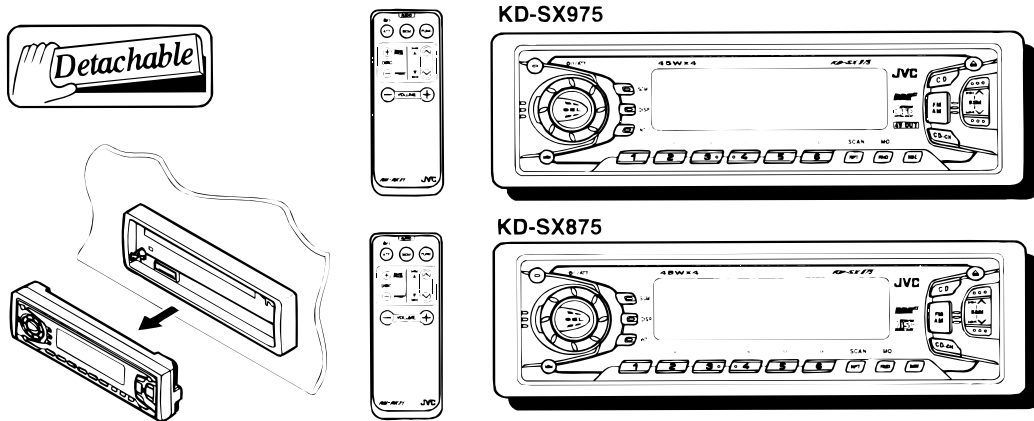


JVC

SERVICE MANUAL

CD RECEIVER

KD-SX975 / KD-SX875



BBE^{II}


**COMPACT
disc
DIGITAL AUDIO**

Area Suffix
U ---- Other Areas

Contents

Safety precaution	1-2	Flow of functional	1-11
Preventing static electricity	1-3	operation unit TOC read	
Location of main parts	1-4	Maintenance of laser pickup	1-13
Disassembly method	1-5	Replacement of laser pickup	1-13
Adjustment method	1-10	Discription of major ICs	1-14

Safety precaution

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

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

Preventing static electricity

1. Grounding to prevent damage by static electricity

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

2. About the earth processing for the destruction prevention by static electricity

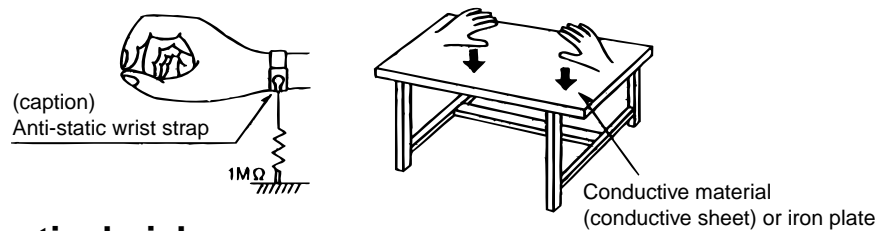
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players. Be careful to use proper grounding in the area where repairs are being performed.

2-1 Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

2-2 Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

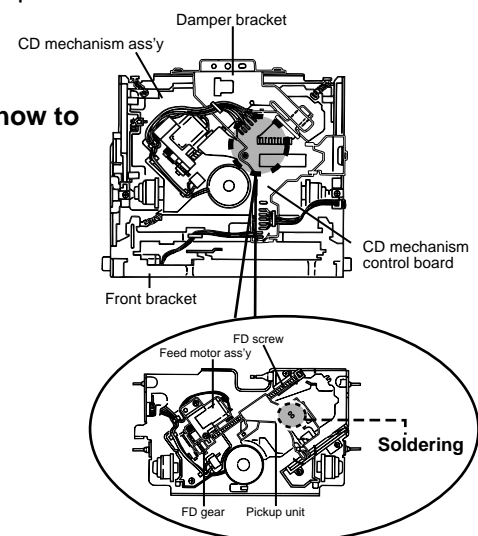
4. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
3. Handle the flexible cable carefully as it may break when subjected to strong force.
4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it

Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for pick-up and how to detach the substrate.**

1. Solder is put up before the card wire is removed from connector on the CD substrate as shown in Figure.
(When the wire is removed without putting up solder, the CD pick-up assembly might destroy.)
2. Please remove solder after connecting the card wire with when you install picking up in the substrate.

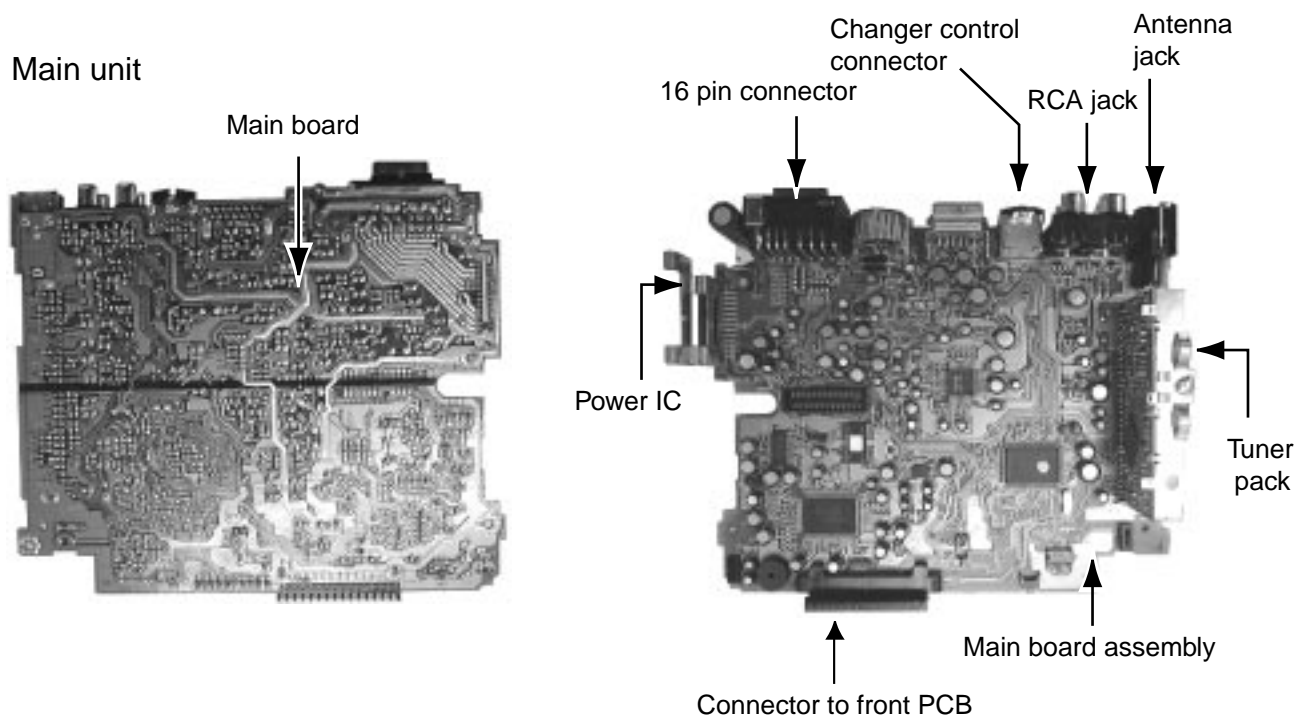


Location of main parts

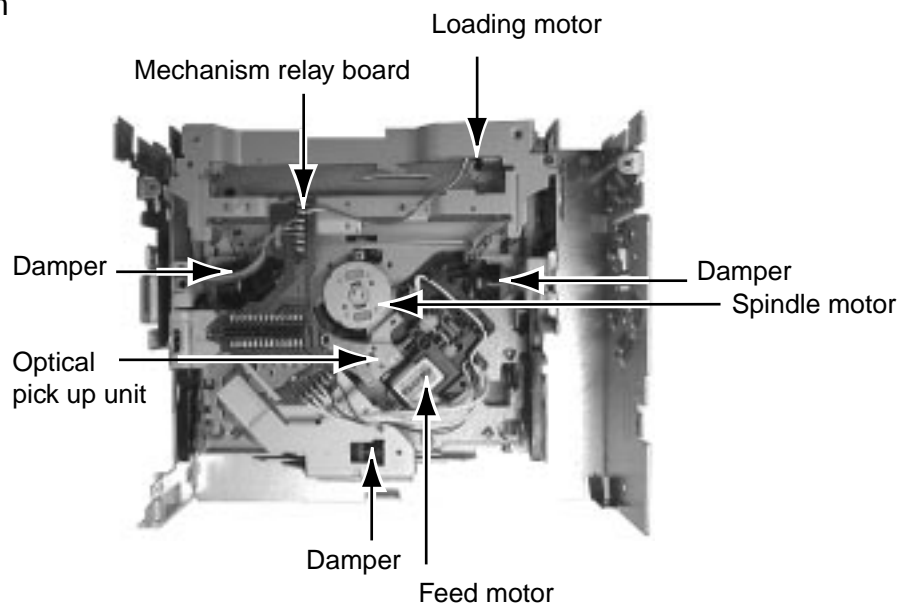
■ Control unit



■ Main unit



■ CD mechanism



Disassembly method

■ Removing the front chassis (See Fig.1)

1. Remove two screws A and insert a screwdriver to the joints a on the side of the front chassis and two joints b on the right side, then detach the front chassis toward the front side.

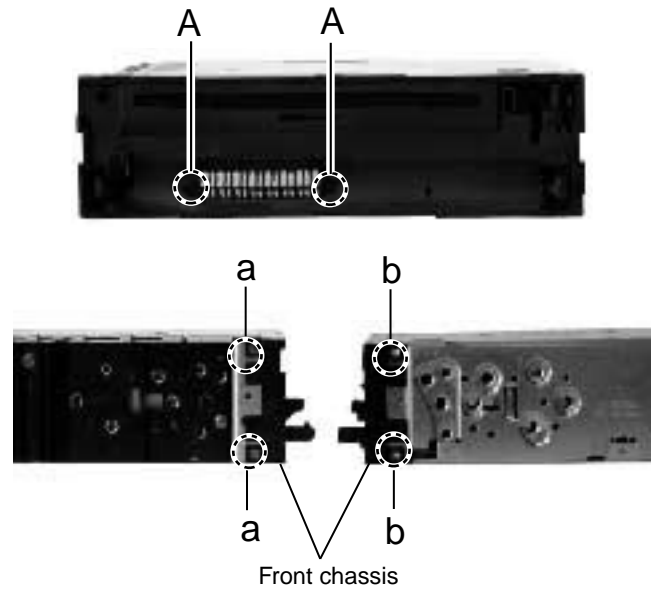


Fig.1

■ Removing the heat sink (See Fig.2)

1. Remove the three screws B attaching the heat sink on the left side of the body, and remove the heat sink.

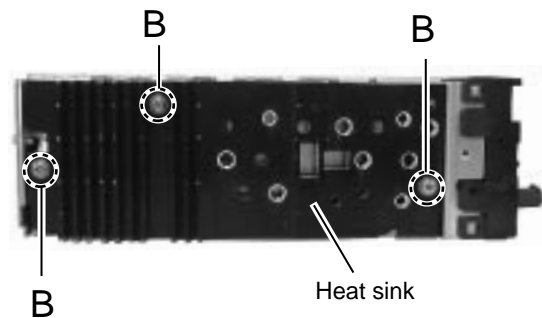


Fig.2

■ Removing the bottom cover (See Fig.3)

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

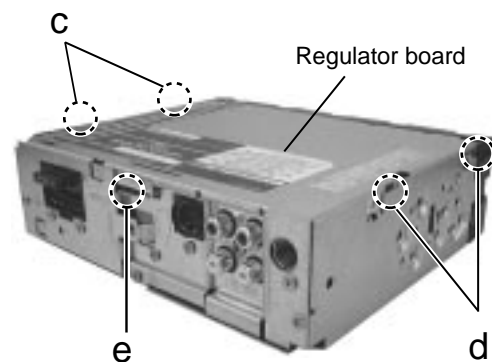


Fig. 3

■ **Removing the main amplifier board assembly**

(See Fig.4 and 5)

1. Remove the front chassis.
2. Remove the bottom cover.
3. Remove the two screws C attaching the main amplifier board assembly on the bottom of the body.
4. Remove the three screws D attaching the main amplifier board assembly on the back of the body.
5. Disconnect connector CN501 on the main amplifier board assembly from the CD mechanism assembly.

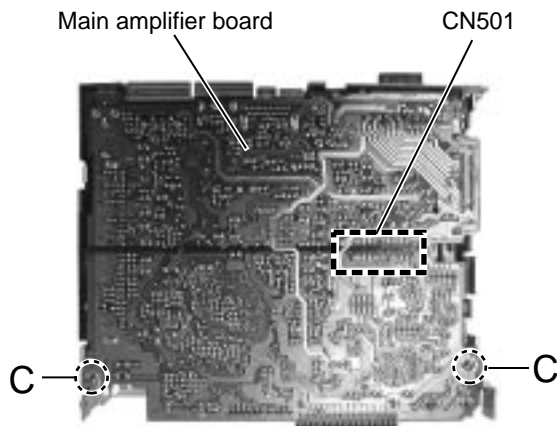


Fig.4

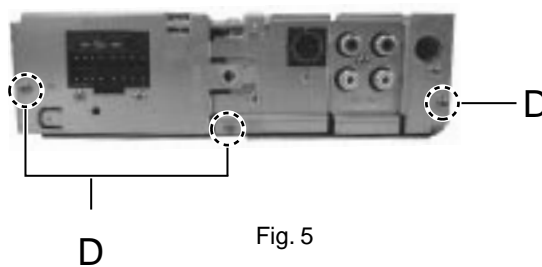


Fig. 5

■ **Removing the CD mechanism assembly**

(See Fig.6)

1. Remove the front chassis.
2. Remove the bottom cover.
3. Remove the main amplifier board assembly.
4. Remove the three screws E attaching the CD mechanism assembly from the top cover.

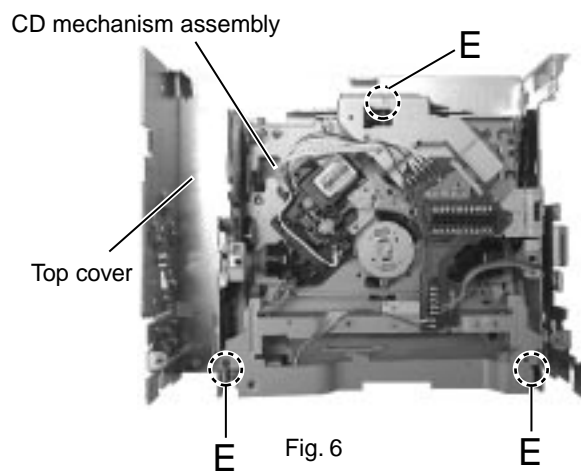


Fig. 6

■ **Removing the control switch board**

(See Fig.7 and 8)

1. Remove the front chassis.
2. Remove the four screws F attaching the rear cover on the back of the front panel unit.
3. Remove the control switch board from the front panel unit.

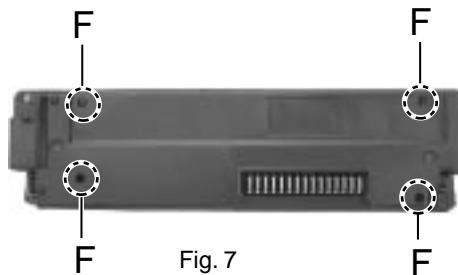


Fig. 7

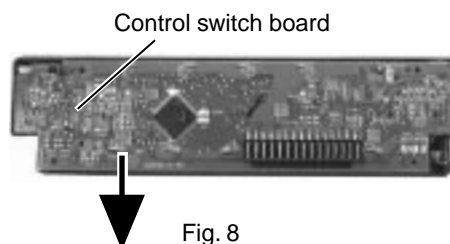


Fig. 8

<CD mechanism section>

■ Removing the CD mechanism control board (See Fig.1 and 2)

1. Unsolder the part **a** and **b** on the CD mechanism control board.
2. Remove the stator fixing the CD mechanism control board and the damper bracket (To remove the stator smoothly, pick up the center part).
3. Remove the screw **A** attaching the CD mechanism control board.
4. Remove the CD mechanism control board in the direction of the arrow while releasing it from the two damper bracket slots **d** and the front bracket slot **e**.
5. Disconnect the flexible wire from connector on the pickup unit.

ATTENTION: Turn the FD gear in the direction of the arrow to move the entire pickup unit to the appropriate position where the flexible wire of the CD mechanism unit can be disconnected easily.
(Refer to Fig.2)

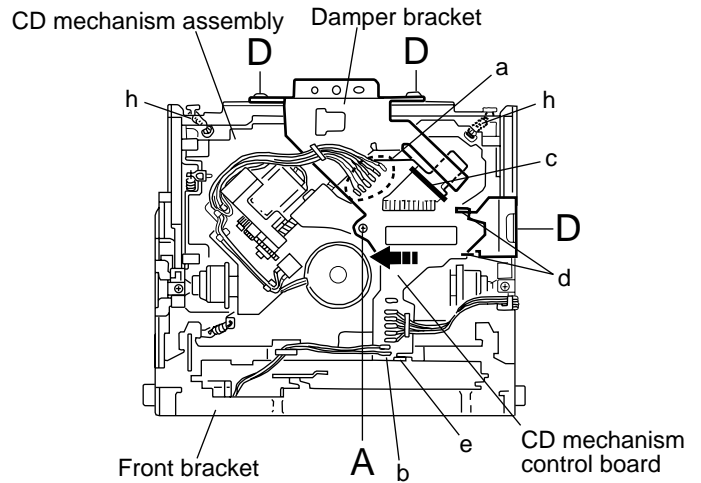


Fig.1

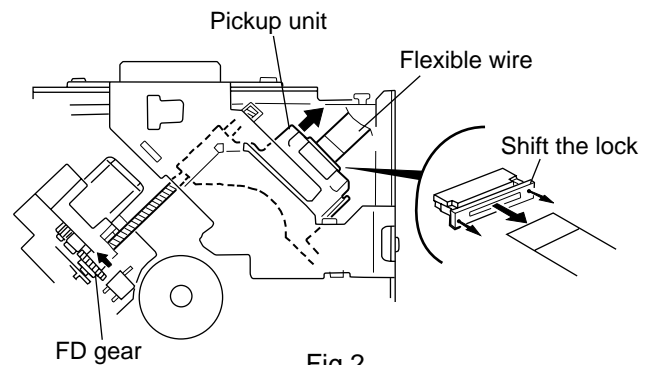


Fig.2

■ Removing the loading motor (See Fig.3 to 5)

- Prior to performing the following procedure, remove the CD mechanism control board.
1. Remove the two springs **f** attaching the CD mechanism assembly and the front bracket.
 2. Remove the two screws **B** and the front bracket while pulling the flame outward.
 3. Remove the belt and the screw **C** from the loading motor.

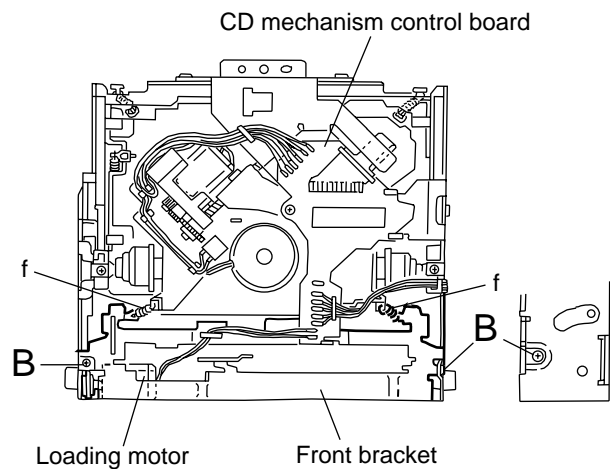


Fig.3

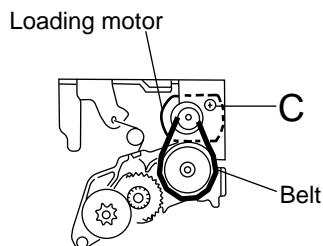


Fig.5

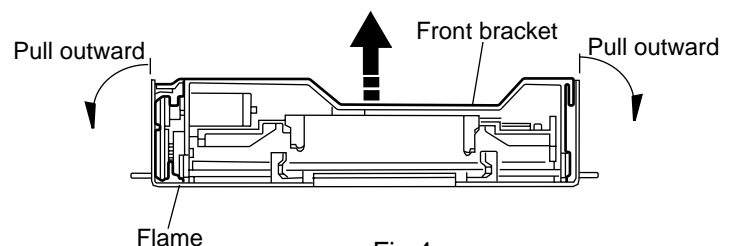


Fig.4

■ Removing the CD mechanism assembly (See Fig.1, 6 to 9)

- Prior to performing the following procedure, remove the CD mechanism control board and the front bracket (loading motor).
1. Remove the three screws **D** and the damper bracket.
 2. Raise the both sides fix arms and move the fix plates in the direction of the arrow to place the four shafts **g** as shown in Fig.8 and 9.
 3. Remove the CD mechanism assembly and the two springs **h** attaching the flame.
 4. Remove the two screws **E** and both sides rear damper brackets from the dampers. Detach the CD mechanism assembly from the left side to the right side.

ATTENTION: The CD mechanism assembly can be removed if only the rear damper bracket on the left side is removed.

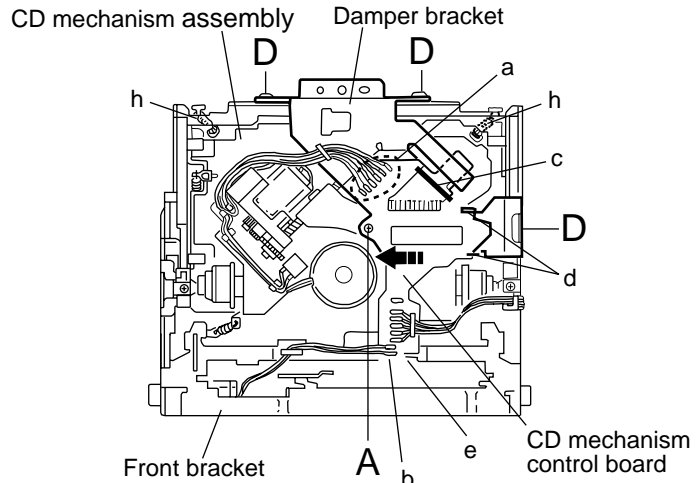


Fig.1

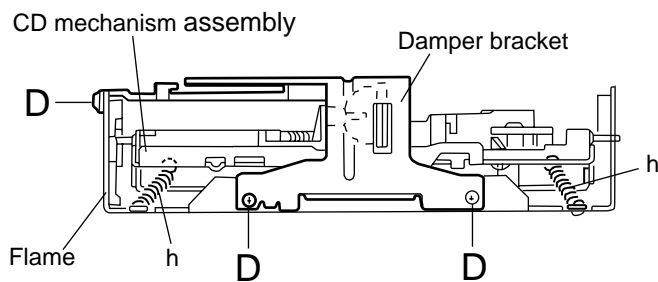


Fig.6

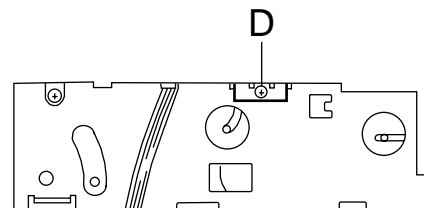


Fig.7

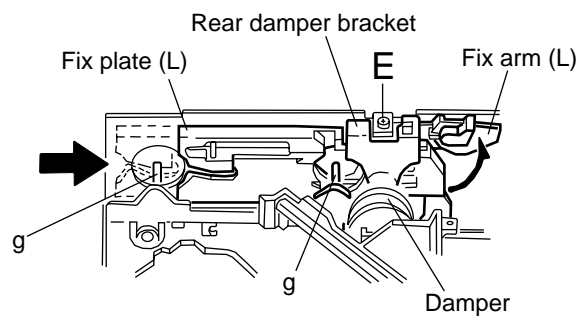


Fig.8

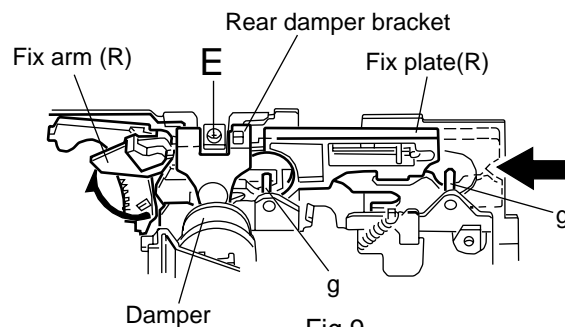


Fig.9

■ Removing the feed motor assembly (See Fig.10)

- Prior to performing the following procedure, remove the CD mechanism control board, the front bracket (loading motor) and the CD mechanism assembly.
1. Remove the two screws **F** and the feed motor assembly.

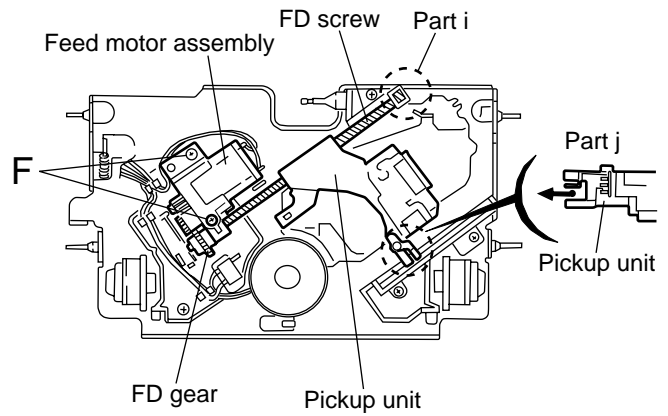


Fig.10

■ Removing the pickup unit (See Fig.10 and 11)

- Prior to performing the following procedure, remove the CD mechanism control board, the front bracket (loading motor), the CD mechanism assembly and the feed motor assembly.
1. Detach the FD gear part of the pickup unit upward. Then remove the pickup unit while pulling out the part i of the FD screw.

ATTENTION: When reattaching the pickup unit, reattach the part **j** of the pickup unit, then the part **i** of the FD screw.

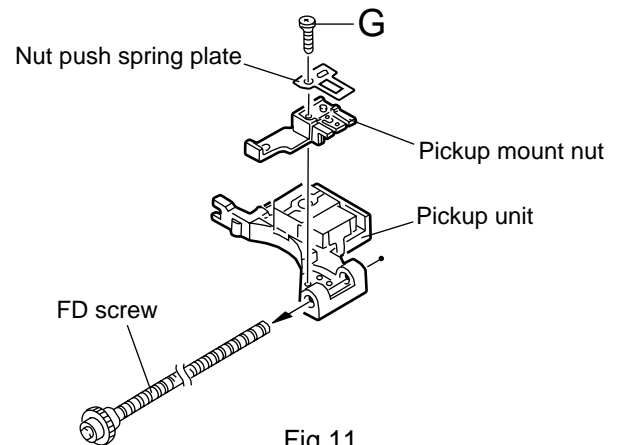


Fig.11

2. Remove the screw **G** attaching the nut push spring plate and the pickup mount nut from the pickup unit. Pull out the FD screw.

■ Removing the spindle motor (See Fig.12 and 13)

- Prior to performing the following procedure, remove the CD mechanism control board, the front bracket (loading motor), the CD mechanism assembly and the feed motor assembly.
1. Turn up the CD mechanism assembly and remove the two springs **k** on both sides of the clammer arms. Open the clammer arm upward.
 2. Turn the turn table, and remove the two screws **H** and the spindle motor.

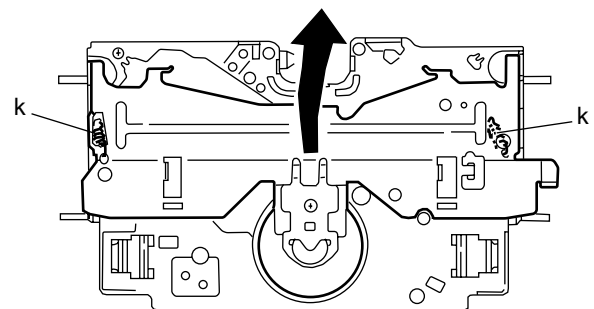


Fig.12

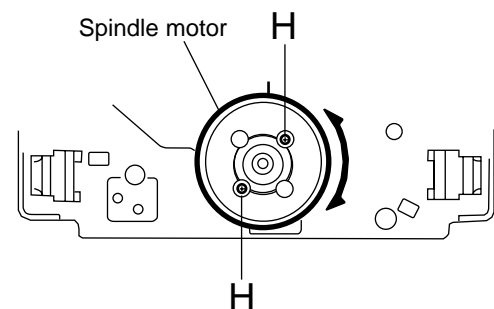


Fig.13

Adjustment method

■ Test instruments required adjustment

1. Digital oscilloscope (100MHz)
2. AM Standard signal generator
3. FM Standard signal generator
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Test Disc JVC : CTS-1000
9. Extension cable for check
EXTGS004-26P

■ Standard volume position

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

■ Frequency Band

FM 1 – 3 87.5MHz – 108.0MHz
MW 531kHz – 1602kHz

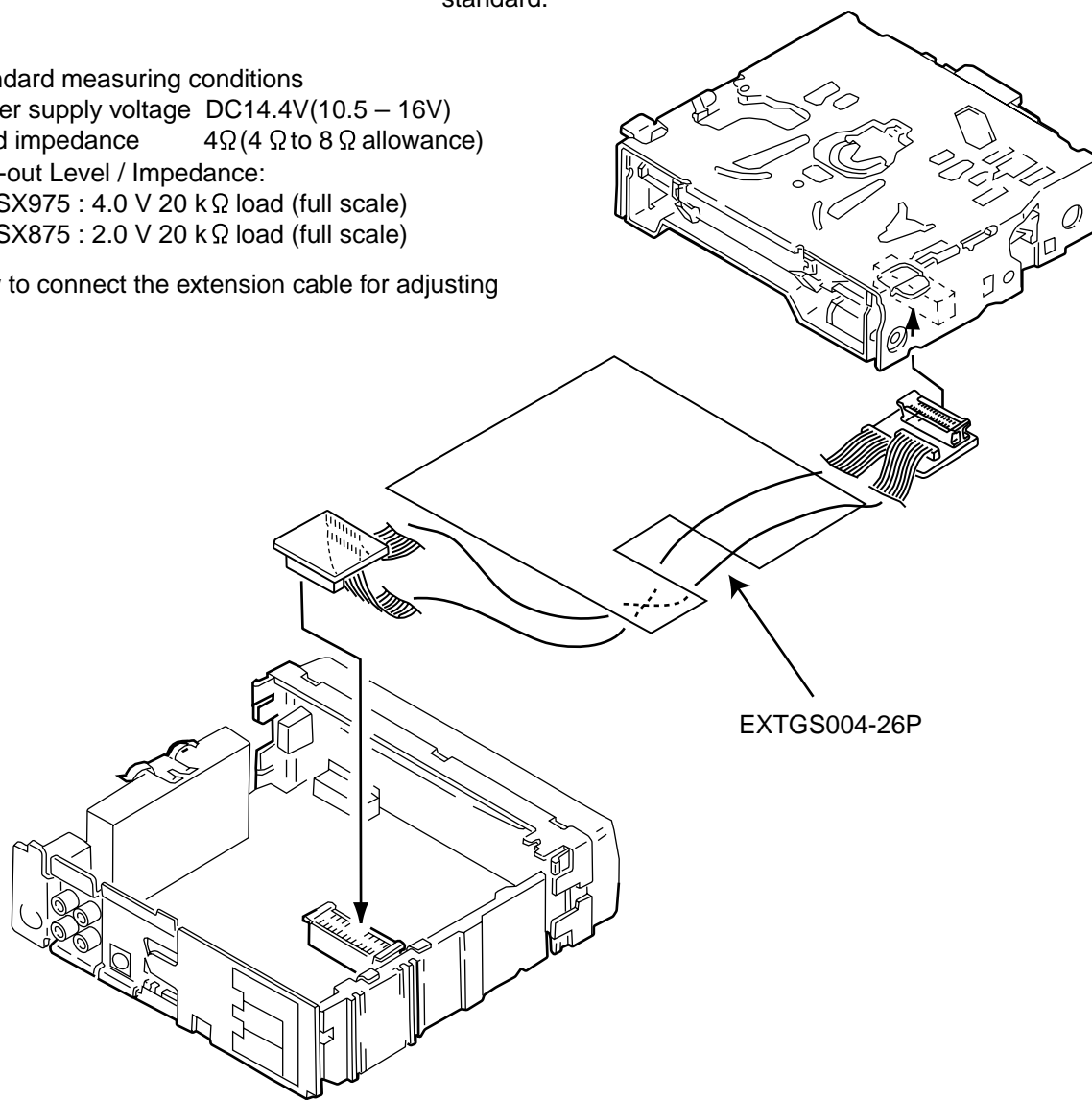
■ Dummy load

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

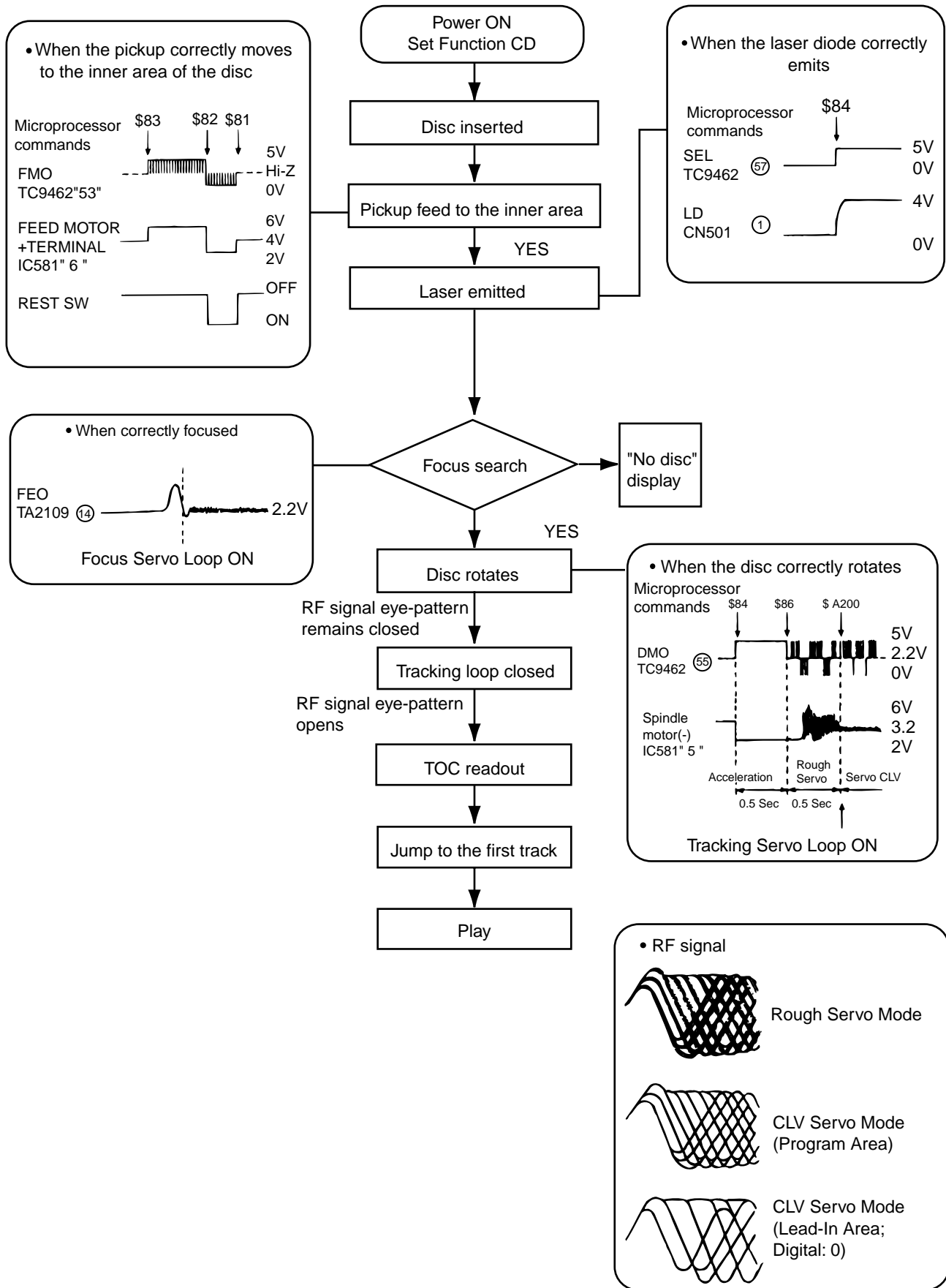
■ Standard measuring conditions

Power supply voltage DC14.4V(10.5 – 16V)
Load impedance 4Ω (4 Ω to 8 Ω allowance)
Line-out Level / Impedance:
KD-SX975 : 4.0 V 20 kΩ load (full scale)
KD-SX875 : 2.0 V 20 kΩ load (full scale)

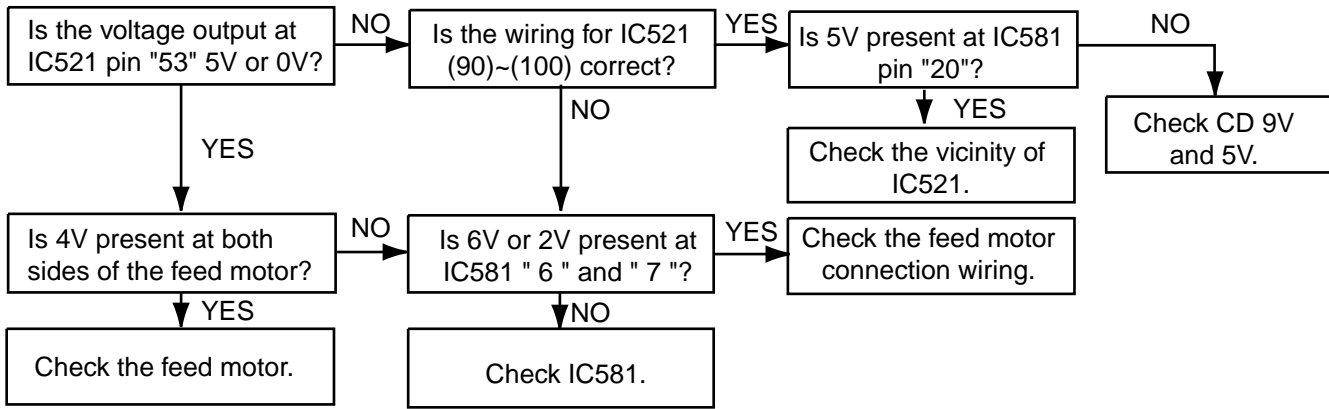
■ How to connect the extension cable for adjusting



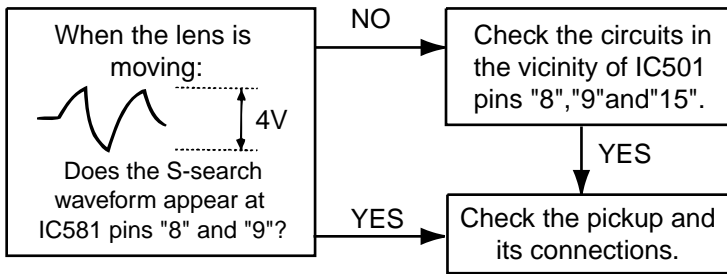
Flow of functional operation unit TOC read



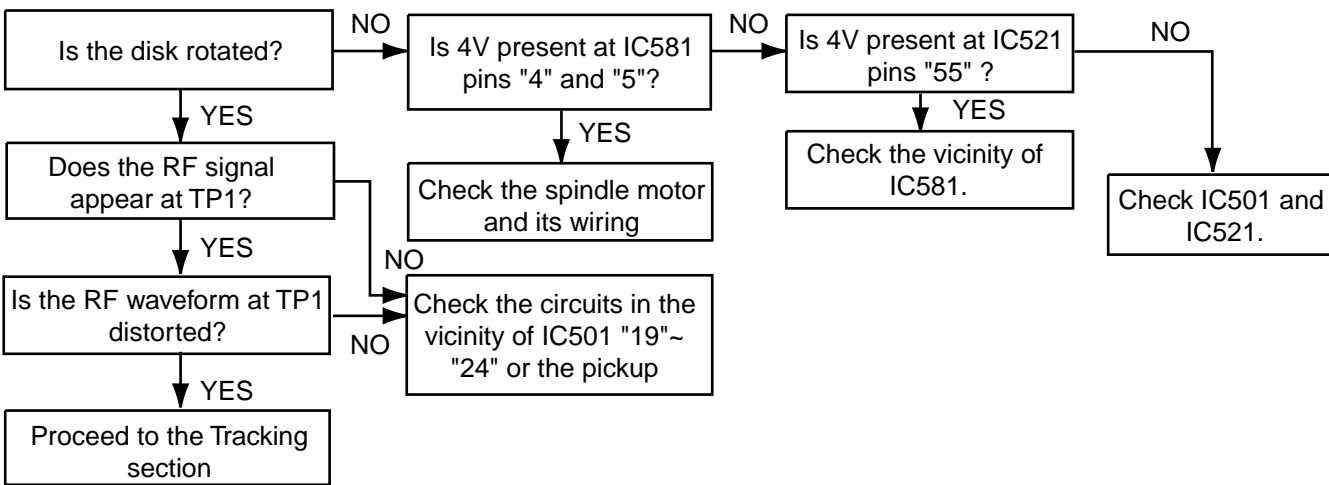
Feed section



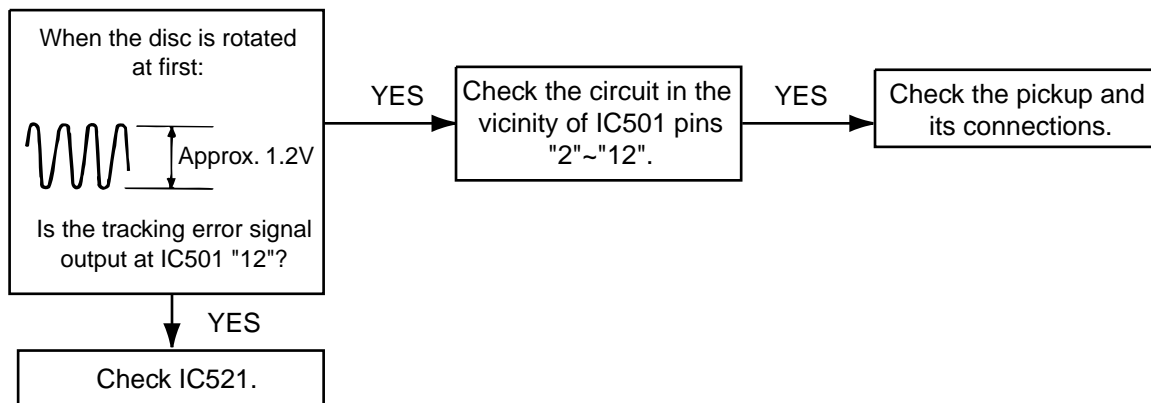
Focus section



Spindle section

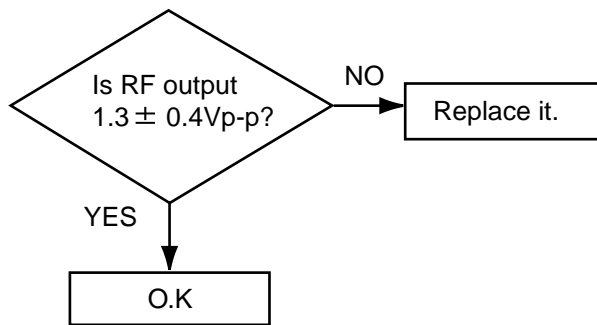


Tracking section



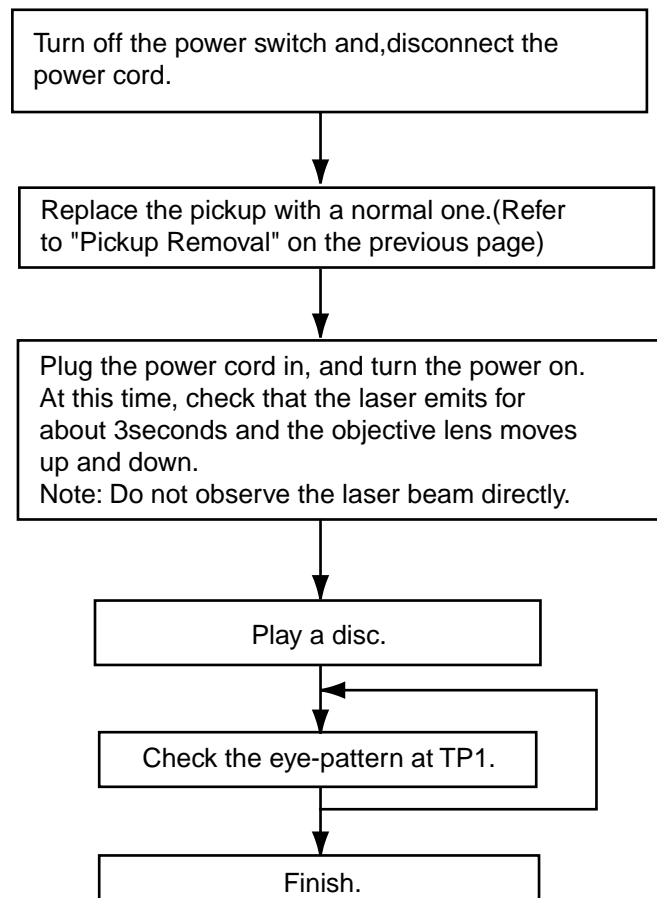
Maintenance of laser pickup

- (1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.
- (2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.
 - (1) The level of RF output (EFM output: amplitude of eye pattern) will be low.



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

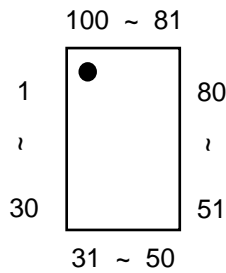
Replacement of laser pickup



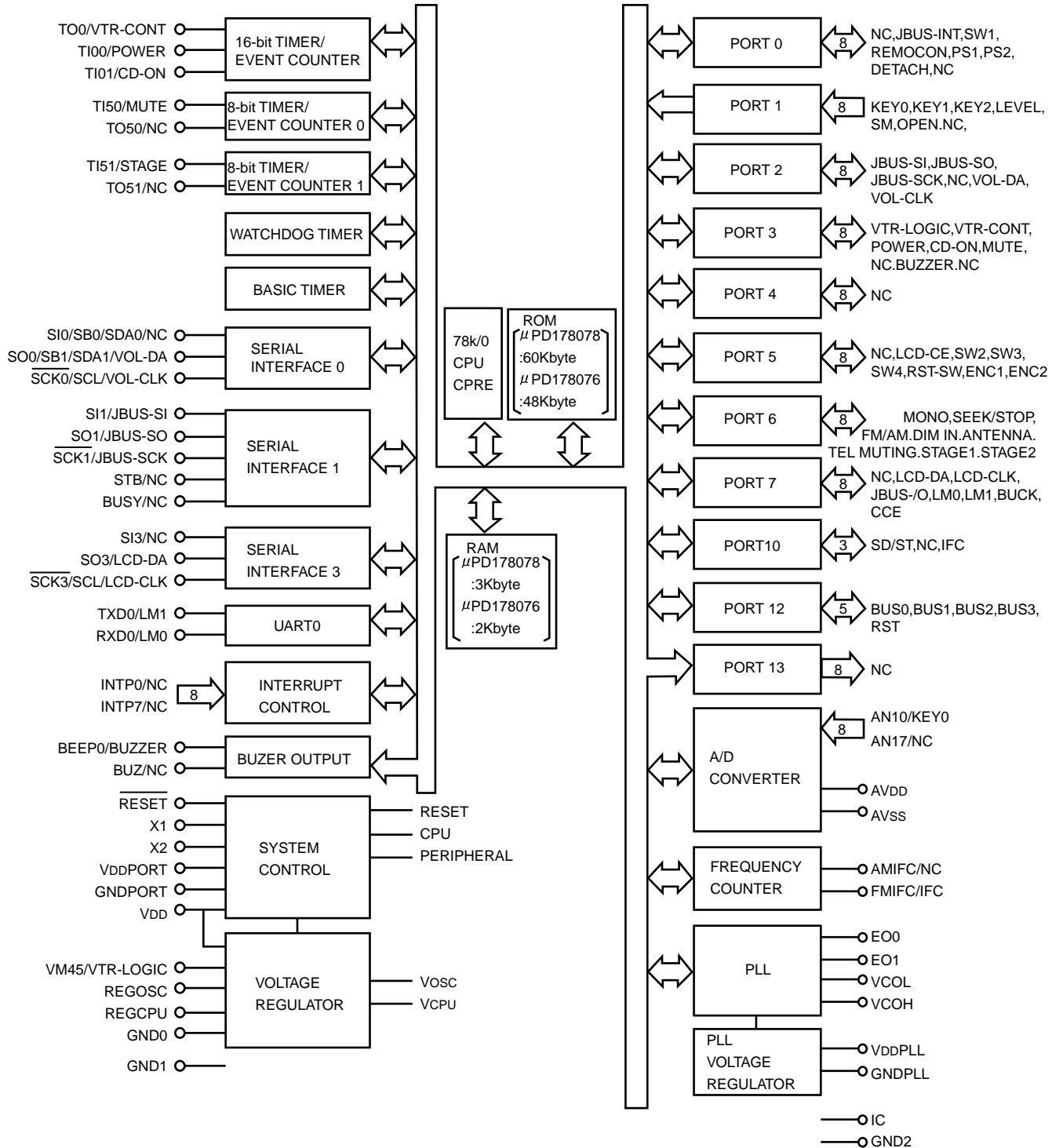
Description of major ICs

■ UPD178078GF-543 (IC701): SYSTEM CPU

1. Terminal layout



2. Block diagram



3.Pin function

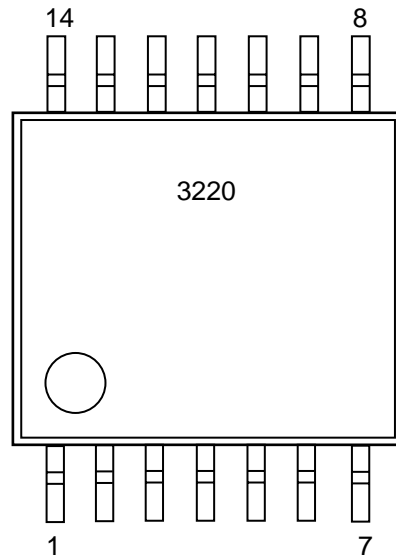
UPD178078GF(1/2)

Pin NO.	Symbol	I/O	FUNCTION
1	NC	-	Non connection
2	JBUS-INT	I	JVC BUS COMMUNICATION LINE
3	JBUS-SI	I	JVC BUS COMMUNICATION LINE
4	JBUS-SO	O	JVC BUS COMMUNICATION LINE
5	JBUS-SCK	O	JVC BUS COMMUNICATION LINE
6	NC	-	Non connection
7	NC	-	Non connection
8	NC	-	Non connection
9	VOL-DA	O	VOL IC COMMUNICATION LINE
10	VOL-CLK	O	VOL IC COMMUNICATION LINE
11	NC	-	Non connection
12	LCD-DA	O	CD DRIVER COMMUNICATION LINE
13	LCD-CLK	O	LCD DRIVER COMMUNICATION LINE
14	JBUS-I/O	O	JVC BUS OUTPUT SELECT
15	NC	-	Non connection
16	LCD-CE	O	LCD DRIVER COMMUNICATION LINE
17	SW2	I	CD MECHA SW
18	SW3	I	CD MECHA SW
19	SW4	I	CD MECHA SW
20	RST-SW	I	TRAVERSE MECHA REST SW
21	ENC1	I	ENCODER INPUT
22	ENC2	I	ENCORDER INPUT
23	KEY0	I	KEY INPUT
24	KEY1	I	KEY INPUT
25	KEY2	I	KEY INPUT
26	LEVEL	I	AUDIO LEVEL INPUT
27	AVDD	-	-
28	SM	I	SIGNAL LEVEL METER INPUT
29	OPEN	I	DOOR OPEN DATECTION
30	NC	-	Non connection
31	NC	-	-
32	AVSS	-	-
33	REGCPU	-	-
34	VDD	-	-
35	REGOSC	-	SYSTEM CLOCK
36	X2	I	SYSTEM CLOCK
37	X1	-	-
38	GND	-	-
39	SD/ST	I	STATION DETECTOR & STERO IND
40	GND2	-	Non connection
41	NC	-	IF COUNT INPUT
42	IFC	I	-
43	VDDPLL	-	FM,AM OSC INPUT
44	OSC-INPUT	I	Non connection
45	NC	-	-
46	GNDPLL	-	PLL ERROR OUTPUT FOR AM
47	AME0	O	PLL ERROR OUTPUT FOR FM
48	FME0	O	SETTING TO WRITE FOR FLASH
49	ICVPP	-	SYSTEM RESET
50	RESET	I	SYSTEM RESET

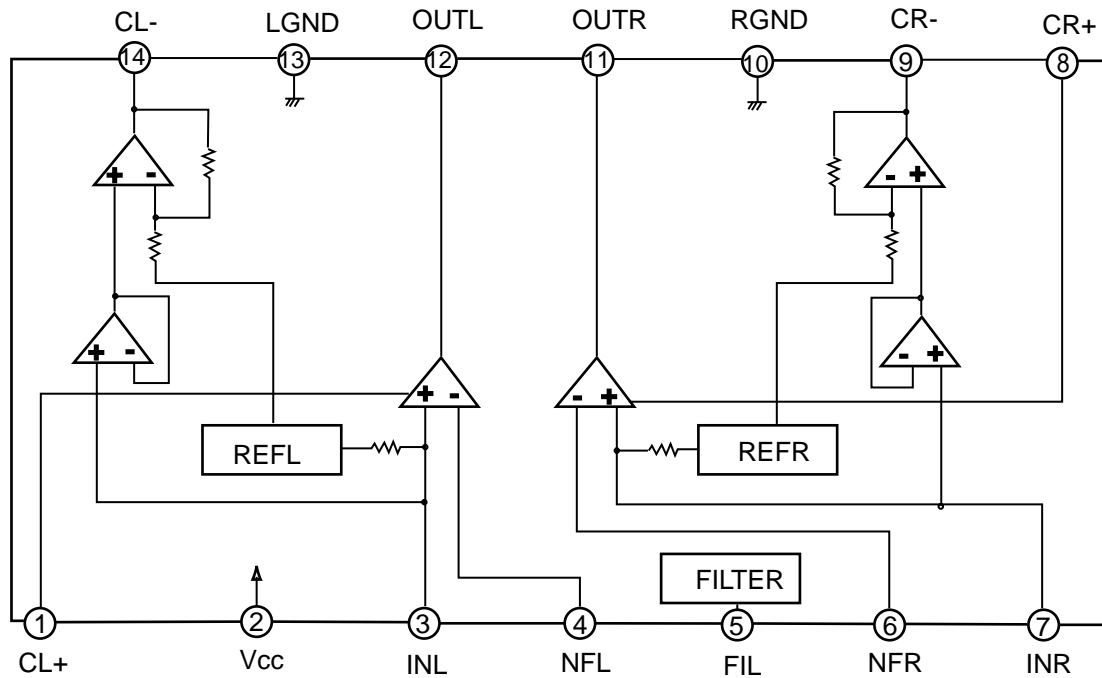
Pin NO.	Symbol	I/O	FUNCTION
51	SW1	I	CD MECHA SW
52	REMOCON	I	REMOCON INPUT
53	VTR-LOGIC	-	Non connection
54	VTR-CONT	-	Non connection
55	POWER	O	POWER CONT.
56	CD-ON	O	CD POWER CONT.
57	MUTE	O	MUTE CONT
58	NC	-	Non connection
59	BUZZER	I	BEEP FOR SW OPERATION
60	NC	-	Non connection
61	NC	-	Non connection
62	NC	-	Non connection
63	NC	-	Non connection
64	NC	-	Non connection
65	NC	-	Non connection
66	NC	-	Non connection
67	NC	-	Non connection
68	NC	-	Non connection
69	LM0	O	CD MECHA DRIVER CONT.
70	LM1	O	CD MECHA DRIVER CONT.
71	BUCK	O	CD LSI COMMUNICATION LINE
72	CCE	O	CD LSI COMMUNICATION LINE
73	BUS0	I/O	CD LSI COMMUNICATION LINE
74	BUS1	I/O	CD LSI COMMUNICATION LINE
75	BUS2	I/O	CD LSI COMMUNICATION LINE
76	BUS3	I/O	CD LSI COMMUNICATION LINE
77	RST	O	CD LSI COMMUNICATION LINE
78	PS1	I	ACC DETECTION INPUT
79	PS2	I	MEMORY DETECTION
80	DETACH	I	DETACH DETECTION
81	NC	-	Non connection
82	GND1	-	MONO BY FORCE
83	MONO	O	SWITCHING SEEK & STOP
84	SEEK/STOP	O	BAND SW
85	FM/AM	O	OUTPUT L
86	DIMIN	I	ILM CONTROL
87	ANT	O	ANT COTROL
88	TEL MUTE	I	TEL MUTE IN
89	STAGE1	-	Non connection
90	STAGE2	-	Non connection
91	NC	-	Non connection
92	NC	-	Non connection
93	NC	-	Non connection
94	NC	-	Non connection
95	NC	-	Non connection
96	NC	-	Non connection
97	NC	-	Non connection
98	DIMMER	O	DIMMER CONTROL
99	VDDPORT	-	-
100	GNDPORT	-	-

■ BA3220FV-X(IC341/IC441) : Line Out Amp

1. Terminal layout

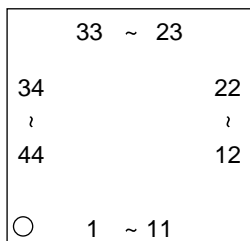


2. Block diagram

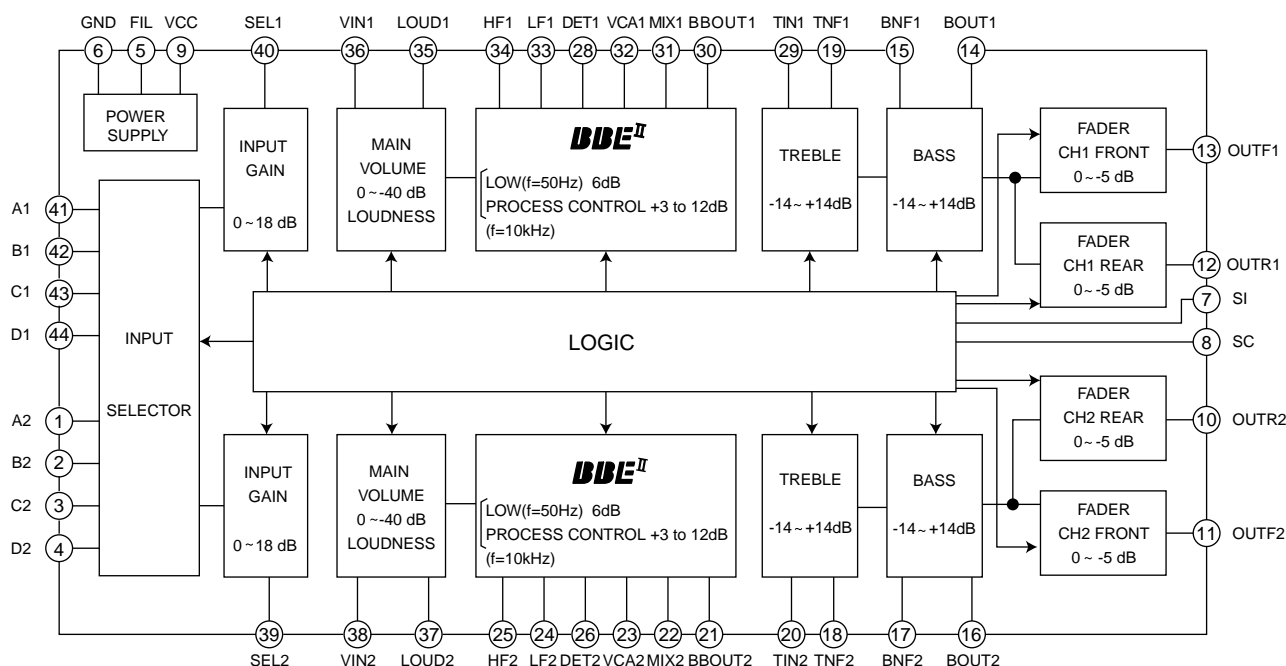


■ BD3860K (IC301):E.Volume

1.Terminal layout



2.Block diagram



3.Pin function

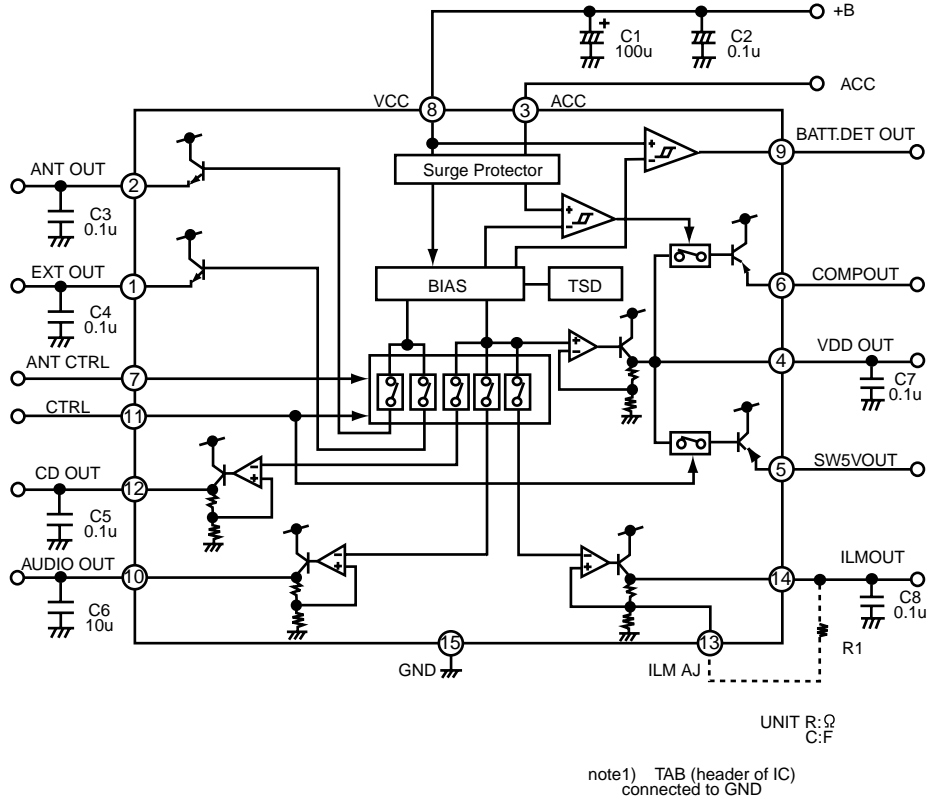
Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	A2	CH2 Input Pin A	23	VCA2	CH2 High Pass VCA Output Pin
2	B2	CH2 Input Pin B	24	LF2	CH2 Low Pass Filter Setting Pin
3	C2	CH2 Input Pin C	25	HF2	CH2 High Pass Filter Setting Pin
4	D2	CH2 Input Pin D	26	DET2	CH2 High Pass Attack/Release Time Setting Pin
5	FIL	1/2 VCC Pin	27	NC	Non connect
6	GND	Ground Pin	28	DET1	CH1 High Pass Attack/Release Time Setting Pin
7	SI	Serial Data Receiving Pin	29	TIN1	CH1 treble Input Pin
8	SC	Serial Clock Receiving Pin	30	BBOUT1	CH1 BBE II Signal Output Pin
9	VCC	Power Supply Pin	31	MIX1	CH1 Output MIX Amplifier Inverse Input Pin
10	OUTR2	CH2 Rear Output Pin	32	VCA1	CH1 High Pass VCA Output Pin
11	OUTF2	CH2 Front Output Pin	33	LF1	CH1 Low Pass Filter Setting Pin
12	OUTR1	CH1 Rear Output Pin	34	HF1	CH1 High Pass Filter Setting Pin
13	OUTF1	CH1 Front Output Pin	35	LOUD1	CH1 Loudness Filter Setting Pin
14	BOUT1	CH1 Bass Filter Setting Pin	36	VIN1	CH1 Main Volume Input Pin
15	BNF1	CH1 Bass Filter Setting Pin	37	LOUD2	VCH2 Loudness Filter setting Pin
16	BOUT2	CH2 Bass Filter Setting Pin	38	VIN2	CH2 Main Volume Input Pin
17	BNF2	CH2 Bass Filter Setting Pin	39	SEL2	CH2 Input Gain Output Pin
18	TNF2	CH2 treble Filter Setting Pin	40	SEL1	CH1 Input Gain output Pin
19	TNF1	CH1 treble Filter Setting Pin	41	A1	CH1 Input Pin A
20	TIN2	CH2 treble Input Pin	42	B1	CH1 Input Pin B
21	BBOUT2	CH2 BBE II Signal Output Pin	43	C1	CH1 Input Pin C
22	MIX2	CH2 Output MIX Amplifier Inverse Input Pin	44	D1	CH1 Input Pin D

HA13164(IC961):REGULATOR

1.Terminal layout



2.Block diagram

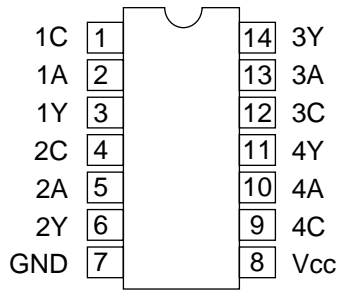


3.Pin function

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 applies 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 applies to CTRL pin.
15	GND	Connected to GND.

■ HD74HC126FP-X (IC771) : Buffer

1. Terminal layout

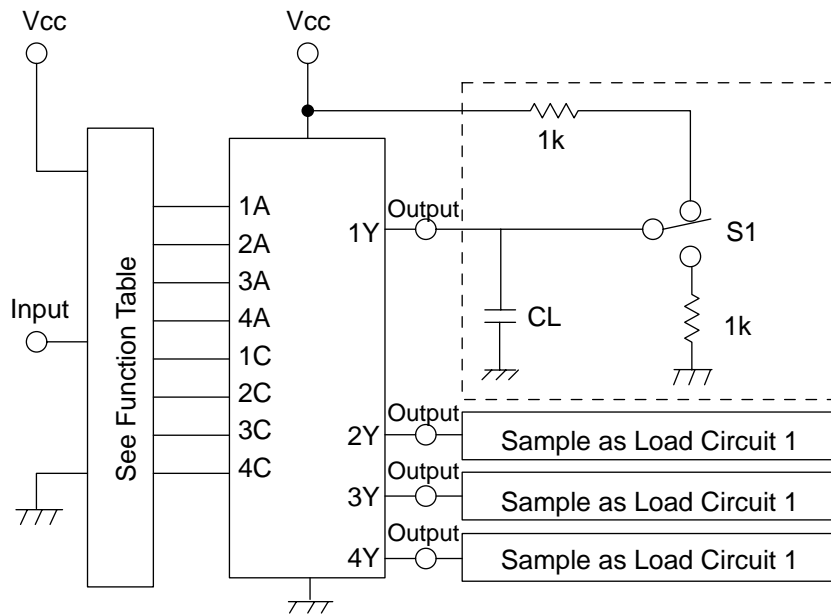


3. Pin function

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

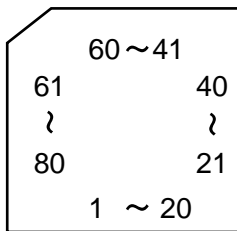
Note: H : High
 L : Low
 X : H and L
 Z : H.L.X

2. Block diagram

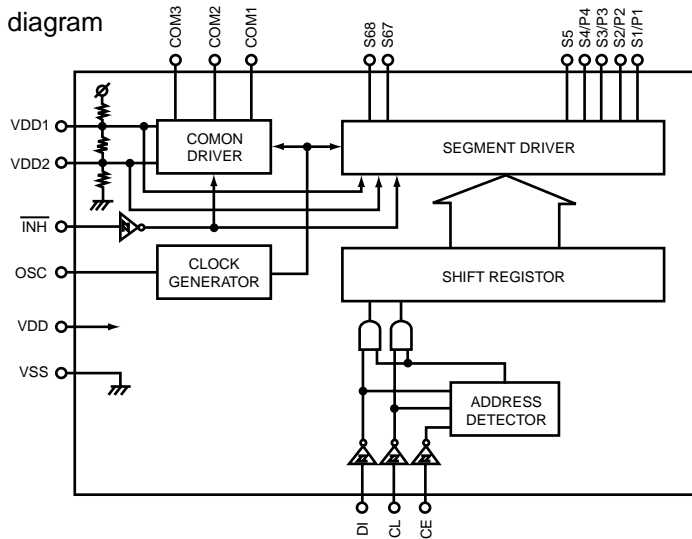


■ LC75873NW(IC601):LCD Driver

1.Pin layout



2.Block diagram

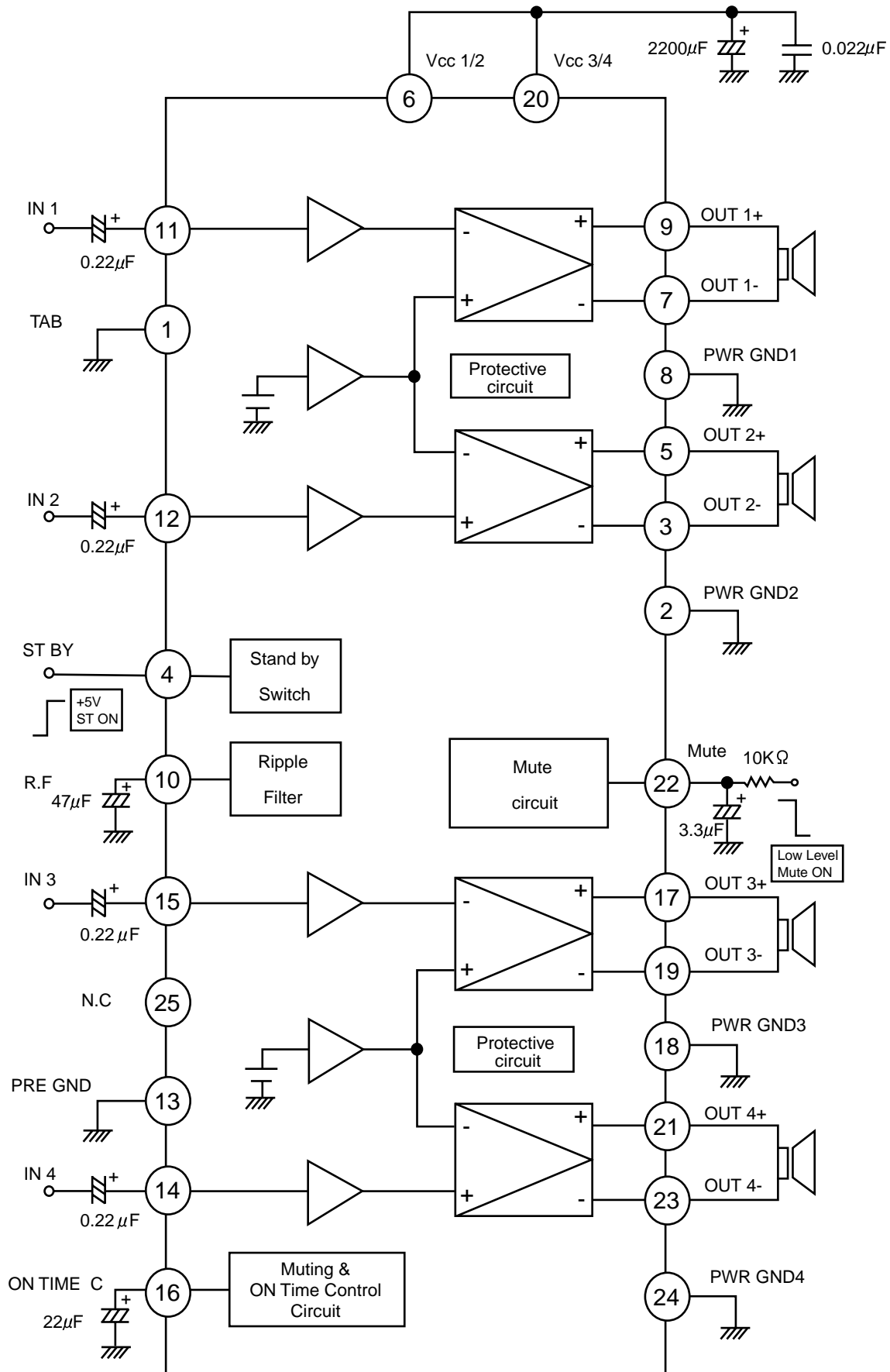


3.Pin function

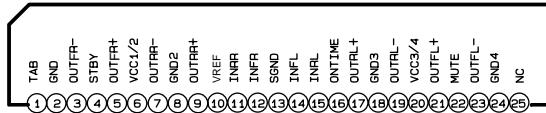
Pin No.	Pin name	I/O	Description
79,80 1,2,3 to 66	S1/P1 TO S4/P4 S5 to S68	O	Segment outputs for displaying the display data transferred by serial data input. The S1/P1 to S4/P4 pins can be used as general-purpose output ports under serial data control.
67 78 69	COM1 COM2 COM3	O	Common driver outputs. The frame frequency f_0 is given by : $f_0 = (FOSC/384)Hz.$
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 • $\overline{INH} = "L"(VSS)$... 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" • $\overline{INH} = "H"(HDD)$... Display on However, serial data transfer is possible when the display is forced off by this pin.
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.

■ LA4743K(IC351):Power AMP

1. Block diagram



2. Terminal layout



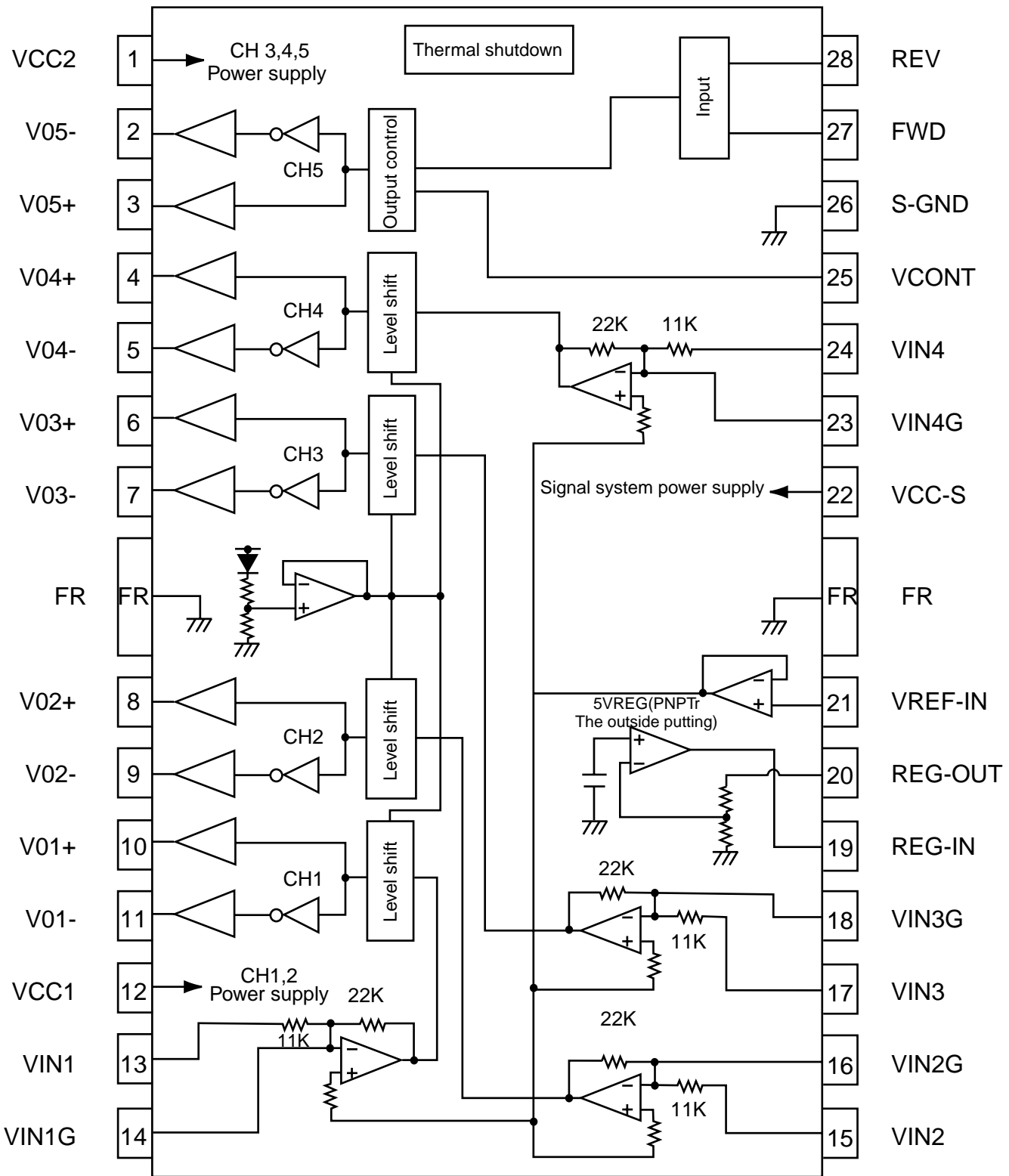
3. Pin function

LA4743K

Pin No.	Symbol	Function
1	TAB	Header of IC
2	GND	Power GND
3	OUTFR-	Output (-) 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	GND	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	Non connection

■ LA6567H-X(IC581):CD DRIVER

1.Pin layout & blockdiagram



2. Pin function

LA6567H-X(2/2)

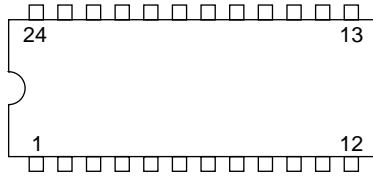
Pin no.	Symbol	Function
1	VCC2	CH3,4,5 Power supply(It is short with VCC1,VCC-S)
2	V05-	Loading output(-)
3	V05+	Loading terminal (+)
4	V04+	CH4 Output terminal(+)
5	V04-	CH4 Output terminal(-)
6	V03+	CH3 Output terminal(+)
7	V03-	CH3 Output terminal(-)
8	V02+	CH2 Output terminal(+)
9	V02-	CH2 Output terminal(-)
10	V01+	CH1 Output terminal(+)
11	V01-	CH1 Output terminal(-)
12	VCC1	CH1,2(BTL) Power supply(It is short with VCC-S,VCC2)
13	VIN1	CH1 Input terminal
14	VIN1G	CH1 Input terminal(For gain adjustment)
15	VIN2	CH2 Input terminal
16	VIN2G	CH2 Input terminal(For gain adjustment)
17	VIN3	CH3 Input terminal
18	VIN3G	CH3 Input terminal(For gain adjustment)
19	REG-IN	Regulator terminal(Outside putting PNP base)
20	REG-OUT	Regulator terminal(Outside putting PNP collector)
21	VREF-IN	Standard voltage input terminal
22	VCC-S	Signal system power supply(It is short with VCC1,VCC2)
23	VIN4G	CH4 Input terminal(For gain adjustment)
24	VIN4	CH4 Input terminal
25	VCONT	5CH(VLO) Output voltage set terminal
26	S-GND	Signal system GND
27	FWD	5CH(VLO)Signal output switch terminal(FWD),Input of logic of loading part
28	REV	5CH(VLO)Signal output switch terminal(REV), Input of logic of loading part

* Frame(FR)at the center becomes system GND.

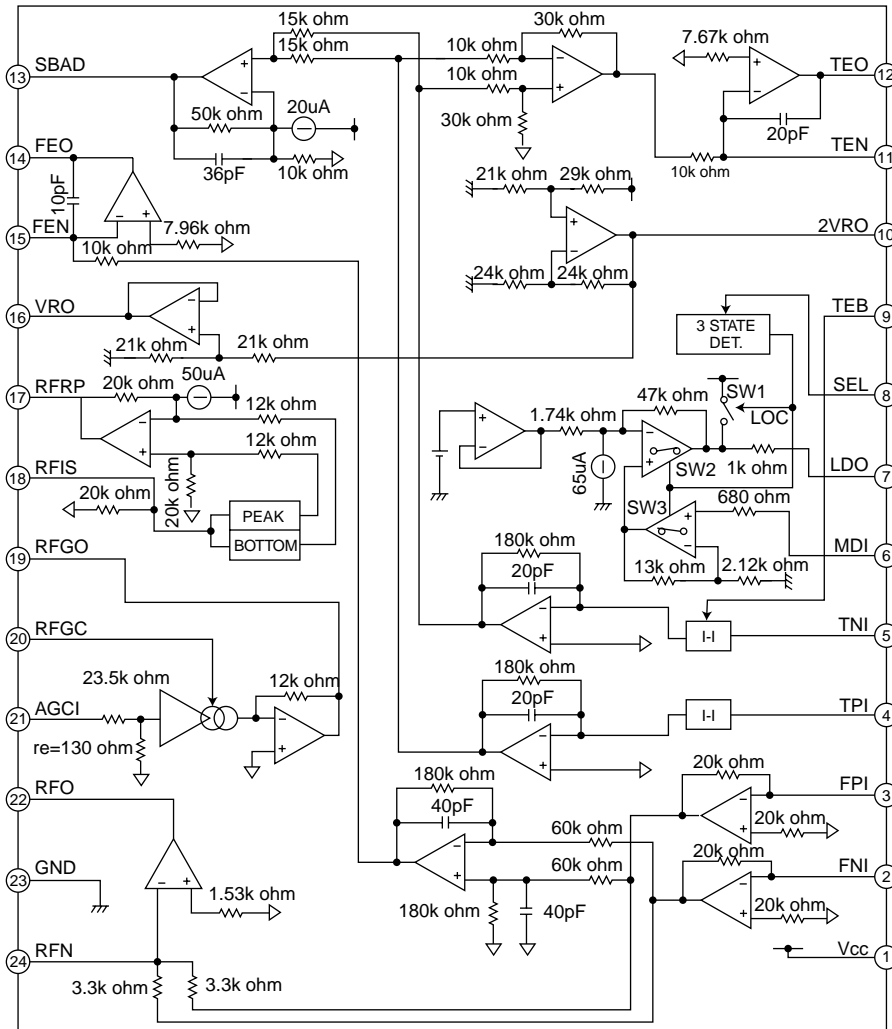
* Please be short-circuited on the outside and use the terminal of the power supply system and three terminals of VCC-S, VCC1,VCC2.

■ TA2109F-X (IC501) : RF amp.

1. Pin layout



2. Block diagram

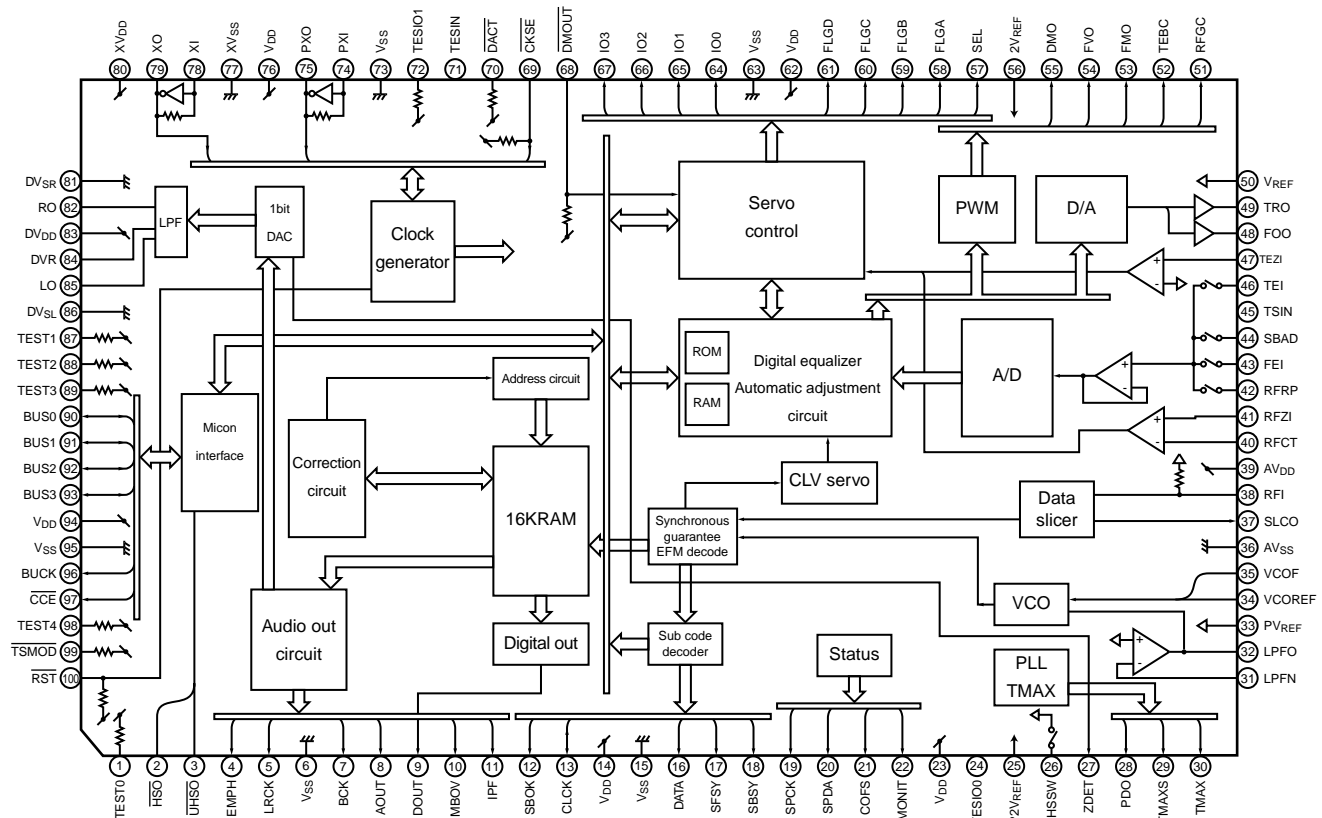


3. Pin function

Pin No.	Symbol	I/O	Pin function	Pin No.	Symbol	I/O	Pin function
1	Vcc	-	Power supply input terminal	13	SBAD	O	Sub beam adder signal output terminal
2	FNI	I	Main beam I-V amp input terminal	14	FEO	O	Focus error signal output terminal
3	FPI	I	Main beam I-V amp input terminal	15	FEN	I	FE amp negative input terminal
4	TPI	I	Sub beam I-v input terminal	16	VRO	O	Reference voltage (VREF) output terminal
5	TNI	I	Sub beam I-V input terminal	17	RFRP	O	Track count signal output terminal
6	MDI	I	Monitor photo diode amp input terminal	18	RFIS	I	RFRP detect circuit input terminal
7	LDO	O	Laser diode amp output terminal	19	RFGO	O	RF gain signal output terminal
8	SEL	I	Laser diode control signal input terminal	20	RFGC	I	RF amplitude adj. control signal input terminal
9	TEB	I	T. error balance adj. signal input terminal	21	AGCI	I	RF signal amplitude adj. amp input terminal
10	2VRO	O	Reference voltage output terminal	22	RFO	O	RF signal output terminal
11	TEN	I	TE amp negative input terminal	23	GND	-	Ground terminal
12	TEO	O	TE error signal output terminal	24	RFN	I	RF amp negative input terminal

TC9462F(IC521):

1.Pin layout & Block Diagram



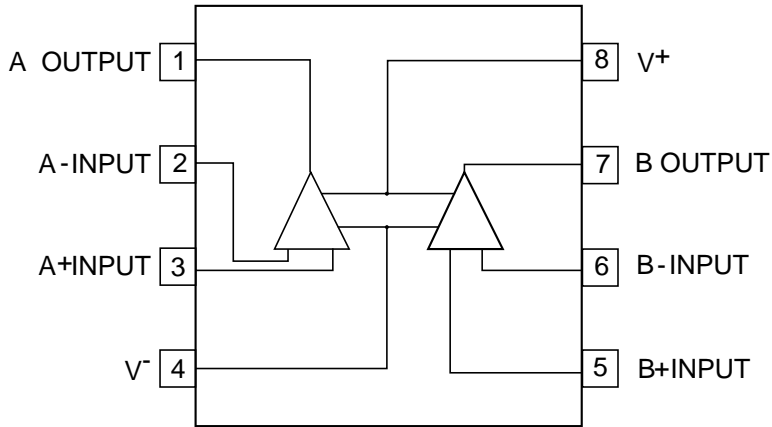
2.Pin function

PIN No.	SYMBOL	I/O	FUNCTIONAL DESCRIPTION	REMARKS															
1	TEST0	I	Test mode terminal. Normally, Keep at open.	With pull-up resistor.															
2	HSO	O	Playback speed mode flag output terminal. <table border="1" style="margin-left: 20px;"> <tr> <th>UHSO</th> <th>HSO</th> <th>PLAYBACK SPEED</th> </tr> <tr> <td>H</td> <td>H</td> <td>Nomal</td> </tr> <tr> <td>H</td> <td>L</td> <td>2 times</td> </tr> <tr> <td>L</td> <td>H</td> <td>4 times</td> </tr> <tr> <td>L</td> <td>L</td> <td>--</td> </tr> </table>	UHSO	HSO	PLAYBACK SPEED	H	H	Nomal	H	L	2 times	L	H	4 times	L	L	--	--
UHSO	HSO	PLAYBACK SPEED																	
H	H	Nomal																	
H	L	2 times																	
L	H	4 times																	
L	L	--																	
3	UHSO	O																	
4	EMPH	O	Subcode Q data emphasis flag output terminal. Emphasis ON at "H" level and OFF at "L" level. The output polarity can invert by command.	--															
5	LRCK	O	Channel clock output terminal. (44.1kHz) L-ch at "L" level and R-ch at "H" level. the output polarity can invert by command.	--															
6	VSS	--	Digital GND terminal.	--															
7	BCK	O	Bit clock output terminal. (1.4112MHz)	--															
8	AOUT	O	Audio data output terminal.	--															
9	DOUT	O	Digital data output terminal.	--															
10	MBOV	O	Buffer memory over signal output terminal. Over at "H" level.	--															
11	IPF	O	Correction flag output terminal. At "H" level, AOUT output is made to correction impossibility by C2 correction processing.	--															
12	SBOK	O	Subcode Q data CRCC check adjusting result output terminal. The adjusting result is OK at "H" level.	--															
13	CLCK	I/O	Subcode P~W data readout clock input/output terminal. This terminal can select by command bit.	--															
14	VDD	--	Digital power supply voltage terminal.	--															
15	VSS	--	Digital GND terminal.	--															
16	DATA	O	Subcode P~W data output terminal.	--															
17	SFSY	O	Play-back frame sync signal output terminal.	--															
18	SBSY	O	Subcode block sync signal output terminal.	--															
19	SPCK	O	Processor status signal readout clock output terminal.	--															
20	SADA	O	Processor status signal output terminal.	--															
21	COFS	O	Correction frame clock output terminal. (7.35kHz)	--															
22	MONIT	O	Internal signal (DSP internal flag and PLL clock) output terminal. Selected by command. This terminal output the text data with serial by command.	--															
23	VDD	--	Digital power supply voltage terminal.	--															
24	TESIO0	I	Test input/output terminal. Normally, keep at "L" level. The terminal that inputted the clock for read of text data by command.	--															
25	P2VREF	--	PLL double reference voltage supply terminal.	--															

Pin No.	Symbol	I/O	Function	Remarks								
26	HSSW	O	2/4 times speed at "VREF" voltage.	2-state output(PVREF,HIZ)								
27	ZDET	O	1 bit DA converter zero detect flag output terminal.	-								
28	PDO	O	Phase difference signal output terminal of EFM signal and PLCK signal.	3-state output. (P2VREF,PVREF,VSS)								
29	TMAXS	O	TMAX detection result output terminal. Selected by command bit (TMPS)	3-state output. (P2VREF,PVREF,VSS)								
30	TMAX	O	TMAX detection result output terminal. Selected by command bit (TMPS)	3-state output. (P2VREF,HIZ,VSS)								
			<table border="1"> <tr> <td>DIFFERENCE RESULT</td> <td>TMAX OUTPUT</td> </tr> <tr> <td>Longer than fixed freq.</td> <td>"P2VREF"</td> </tr> <tr> <td>Shorter than fixed freq.</td> <td>"VSS"</td> </tr> <tr> <td>Within the fixed freq.</td> <td>"Hiz"</td> </tr> </table>	DIFFERENCE RESULT	TMAX OUTPUT	Longer than fixed freq.	"P2VREF"	Shorter than fixed freq.	"VSS"	Within the fixed freq.	"Hiz"	
DIFFERENCE RESULT	TMAX OUTPUT											
Longer than fixed freq.	"P2VREF"											
Shorter than fixed freq.	"VSS"											
Within the fixed freq.	"Hiz"											
31	LPFN	I	LPF amplifier inverting terminal for PLL.	Analog input.								
32	LPFO	O	LPF amplifier output terminal for PLL.	Analog output.								
33	PVREF	-	PLL reference voltage supply terminal.	-								
34	VCOREF	I	VCO center frequency reference level terminal. Normally, keep at "PVREF" level.	-								
35	VCOF	O	VCO filter terminal.	Analog output.								
36	AVSS	-	Analog GND terminal.	-								
37	SLCO	O	Data slice level output terminal.	Analog output.								
38	RFI	I	RF signal input terminal.	Analog input. (Zin:selected by command)								
39	AVDD	-	Analog power supply voltage terminal.	-								
40	RFCT	I	RFRP signal center level input terminal	Analog input(Zin : 50k Ω)								
41	RFZI	I	RFRP zero cross input terminal	Analog input.								
42	RFRP	I	RF ripple signal input terminal	Analog input.								
43	FEI	I	Focus error signal input terminal	Analog input.								
44	SBAD	I	Sub-beam adder signal input terminal	Analog input.								
45	TSIN	I	Test input terminal Normally, keep at "vref" level	Analog input.								
46	TEI	I	Tracking error signal input terminal. Take in at tracking servo ON.	Analog input.								
47	TEZI	I	Tracking error zero cross input terminal	Analog input(Zin :10k Ω)								
48	FOO	O	Focus servo equalizer output terminal	Analog output.(2VREF-AVSS)								
49	TRO	O	Tracking servo equalizer output terminal	-								
50	VREF	-	Analog reference voltage supply terminal	3-state PWM signal output.								
51	RFGC	O	RF amplitude adjustment control signal output terminal	(2VREF,VREF,VSS)								
52	TEBC	O	Tracking balance control signal output terminal	(PWM carrier =88.2kHz)								
53	FMO	O	Feed equalizer output terminal									
54	FVO	O	Speed error signal or feed search equalizer output terminal									
55	DMO	O	Disk equalizer output terminal (PWM carrier=88.2kHz for DSP, Synchronize to PXO)	3-state output. (2VREF,VREF,VSS)								
56	2VREF	-	Analog double reference voltage supply terminal	-								
57	SEL	O	APC circuit ON/OFF indication signal output terminal	-								
58~61	FLGA~D	O	External flag output terminal for internal signal	-								
62	VDD	-	Digital power supply voltage terminal	-								
63	VSS	-	Digital GND terminal	-								
64~67	IO0~3	I/O	General I/O terminal	-								
68	DMOUT	I	This terminal control IO0~IO3 terminal	With pull-up resistor.								
69	CKSE	I	Normally, keep at open	With pull-up resistor.								
70	DACT	I	DAC test mode terminal. Normally, keep at open	With pull-up resistor.								

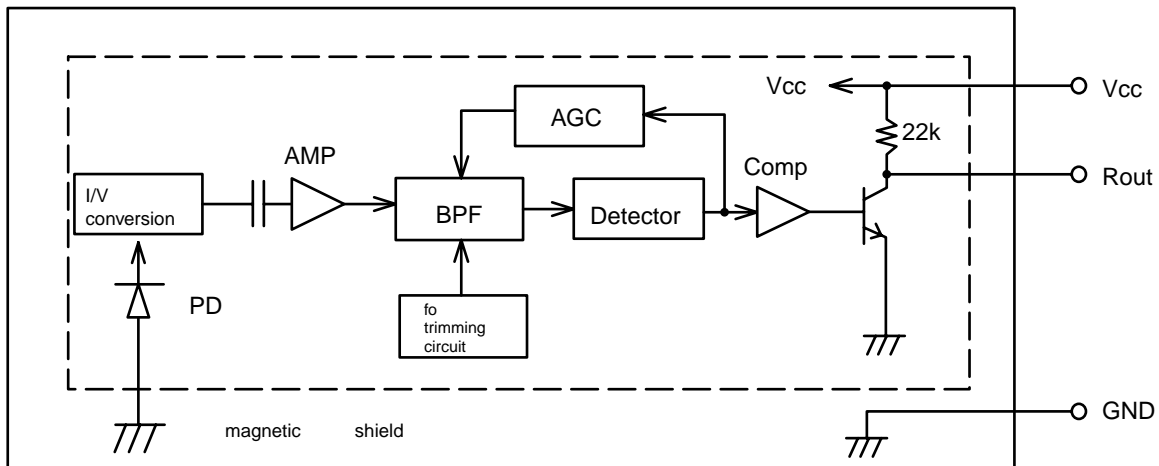
Pin No.	Symbol	I/O	Function	Remarks
71	TESIN	I	Test input terminal, Normally, keep at "L" level	Analog input.
72	TESIO1	I	Test input/output terminal. Normally, keep at "L" level	Analog input.
73	VSS	-	Digital GND terminal	-
74	PXI	I	Crystal oscillator connecting input terminal for DSP	-
75	PXO	O	Crystal oscillator connecting output terminal for DSP	-
76	VDD	-	Digital power supply voltage terminal	-
77	XVSS	-	Oscillator GND terminal for system clock	-
78	XI	I	Crystal oscillator connecting input terminal for system clock	-
79	XO	O	Crystal oscillator connecting output terminal for system clock	-
80	XVDD	-	Oscillator power supply voltage terminal for system clock	-
81	DVSR	-	Analog GND terminal for DA converter (Rch)	-
82	RO	O	R channel data forward output terminal	-
83	DVDD	-	Analog supply voltage terminal for DA converter	-
84	DVR	-	Reference voltage terminal for DA converter	-
85	LO	O	L channel data forward output terminal	-
86	DVSL	-	Analog GND terminal for DA converter (Lch)	-
87~89	TEST1~3	I	Test mode terminal . Normal keep at open	With piull-up resistor.
90~93	BUS0~3	I/O	Micon interface data input/output terminal	Schmit input. With pull-up resistor.
94	VDD	-	Digital power supply voltage terminal	-
95	VSS	-	Digital GND terminal	-
96	BUCK	I	Micon interface clock input terminal	Schmit input.
97	CCE	I	Command and data sending/receiving chip enable signal input terminal	Schmit input.
98	TEST4	I	Test mode terminal. Normal, keep at open	With pull-up resistor.
99	TSMOD	I	Local test mode selection terminal	With pull-up resistor.
100	RST	I	Reset signal input terminal. Reset at "L" level	With pull-up resistor.

■ NJM4565M-WE (IC111) : Ope. amp



■ RPM6938-SV4(IC602) : Remote Censor

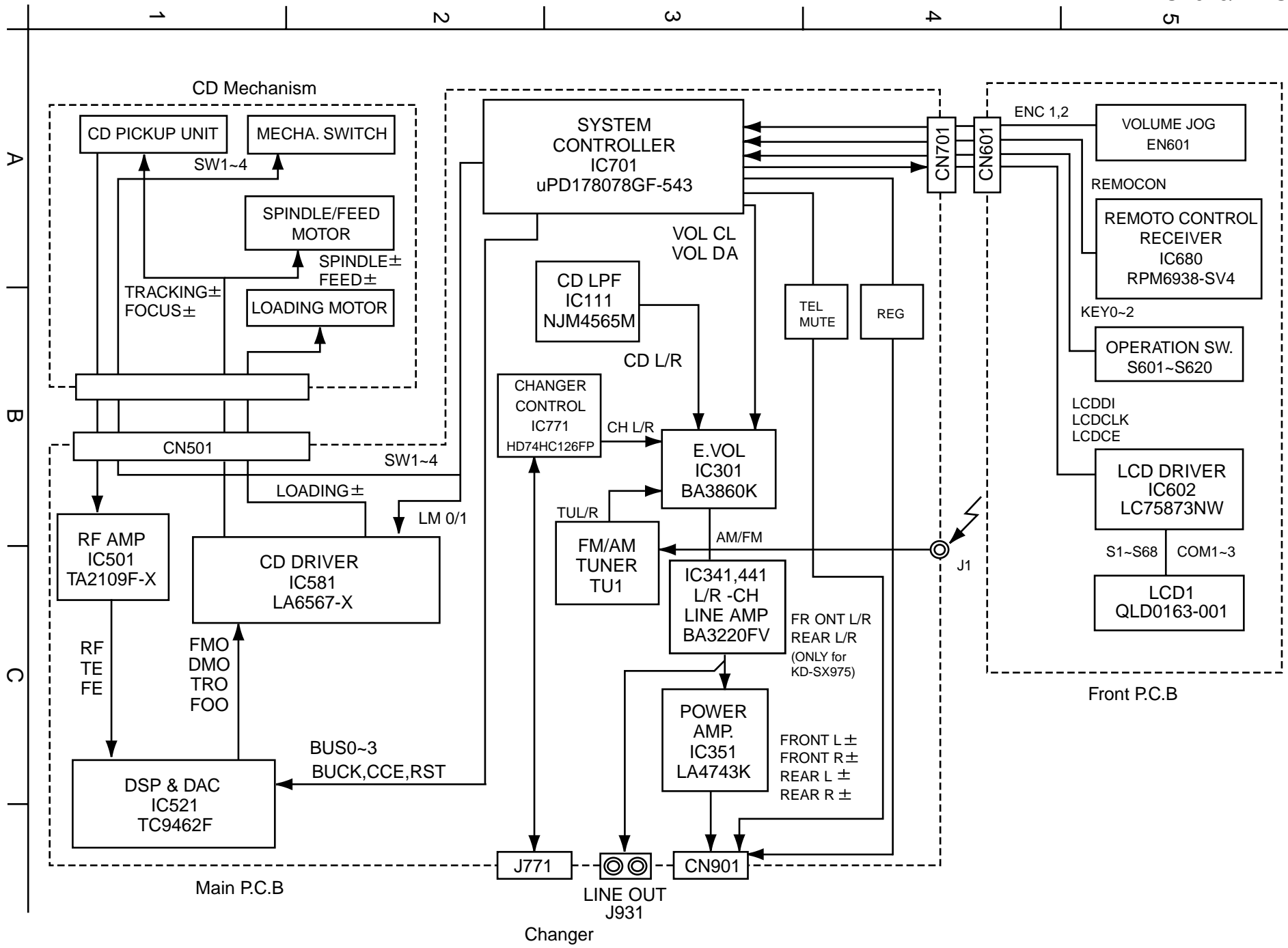
1. Block diagram





VICTOR COMPANY OF JAPAN, LIMITED
MOBILE ELECTRONICS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,Maebashi-city,Japan

Block diagram



< M E M O >

Standard schematic diagrams

Receiver & system control section

- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION—FM MODE. □ AM MODE. (LCD MODE.
 2. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN PPF. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(UF)/RATED VOLTAGE(V) TF — T.F. CAPACITOR

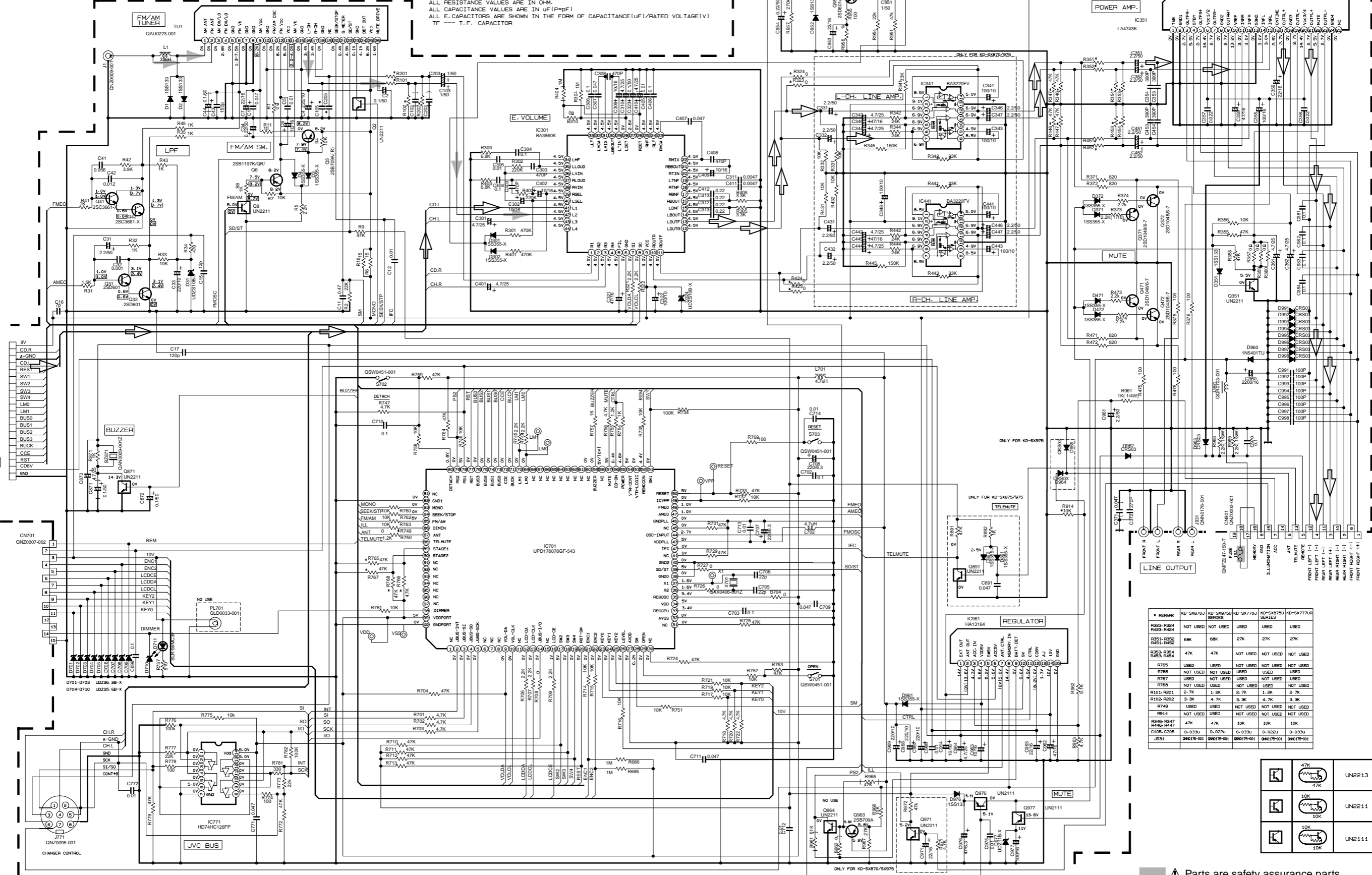
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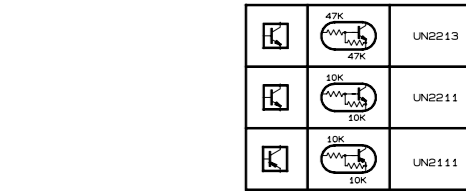
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2

1



REMARK	KD-SX870J	KD-SX975U	KD-SX70J	KD-SX75U	KD-SX777U
R323-R324	NOT USED	NOT USED	USED	USED	USED
R325-R326	NOT USED	NOT USED	USED	USED	USED
R351-R352	68K	68K	27K	27K	27K
R353-R354	47K	47K	NOT USED	NOT USED	NOT USED
R355-R356	USED	USED	NOT USED	NOT USED	NOT USED
R765	USED	USED	NOT USED	NOT USED	NOT USED
R766	NOT USED	NOT USED	USED	USED	USED
R767	USED	NOT USED	USED	NOT USED	NOT USED
R768	NOT USED	USED	NOT USED	USED	NOT USED
R101-R101	2.7K	1.2K	2.7K	1.2K	2.7K
R102-R102	3.3K	4.7K	3.3K	4.7K	3.3K
R748	USED	USED	NOT USED	NOT USED	NOT USED
R914	NOT USED	USED	NOT USED	NOT USED	NOT USED
R346-R347	47K	47K	10K	10K	10K
R446-R447	47K	47K	10K	10K	10K
C105-C205	0.033u	0.022u	0.033u	0.022u	0.033u
J931	QAU0176-001	QAU0176-001	QAU0176-001	QAU0176-001	QAU0176-001



Note:tr/ies/sx875/3181.001
FSDH3181-006BW 1/3
KD-SX870J/770J/777UR/875U/975U SERIES

➔ CD/Main signal ➔ Tuner signal

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

■ Mecha control circuit section

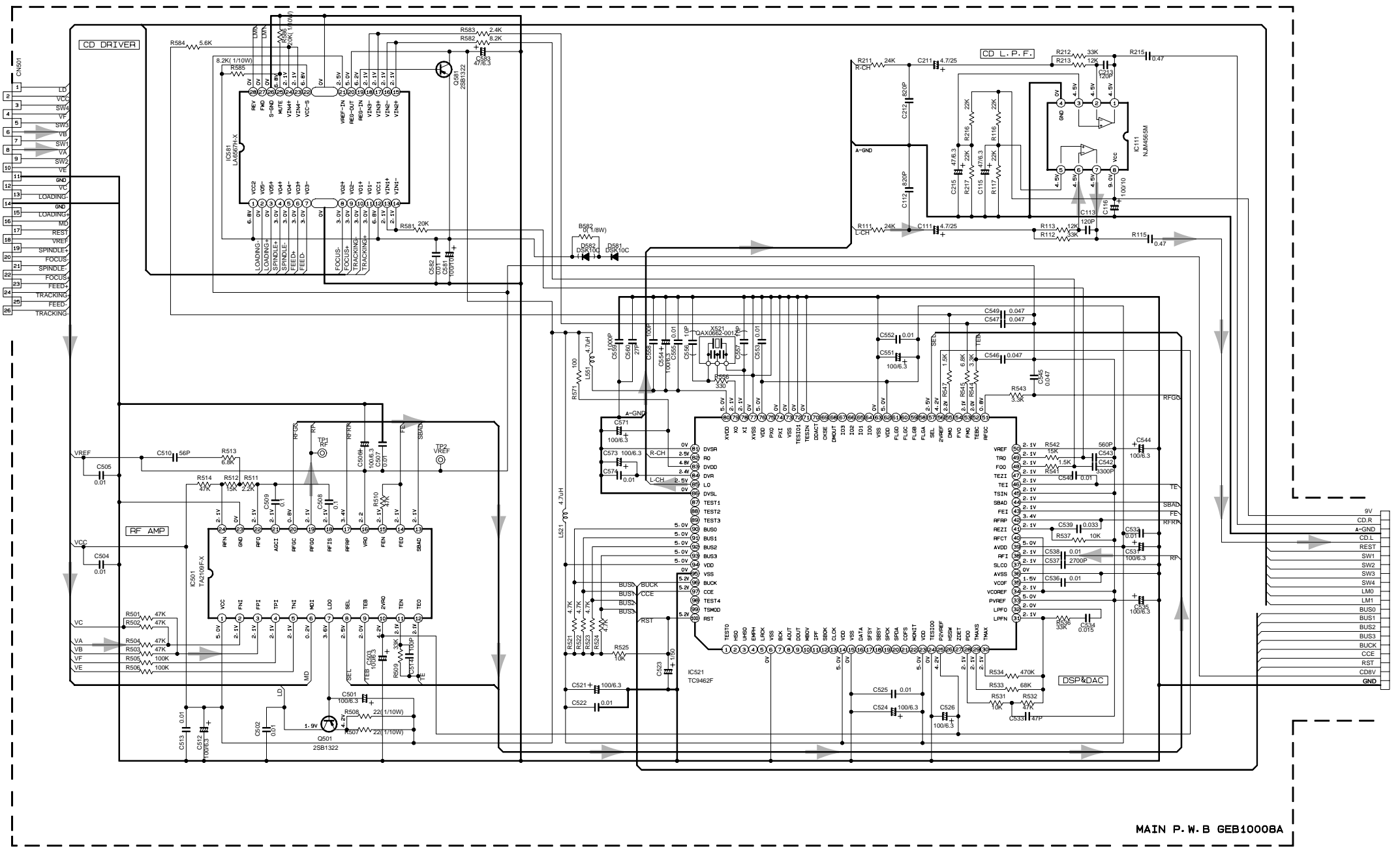
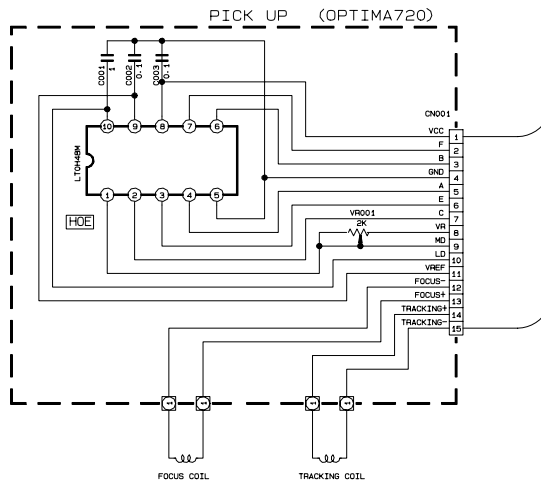
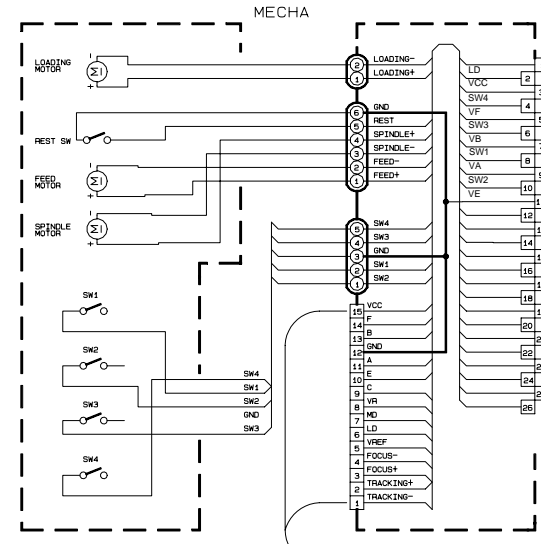
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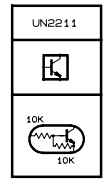
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2

1



➔ CD/Main signal

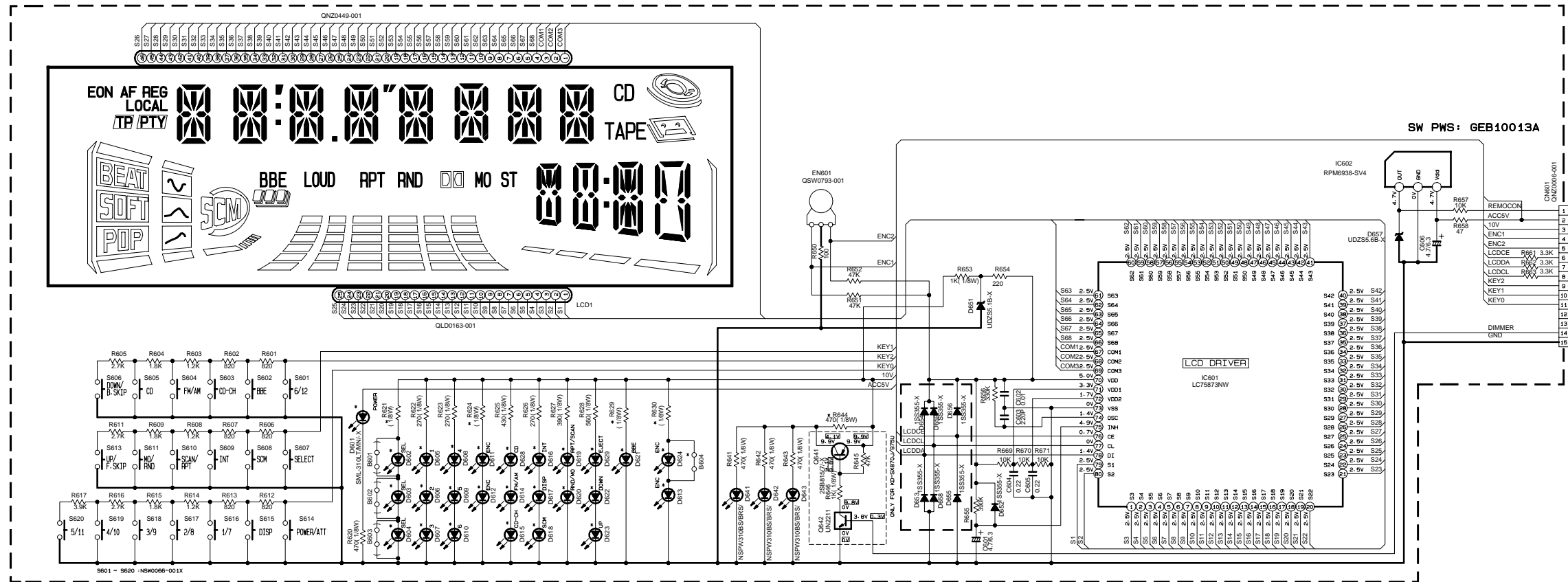


- NOTES
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■ LCD driver & operation switch section

NOTE:
 LNJ308681/1-3/-X --- GREEN LED
 CL-190LB-X-X --- BLUE LED
 EL-19-21LBC/-X --- BLUE LED
 SML-310LT/AN/-X --- RED LED (POWER)
 SML-310VT/KL/-X --- RED LED (OTHERS)
 SML-310VT/KL/-X --- YELLOW LED
 SML-310DT/KL/-X --- AMBER LED

REMARK	KD-SX870J	KD-SX975U SERIES	KD-SX770J	KD-SX875U SERIES	KD-SX777UR
D601	SML-310LT/AN/-X	SML-310LT/AN/-X	SML-310LT/AN/-X	SML-310LT/AN/-X	SML-310LT/AN/-X
D602-D604	SML-310VT/KL/-X	SML-310VT/KL/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X
D605-D610	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X
D611-D612	NOT USED	NOT USED	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X
D613-D620	LNJ308681/1-3/-X	SML-310VT/KL/-X	LNJ308681/1-3/-X	SML-310VT/KL/-X	LNJ308681/1-3/-X
D621	EL-19-21LBC/-X	SML-310DT/KL/-X	SML-310DT/KL/-X	SML-310DT/KL/-X	SML-310DT/KL/-X
D624	EL-19-21LBC/-X	CL-190LB-X-X	NO USED	NO USED	NO USED
D625	EL-19-21LBC/-X	CL-190LB-X-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X	LNJ308681/1-3/-X
D626	NOT USED	NOT USED	USED	USED	USED
R621	680	680	270	270	270
R624	NOT USED	NOT USED	390	390	390
R629	2.2K	510	510	510	510
R630	820	620	510	510	510
R644	470	470	0	0	0



FOR JEIN SWITCH BOARD MODEL

MODEL	SWITCH BOARD
KD-SX870J	OPEN-SWPCB-1
KD-SX770J	OPEN-SWPCB-2
KD-SX975U SERIES	OPEN-SWPCB-7
KD-SX875U SERIES	OPEN-SWPCB-8

Note: te/s/jes/sx875/3181.003
 FSDH3181-006SW 3/3
 KD-SX870J/770J/777UR/SX875U/975U SERIES

Printed circuit boards

5

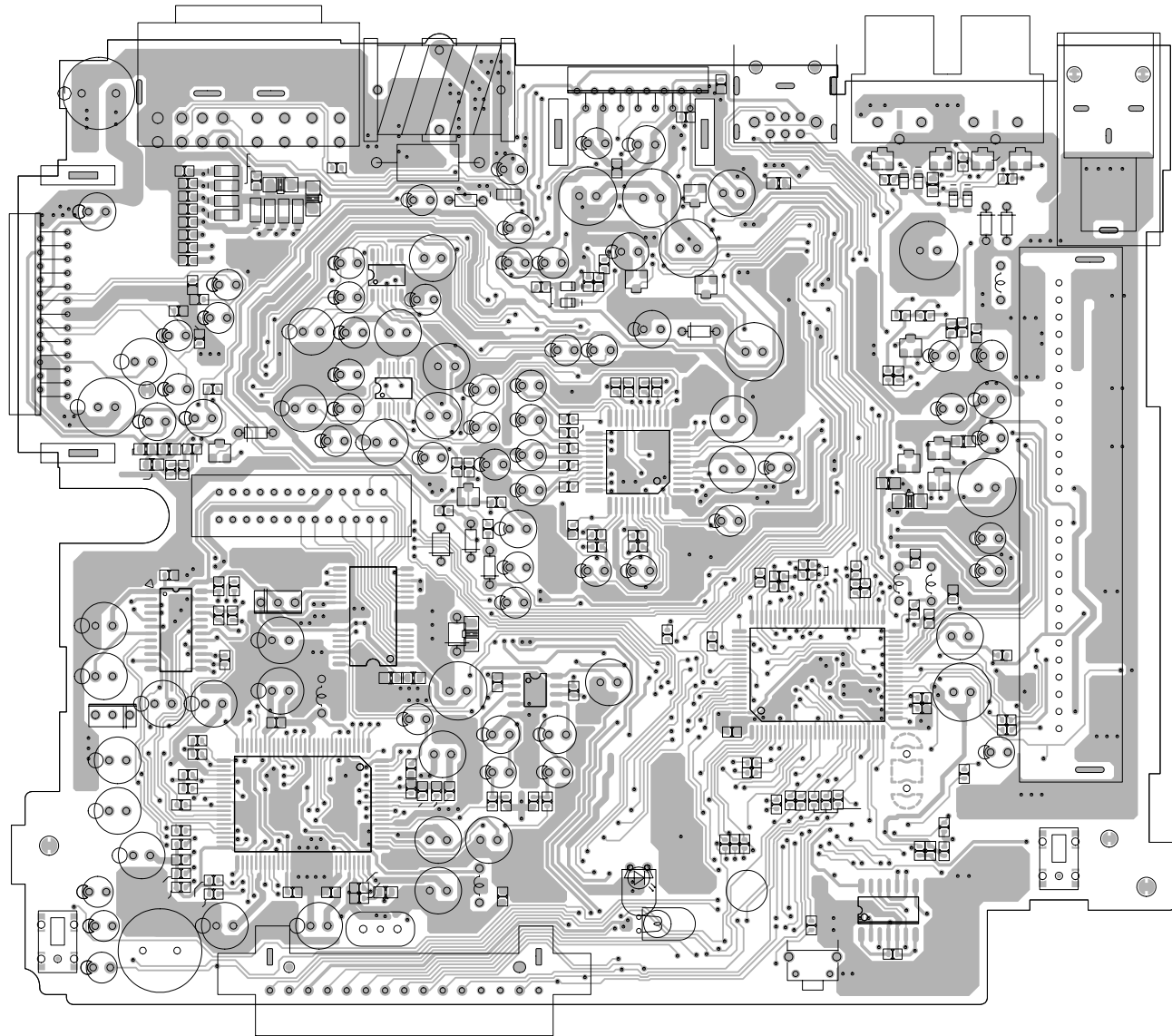
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3

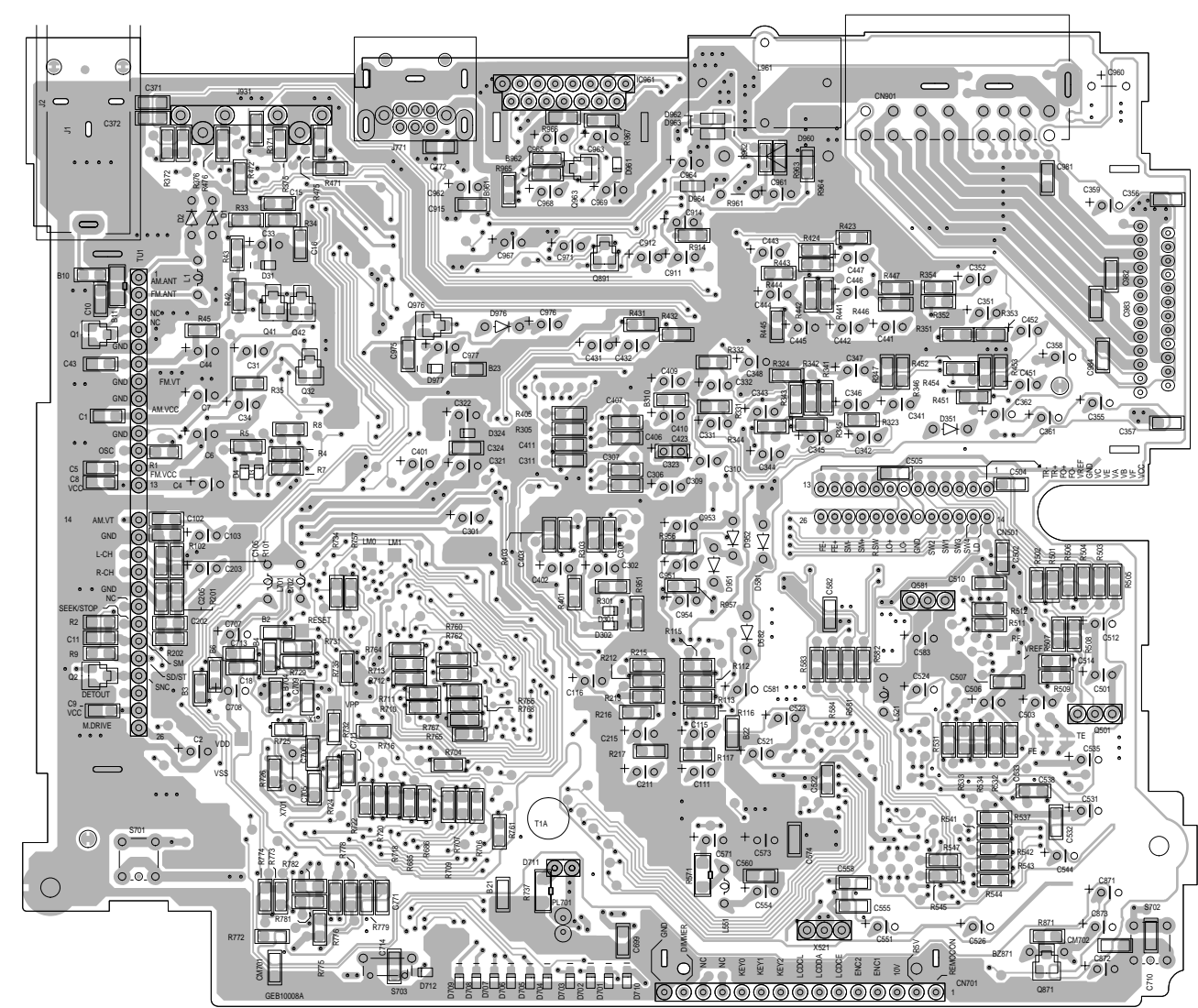
2

1

■ Main board
(Forward side)



■ Main board
(Reverse side)



Note:KD-SX875/KD-SX975/KD-SX870/KD-SX770

A

B

C

2-6

D

E

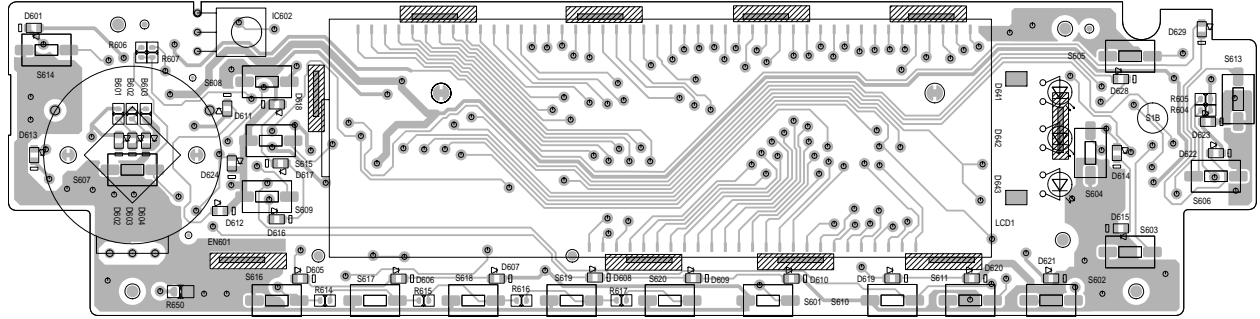
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G

H

■ Front board(Forward side)

5

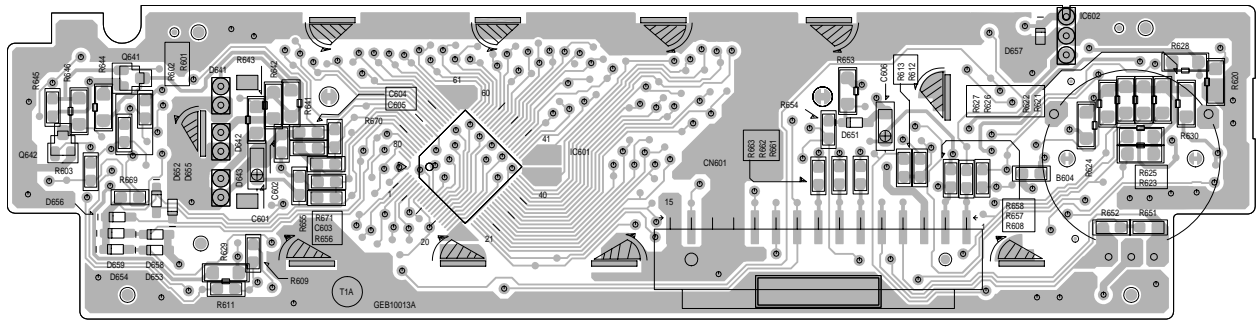


4

3

■ Front board (Reverse side)

2



1

Note:KD-SX875/KD-SX975/KD-SX870/KD-SX770

PARTS LIST

[KD-SX975]
[KD-SX875]

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

Area suffix

U ----- Other Areas

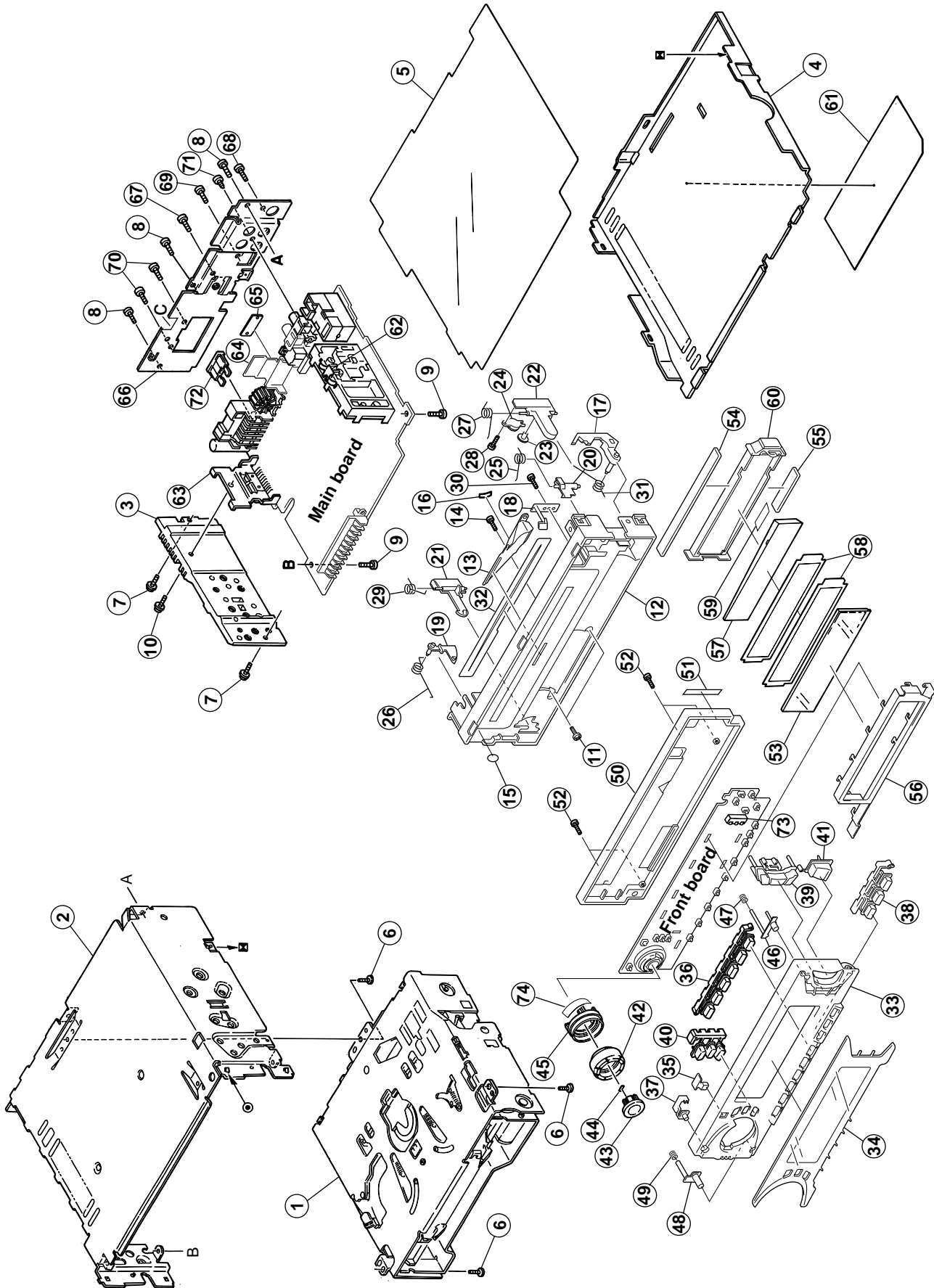
- Contents -

Exploded view of general assembly and parts list	3- 2
CD mechanism assembly and parts list	3- 5
Electrical parts list	3- 8
Packing materials and accessories parts list	3-14

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	-----	CD MECHA	1		
	2	FSJC1029-401	TOP CHASSIS	1		
	3	FSMH3001-204	HEAT SINK	1		
	4	FSKM3011-002	BOTTOM COVER	1		
	5	FSMA3005-001	INSULATOR	1		
	6	QYSDST2604Z	SCREW	3	CHASSIS+CD MECHA	
	7	FSKZ4005-001	SCREW	2	CHASSIS+SIDE PAN	
	8	QYSDST2604Z	SCREW	3	CHASSIS+REAR BK	
	9	QYSDST2606Z	SCREW	2	CHASSIS+MAIN PW	
	10	FSKZ4005-001	SCREW	1	SIDE PANEL+IC B	
	11	QYSDSF2006M	SCREW	2	F.CHASSIS+CONECTOR	
	12	FSJC1061-002	FRONT CHASSIS	1		
	13	VJK3709-002	LIGHT LENS	1		
	14	VKZ4777-001	MINI SCREW	1	L.LENS+F.CHASSIS	
	15	FSYH4036-057	SHEET	1		
	16	FSYH4036-055	SHEET	1	LIGHT LENS	
	17	FSKS3014-001	OPEN LEVER	1		
	18	FSKS3015-001	LOCK LEVER(O.L)	1		
	19	VKS3798-002	RELEASE LEVER	1		
	20	VKS3793-001	LOCK LEVER(TOP)	1		
	21	VKS3794-003	LOCK LEVER(L)	1		
	22	VKS3795-002	LOCK LEVER(R)	1		
	23	VKS5563-001	GEAR	1		
	24	VKZ4786-002	OIL DAMPER	1		
	25	FSKW4012-001	T.SPRING	1	FOR L.LEVER(TOP)	
	26	VKW5264-005	T.SPRING	1	FOR RELEASE LEV	
	27	VKW5262-001	T.SPRING	1	FOR L.LEVER(R)	
	28	QYSDSF2006M	SCREW	1	DAMPER+L.LEVER(R)	
	29	VKW5263-002	T.SPRING	1	FOR L.LEVER(L)	
	30	VKZ4777-001	MINI SCREW	1	LOCK LEVER(O.L.)	
	31	FSKW4013-002	T.SPRING	1	FOR OPEN LEVER	
	32	VYTA526-002	BLIND	1		
	33	GE10005-001A	FRONT PANEL	1	KD-SX875	
		GE10005-002A	FRONT PANEL	1	KD-SX975	
	34	GE30113-008A	FINDER ASSY	1	KD-SX975	
		GE30113-009A	FINDER LENS	1	KD-SX875	
	35	FSJK4009-001	REMOTE LENS	1	FOR REMOTE CON.	
	36	GE20104-001B	PRESET BUTTON	1	1-6 (2 COLOUR)	
	37	GE30105-002B	POWER BUTTON	1		
	38	GE30106-004A	SND FUNC BTN	1		
	39	GE20110-003C	D.FUNC BUTTON	1		
	40	GE20103-001A	PUSH BUTTON(3)	1		
	41	GE20109-001C	UP DOWN BUTTON	1		
	42	GE30103-001B	KNOB	1	JOG DIAL	
	43	GE30102-002A	SEL BUTTON	1		
	44	FSYH4036-032	SHEET	1	SEL BTN	
	45	GE30104-001A	RIM LENS	1	FOR KNOB	
	46	GE30115-002A	EJECT BUTTON	1		

■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	47	VKW3001-330	COMP.SPRING	1	FOR EJECT BUTTO	
	48	GE30116-001A	DETACH BUTTON	1		
	49	VKW3001-330	COMP.SPRING	1	FOR DETACH BUTT	
	50	GE10006-001A	REAR COVER	1		
	51	FSYH4036-035	SHEET	1	REAR COVER	
	52	VKZ4777-001	MINI SCREW	4	FRONT+REAR	
	53	QLD0163-001	LCD MODULE	1		
	54	QNZ0449-001	RUBBER CONNECTO	1		
	55	QNZ0450-001	RUBBER CONNECTO	1		
	56	GE30114-001A	LCD CASE	1		
	57	FSJK3028-001	LCD LENS	1		
	58	FSYH4061-001	LIGHTNG SHEET	2		
	59	FSYH4036-052	SHEET	1		
	60	FSKS3013-001	LENS CASE	1		
	61	GE30155-002A	NAME PLATE	1	KD-SX975	
		GE30154-002A	NAME PLATE	1	KD-SX875	
	62	VMA4652-001SS	EARTH PLATE	1		
	63	FSKL4024-001	IC BRACKET	1		
	64	GE40103-001A	REG BRACKET	1		
	65	GE40104-002B	HEAT SINK	1		
	66	FSKM3010-017	REAR BRACKET	1		
	67	QYSDST2606Z	SCREW	1	REAR BKT+REG BK	
	68	QYSDST2606Z	SCREW	1	REAR BKT+ANT JACK	
	69	QYSDST2606Z	SCREW	1	REAR BKT+CD IN JACK	
	70	QYSDST2606Z	SCREW	2	REAR BKT+16P CO	
	71	QYSDSF3006Z	SCREW	1	REAR BKT+PIN JACK	
△	72	QMFZ047-150-T	FUSE	1		
	73	FSKS3017-002	LED HOLDER	1		
	74	GE40117-001A	LIGHT COVER	1	KD-SX975	

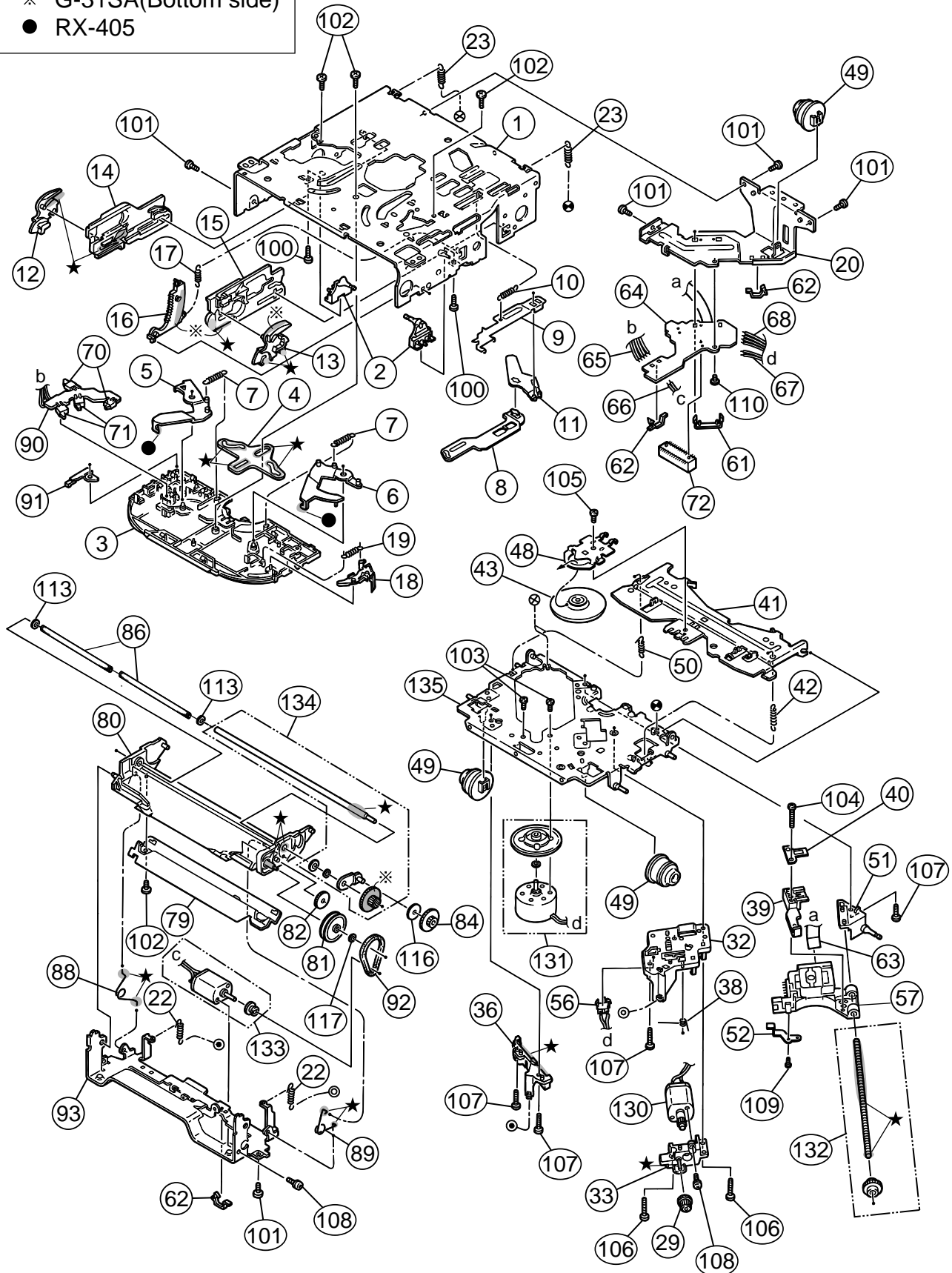
CD mechanism assembly and parts list

Grease

- ★ G-31SA
- ※ G-31SA(Bottom side)
- RX-405

TN-CCD1001Z-136J

Block No. M 2 M M



■ Parts list (CD mechanism)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	30310101T	FRAME	1		
	2	30310103T	DANPER PIN	2		
	3	30310107T	UPPER PLATE	1		
	4	30310108T	SEL STOP PLATE	1		
	5	30310142T	SEL ARM (L)L	1		
	6	30310143T	SEL ARM (R)L	1		
	7	30310145T	S ARM SPRING(L)	2		
	8	30310112T	TRIG LEVER	1		
	9	30310155T	TRIG PL(Z)	1		
	10	30310115T	TRIG PL SPRING	1		
	11	30310116T	TRIG ARM	1		
	12	30310134T	FIX ARM (L)B	1		
	13	30310159T	FIX ARM (R)Z	1		
	14	30310150T	FIX PL (L)Z	1		
	15	30310156T	FIX PL (R) Z	1		
	16	30310138T	LDG GR (6)B	1		
	17	30310122T	LDG GEAR (6)SP	1		
	18	30310148T	S.L ARM(N)	1		
	19	30310125T	S.L ARM SPRING	1		
	20	30310149T	REAR DAM BKT(Z)	1		
	22	30310151T	HUNG UP SP (FZ)	2		
	23	30310129T	HUNG UP SP (R)	2		
	29	30300510T	PU GEAR(B)	1		
	32	30310544T	F.M.BASE(Z)	1		
	33	30310547T	FD GR BLK(Z)	1		
	36	30310546T	PU GUIDE(Z)	1		
	38	30310533T	THRUST SPR(M)	1		
	39	30310548T	PU M NUT(Z)	1		
	40	30310512T	NUT PUSH SPR PL	1		
	41	30310558T	CLP ARM(Z)	1		
	42	30310514T	CLP ARM SPRING	1		
	43	30310552T	CLAMPER(Z)	1		
	48	30310557T	CLAMPER PLATE(Z)	1		
	49	30310524T	DAMPER (J)	3		
	50	30310525T	CLP ARM SPR (L)	1		
	51	30310545T	F SCREW GUIDE(Z)	1		
	52	30310556T	PU G.SP PLT(Z)	1		
	56	64180405T	DET SW	1	ESE11SF4	
	57	OPTIMA-720L1	C.D PICK (CAR)	1		
	61	30311035T	FPC HOLDER(Z)	1		
	62	19501403T	WIRE CLAMPER	3		
	63	30311037T	PICK UP FPC(Z)	1		
	64	30311036T	CONNECT.PCB(Z-J)	1		
	65	30311038T	WIRE (5P-Z)	1		
	66	30311039T	WIRE (LD-Z)	1		
	67	30311040T	WIRE (FD-Z)	1		
	68	30311041T	WIRE (RS-Z)	1		
	70	64180402T	DET SWITCH	2	ESE22MH1	

Parts list (CD mechanism)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	71	64180403T	DET SWITCH	2	ESE22MH3	
	72	68150232T	CONNECTOR	1	TKC-W26X-C1	
	79	30311105T	SOPPORT PLATE	1		
	80	30311138T	GR MT BLK(N)	1		
	81	30311109T	LDG GEAR (2)	1		
	82	30311110T	LDG GEAR (3)	1		
	84	30311112T	LDG GEAR (5)	1		
	86	30311136T	LDG ROLLER	2		
	88	30311118T	L.P SPRING (L)	1		
	89	30311119T	L.P SPRING (R)	1		
	90	30311123T	SW PCB	1		
	91	30311124T	SW ACTUATOR	1		
	92	30311129T	LDG BELT	1		
	93	30311140T	FRONT BRKT (J)	1		
	100	9C0620503T	C B TAP SCREW	2	M2X5	
	101	9C2020401T	C SCREW TS.G	5	M2X4	
	102	9C4320403T	C B TAP SCREW	4	M2X4	
	103	9C0117223T	SCREW	2	M1.7X2.2	
	104	9C0917703T	C TAP SCREW S3	1	M1.7X7	
	105	9C0320201T	C TAP SCREW S3	1	M2X2	
	106	9C4920013T	C TAP SCREW S3	2	M2X10	
	107	9C4920603T	C TAP SCREW B3	4	M2X6	
	108	9P0220031T	TAMS SCREW	2	M2X3	
	109	9C0314203T	C TAP SCREW	1	M1.4X2	
	110	9C0420253	C TAP SCREW	1	M2X2.5	
	113	9W0330276	NW BLUE	2	2.9X5X0.3	
	116	9W0725030T	LUMILAR W	1	2.3X9.8X0.25	
	117	9W0640030T	WASHER	1	1.4X3.2X0.4	
	130	303105310T	FEED MO ASSY	1		
	131	303105311T	SPINDLE MO ASSY	1		
	132	303105312T	FEED SCREW ASSY	1		
	133	303111301T	LDG MOTOR ASSY	1		
	134	303111302T	RDG RLR SFT ASY	1		
	135	303105502T	T.T.BASE ASSY	1		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	BZ871	QAN0009-001Z	BUZZER		
	C 1	NCB31EK-473X	C CAPACITOR		
	C 2	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 4	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 5	NCB31HK-103X	C CAPACITOR		
	C 6	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 7	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 11	NCS31HJ-331X	C CAPACITOR		
	C 12	NCB31EK-103X	C CAPACITOR		
	C 15	NDC31HJ-120X	C CAPACITOR		
	C 16	NCS31HJ-7R0X	C CAPACITOR		
	C 17	NCS31HJ-121X	C CAPACITOR		
	C 31	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 32	NCB31HK-102X	C CAPACITOR		
	C 33	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 34	QERF1HM-224Z	E CAPACITOR	.22MF 20% 50V	
	C 41	NCB31EK-563X	C CAPACITOR		
	C 42	NCB31HK-123X	C CAPACITOR		
	C 43	NCS31HJ-151X	C CAPACITOR		
	C 103	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 105	NCB31HK-223X	C CAPACITOR		
	C 111	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 112	NCS31HJ-821X	C CAPACITOR		
	C 113	NCS31HJ-121X	C CAPACITOR		
	C 115	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 116	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 203	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 205	NCB31HK-223X	C CAPACITOR		
	C 211	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 212	NCS31HJ-821X	C CAPACITOR		
	C 213	NCS31HJ-121X	C CAPACITOR		
	C 215	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 301	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 302	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 303	NCS31HJ-471X	C CAPACITOR		
	C 304	NCB31EK-104X	C CAPACITOR		
	C 305	NCB31HK-103X	C CAPACITOR		
	C 306	NCB31CK-104X	C CAPACITOR		
	C 307	NCB31HK-472X	C CAPACITOR		
	C 308	NCS31HJ-471X	C CAPACITOR		
	C 309	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 310	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 311	NCB31EK-472X	C CAPACITOR		
	C 312	NCB31AK-224X	C CAPACITOR		
	C 313	NCB31AK-224X	C CAPACITOR		
	C 321	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 322	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 323	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 331	QERF1HM-225Z	E CAPACITOR	KD-SX975	
	C 332	QERF1HM-225Z	E CAPACITOR	KD-SX975	
	C 341	QER41AM-107	E CAPACITOR	KD-SX975	
	C 342	QERF1EM-475Z	E CAPACITOR	KD-SX975	
	C 343	QER41AM-107	E CAPACITOR	KD-SX975	
	C 344	QERF1EM-475Z	E CAPACITOR	KD-SX975	
	C 345	QER41CM-476	E CAPACITOR	KD-SX975	
	C 346	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 347	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 348	QER41AM-107	E CAPACITOR	KD-SX975	
	C 351	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 352	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 353	NCS31HJ-391X	C CAPACITOR		
	C 354	NCS31HJ-391X	C CAPACITOR		
	C 355	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V	

△	Item	Parts number	Parts name	Remarks	Area
	C 356	NCB31HK-223X	C CAPACITOR		
	C 357	NCB31HK-223X	C CAPACITOR		
	C 358	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 359	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 361	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 362	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 372	NCS31HJ-271X	C CAPACITOR		
	C 401	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 402	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 403	NCS31HJ-471X	C CAPACITOR		
	C 404	NCB31EK-104X	C CAPACITOR		
	C 405	NCB31HK-103X	C CAPACITOR		
	C 406	NCB31CK-104X	C CAPACITOR		
	C 407	NCB31HK-472X	C CAPACITOR		
	C 408	NCS31HJ-471X	C CAPACITOR		
	C 409	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 411	NCB31EK-472X	C CAPACITOR		
	C 412	NCB31AK-224X	C CAPACITOR		
	C 413	NCB31AK-224X	C CAPACITOR		
	C 431	QERF1HM-225Z	E CAPACITOR	KD-SX975	
	C 432	QERF1HM-225Z	E CAPACITOR	KD-SX975	
	C 441	QER41AM-107	E CAPACITOR	KD-SX975	
	C 442	QERF1EM-475Z	E CAPACITOR	KD-SX975	
	C 443	QER41AM-107	E CAPACITOR	KD-SX975	
	C 444	QERF1EM-475Z	E CAPACITOR	KD-SX975	
	C 445	QER41CM-476	E CAPACITOR	KD-SX975	
	C 446	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 447	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 451	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 452	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 453	NCS31HJ-391X	C CAPACITOR		
	C 454	NCS31HJ-391X	C CAPACITOR		
	C 501	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 502	NCB31HK-103X	C CAPACITOR		
	C 503	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 504	NCB31HK-103X	C CAPACITOR		
	C 505	NCB31HK-103X	C CAPACITOR		
	C 506	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 507	NCB31HK-103X	C CAPACITOR		
	C 508	NCB31EK-104X	C CAPACITOR		
	C 509	NCB31EK-104X	C CAPACITOR		
	C 510	NCS31HJ-560X	C CAPACITOR		
	C 512	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 513	NCB31HK-103X	C CAPACITOR		
	C 514	NCS31HJ-101X	C CAPACITOR		
	C 521	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 522	NCB31HK-103X	C CAPACITOR		
	C 523	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 524	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 525	NCB31HK-103X	C CAPACITOR		
	C 526	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 531	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 532	NCB31HK-103X	C CAPACITOR		
	C 533	NCS31HJ-470X	C CAPACITOR		
	C 534	NCB31HK-153X	C CAPACITOR		
	C 535	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 536	NCB31HK-103X	C CAPACITOR		
	C 537	NCB31HK-272X	C CAPACITOR		
	C 538	NCB31HK-103X	C CAPACITOR		
	C 539	NCB31EK-333X	C CAPACITOR		
	C 540	NCB31HK-103X	C CAPACITOR		
	C 542	NCB31HK-332X	C CAPACITOR		
	C 543	NCS31HJ-561X	C CAPACITOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C 544	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 993	NCS31HJ-101X	C.CAPACITOR		
	C 545	NCB31EK-473X	C CAPACITOR				C 994	NCS31HJ-101X	C.CAPACITOR		
	C 546	NCB31EK-473X	C CAPACITOR				C 995	NCS31HJ-101X	C.CAPACITOR		
	C 547	NCB31EK-473X	C CAPACITOR				C 996	NCS31HJ-101X	C.CAPACITOR		
	C 549	NCB31EK-473X	C CAPACITOR				C 997	NCS31HJ-101X	C.CAPACITOR		
	C 551	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 998	NCS31HJ-101X	C.CAPACITOR		
	C 552	NCB31HK-103X	C CAPACITOR				CM702	NRSA02J-0R0X	MG RESISTOR		
	C 553	NCB31HK-103X	C CAPACITOR				CN501	QGB2027M1-26S	CONNECTOR		
	C 554	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V			CN701	QNZ0007-002	CAR CONNECTOR		
	C 555	NCB31HK-103X	C CAPACITOR				CN901	QNZ0002-001	16P CONNECTOR		
	C 558	NCS31HJ-101X	C.CAPACITOR				D 1	1SS133-T1	SI DIODE I/M		
	C 559	NCS31EJ-102X	C.CAPACITOR				D 2	1SS133-T1	SI DIODE I/M		
	C 560	NCS31HJ-270X	C CAPACITOR				D 3	1SS355-X	DIODE		
	C 571	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V			D 4	1SS355-X	DIODE		
	C 573	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V			D 31	UDZS10B-X	ZENER DIODE		
	C 574	NCB31HK-103X	C CAPACITOR				D 301	1SS355-X	DIODE		
	C 581	QER41AM-107	E CAPACITOR	100MF 20% 10V			D 302	1SS355-X	DIODE		
	C 582	NCB31HK-103X	C CAPACITOR				D 324	UDZS10B-X	ZENER DIODE		
	C 583	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V			D 351	1SS133-T1	SI DIODE I/M		
	C 699	NCB31EK-104X	C CAPACITOR				D 371	1SS355-X	DIODE		
	C 702	NCB31EK-104X	C CAPACITOR				D 372	1SS355-X	DIODE		
	C 703	NCB31EK-104X	C CAPACITOR				D 471	1SS355-X	DIODE		
	C 705	NDC31HJ-220X	C CAPACITOR				D 472	1SS355-X	DIODE		
	C 706	NDC31HJ-220X	C CAPACITOR				D 581	DSK10C-T1	DIODE		
	C 707	QEKJ0JM-227Z	E CAPACITOR	220MF 20% 6.3V			D 701	UDZS6.2B-X	ZENER DIODE		
	C 708	QER41AM-227	E CAPACITOR	220MF 20% 10V			D 702	UDZS6.2B-X	ZENER DIODE		
	C 709	NCB31EK-473X	C CAPACITOR				D 703	UDZS6.2B-X	ZENER DIODE		
	C 710	NCB31EK-104X	C CAPACITOR				D 704	UDZS5.6B-X	Z DIODE		
	C 711	NCB31EK-473X	C CAPACITOR				D 705	UDZS5.6B-X	Z DIODE		
	C 712	NCB31EK-103X	C CAPACITOR				D 706	UDZS5.6B-X	Z DIODE		
	C 713	NCB31EK-103X	C CAPACITOR				D 707	UDZS5.6B-X	Z DIODE		
	C 714	NCB31HK-103X	C CAPACITOR				D 708	UDZS5.6B-X	Z DIODE		
	C 771	NCB31EK-473X	C CAPACITOR				D 709	UDZS5.6B-X	Z DIODE		
	C 772	NCB31HK-103X	C CAPACITOR				D 710	UDZS5.6B-X	Z DIODE		
	C 872	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V			D 891	1SS355-X	DIODE		
	C 873	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			D 892	1SS355-X	DIODE		
	C 891	NCB31EK-473X	C CAPACITOR				D 951	1SS133-T1	SI DIODE I/M		
	C 914	QER41CM-106	E CAPACITOR	10MF 20% 16V			D 952	1SS133-T1	SI DIODE I/M		
	C 951	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 960	1N5401-TU-15	DIODE		
	C 952	NCB31EK-473X	C CAPACITOR				D 961	1SS355-X	DIODE		
	C 953	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V			D 962	CRS03-W	SB DIODE		
	C 954	QEKJ1HM-224Z	E CAPACITOR	.22MF 20% 50V			D 963	CRS03-W	SB DIODE		
	C 960	QEZ0337-228	E CAPACITOR	2200MF			D 964	CRS03-W	SB DIODE	KD-SX975	
	C 961	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			D 965	CRS03-W	SB DIODE	KD-SX975	
	C 962	QER41CM-476	E CAPACITOR	47MF 20% 16V			D 976	1SS133-T1	SI DIODE I/M		
	C 963	QER41CM-106	E CAPACITOR	10MF 20% 16V			D 977	UDZ11B-X	Z.DIODE		
	C 964	QER41CM-106	E CAPACITOR	10MF 20% 16V			IC111	NJM4565M-WE	IC		
	C 965	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V			IC301	BD3860K	IC		
	C 966	NCB31HK-103X	C CAPACITOR				IC341	BA3220FV-X	IC	KD-SX975	
	C 967	QER41AM-227	E CAPACITOR	220MF 20% 10V			IC351	LA4743K	IC		
	C 968	QER41AM-227	E CAPACITOR	220MF 20% 10V			IC441	BA3220FV-X	IC	KD-SX975	
	C 969	QER41AM-227	E CAPACITOR	220MF 20% 10V			IC501	TA2109F-X	IC		
	C 970	NCB31EK-104X	C CAPACITOR				IC521	TC9462F	IC		
	C 971	QERF1CM-226Z	E CAPACITOR	KD-SX975			IC581	LA6567H-X	IC		
	C 975	NCB31EK-103X	C CAPACITOR				IC701	UPD178078GF-543	MICON IC		
	C 976	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V			IC771	HD74HC126FP-X	IC		
	C 977	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V			IC961	HA13164	IC		
	C 981	NCB31EK-104X	C CAPACITOR				J 1	QNB0100-001	CAR ANT JACK		
	C 982	NCB31EK-104X	C CAPACITOR				J 771	QNZ0095-001	CONNECTOR		
	C 983	NCB31EK-104X	C CAPACITOR				J 931	QNN0176-001	PIN JACK	KD-SX975	
	C 984	NCB31EK-104X	C CAPACITOR				J 931	QNN0175-001	PIN JACK	KD-SX875	
	C 991	NCS31HJ-101X	C.CAPACITOR				L 1	QQL244J-330Z	INDUCTOR		
	C 992	NCS31HJ-101X	C.CAPACITOR				L 521	QQL244J-4R7Z	INDUCTOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	L 551	QQL244J-4R7Z	INDUCTOR		
	L 701	QQL244J-4R7Z	INDUCTOR		
	L 702	QQL244J-4R7Z	INDUCTOR		
	L 961	QQR0703-001	CHOKE COIL		
	PL701	QLL0033-001	PILOT LAMP		
	Q 2	UN2211-X	TRANSISTOR		
	Q 5	2SB709A/R/-X	TRANSISTOR		
	Q 6	2SB1197K/QR/-X	TRANSISTOR		
	Q 8	UN2211-X	TRANSISTOR		
	Q 31	2SD601A/R/-X	TRANSISTOR		
	Q 32	2SD601A/R/-X	TRANSISTOR		
	Q 41	2SC3661-X	TRANSISTOR		
	Q 42	2SC3661-X	TRANSISTOR		
	Q 351	UN2211-X	TRANSISTOR		
	Q 371	2SD1048/6-7/-X	TRANSISTOR		
	Q 372	2SD1048/6-7/-X	TRANSISTOR		
	Q 471	2SD1048/6-7/-X	TRANSISTOR		
	Q 472	2SD1048/6-7/-X	TRANSISTOR		
	Q 501	2SB1322/RS/-T	TRANSISTOR		
	Q 581	2SB1322/RS/-T	TRANSISTOR		
	Q 871	UN2211-X	TRANSISTOR		
	Q 891	UN2211-X	TRANSISTOR		
	Q 951	2SD601A/R/-X	TRANSISTOR		
	Q 963	2SB709A/R/-X	TRANSISTOR		
	Q 964	UN2211-X	TRANSISTOR		
	Q 971	UN2211-X	TRANSISTOR	KD-SX975	
	Q 976	UN2111-X	TRANSISTOR		
	Q 977	UN2111-X	TRANSISTOR		
	R 1	NRSA63J-0R0X	MG RESISTOR		
	R 2	NRSA63J-223X	MG RESISTOR		
	R 4	NRSA63J-103X	MG RESISTOR		
	R 5	NRSA02J-222X	MG RESISTOR		
	R 6	NRS181J-8R2X	MG RESISTOR		
	R 7	NRSA63J-103X	MG RESISTOR		
	R 8	NRSA63J-102X	MG RESISTOR		
	R 9	NRSA63J-473X	MG RESISTOR		
	R 11	NRSA02J-100X	MG RESISTOR		
	R 31	NRSA63J-152X	MG RESISTOR		
	R 32	NRSA63J-102X	MG RESISTOR		
	R 33	NRSA02J-103X	MG RESISTOR		
	R 34	NRSA02J-471X	MG RESISTOR		
	R 35	NRSA63J-102X	MG RESISTOR		
	R 41	NRSA63J-102X	MG RESISTOR		
	R 42	NRSA63J-392X	MG RESISTOR		
	R 43	NRSA02J-102X	MG RESISTOR		
	R 45	NRSA63J-102X	MG RESISTOR		
	R 101	NRSA63J-122X	MG RESISTOR		
	R 102	NRSA63J-472X	MG RESISTOR		
	R 111	NRSA63J-243X	MG RESISTOR		
	R 112	NRSA63J-333X	MG RESISTOR		
	R 113	NRSA63J-123X	MG RESISTOR		
	R 115	NCB31AK-474X	C CAPACITOR		
	R 116	NRSA63J-223X	MG RESISTOR		
	R 117	NRSA63J-223X	MG RESISTOR		
	R 201	NRSA63J-122X	MG RESISTOR		
	R 202	NRSA63J-472X	MG RESISTOR		
	R 211	NRSA63J-243X	MG RESISTOR		
	R 212	NRSA63J-333X	MG RESISTOR		
	R 213	NRSA63J-123X	MG RESISTOR		
	R 215	NCB31AK-474X	C CAPACITOR		
	R 216	NRSA63J-223X	MG RESISTOR		
	R 217	NRSA63J-223X	MG RESISTOR		
	R 301	NRSA63J-224X	MG RESISTOR		

△	Item	Parts number	Parts name	Remarks	Area
	R 302	NRSA63J-224X	MG RESISTOR		
	R 303	NRSA63J-682X	MG RESISTOR		
	R 304	NRSA63J-105X	MG RESISTOR		
	R 305	NRSA63J-332X	MG RESISTOR		
	R 321	NRSA63J-222X	MG RESISTOR		
	R 322	NRSA63J-222X	MG RESISTOR		
	R 323	NRSA63J-0R0X	MG RESISTOR	KD-SX875	
	R 324	NRSA63J-0R0X	MG RESISTOR	KD-SX875	
	R 331	NRSA63J-103X	MG RESISTOR	KD-SX975	
	R 332	NRSA63J-103X	MG RESISTOR	KD-SX975	
	R 341	NRSA63J-333X	MG RESISTOR	KD-SX975	
	R 342	NRSA63J-273X	MG RESISTOR	KD-SX975	
	R 343	NRSA63J-333X	MG RESISTOR	KD-SX975	
	R 344	NRSA63J-273X	MG RESISTOR	KD-SX975	
	R 345	NRSA63J-154X	MG RESISTOR	KD-SX975	
	R 346	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 346	NRSA63J-103X	MG RESISTOR	KD-SX875	
	R 347	NRSA63J-103X	MG RESISTOR	KD-SX875	
	R 347	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 351	NRSA63J-683X	MG RESISTOR	KD-SX975	
	R 351	NRSA63J-273X	MG RESISTOR	KD-SX875	
	R 352	NRSA63J-273X	MG RESISTOR	KD-SX875	
	R 352	NRSA63J-683X	MG RESISTOR	KD-SX975	
	R 353	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 354	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 356	NRSA02J-103X	MG RESISTOR		
	R 357	NRSA63J-0R0X	MG RESISTOR		
	R 358	NRSA02J-473X	MG RESISTOR		
	R 359	NRSA63J-0R0X	MG RESISTOR		
	R 360	NRSA63J-0R0X	MG RESISTOR		
	R 371	NRSA02J-821X	MG RESISTOR		
	R 372	NRSA02J-821X	MG RESISTOR		
	R 373	NRSA02J-222X	MG RESISTOR		
	R 374	NRSA63J-222X	MG RESISTOR		
	R 375	NRSA02J-101X	MG RESISTOR		
	R 376	NRSA02J-101X	MG RESISTOR		
	R 401	NRSA63J-224X	MG RESISTOR		
	R 402	NRSA63J-224X	MG RESISTOR		
	R 403	NRSA63J-682X	MG RESISTOR		
	R 405	NRSA63J-332X	MG RESISTOR		
	R 423	NRSA63J-0R0X	MG RESISTOR	KD-SX875	
	R 424	NRSA63J-0R0X	MG RESISTOR	KD-SX875	
	R 431	NRSA63J-103X	MG RESISTOR	KD-SX975	
	R 432	NRSA63J-103X	MG RESISTOR	KD-SX975	
	R 441	NRSA63J-333X	MG RESISTOR	KD-SX975	
	R 442	NRSA63J-273X	MG RESISTOR	KD-SX975	
	R 443	NRSA63J-333X	MG RESISTOR	KD-SX975	
	R 444	NRSA63J-273X	MG RESISTOR	KD-SX975	
	R 445	NRSA63J-154X	MG RESISTOR	KD-SX975	
	R 446	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 446	NRSA63J-103X	MG RESISTOR	KD-SX875	
	R 447	NRSA63J-103X	MG RESISTOR	KD-SX875	
	R 447	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 451	NRSA63J-683X	MG RESISTOR	KD-SX975	
	R 451	NRSA63J-273X	MG RESISTOR	KD-SX875	
	R 452	NRSA63J-273X	MG RESISTOR	KD-SX875	
	R 452	NRSA63J-683X	MG RESISTOR	KD-SX975	
	R 453	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 454	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 471	NRSA02J-821X	MG RESISTOR		
	R 472	NRSA02J-821X	MG RESISTOR		
	R 473	NRSA63J-222X	MG RESISTOR		
	R 474	NRSA63J-222X	MG RESISTOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R 475	NRSA02J-101X	MG RESISTOR		
	R 476	NRSA02J-101X	MG RESISTOR		
	R 501	NRSA63J-473X	MG RESISTOR		
	R 502	NRSA63J-473X	MG RESISTOR		
	R 503	NRSA63J-473X	MG RESISTOR		
	R 504	NRSA63J-473X	MG RESISTOR		
	R 505	NRSA63J-104X	MG RESISTOR		
	R 506	NRSA63J-104X	MG RESISTOR		
	R 507	NRSA02J-220X	MG RESISTOR		
	R 508	NRSA02J-220X	MG RESISTOR		
	R 509	NRSA63J-333X	MG RESISTOR		
	R 510	NRSA63J-473X	MG RESISTOR		
	R 511	NRSA63J-222X	MG RESISTOR		
	R 512	NRSA63J-153X	MG RESISTOR		
	R 513	NRSA63J-682X	MG RESISTOR		
	R 514	NRSA63J-473X	MG RESISTOR		
	R 521	NRSA63J-472X	MG RESISTOR		
	R 522	NRSA63J-472X	MG RESISTOR		
	R 523	NRSA63J-472X	MG RESISTOR		
	R 524	NRSA63J-472X	MG RESISTOR		
	R 525	NRSA63J-103X	MG RESISTOR		
	R 531	NRSA63J-103X	MG RESISTOR		
	R 532	NRSA63J-473X	MG RESISTOR		
	R 533	NRSA63J-683X	MG RESISTOR		
	R 534	NRSA63J-474X	MG RESISTOR		
	R 536	NRSA63J-333X	MG RESISTOR		
	R 537	NRSA63J-103X	MG RESISTOR		
	R 541	NRSA63J-152X	MG RESISTOR		
	R 542	NRSA63J-153X	MG RESISTOR		
	R 543	NRSA63J-332X	MG RESISTOR		
	R 544	NRSA63J-332X	MG RESISTOR		
	R 545	NRSA63J-682X	MG RESISTOR		
	R 547	NRSA63J-152X	MG RESISTOR		
	R 556	NRSA02J-331X	MG RESISTOR		
	R 571	NRS181J-101X	MG RESISTOR		
	R 581	NRSA63J-203X	MG RESISTOR		
	R 582	NRSA63J-822X	MG RESISTOR		
	R 583	NRSA63J-242X	MG RESISTOR		
	R 584	NRSA63J-562X	MG RESISTOR		
	R 585	NRSA02J-822X	MG RESISTOR		
	R 586	NRSA02J-203X	MG RESISTOR		
	R 685	NRSA63J-105X	MG RESISTOR		
	R 686	NRSA63J-105X	MG RESISTOR		
	R 701	NRSA63J-472X	MG RESISTOR		
	R 702	NRSA63J-472X	MG RESISTOR		
	R 703	NRSA63J-472X	MG RESISTOR		
	R 704	NRSA63J-473X	MG RESISTOR		
	R 706	NRSA63J-222X	MG RESISTOR		
	R 707	NRSA63J-222X	MG RESISTOR		
	R 708	NRSA63J-0R0X	MG RESISTOR		
	R 709	NRSA63J-222X	MG RESISTOR		
	R 710	NRSA63J-473X	MG RESISTOR		
	R 711	NRSA63J-473X	MG RESISTOR		
	R 712	NRSA63J-473X	MG RESISTOR		
	R 713	NRSA63J-473X	MG RESISTOR		
	R 714	NRSA63J-103X	MG RESISTOR		
	R 715	NRSA63J-103X	MG RESISTOR		
	R 716	NRSA63J-103X	MG RESISTOR		
	R 717	NRSA63J-103X	MG RESISTOR		
	R 718	NRSA63J-472X	MG RESISTOR		
	R 719	NRSA63J-103X	MG RESISTOR		
	R 720	NRSA63J-472X	MG RESISTOR		
	R 721	NRSA63J-103X	MG RESISTOR		
	R 722	NRSA63J-472X	MG RESISTOR		
	R 724	NRSA63J-473X	MG RESISTOR		
	R 725	NRSA63J-473X	MG RESISTOR		
	R 726	NRSA63J-0R0X	MG RESISTOR		
	R 727	NRSA63J-0R0X	MG RESISTOR		

△	Item	Parts number	Parts name	Remarks	Area
	R 729	NRSA63J-473X	MG RESISTOR		
	R 731	NRSA63J-473X	MG RESISTOR		
	R 732	NRSA63J-103X	MG RESISTOR		
	R 733	NRSA63J-473X	MG RESISTOR		
	R 734	NRSA63J-104X	MG RESISTOR		
	R 735	NRSA63J-103X	MG RESISTOR		
	R 737	NRS181J-511X	MG RESISTOR		
	R 744	NRSA63J-222X	MG RESISTOR		
	R 745	NRSA63J-222X	MG RESISTOR		
	R 746	NRSA63J-103X	MG RESISTOR		
	R 747	NRSA63J-472X	MG RESISTOR		
	R 749	NRSA63J-0R0X	MG RESISTOR	KD-SX975	
	R 750	NRSA63J-122X	MG RESISTOR		
	R 751	NRSA63J-103X	MG RESISTOR		
	R 752	NRSA63J-103X	MG RESISTOR		
	R 753	NRSA63J-473X	MG RESISTOR		
	R 754	NRSA63J-102X	MG RESISTOR		
	R 755	NRSA63J-122X	MG RESISTOR		
	R 756	NRSA63J-472X	MG RESISTOR		
	R 757	NRSA63J-102X	MG RESISTOR		
	R 758	NRSA63J-103X	MG RESISTOR		
	R 759	NRSA63J-473X	MG RESISTOR		
	R 760	NRSA63J-103X	MG RESISTOR		
	R 761	NRSA63J-103X	MG RESISTOR		
	R 762	NRSA63J-103X	MG RESISTOR		
	R 763	NRSA63J-103X	MG RESISTOR		
	R 764	NRSA63J-473X	MG RESISTOR		
	R 765	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 766	NRSA63J-473X	MG RESISTOR	KD-SX875	
	R 768	NRSA63J-473X	MG RESISTOR		
	R 769	NRSA63J-101X	MG RESISTOR		
	R 772	NRSA63J-473X	MG RESISTOR		
	R 773	NRSA63J-223X	MG RESISTOR		
	R 774	NRSA63J-101X	MG RESISTOR		
	R 775	NRSA63J-103X	MG RESISTOR		
	R 776	NRSA63J-104X	MG RESISTOR		
	R 777	NRSA63J-223X	MG RESISTOR		
	R 778	NRSA63J-101X	MG RESISTOR		
	R 779	NRSA63J-473X	MG RESISTOR		
	R 781	NRSA63J-331X	MG RESISTOR		
	R 782	NRSA63J-104X	MG RESISTOR		
	R 871	NRSA63J-222X	MG RESISTOR		
	R 891	NRSA63J-473X	MG RESISTOR		
	R 892	NRSA63J-102X	MG RESISTOR		
	R 914	NRSA02J-103X	MG RESISTOR	KD-SX975	
	R 951	NRSA63J-473X	MG RESISTOR		
	R 952	NRSA63J-123X	MG RESISTOR		
	R 953	NRSA63J-184X	MG RESISTOR		
	R 954	NRSA63J-223X	MG RESISTOR		
	R 955	NRSA63J-101X	MG RESISTOR		
	R 956	NRSA63J-102X	MG RESISTOR		
	R 957	NRSA63J-563X	MG RESISTOR		
	R 961	QRZ0125-102X	C RESISTOR	1.0K 1/1W	
	R 962	NRSA02J-912X	MG RESISTOR		
	R 963	NRSA02J-472X	MG RESISTOR		
	R 966	NRSA63J-103X	MG RESISTOR		
	R 967	NRSA63J-273X	MG RESISTOR		
	R 968	NRS181J-222X	MG RESISTOR		
	R 969	NRS181J-222X	MG RESISTOR		
	R 971	NRSA63J-472X	MG RESISTOR	KD-SX975	
	R 972	NRSA63J-473X	MG RESISTOR	KD-SX975	
	S 701	QSW0923-001	DETECT SW	DETACH	
	S 702	QSW0923-001	DETECT SW	OPEN	
	S 703	QSW0534-001	DETECT SW	RESET	
	TU 1	QAU0223-001	TUNER		
	X 521	QAX0662-001Z	C RESONATOR		
	X 701	QAX0406-001Z	CRYSTAL		

■ Electrical parts list (Front board)

Block No. 02

△	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 606	NBE20JM-475X	TS E CAPACITOR		
	CN601	QNZ0006-001	CAR CONNECTOR		
	D 601	SML-310LT/MN/-X	LED		
	D 602	SML-310VT/JK/-X	LED	KD-SX975	
	D 602	LNJ308G81/1-3/X	LED	KD-SX875	
	D 603	LNJ308G81/1-3/X	LED	KD-SX875	
	D 603	SML-310VT/JK/-X	LED	KD-SX975	
	D 604	SML-310VT/JK/-X	LED	KD-SX975	
	D 604	LNJ308G81/1-3/X	LED	KD-SX875	
	D 605	LNJ308G81/1-3/X	LED		
	D 606	LNJ308G81/1-3/X	LED		
	D 607	LNJ308G81/1-3/X	LED		
	D 608	LNJ308G81/1-3/X	LED		
	D 609	LNJ308G81/1-3/X	LED		
	D 610	LNJ308G81/1-3/X	LED		
	D 611	LNJ308G81/1-3/X	LED	KD-SX875	
	D 612	LNJ308G81/1-3/X	LED	KD-SX875	
	D 613	LNJ308G81/1-3/X	LED	KD-SX875	
	D 613	CL-190UB-X-X	LED	KD-SX975	
	D 614	LNJ308G81/1-3/X	LED		
	D 615	LNJ308G81/1-3/X	LED		
	D 616	LNJ308G81/1-3/X	LED		
	D 617	LNJ308G81/1-3/X	LED		
	D 618	LNJ308G81/1-3/X	LED		
	D 619	SML-310YT/JKL/X	YELLOW LED		
	D 620	SML-310YT/JKL/X	YELLOW LED		
	D 621	SML-310DT/KL/-X	LED		
	D 622	LNJ308G81/1-3/X	LED		
	D 623	LNJ308G81/1-3/X	LED		
	D 624	CL-190UB-X-X	LED	KD-SX975	
	D 628	LNJ308G81/1-3/X	LED		
	D 629	LNJ308G81/1-3/X	LED		
	D 641	NSPW310BS/BRS/	LED		
	D 642	NSPW310BS/BRS/	LED		
	D 643	NSPW310BS/BRS/	LED		
	D 651	UDZS5.1B-X	Z 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	UDZS5.6B-X	Z DIODE		
	D 658	1SS355-X	DIODE		
	D 659	1SS355-X	DIODE		
	EN601	QSW0793-001	ROTARY ENCODER		
	IC601	LC75873NW	IC		
	IC602	RPM6938-SV4	IC		
	Q 641	2SB815/7/-X	TRANSISTOR	KD-SX975	
	Q 642	UN2211-X	TRANSISTOR	KD-SX975	
	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-272X	MG RESISTOR		
	R 606	NRSA63J-821X	MG RESISTOR		
	R 607	NRSA63J-821X	MG RESISTOR		
	R 608	NRSA63J-122X	MG RESISTOR		
	R 609	NRSA63J-182X	MG RESISTOR		

△	Item	Parts number	Parts name	Remarks	Area
	R 611	NRSA63J-272X	MG RESISTOR		
	R 612	NRSA63J-821X	MG RESISTOR		
	R 613	NRSA63J-821X	MG RESISTOR		
	R 614	NRSA63J-122X	MG RESISTOR		
	R 615	NRSA63J-182X	MG RESISTOR		
	R 616	NRSA63J-272X	MG RESISTOR		
	R 617	NRSA63J-392X	MG RESISTOR		
	R 620	NRS181J-471X	MG RESISTOR		
	R 621	NRS181J-271X	MG RESISTOR	KD-SX875	
	R 621	NRS181J-681X	MG RESISTOR	KD-SX975	
	R 622	NRS181J-271X	MG RESISTOR		
	R 623	NRS181J-271X	MG RESISTOR		
	R 624	NRS181J-391X	MG RESISTOR	KD-SX875	
	R 625	NRS181J-431X	MG RESISTOR		
	R 626	NRS181J-271X	MG RESISTOR		
	R 627	NRS181J-391X	MG RESISTOR		
	R 628	NRS181J-561X	MG RESISTOR		
	R 629	NRS181J-511X	MG RESISTOR		
	R 630	NRS181J-821X	MG RESISTOR	KD-SX975	
	R 630	NRS181J-511X	MG RESISTOR	KD-SX875	
	R 641	NRS181J-471X	MG RESISTOR		
	R 642	NRS181J-471X	MG RESISTOR		
	R 643	NRS181J-471X	MG RESISTOR		
	R 644	NRS181J-471X	MG RESISTOR	KD-SX975	
	R 644	NRS181J-0R0X	MG RESISTOR	KD-SX875	
	R 645	NRSA63J-473X	MG RESISTOR	KD-SX975	
	R 646	NRS181J-102X	MG RESISTOR	KD-SX975	
	R 650	NRSA02J-101X	MG RESISTOR		
	R 651	NRSA63J-473X	MG RESISTOR		
	R 652	NRSA63J-473X	MG RESISTOR		
	R 653	NRS181J-102X	MG RESISTOR		
	R 654	NRSA02J-221X	MG RESISTOR		
	R 655	NRSA02J-394X	MG RESISTOR		
	R 656	NRSA63J-334X	MG RESISTOR		
	R 657	NRSA63J-103X	MG RESISTOR		
	R 658	NRSA63J-470X	MG RESISTOR		
	R 661	NRSA63J-332X	MG RESISTOR		
	R 662	NRSA63J-332X	MG RESISTOR		
	R 663	NRSA63J-332X	MG RESISTOR		
	R 669	NRSA63J-103X	MG RESISTOR		
	R 670	NRSA63J-103X	MG RESISTOR		
	R 671	NRSA63J-103X	MG RESISTOR		
	S 601	NSW0066-001X	TACT SWITCH		
	S 602	NSW0066-001X	TACT SWITCH		
	S 603	NSW0066-001X	TACT SWITCH		
	S 604	NSW0066-001X	TACT SWITCH		
	S 605	NSW0066-001X	TACT SWITCH		
	S 606	NSW0066-001X	TACT SWITCH		
	S 607	NSW0066-001X	TACT SWITCH		
	S 608	NSW0066-001X	TACT SWITCH		
	S 609	NSW0066-001X	TACT SWITCH		
	S 610	NSW0066-001X	TACT SWITCH		
	S 611	NSW0066-001X	TACT SWITCH		
	S 613	NSW0066-001X	TACT SWITCH		
	S 614	NSW0066-001X	TACT SWITCH		
	S 615	NSW0066-001X	TACT SWITCH		
	S 616	NSW0066-001X	TACT SWITCH		
	S 617	NSW0066-001X	TACT SWITCH		
	S 618	NSW0066-001X	TACT SWITCH		
	S 619	NSW0066-001X	TACT SWITCH		
	S 620	NSW0066-001X	TACT SWITCH		

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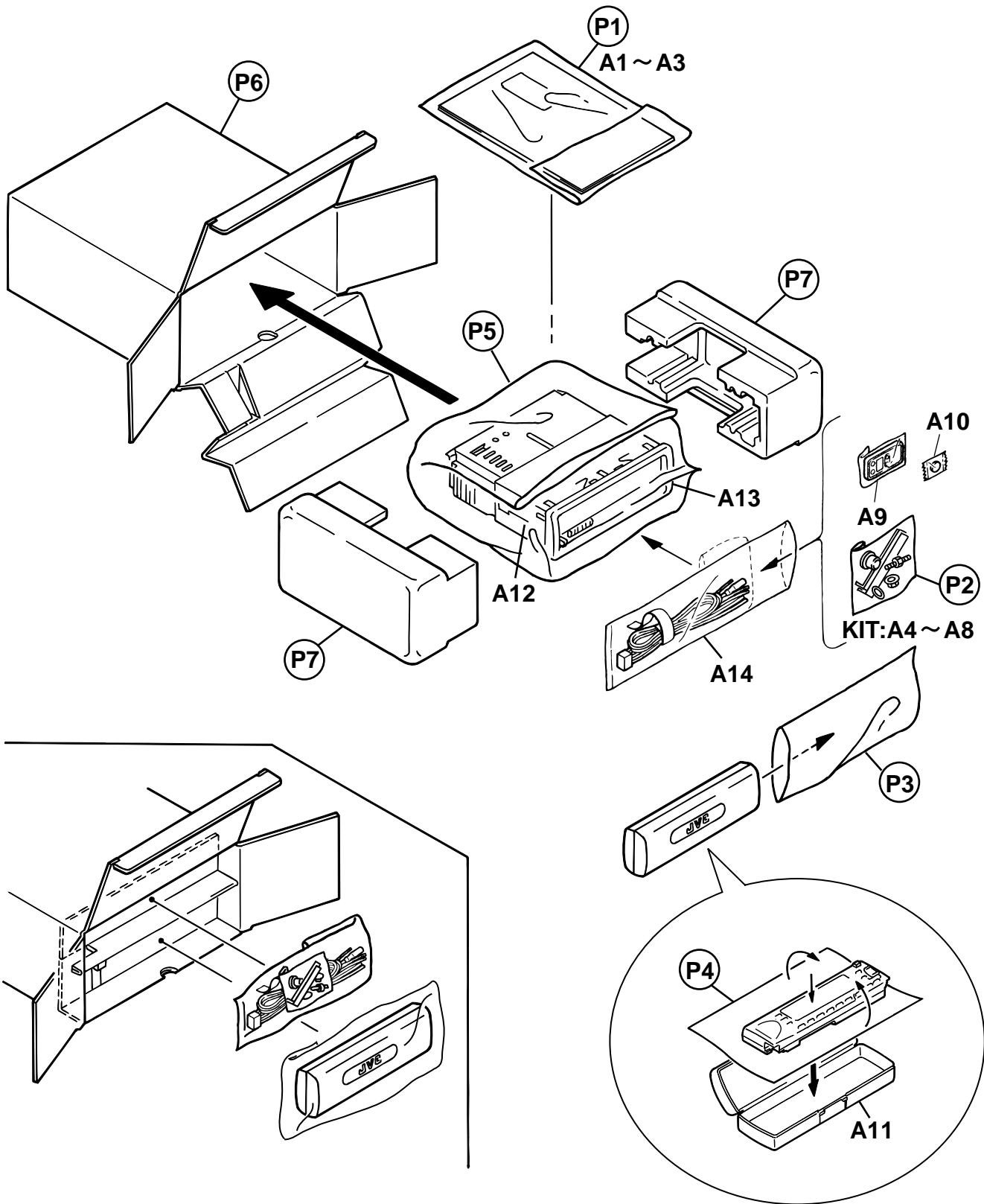
Packing materials and accessories parts list

Block No.

M	3	M	M
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Block No.

M	4	M	M
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■ Parts list (Packing)

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	FSPG4002-001	POLY BAG	1	FOR INST. BOOK	
	P 2	QPA00801205	POLY BAG	1		
	P 3	QPA01003003	POLY BAG	1		
	P 4	FSYH4036-068	SHEET	1		
	P 5	QPC03004315P	POLY BAG	1		
	P 6	GE30123-020A	CARTON	1	KD-SX975	
		GE30123-019A	CARTON	1	KD-SX875	
	P 7	GE10008-001A	EPS CUSHION	2		

■ Parts list (Accessories)

Block No. M4MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GET0020-001A	INST.BOOK	1	ENG,CHI,ARA,THA	
	A 2	GET0020-002A	INSTALL MANUAL	1	ENG,CHI,ARA	
	A 3	GET0020-003A	INSTALL MANUAL	1	THA	
	A 4	VKZ4027-202	PLUG NUT	1		
	A 5	VKH4871-001SS	MOUNT BOLT	1		
	A 6	VKZ4328-001	LOCK NUT	1		
	A 7	WNS5000Z	WASHER	1		
	A 8	FSKL4010-002	HOOK	2		
	A 9	RM-RK31	REMOCON	1		
	A 10	QAB0014-001	BATTERY	1		
	A 11	FSJB3001-30C	HARD CASE	1		
	A 12	FSKM2004-202	MOUNTING SLEEVE	1		
	A 13	FSJD2034-002	TRIM PLATE	1	KD-SX975	
		FSJD2034-004	TRIM PLATE	1	KD-SX875	
	A 14	QAM0307-001	16 CORD ASSY	1	KD-SX875	
		QAM0308-001	16 CORD ASSY	1	KD-SX975	
	KIT	KDGS717K-SCREW1	SCREW PARTS KIT	1	A4-A8	