSIS+CONNECTOR	
	18	GE10048-003A	FRONT CHASSIS	1		
	19	QYSDST2004M	SCREW	2		
	20	VJK3707-001	LIGHT LENS	1		
	21	QYSPSGU1745N	MINI SCREW	2	L.LENS+F.CHASSIS	
	22	GE30378-001A	OPEN LEVER	1		
	23	FSKS3015-001	LOCK LEVER(O.L)	1		
	24	VKS3798-002	RELEASE LEVER	1		
	25	GE30379-001A	LOCK LEVER(TOP)	1		
	26	VKS3794-003	LOCK LEVER(L)	1		
	27	VKS3795-002	LOCK LEVER(R)	1		
	28	VKS5563-001	GEAR	1		
	29	VKZ4786-002	OIL DAMPER	1		
	30	FSKW4012-001	T.SPRING	1	LOCK LEVER(TOP)	
	31	GE40144-001A	T.SPRING	1	RELEASE LEVER	
	32	VKW5262-001	T.SPRING	1	LOCK LEVER(R)	
	33	QYSDSF2006M	SCREW	1	DAMPER+L.LEVER(R)	
	34	VKW5263-002	T.SPRING	1	LOCK LEVER(L)	
	35	VKZ4777-001	MINI SCREW	1	LOCK LEVER(O.L)	
	36	FSKW4013-002	T.SPRING	1	OPEN LEVER	
	37	FSJC3014-001	CASSETTE LID	1		
	38	VKW4947-002	DOOR SPRING	1		
	39	GE10041-001A	FRONT PANEL	1		
	40	GE30369-012A	FINDER ASSY	1		
	42	GE20104-002A	PRESET BUTTON	1	1-6	
	43	FSYH4036-069	SHEET	4		
	44	GE30535-001A	POWER BUTTON	1		
	45	FSYH4036-074	SHEET	1		
	46	GE30374-002A	SND FUNC BUTTON	1		
	47	GE30370-002A	D.FUNC BUTTON	1	F/A,CD-CH	
	48	GE30371-002A	NAVIGATION BUTTON	1		
	49	GE30372-001A	VOLUME KNOB	1		

## ■ Parts list (General assembly)

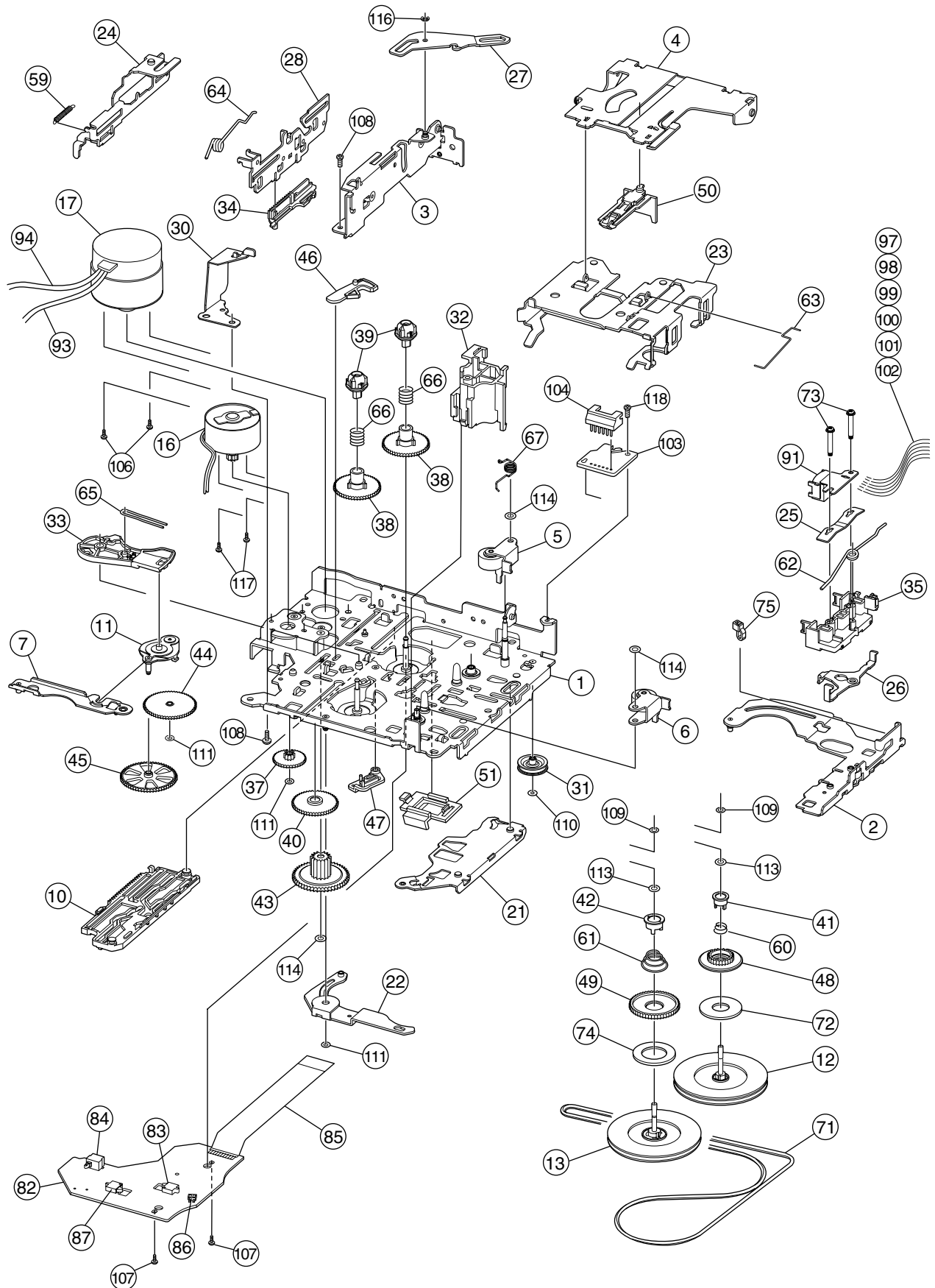
Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	50	GE40127-001A	KNOB SPRING	1		
	51	GE40129-001A	SELECT BUTTON	1		
	52	GE30373-001A	RIM LENS	1		
	53	GE20123-001A	RIM COVER	1		
	54	GE40128-001A	EJECT BUTTON	1		
	55	VKW3001-330	COMP.SPRING	1	EJECT BUTTON	
	56	GE30116-001A	DETACH BUTTON	1		
	57	VKW3001-330	COMP.SPRING	1	DETACH BUTTON	
	58	GE10042-001A	REAR COVER	1		
	59	FSYH4036-078	SHEET	1		
	60	VKZ4777-001	MINI SCREW	3	FRONT+REAR	
	61	VKZ4777-001	MINI SCREW	1	RIM COVER	
	62	GE30354-002A	NAME PLATE	1		
	63	QLD0217-001	LCD MODULE	1	LCD1	
	64	QNZ0449-001	RUBBER CONNE	1		
	65	QNZ0450-001	RUBBER CONNE	1		
	66	GE30375-001A	LCD CASE	1		
	67	FSJK3028-001	LCD LENS	1		
	68	FSYH4061-001	LIGHTNG SHEET	1		
	69	FSKS3013-001	LENS CASE	1		
	70	GE40124-001A	REG BRACKET	1		
△	72	QMFZ047-150-T	FUSE	1		
	73	GE40136-001A	IC BRACKET	1		
	74	GE30382-001A	REAR BRACKET	1		
	75	QYSDST2606Z	SCREW	1	REAR BKT+ANT JACK	
	76	QYSDST2606Z	SCREW	1	REAR BKT+REG BKT	
	77	QYSDSF2606Z	SCREW	1	REAR BKT+PIN JACK	
	78	QYSDST2606Z	SCREW	1	REAR BKT+CD IN JACK	
	80	FSKS3017-002	LED HOLDER	1		

# Cassette mechanism assembly and parts list

CDS-802JE1

Block No. M P M M



## ■ Parts list (Cassette mechanism)

Block No. MPMM

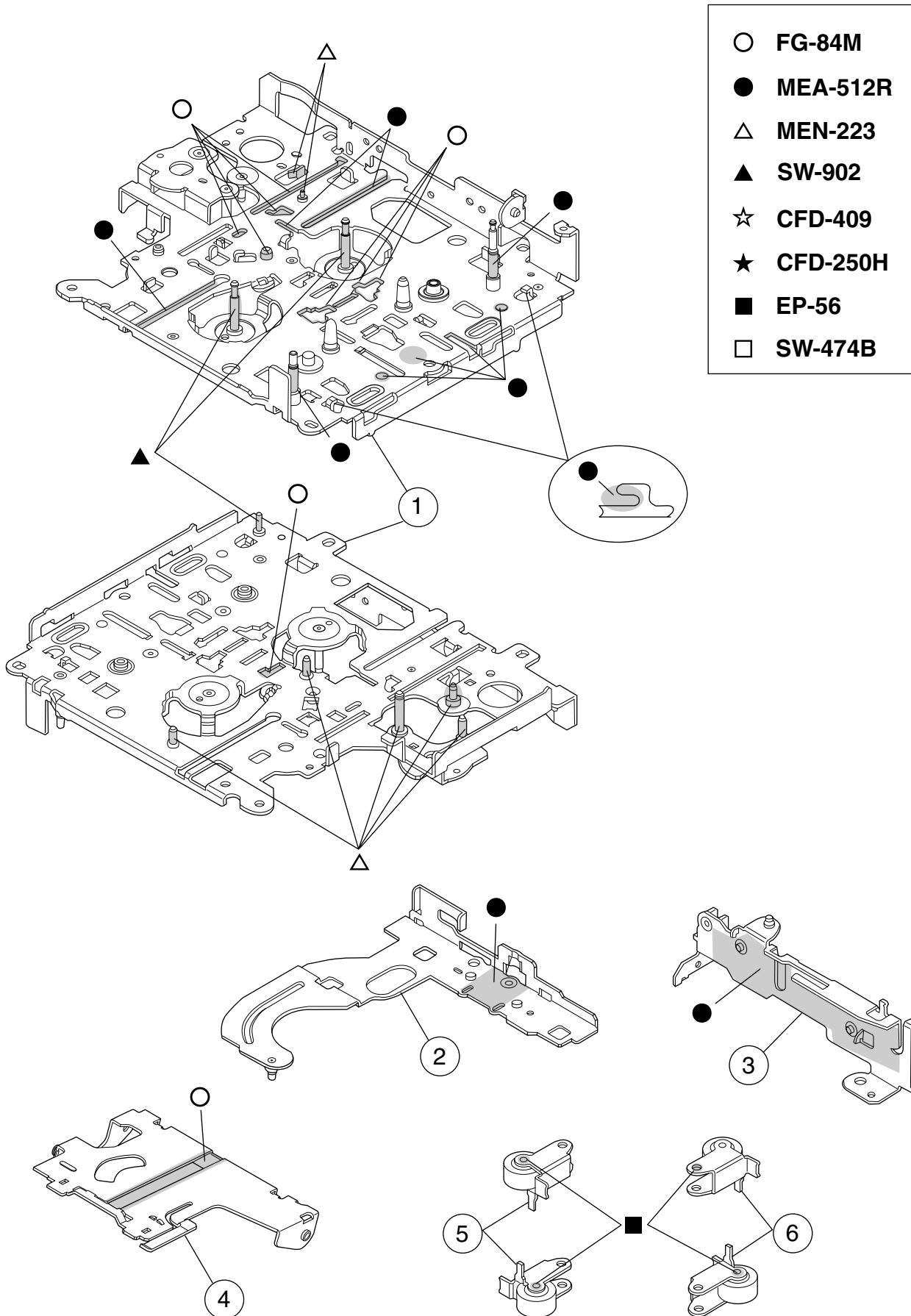
△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	X-0802-1009S	MAIN CHASSIS AS	1		
	2	X-0802-1002S	SLIDE CHASSIS A	1		
	3	X-0802-1003S	SIDE BKT ASSY	1		
	4	X-0802-1004S	CASSETTE HANGER	1		
	5	X-0802-1005S	PINCH ARM F ASS	1		
	6	X-0802-1006S	PINCH ARM R ASS	1		
	7	X-0802-1007S	GEARBASE LINK A	1		
	10	X-0802-2001S	MODE RACK ASSY	1		
	11	X-0802-2002S	GEAR BASE ASSY	1		
	12	1-0802-6001S	FLYWHEEL ASSY F	1		
	13	1-0802-6002S	FLYWHEEL ASSY R	1		
	16	X-0802-7002S	SUB MOTOR ASSY	1		
	17	X-0802-7004S	MAIN MOTOR ASSY	1		
	21	1-0802-1002S	DIRECTION PLATE	1		
	22	1-0802-1005S	DIRECTION LINK	1		
	23	1-0802-1006S	CASSETTE HOLDER	1		
	24	1-0802-1011S	EJECT CAM LIMIT	1		
	25	1-0802-1012S	HEAD SUPPORT SP	1		
	26	1-0802-1013S	PINCH SPG ARM	1		
	27	1-0802-1014S	LOAD ARM	1		
	28	1-0802-1015S	EJECT CAM PLATE	1		
	30	1-0801-1020S	REINFORCE BKT	1		
	31	1-0101-2056S	IDLE PULLEY(A1)	1		
	32	1-0802-2001S	CASSETTE GUIDE	1		
	33	1-0802-2004S	GEAR BASE ARM	1		
	34	1-0802-2006S	LOAD RACK	1		
	35	1-0802-2007S	TAPE GUIDE	1		
	37	1-0802-2009S	REDUCTION GEAR	1	A	
	38	1-0802-2010S	REEL SPINDLE	2		
	39	1-0802-2011S	REEL DRIVER	2		
	40	1-0802-2012S	REDUCTION GEAR	1	B	
	41	1-0802-2013S	SPG HOLDER F	1		
	42	1-0802-2014S	SPG HOLDER R	1		
	43	1-0802-2015S	MODE GEAR	1		
	44	1-0802-2016S	TAKE UP GEAR	1		
	45	1-0802-2017S	REFLECTOR GEAR	1		
	46	1-0802-2018S	RACK LINK	1		
	47	1-0802-2019S	MODE SW ACTUATR	1		
	48	1-0802-2020S	FRICTION GEAR	1	PLAY	
	49	1-0802-2021S	FRICTION GEAR	1	FF	
	50	1-0802-2022S	CASSETTE CATCH	1		
	51	1-0802-2026S	FFC PAD	1		
	59	1-0802-4001S	EJECT CAM PL SP	1		
	60	1-0802-4002S	TU SPG	1		
	61	1-0802-4003S	FF SPG	1		
	62	1-0802-4004S	PINCH ARM SPG	1		
	63	1-0802-4005S	HOLDER STAB SPG	1		
	64	1-0802-4006S	HOLDER CUSH SPG	1		

## ■ Parts list (Cassette mechanism)

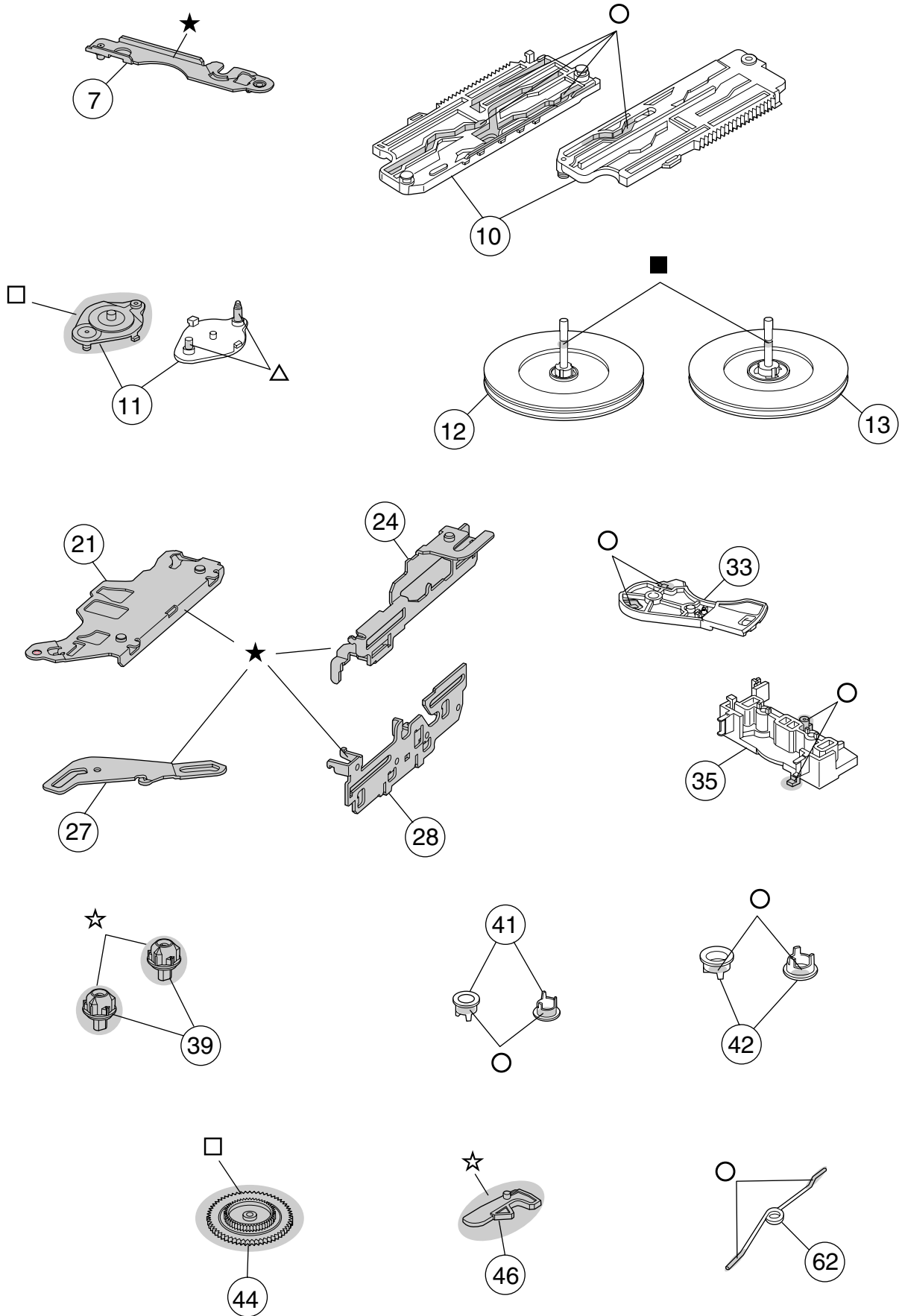
Block No. MPMM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	65	1-0802-4007S	GEAR BASE SPG	1		
	66	1-0802-4008S	REEL DRIVER SPG	2		
	67	1-0802-4013S	COMPULSION SPG	1		
	71	1-0802-5001S	BELT	1		
	72	1-0802-5002S	FELT	1	7.5*18.5*1.0	
	73	1-0802-5003S	AZIMUTH SCREW	2		
	74	1-0802-5004S	FELT	1	11*18.5*1.0	
	75	1-0050-5023S	WIRE CLAMPER	1		
	82	1-0802-7001S	REEL PCB DL	1		
	83	1-0802-7010S	SWITCH(MATSUSIT	1	ESE22MH32	
	84	1-0802-7003S	SWITCH(MIC)	1	MPU11750MLB0	
	85	1-0802-7016S	FLAT CABLE 10P	1	10P-JVC	
	86	1-0801-7024S	PHOTO SENSOR(MA	1	ON2170-QR FS	
	87	1-0802-7009S	SWITCH(MIC)	1	MPU12370MLB0	
	91	1-0802-7007S	HEAD(MITSUMI)	1	P-5344-CB-4152	
	93	1-0801-7009-0S	M.MOTOR WIRE	1	BLACK	
	94	1-0801-7009-1S	M.MOTOR WIRE	1	RED	
	97	1-0802-7012-0S	HEAD WIRE	1	BLACK	
	98	1-0802-7012-1S	HEAD WIRE	1	BROWN	
	99	1-0802-7012-2S	HEAD WIRE	1	RED	
	100	1-0802-7012-3S	HEAD WIRE	1	ORANGE	
	101	1-0802-7012-4S	HEAD WIRE	1	YELLOW	
	102	1-0802-7012-5S	HEAD WIRE	1	WHITE	
	103	1-0802-7008S	HEAD PCB	1		
	104	1-0801-7025S	CONNECTOR	1	S6B-PH-K-S(JST)	
	106	2-1032-0025-C2S	SCREW	2	M2*2.5 #3	
	107	2-13S2-0025-P2S	+PLAIN SCREW	2	M2*2.5 #2S	
	108	2-1112-6035-C2S	+PLAIN SCREW	1	M2.6*3.5 #3	
	109	2-1816-0032-E8S	LMW-S	2	1.6*3.2*0.35	
	110	2-1812-0032-D2S	PSW-S	1	1.2*3.2*0.25	
	111	1-0036-5024S	PSW-S(REEL B)	3	1.5*3.2*0.25	
	113	2-1821-0040-D1S	PSW	2	2.1*4.0*0.25	
	114	2-1821-0040-D2S	PSW-S	3	2.1*4.0*0.25	
	116	2-1711-5040-16S	E RING	1		
	117	2-1031-7030-C2S	SCREW	2	M1.7*3.0 #3	
	118	2-1332-0035-P1S	SCREW	1	M2*3.5	

# Grease point 1/2



# Grease point 2/2



## ■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	BZ841	QAN0002-001Z	BUZZER				C 304	NCS31HJ-391X	C CAPACITOR		
	C 1	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V			C 305	NCB31EK-104X	C CAPACITOR		
	C 2	NDC31HJ-470X	C CAPACITOR				C 307	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 3	NCB31EK-473X	C CAPACITOR				C 308	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 4	NCB31EK-104X	C CAPACITOR				C 309	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 5	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 313	NCS31HJ-391X	C CAPACITOR		
	C 6	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 314	NCS31HJ-391X	C CAPACITOR		
	C 7	QERF1HM-104Z	E CAPACITOR	0.1MF 20% 50V			C 318	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 8	NDC31HJ-470X	C CAPACITOR				C 319	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 9	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V			C 323	NCB31EK-104X	C CAPACITOR		
	C 10	NCB31HK-331X	C CAPACITOR				C 324	NCB31EK-104X	C CAPACITOR		
	C 31	NCB31EK-823X	C CAPACITOR				C 325	NCB31EK-104X	C CAPACITOR		
	C 32	NCB31EK-823X	C CAPACITOR				C 326	NCB31EK-104X	C CAPACITOR		
	C 33	NDC21HJ-151X	C CAPACITOR				C 327	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 41	NCB31HK-102X	C CAPACITOR				C 328	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 42	QEQF1HM-225Z	NP E CAPACITOR	2.2MF 20% 50V			C 329	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 43	QERF1HM-474Z	E CAPACITOR	0.47MF 20% 50V			C 701	NCB31HK-102X	C CAPACITOR		
	C 51	NDC31HJ-331X	C CAPACITOR				C 702	NCB31EK-104X	C CAPACITOR		
	C 52	NCB31EK-103X	C CAPACITOR				C 703	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 53	NCB31HK-472X	C CAPACITOR				C 704	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 54	NCB31EK-104X	C CAPACITOR				C 705	NCB31EK-104X	C CAPACITOR		
	C 55	QERF1HM-474Z	E CAPACITOR	0.47MF 20% 50V			C 706	NDC21HJ-270X	C CAPACITOR		
	C 71	NCB31EK-223X	C CAPACITOR				C 707	NDC21HJ-270X	C CAPACITOR		
	C 72	NCB31HK-561X	C CAPACITOR				C 708	NCB31EK-104X	C CAPACITOR		
	C 73	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 709	NCB31EK-104X	C CAPACITOR		
	C 74	NDC31HJ-820X	C CAPACITOR				C 713	NCB31EK-473X	C CAPACITOR		
	C 75	NDC31HJ-470X	C CAPACITOR				C 781	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 76	NCB31HK-103X	C CAPACITOR				C 782	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 77	QERF1CM-476Z	E CAPACITOR	47MF 20% 16V			C 801	NCB31EK-473X	C CAPACITOR		
	C 81	NCB31EK-153X	C CAPACITOR				C 841	QERF1HM-104Z	E CAPACITOR	0.1MF 20% 50V	
	C 82	NCB31HK-153X	C CAPACITOR				C 881	NCB31EK-104X	C CAPACITOR		
	C 83	NCB31HK-102X	C CAPACITOR				C 882	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 84	NCB31HK-102X	C CAPACITOR				C 891	NCB31EK-104X	C CAPACITOR		
	C 161	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 901	QERF1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 162	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 902	NCB31EK-473X	C CAPACITOR		
	C 163	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 903	QETB1CM-228	E CAPACITOR	2200MF 20% 16V	
	C 164	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 904	NCB31EK-473X	C CAPACITOR		
	C 165	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 905	QERF1HM-104Z	E CAPACITOR	0.1MF 20% 50V	
	C 166	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 906	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 167	QERF1CM-476Z	E CAPACITOR	47MF 20% 16V			C 907	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 168	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V			C 908	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 169	NCB31HK-822X	C CAPACITOR				C 909	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C 170	NCB21CK-154X	C CAPACITOR				C 911	NCS31HJ-151X	C CAPACITOR		
	C 171	NCB21CK-224X	C CAPACITOR				C 981	NCB31EK-104X	C CAPACITOR		
	C 172	NCB31HK-822X	C CAPACITOR				C 982	QERF1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 173	NCB21CK-154X	C CAPACITOR				CJ601	QNZ0007-002	CAR CONNECTOR		
	C 174	NCB21CK-224X	C CAPACITOR				CP401	QGB1214J1-18S	CONNECTOR		
	C 175	NCB31EK-333X	C CAPACITOR				CP901	QNZ0112-001	CAR CONNECTOR		
	C 176	NCB31EK-333X	C CAPACITOR				D 2	1SS355-X	DIODE		
	C 177	NCB31HK-562X	C CAPACITOR				D 3	1SS355-X	DIODE		
	C 178	NCB31HK-562X	C CAPACITOR				D 4	1SS355-X	DIODE		
	C 180	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V			D 5	1SS133-T2	SI.DIODE		
	C 181	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 6	1SS133-T2	SI.DIODE		
	C 182	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 7	1SS355-X	DIODE		
	C 183	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 161	1SS355-X	DIODE		
	C 184	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 162	1SS355-X	DIODE		
	C 241	QERF1HM-105Z	E CAPACITOR	1.0MF 20% 50V			D 241	1SS355-X	DIODE		
	C 242	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V			D 242	1SS355-X	DIODE		
	C 243	NCB31EK-473X	C CAPACITOR				D 323	1SS355-X	DIODE		
	C 244	NCB21HK-153X	C CAPACITOR				D 333	1SS355-X	DIODE		
	C 301	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 343	1SS355-X	DIODE		
	C 302	QERF1CM-476Z	E CAPACITOR	47MF 20% 16V			D 353	1SS355-X	DIODE		
	C 303	NCS31HJ-391X	C CAPACITOR				D 701	MTZJ5.6B-T2	ZENER DIODE		



## ■ Electrical parts list (Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	D 702	MTZJ5.6B-T2	ZENER DIODE				Q 901	DTC114EKA-X	TRANSISTOR		
	D 703	MTZJ5.6B-T2	ZENER DIODE				Q 902	2SA1855/RST/-T	TRANSISTOR		
	D 704	MTZJ5.6B-T2	ZENER DIODE				Q 976	UN2211-X	TRANSISTOR		
	D 705	MTZJ5.6B-T2	ZENER DIODE				Q 977	2SA1037AK/RS/-X	TRANSISTOR		
	D 706	MTZJ5.6B-T2	ZENER DIODE				R 1	NRS181J-330X	MG RESISTOR		
	D 707	MTZJ5.6B-T2	ZENER DIODE				R 2	NRSA63J-472X	MG RESISTOR		
	D 708	MTZJ5.6B-T2	ZENER DIODE				R 3	NRSA63J-473X	MG RESISTOR		
	D 709	MTZJ5.6B-T2	ZENER DIODE				R 4	NRSA63J-332X	MG RESISTOR		
	D 710	MTZJ5.6B-T2	ZENER DIODE				R 5	NRSA63J-473X	MG RESISTOR		
	D 711	MTZJ5.6B-T2	ZENER DIODE				R 6	NRS181J-8R2X	MG RESISTOR		
	D 712	SLR-56MC3F	LED				R 8	NRSA63J-472X	MG RESISTOR		
	D 781	MTZJ11C-T2	ZENER DIODE				R 9	NRSA63J-472X	MG RESISTOR		
	D 782	1SS355-X	DIODE				R 10	NRSA63J-472X	MG RESISTOR		
	D 783	1SS355-X	DIODE				R 11	NRS181J-223X	MG RESISTOR		
	D 891	1SS355-X	DIODE				R 12	NRSA63J-0R0X	MG RESISTOR		
	D 892	1SS355-X	DIODE				R 31	NRSA63J-102X	MG RESISTOR		
	D 901	1N5401-F64	SI DIODE				R 32	NRSA63J-152X	MG RESISTOR		
	D 902	1SS355-X	DIODE				R 33	NRSA63J-102X	MG RESISTOR		
	D 903	1SS355-X	DIODE				R 34	NRSA63J-102X	MG RESISTOR		
	D 981	CRS03-W	SB DIODE				R 41	NRSA63J-152X	MG RESISTOR		
	D 982	CRS03-W	SB DIODE				R 42	NRSA63J-102X	MG RESISTOR		
	IC 71	SAA6579T-X	IC				R 43	NRSA63J-103X	MG RESISTOR		
	IC161	TEA6320T-X	IC				R 44	NRS181J-102X	MG RESISTOR		
	IC301	LA47505	IC				R 53	NRSA63J-473X	MG RESISTOR		
	IC701	UPD178018AGC624	IC				R 54	NRSA63J-473X	MG RESISTOR		
	IC801	HD74HC126FP-X	IC				R 55	NRSA63J-103X	MG RESISTOR		
	IC901	HA13164A	IC				R 56	NRSA63J-222X	MG RESISTOR		
	J 1	QNB0100-002	ANT TERMINAL				R 57	NRSA63J-103X	MG RESISTOR		
	J 321	QNN0489-001	PIN JACK				R 58	NRSA63J-153X	MG RESISTOR		
	J 801	QNZ0095-001	CONNECTOR				R 59	NRSA63J-471X	MG RESISTOR		
	L 1	QQL231K-4R7Y	INDUCTOR				R 60	NRSA63J-473X	MG RESISTOR		
	L 901	QQR0703-001	CHOKO COIL				R 71	NRSA63J-222X	MG RESISTOR		
	L 902	QQL231K-470Y	INDUCTOR				R 72	NRSA02J-222X	MG RESISTOR		
	L 903	QQL231K-470Y	INDUCTOR				R 73	NRSA02J-222X	MG RESISTOR		
	Q 1	DTC114EKA-X	TRANSISTOR				R 81	NRSA63J-123X	MG RESISTOR		
	Q 2	2SA1037AK/RS/-X	TRANSISTOR				R 82	NRSA63J-123X	MG RESISTOR		
	Q 3	2SA1037AK/RS/-X	TRANSISTOR				R 83	NRSA63J-183X	MG RESISTOR		
	Q 4	DTA114EKA-X	D.TRANSISTOR				R 84	NRSA63J-183X	MG RESISTOR		
	Q 5	DTA114EKA-X	D.TRANSISTOR				R 161	NRSA63J-0R0X	MG RESISTOR		
	Q 6	2SC2412K/R/-X	TRANSISTOR				R 162	NRSA63J-0R0X	MG RESISTOR		
	Q 7	2SC2412K/R/-X	TRANSISTOR				R 165	NRSA63J-223X	MG RESISTOR		
	Q 8	2SC2412K/R/-X	TRANSISTOR				R 166	NRSA63J-222X	MG RESISTOR		
	Q 9	DTC114EKA-X	TRANSISTOR				R 167	NRSA63J-223X	MG RESISTOR		
	Q 10	DTA114EKA-X	D.TRANSISTOR				R 168	NRSA63J-222X	MG RESISTOR		
	Q 31	2SC3661-X	TRANSISTOR				R 169	NRSA63J-224X	MG RESISTOR		
	Q 32	2SC3661-X	TRANSISTOR				R 170	NRSA63J-224X	MG RESISTOR		
	Q 41	2SC2412K/R/-X	TRANSISTOR				R 171	NRS181J-100X	MG RESISTOR		
	Q 42	2SC2412K/R/-X	TRANSISTOR				R 172	NRSA63J-271X	MG RESISTOR		
	Q 51	2SC2412K/R/-X	TRANSISTOR				R 173	NRSA63J-271X	MG RESISTOR		
	Q 52	2SC2412K/R/-X	TRANSISTOR				R 241	NRSA63J-473X	MG RESISTOR		
	Q 53	DTC114EKA-X	TRANSISTOR				R 242	NRSA63J-184X	MG RESISTOR		
	Q 241	2SD601A/R/-X	TRANSISTOR				R 243	NRSA63J-123X	MG RESISTOR		
	Q 321	2SD1048/6-7/-X	TRANSISTOR				R 244	NRSA63J-223X	MG RESISTOR		
	Q 331	2SD1048/6-7/-X	TRANSISTOR				R 245	NRSA02J-101X	MG RESISTOR		
	Q 341	2SD1048/6-7/-X	TRANSISTOR				R 246	NRSA02J-102X	MG RESISTOR		
	Q 351	2SD1048/6-7/-X	TRANSISTOR				R 247	NRSA63J-224X	MG RESISTOR		
	Q 701	2SC2412K/R/-X	TRANSISTOR				R 301	NRSA63J-273X	MG RESISTOR		
	Q 781	DTA114EKA-X	D.TRANSISTOR				R 302	NRSA63J-273X	MG RESISTOR		
	Q 782	DTA114EKA-X	D.TRANSISTOR				R 305	NRSA63J-102X	MG RESISTOR		
	Q 784	DTC114EKA-X	TRANSISTOR				R 306	NRSA63J-473X	MG RESISTOR		
	Q 841	DTC114EKA-X	TRANSISTOR				R 307	NRSA63J-473X	MG RESISTOR		
	Q 881	DTC114EKA-X	TRANSISTOR				R 308	NRSA63J-473X	MG RESISTOR		
	Q 891	UN2211-X	TRANSISTOR				R 309	NRSA63J-473X	MG RESISTOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R 311	NRSA63J-273X	MG RESISTOR		
	R 312	NRSA63J-273X	MG RESISTOR		
	R 321	NRS181J-101X	MG RESISTOR		
	R 322	NRSA63J-102X	MG RESISTOR		
	R 323	NRS181J-222X	MG RESISTOR		
	R 331	NRSA63J-101X	MG RESISTOR		
	R 332	NRSA63J-102X	MG RESISTOR		
	R 333	NRS181J-222X	MG RESISTOR		
	R 341	NRSA63J-101X	MG RESISTOR		
	R 342	NRSA63J-102X	MG RESISTOR		
	R 343	NRSA63J-222X	MG RESISTOR		
	R 351	NRS181J-101X	MG RESISTOR		
	R 352	NRSA63J-102X	MG RESISTOR		
	R 353	NRSA63J-222X	MG RESISTOR		
	R 701	NRSA63J-0R0X	MG RESISTOR		
	R 702	NRSA63J-0R0X	MG RESISTOR		
	R 703	NRSA63J-0R0X	MG RESISTOR		
	R 704	NRSA63J-103X	MG RESISTOR		
	R 705	NRSA63J-103X	MG RESISTOR		
	R 706	NRSA63J-103X	MG RESISTOR		
	R 707	NRSA63J-472X	MG RESISTOR		
	R 708	NRSA63J-472X	MG RESISTOR		
	R 711	NRSA63J-473X	MG RESISTOR		
	R 712	NRSA63J-473X	MG RESISTOR		
	R 713	NRSA63J-103X	MG RESISTOR		
	R 714	NRSA63J-472X	MG RESISTOR		
	R 715	NRSA63J-472X	MG RESISTOR		
	R 716	NRSA63J-472X	MG RESISTOR		
	R 717	NRSA63J-472X	MG RESISTOR		
	R 718	NRSA63J-103X	MG RESISTOR		
	R 719	NRSA63J-103X	MG RESISTOR		
	R 720	NRSA63J-103X	MG RESISTOR		
	R 721	NRS181J-103X	MG RESISTOR		
	R 722	NRSA63J-103X	MG RESISTOR		
	R 723	NRSA63J-472X	MG RESISTOR		
	R 724	NRSA63J-472X	MG RESISTOR		
	R 725	NRSA63J-472X	MG RESISTOR		
	R 726	NRSA63J-472X	MG RESISTOR		
	R 727	NRSA63J-472X	MG RESISTOR		
	R 728	NRSA63J-472X	MG RESISTOR		
	R 729	NRSA63J-473X	MG RESISTOR		
	R 730	NRSA63J-391X	MG RESISTOR		
	R 731	NRSA63J-103X	MG RESISTOR		
	R 732	NRSA63J-473X	MG RESISTOR		
	R 733	NRSA63J-473X	MG RESISTOR		
	R 735	NRSA63J-473X	MG RESISTOR		
	R 738	NRSA63J-473X	MG RESISTOR		
	R 739	NRSA63J-104X	MG RESISTOR		
	R 741	NRSA63J-473X	MG RESISTOR		
	R 742	NRSA63J-563X	MG RESISTOR		
	R 743	NRSA63J-473X	MG RESISTOR		
	R 744	NRSA63J-103X	MG RESISTOR		
	R 745	NRSA63J-473X	MG RESISTOR		
	R 747	NRSA63J-473X	MG RESISTOR		
	R 748	NRSA63J-473X	MG RESISTOR		
	R 749	NRSA63J-101X	MG RESISTOR		
	R 752	NRS181J-511X	MG RESISTOR		
	R 781	NRSA63J-103X	MG RESISTOR		
	R 782	NRSA63J-473X	MG RESISTOR		
	R 801	NRSA63J-104X	MG RESISTOR		
	R 802	NRSA63J-334X	MG RESISTOR		
	R 803	NRSA63J-101X	MG RESISTOR		
	R 804	NRSA63J-223X	MG RESISTOR		

△	Item	Parts number	Parts name	Remarks	Area
	R 805	NRSA63J-104X	MG RESISTOR		
	R 806	NRSA63J-103X	MG RESISTOR		
	R 807	NRSA63J-104X	MG RESISTOR		
	R 808	NRSA63J-104X	MG RESISTOR		
	R 809	NRSA63J-101X	MG RESISTOR		
	R 810	NRSA63J-334X	MG RESISTOR		
	R 841	NRSA63J-102X	MG RESISTOR		
	R 842	NRSA02J-222X	MG RESISTOR		
	R 881	NRSA63J-473X	MG RESISTOR		
	R 882	NRSA63J-472X	MG RESISTOR		
	R 891	NRSA02J-473X	MG RESISTOR		
	R 892	NRSA02J-102X	MG RESISTOR		
	R 901	QRE141J-470Y	C RESISTOR	47 5% 1/4W	
	R 902	NRS181J-103X	MG RESISTOR		
	R 903	NRS181J-472X	MG RESISTOR		
	R 904	NRS181J-183X	MG RESISTOR		
	R 905	NRS181J-103X	MG RESISTOR		
	R 906	NRS181J-102X	MG RESISTOR		
	R 907	NRS181J-473X	MG RESISTOR		
	R 976	NRSA63J-104X	MG RESISTOR		
	R 977	NRSA63J-273X	MG RESISTOR		
	R 978	NRS181J-123X	MG RESISTOR		
	S 701	QSW0451-001	DETECT SWITCH		
	S 702	QSW0451-001	DETECT SWITCH		
	S 703	QSQ1A11-V06Z	TACT SWITCH		
	TU 1	QAU0221-001	TUNER		
	X 71	QAX0263-001Z	CRYSTAL		
	X 701	QAX0406-002Z	CRYSTAL		

**■ Electrical parts list (Mecha control board) Block No. 02**

△	Item	Parts number	Parts name	Remarks	Area
	C 401	NDC31HJ-101X	C CAPACITOR		
	C 402	NDC31HJ-101X	C CAPACITOR		
	C 403	NDC31HJ-101X	C CAPACITOR		
	C 404	NDC31HJ-101X	C CAPACITOR		
	C 405	NDC31HJ-101X	C CAPACITOR		
	C 406	NDC31HJ-101X	C CAPACITOR		
	C 407	NDC31HJ-101X	C CAPACITOR		
	C 408	NDC31HJ-101X	C CAPACITOR		
	C 409	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 410	QFV61HJ-153Z	MF CAPACITOR	0.015MF 5% 50V	
	C 411	QFV61HJ-153Z	MF CAPACITOR	0.015MF 5% 50V	
	C 412	NCB31EK-104X	C CAPACITOR		
	C 413	NCB31EK-104X	C CAPACITOR		
	C 414	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 415	NCB31EK-103X	C CAPACITOR		
	C 416	QFV61HJ-104Z	MF CAPACITOR	0.1MF 5% 50V	
	C 417	QFV61HJ-104Z	MF CAPACITOR	0.1MF 5% 50V	
	C 418	NDC31HJ-221X	C CAPACITOR		
	C 419	QEKJ1HM-474Z	E CAPACITOR	0.47MF 20% 50V	
	C 421	NCB31HK-103X	C CAPACITOR		
	C 422	NCB31EK-104X	C CAPACITOR		
	C 423	QERF1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 424	NCB31EK-104X	C CAPACITOR		
	C 425	NCB31HK-103X	C CAPACITOR		
	CN401	QGB1214K1-18S	CONNECTOR		
	CN402	VMP3501-001	WIRE		
	CN403	QGF1219F1-10S	CONNECTOR		
	D 401	MA3047/H/-X	ZENER DIODE		
	D 402	DSK10C-T1	DIODE		
	IC401	CXA2560Q	IC		
	IC402	LB1641	IC		
	Q 402	DTC114EKA-X	TRANSISTOR		
	Q 403	2SB1322/RS/-T	TRANSISTOR		
	R 401	NRS181J-681X	MG RESISTOR		
	R 402	NRSA63J-104X	MG RESISTOR		
	R 403	NRSA63J-104X	MG RESISTOR		
	R 404	NRSA63J-104X	MG RESISTOR		
	R 405	NRSA63J-104X	MG RESISTOR		
	R 406	NRSA63J-181X	MG RESISTOR		
	R 407	NRSA63J-181X	MG RESISTOR		
	R 412	NRSA02J-101X	MG RESISTOR		
	R 413	NRSA63J-183X	MG RESISTOR		
	R 414	NRSA63J-392X	MG RESISTOR		
	R 415	NRSA63J-223X	MG RESISTOR		
	R 416	NRSA63J-155X	MG RESISTOR		
	R 417	NRSA63J-103X	MG RESISTOR		
	R 418	NRSA63J-153X	MG RESISTOR		
	R 422	NRSA02J-332X	MG RESISTOR		
	R 423	NRS181J-473X	MG RESISTOR		
	R 424	NRSA02J-332X	MG RESISTOR		
	R 425	NRS181J-330X	MG RESISTOR		
	VR401	QVP0009-333Z	SEMI V RESISTOR		
	VR402	QVP0009-333Z	SEMI V RESISTOR		

■ Electrical parts list (Front board)

Block No. 03

△	Item	Parts number	Parts name	Remarks	Area
	C 601	NBE20JM-475X	TS E CAPACITOR		
	C 602	NCB31HK-103X	C CAPACITOR		
	C 603	NCS31HJ-221X	C CAPACITOR		
	C 604	NCB31AK-224X	C CAPACITOR		
	C 605	NCB31AK-224X	C CAPACITOR		
	C 608	NCB31HK-103X	C CAPACITOR		
	C 609	NCB31HK-103X	C CAPACITOR		
	CN601	QNZ0006-001	CAR CONNECTOR		
	D 601	SML-310LT/MN/-X	LED		
	D 602	SML-310VT/JK/-X	LED		
	D 603	SML-310VT/JK/-X	LED		
	D 604	SML-310VT/JK/-X	LED		
	D 605	SML-310VT/JK/-X	LED		
	D 606	SML-310VT/JK/-X	LED		
	D 607	SML-310VT/JK/-X	LED		
	D 608	SML-310VT/JK/-X	LED		
	D 609	SML-310VT/JK/-X	LED		
	D 610	SML-310VT/JK/-X	LED		
	D 611	SML-310VT/JK/-X	LED		
	D 612	SML-310VT/JK/-X	LED		
	D 613	SML-310VT/JK/-X	LED		
	D 614	SML-310VT/JK/-X	LED		
	D 615	SML-310VT/JK/-X	LED		
	D 616	SML-310VT/JK/-X	LED		
	D 617	LNJ308G81/1-3/X	LED		
	D 618	SML-310VT/JK/-X	LED		
	D 619	SML-310VT/JK/-X	LED		
	D 620	SML-310VT/JK/-X	LED		
	D 641	NSPW310BS/B/	LED		
	D 642	NSPW310BS/B/	LED		
	D 643	NSPW310BS/B/	LED		
	D 651	UDZS5.1B-X	ZENER DIODE		
	D 652	1SS355-X	DIODE		
	D 653	1SS355-X	DIODE		
	D 654	1SS355-X	DIODE		
	D 655	1SS355-X	DIODE		
	D 656	1SS355-X	DIODE		
	D 657	1SS355-X	DIODE		
	D 658	1SS355-X	DIODE		
	D 659	UDZS5.6B-X	ZENER DIODE		
	EN601	QSW0976-001	ROTARY ENCODER		
	IC601	LC75873NW	IC		
	IC602	RPM7138-V4	IR DETECT UNIT		
	Q 641	2SB815/7/-X	TRANSISTOR		
	Q 642	UN2211-X	TRANSISTOR		
	R 601	NRSA63J-821X	MG RESISTOR		
	R 602	NRSA63J-821X	MG RESISTOR		
	R 603	NRSA63J-122X	MG RESISTOR		
	R 604	NRSA63J-182X	MG RESISTOR		
	R 605	NRSA63J-821X	MG RESISTOR		
	R 606	NRSA63J-821X	MG RESISTOR		
	R 607	NRSA63J-122X	MG RESISTOR		
	R 608	NRSA63J-182X	MG RESISTOR		
	R 609	NRSA63J-272X	MG RESISTOR		
	R 610	NRSA63J-392X	MG RESISTOR		
	R 611	NRSA63J-821X	MG RESISTOR		
	R 612	NRSA63J-821X	MG RESISTOR		
	R 613	NRSA63J-122X	MG RESISTOR		
	R 614	NRSA63J-182X	MG RESISTOR		
	R 620	NRS181J-821X	MG RESISTOR		
	R 621	NRSA02J-821X	MG RESISTOR		
	R 622	NRSA02J-821X	MG RESISTOR		
	R 623	NRSA02J-911X	MG RESISTOR		

△	Item	Parts number	Parts name	Remarks	Area
	R 624	NRSA02J-911X	MG RESISTOR		
	R 625	NRSA02J-821X	MG RESISTOR		
	R 626	NRSA02J-821X	MG RESISTOR		
	R 627	NRSA02J-511X	MG RESISTOR		
	R 628	NRSA02J-511X	MG RESISTOR		
	R 629	NRSA02J-511X	MG RESISTOR		
	R 630	NRSA02J-511X	MG RESISTOR		
	R 631	NRSA02J-821X	MG RESISTOR		
	R 632	NRSA02J-821X	MG RESISTOR		
	R 633	NRSA02J-911X	MG RESISTOR		
	R 634	NRSA02J-911X	MG RESISTOR		
	R 635	NRSA02J-911X	MG RESISTOR		
	R 636	NRSA02J-911X	MG RESISTOR		
	R 637	NRSA02J-821X	MG RESISTOR		
	R 638	NRSA02J-821X	MG RESISTOR		
	R 639	NRSA02J-821X	MG RESISTOR		
	R 640	NRSA02J-821X	MG RESISTOR		
	R 641	NRS181J-431X	MG RESISTOR		
	R 642	NRS181J-431X	MG RESISTOR		
	R 643	NRS181J-431X	MG RESISTOR		
	R 644	NRS181J-471X	MG RESISTOR		
	R 645	NRSA63J-473X	MG RESISTOR		
	R 646	NRS181J-102X	MG RESISTOR		
	R 650	NRSA63J-0R0X	MG RESISTOR		
	R 651	NRSA63J-473X	MG RESISTOR		
	R 652	NRSA63J-473X	MG RESISTOR		
	R 653	NRS181J-102X	MG RESISTOR		
	R 654	NRSA63J-221X	MG RESISTOR		
	R 655	NRSA63J-394X	MG RESISTOR		
	R 656	NRSA63J-334X	MG RESISTOR		
	R 657	NRSA63J-103X	MG RESISTOR		
	R 658	NRSA63J-103X	MG RESISTOR		
	R 659	NRSA63J-103X	MG RESISTOR		
	R 660	NRSA63J-103X	MG RESISTOR		
	R 661	NRSA63J-470X	MG RESISTOR		
	R 662	NRSA63J-332X	MG RESISTOR		
	R 663	NRSA63J-332X	MG RESISTOR		
	R 664	NRSA63J-332X	MG RESISTOR		
	S 601	NSW0124-001X	TACT SWITCH		
	S 602	NSW0124-001X	TACT SWITCH		
	S 603	NSW0124-001X	TACT SWITCH		
	S 604	NSW0124-001X	TACT SWITCH		
	S 605	NSW0124-001X	TACT SWITCH		
	S 606	NSW0124-001X	TACT SWITCH		
	S 607	NSW0124-001X	TACT SWITCH		
	S 608	NSW0124-001X	TACT SWITCH		
	S 609	NSW0124-001X	TACT SWITCH		
	S 610	NSW0124-001X	TACT SWITCH		
	S 611	NSW0124-001X	TACT SWITCH		
	S 612	NSW0124-001X	TACT SWITCH		
	S 613	NSW0124-001X	TACT SWITCH		
	S 614	NSW0124-001X	TACT SWITCH		
	S 615	NSW0124-001X	TACT SWITCH		
	S 616	NSW0124-001X	TACT SWITCH		
	S 617	NSW0124-001X	TACT SWITCH		

< MEMO >

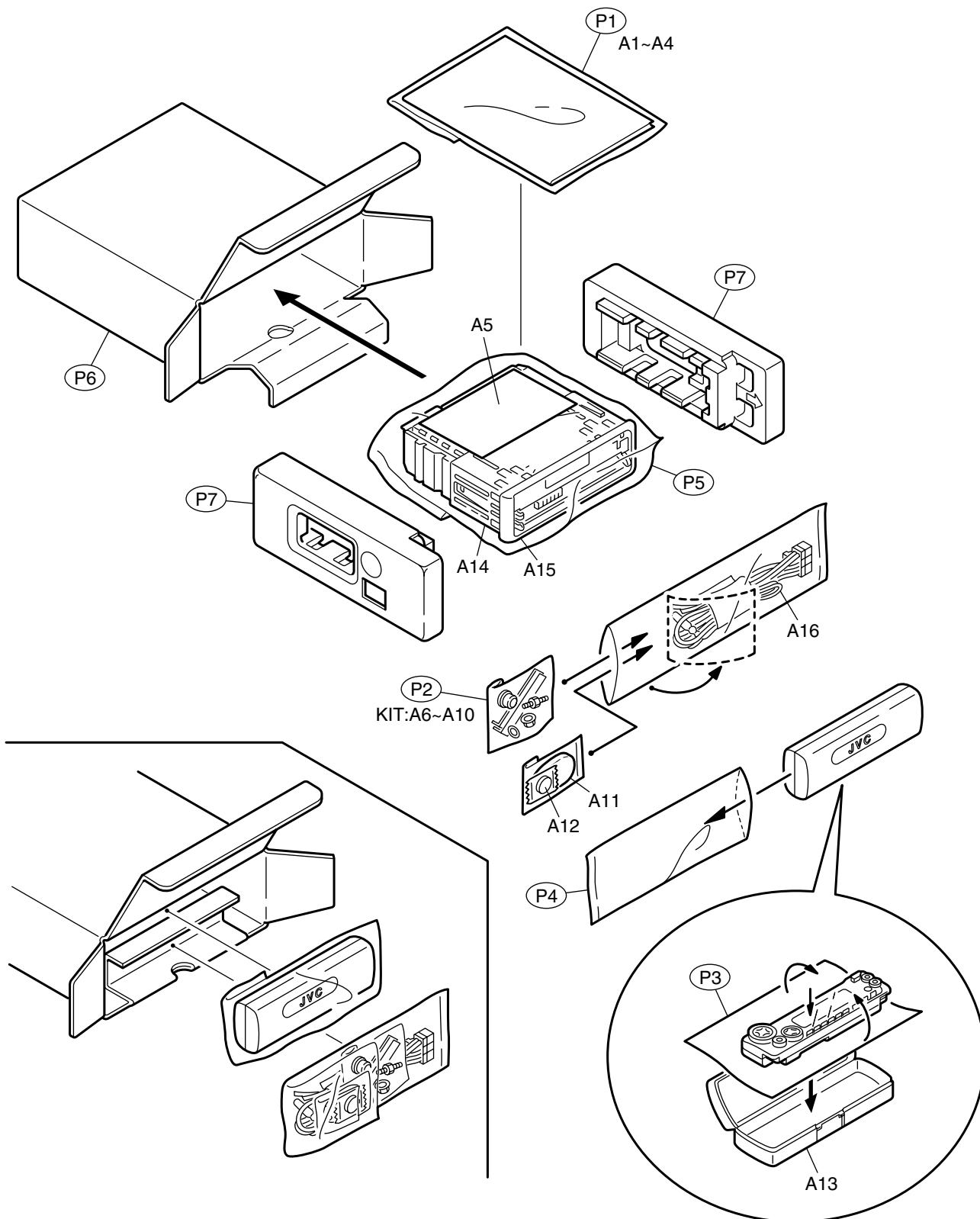
# Packing materials and accessories parts list

Block No. 

M	3	M	M
---	---	---	---

Block No. 

M	5	M	M
---	---	---	---



## ■ Parts list (Packing)

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	FSPG4002-001	POLY BAG	1	INST. BOOK	
	P 2	QPA00801205	POLY BAG	1	KIT	
	P 3	FSYH4036-068	SHEET	1		
	P 4	QPA01003003	POLY BAG	1	HARD CASE	
	P 5	QPC03004315P	POLY BAG	1	SET	
	P 6	GE30407-023A	CARTON	1		
	P 7	GE10047-001A	EPS CUSHION	2		

## ■ Parts list (Accessories)

Block No. M5MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GET0070-001A	INST. BOOK	1	ENG,RUS	
	A 2	GET0070-002A	INSTALL MANUAL	1	ENG,RUS	
	A 3	BT-54013-2	W.CARD	1		
	A 4	VND3046-001	SERIAL TICKET	1		
	A 5	LV40978-001A	CAUTION SHEET	1		
	A 6	VKZ4027-202	PLUG NUT	1		
	A 7	VKH4871-001SS	MOUNT BOLT	1		
	A 8	VKZ4328-001	LOCK NUT	1		
	A 9	WNS5000Z	WASHER	1		
	A 10	GE40130-001A	HOOK	2		
	A 11	RM-RK50	REMOCON	1		
	A 12	-----	LI BATTERY	1		
	A 13	FSJB3002-00C	HARD CASE	1		
	A 14	GE20126-001A	MOUNTING SLEEVE	1		
	A 15	GE20127-005A	TRIM PLATE	1		
	A 16	QAM0176-002	CAR CABLE	1		
	KIT	KSFX480K-SCREW1	SCREW PARTS KIT	1	A6-A10	

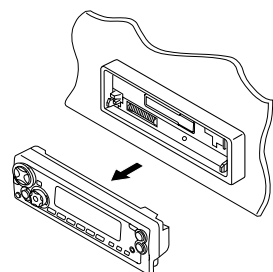
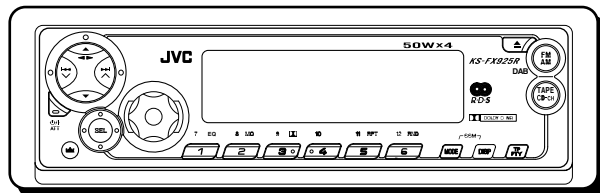
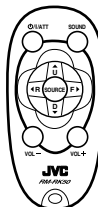
# JVC

# SCHEMATIC DIAGRAMS

## CASSETTE RECEIVER

### KS-FX925R

CD-ROM No.SML200205



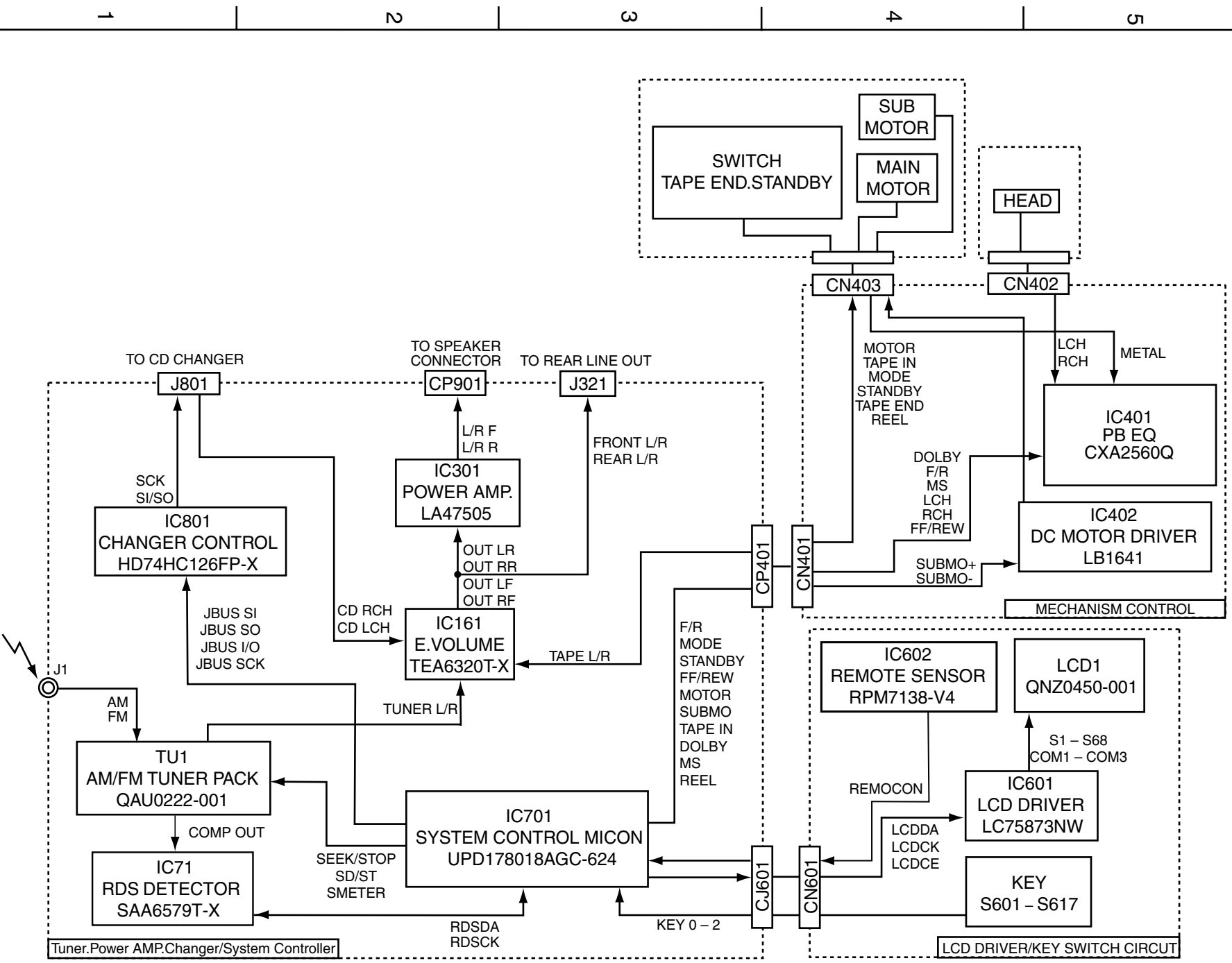
**Area Suffix**  
EE ----- Russian Federation

### Contents

Block diagram .....	2-1
Standard schematic diagrams .....	2-3
Printed circuit boards .....	2-6 ~ 7



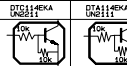
# Block diagram



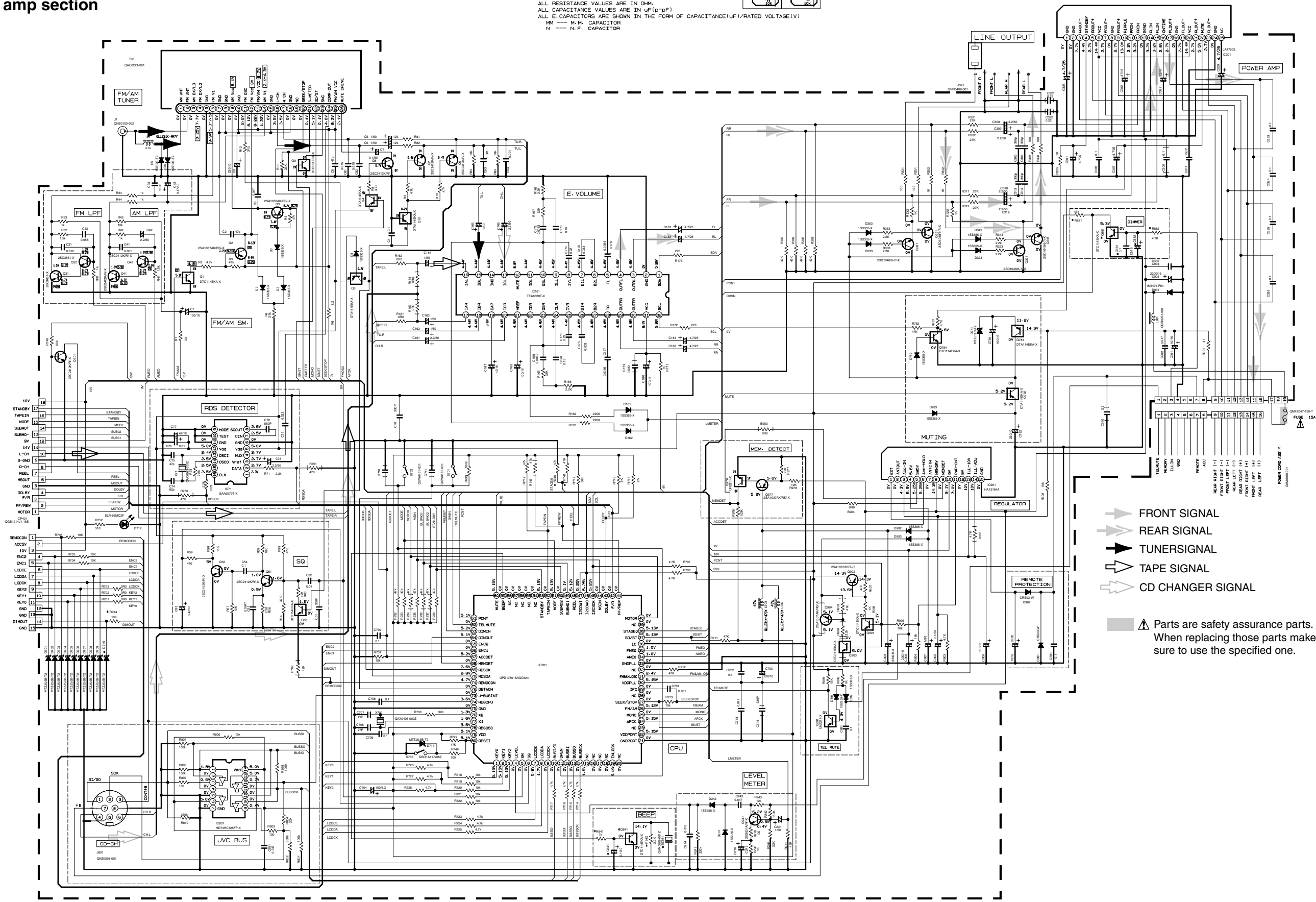
< M E M O >







# Standard schematic diagrams

## ■ Main amp section

CONDITION—FM  
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
 CONDITION—FM MODE.   
 2. UNLESS OTHERWISE SPECIFIED,  
 ALL RESISTORS ARE 1/10W OR 1/4W 15% 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)  
 M — M.K. CAPACITOR  
 N — N.F. CAPACITOR

5  
4  
3  
2  
1



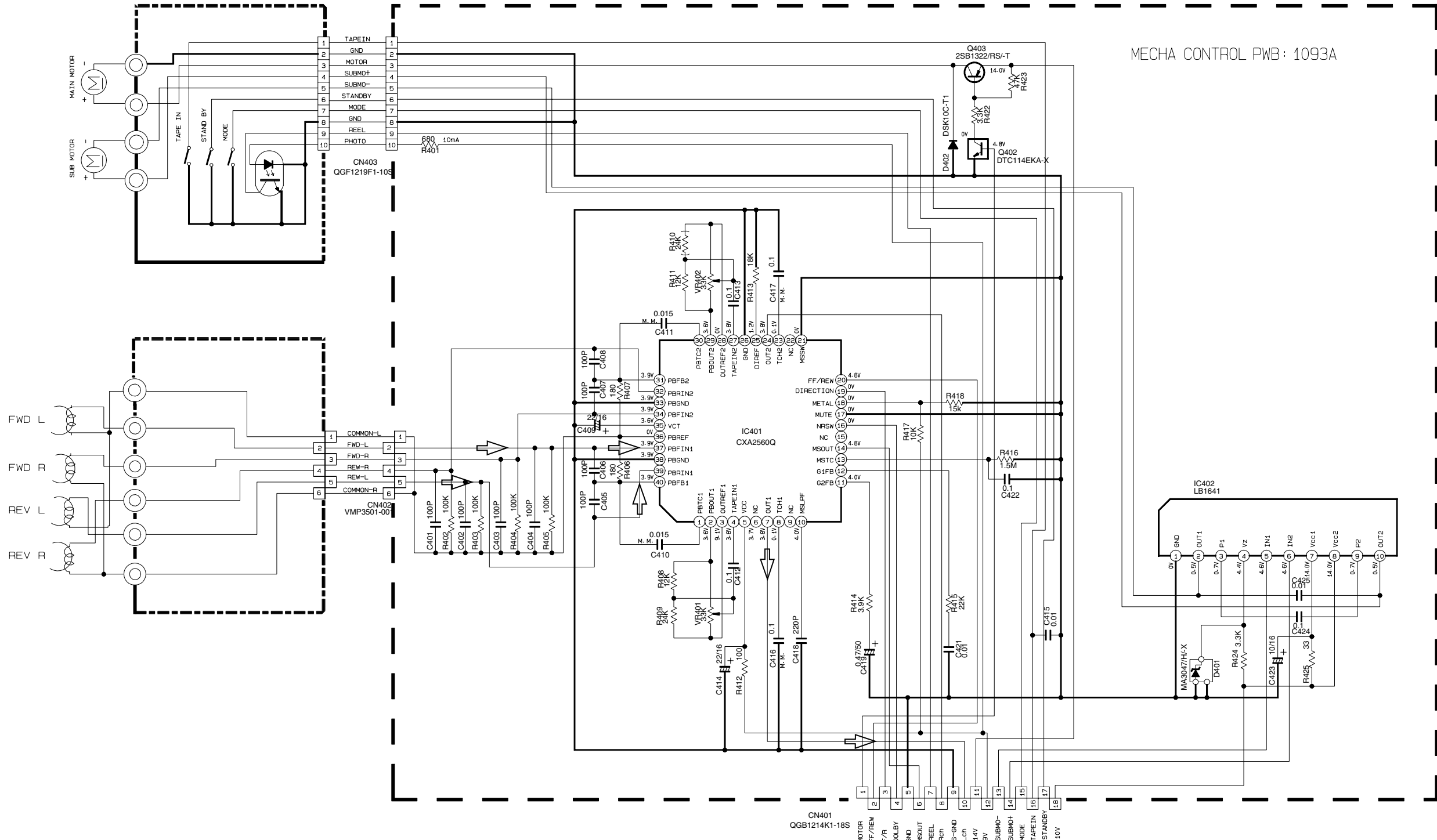
-  FRONT SIGNAL
  -  REAR SIGNAL
  -  TUNERSIGNAL
  -  TAPE SIGNAL
  -  CD CHANGER SIGNAL
-  Parts are safety assurance parts.  
 When replacing those parts make sure to use the specified one.

MAIN PWB: GEB10039A

■ Mecha control section

USED OF OTHER DIV. JEIN

MECHA CONTROL PWB: 1093A



- 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 pF(pF).
    - ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
- M. M. --- M. M. CAPACITOR

⇨ TAPE SIGNAL

5

4

3

2

1

A

B

C

2-4

D

E

F

G

H

■ LCD & key control section

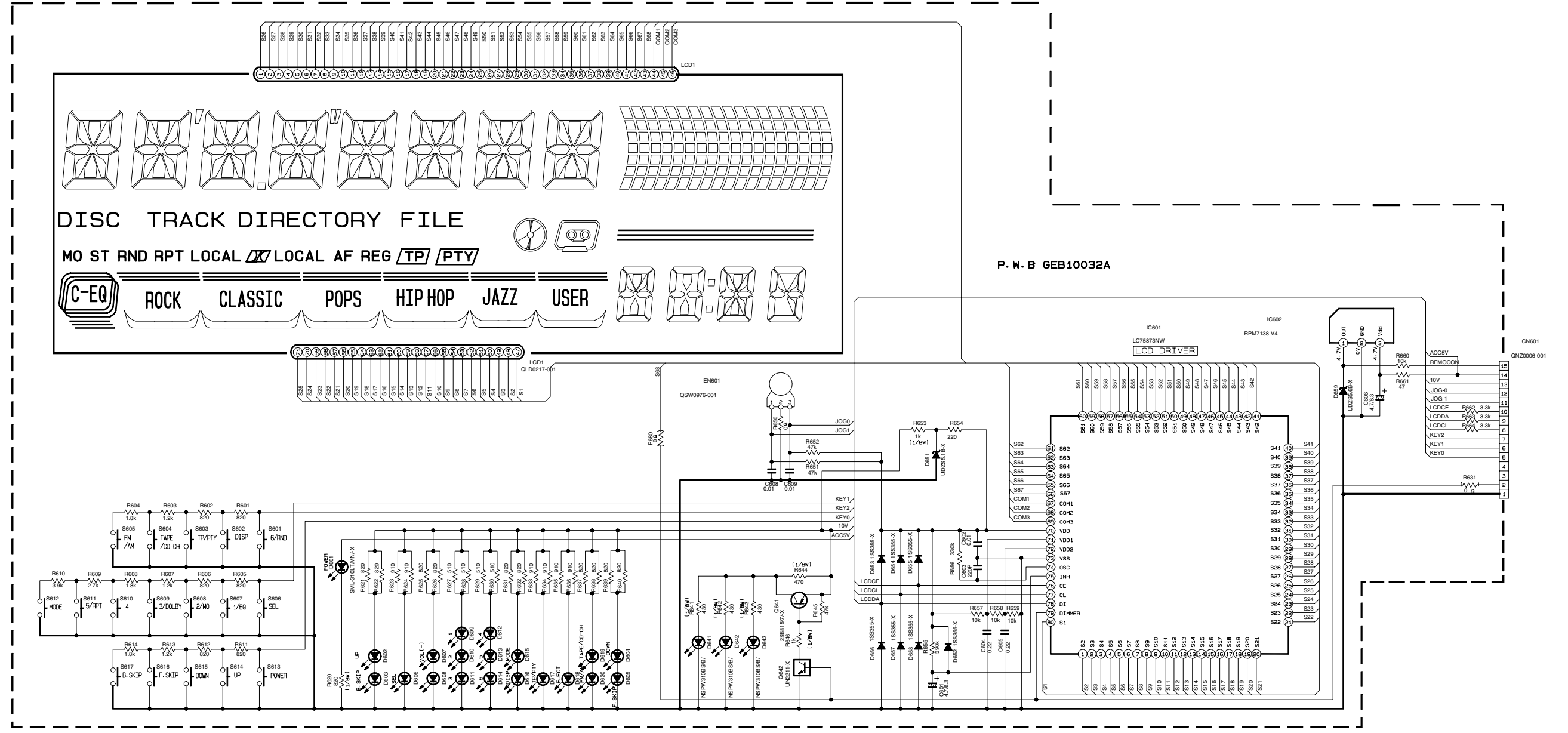
5

4

3

2

1



S601~S617: NSW0124-001

D601~D620	SML-310VT/JK/-X
D617	LNJ308G81/1-3/X

A

B

C

D

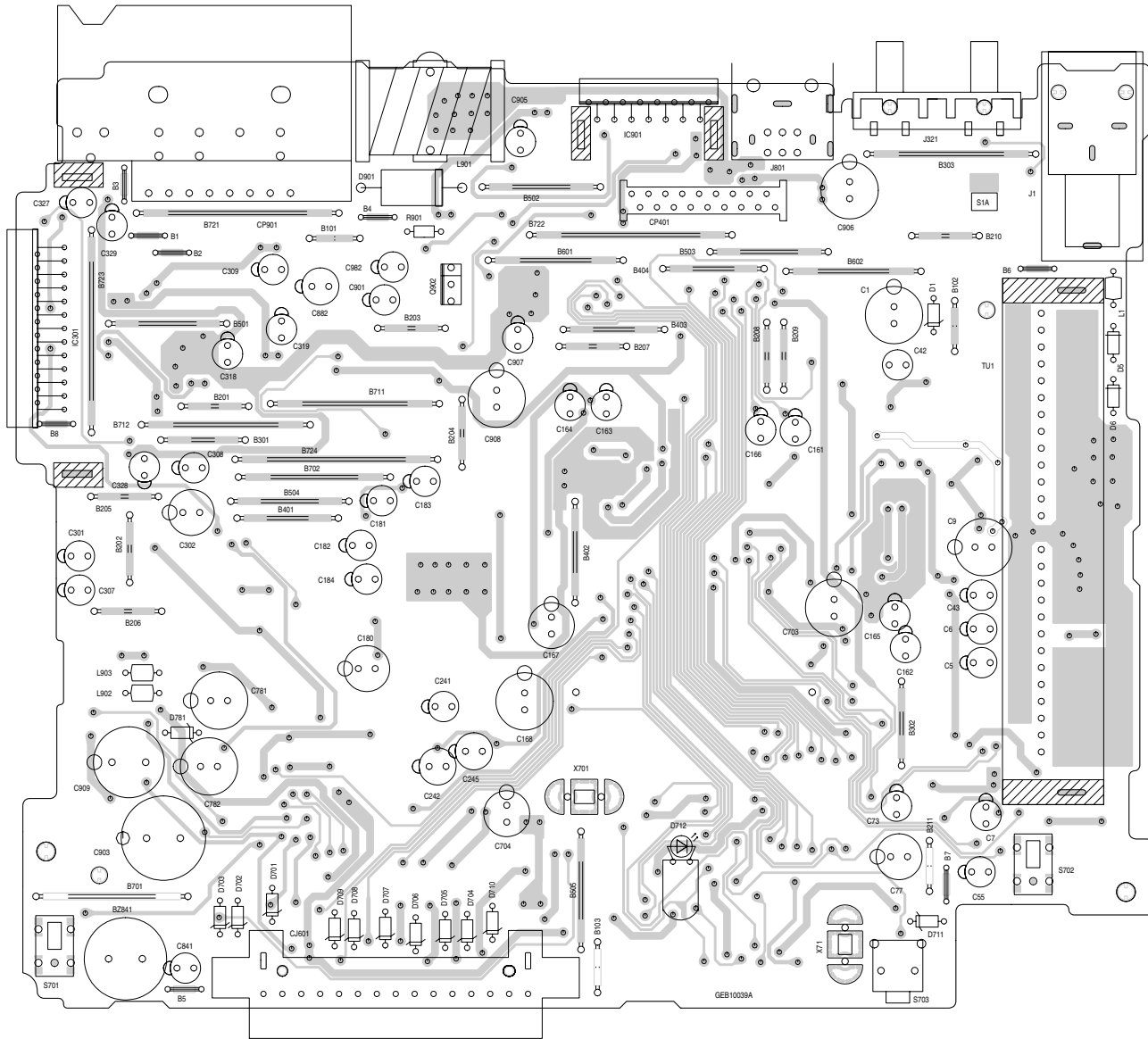
E

F

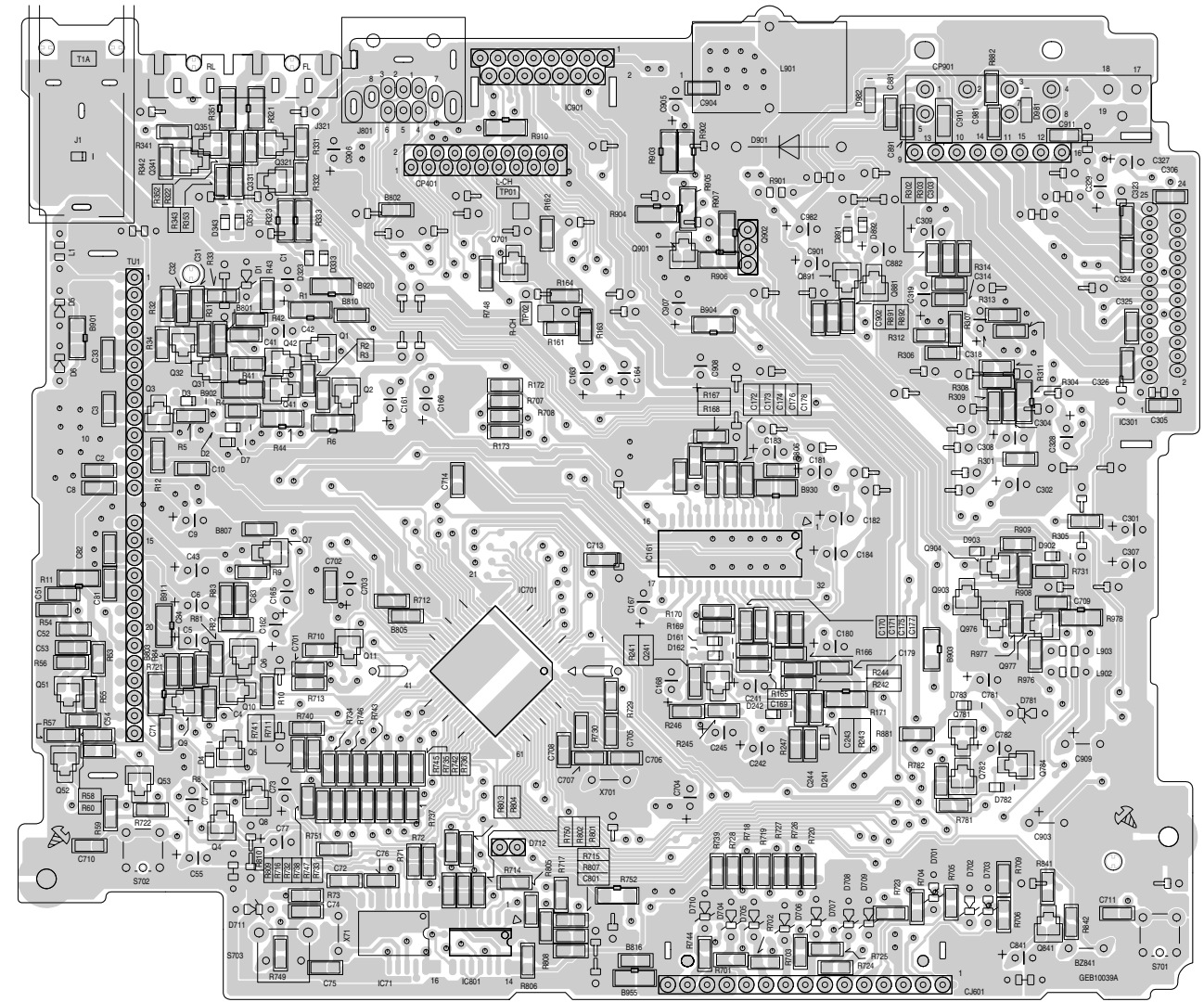
G

# Printed circuit boards

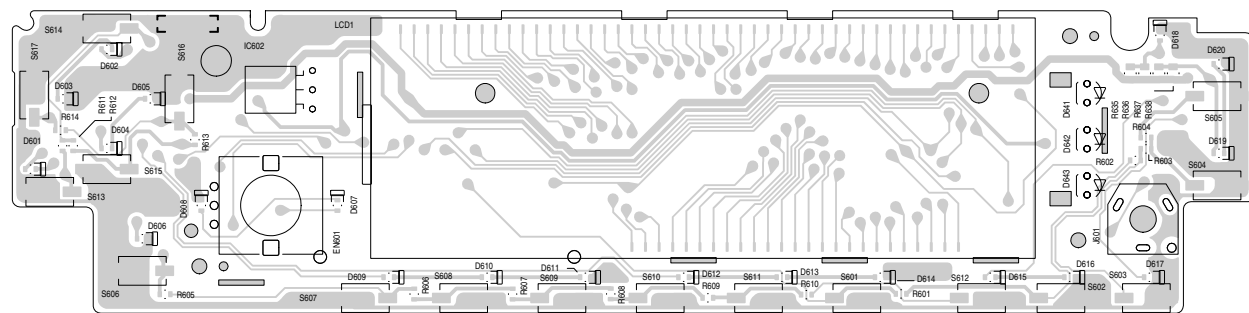
■ Main board (Forward side)



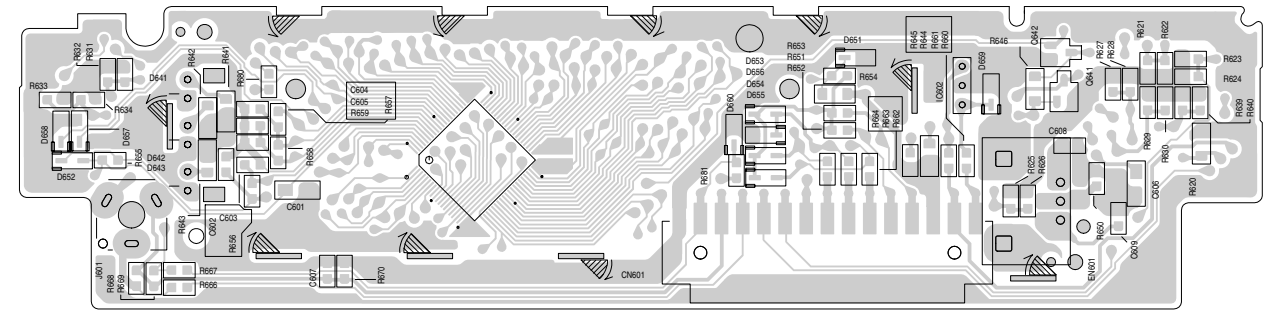
■ Main board (Reverse side)



■ Front board (Forward side)



■ Front board (Reverse side)



5

4

3

2

1

A

B

C

2-6

D

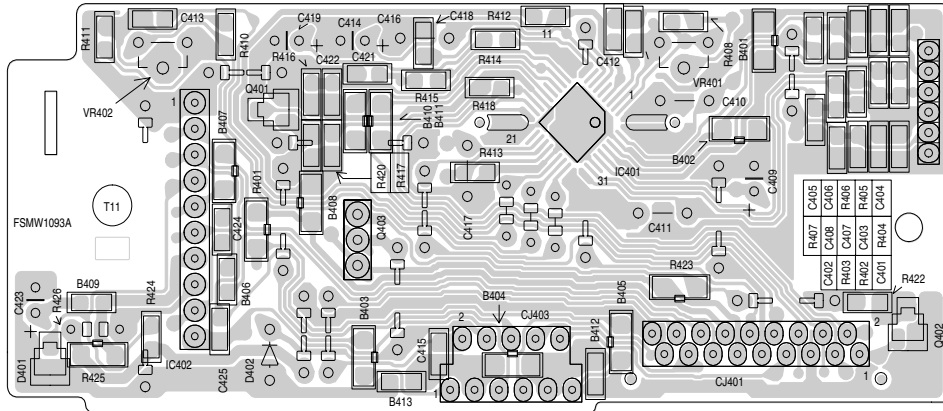
E

F

G

H

■ Mecha control board





**VICTOR COMPANY OF JAPAN, LIMITED**

MOBILE ELECTRONICS DIVISION

PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan