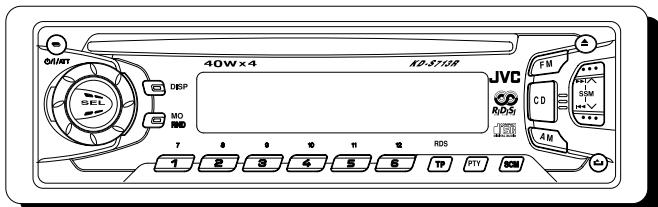


# JVC

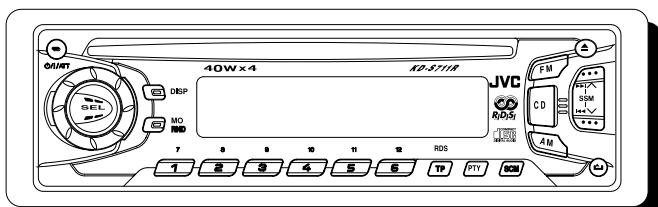
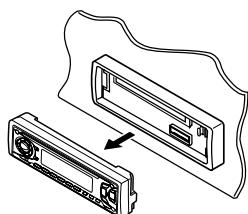
## SERVICE MANUAL

### CD RECEIVER

# KD-S713R / KD-S711R



Area Suffix  
E ---- Continental Europe



**COMPACT**  
**DISC**  
DIGITAL AUDIO

**RiDiSi**  
ECONI

Difference point	LCD back light	Control buttons	SCM buttons
KD-S713R	AMBER	AMBER	GREEN
KD-S711R	GREEN	GREEN	RED

### Contents

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## 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

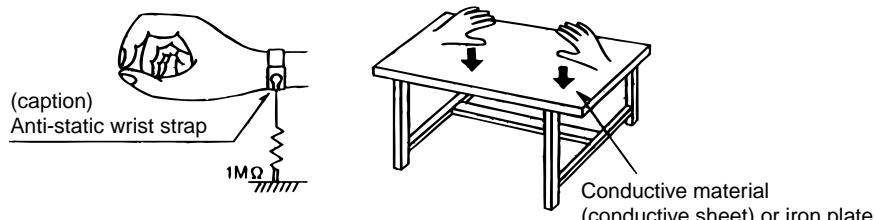
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players. Be careful to use proper grounding in the area where repairs are being performed.

### 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.

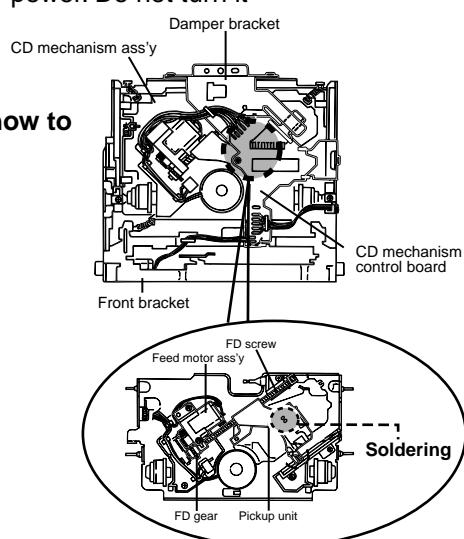
## 4.Handling the traverse unit (optical pickup)

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.



## Disassembly method

### ■ Removing the front chassis (See Fig.1)

1. 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.

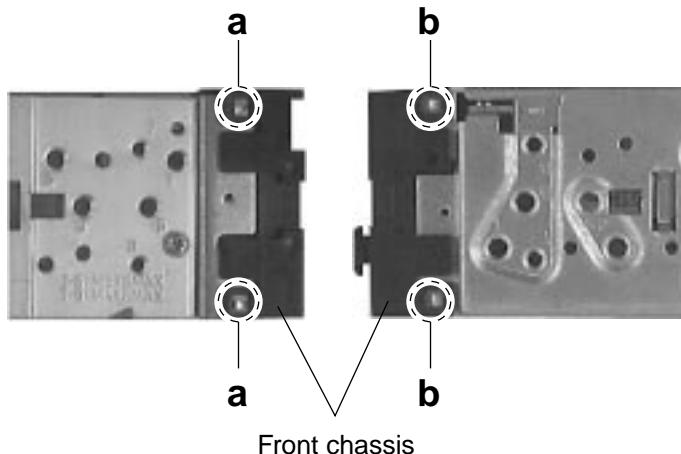


Fig. 1

### ■ Removing the heat sink (See Fig.2)

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

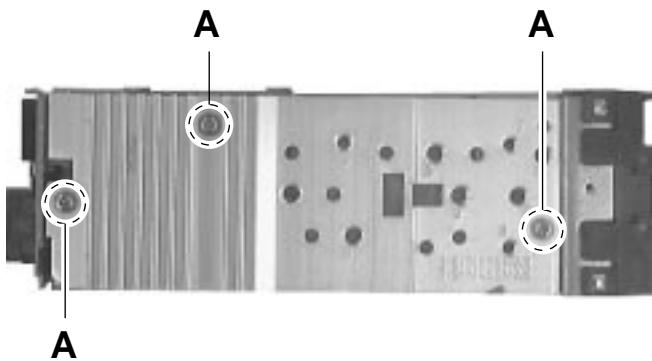


Fig. 2

### ■ 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 the both sides of the body and the joint **e** on the back of the body, then detach the bottom cover from the body.

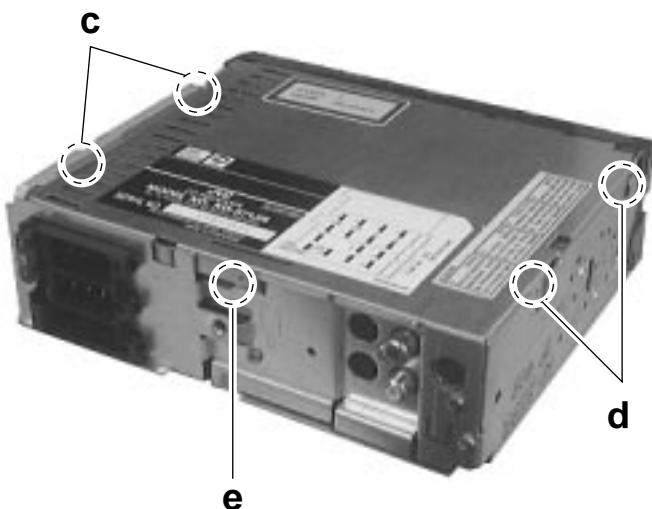


Fig. 3

## ■ Removing the main board (See Fig.4 and 5)

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

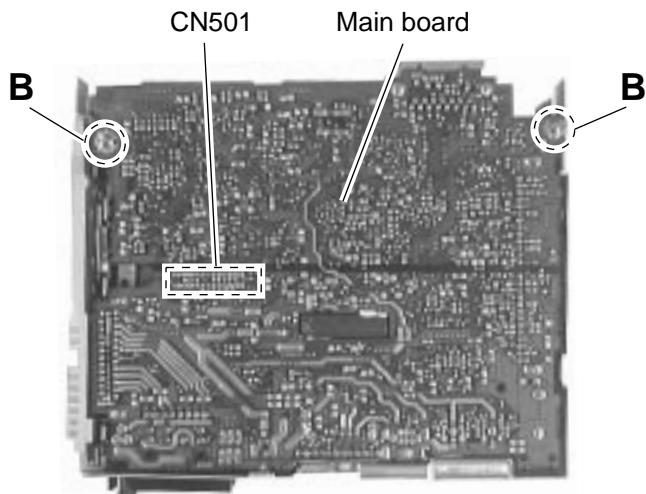


Fig. 4

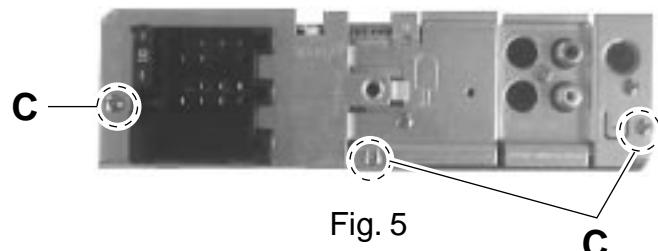


Fig. 5

## ■ Removing the CD mechanism assembly (See Fig.6)

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

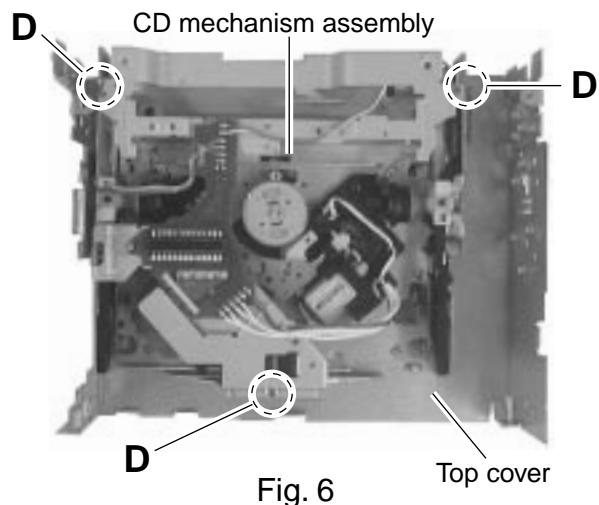


Fig. 6

## ■ Removing the front board (See Fig.7 and 8)

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



Fig. 7

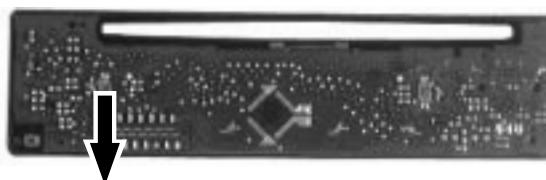


Fig. 8

## <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)

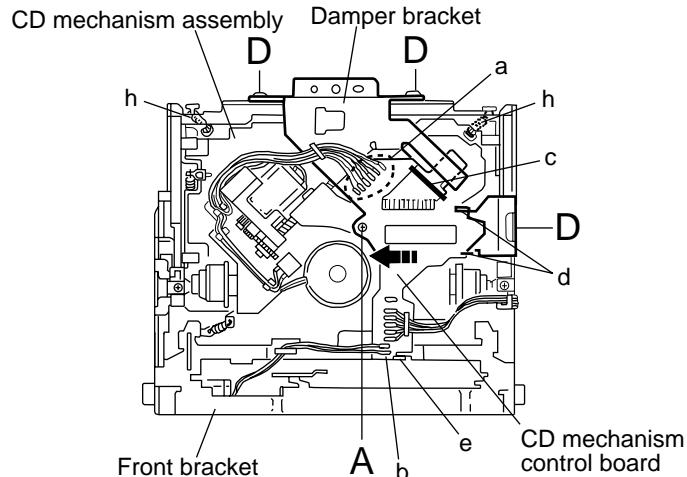


Fig.1

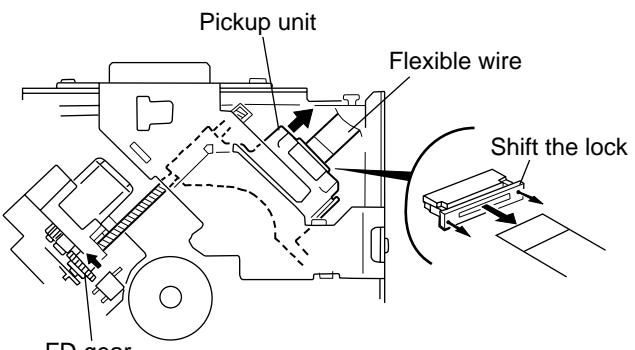


Fig.2

### ■ 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.

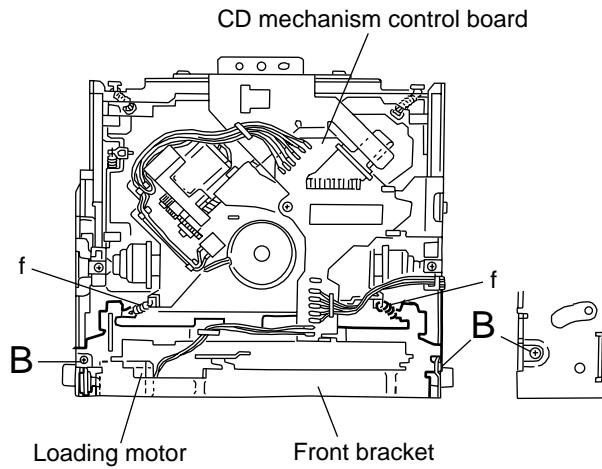


Fig.3

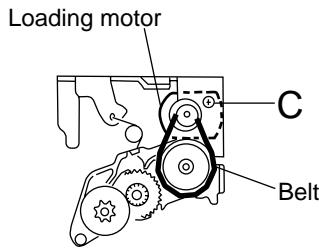


Fig.5

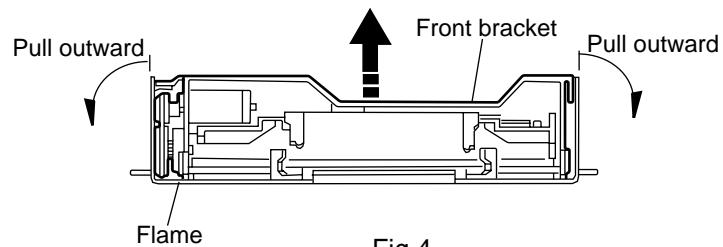


Fig.4

## ■ 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.

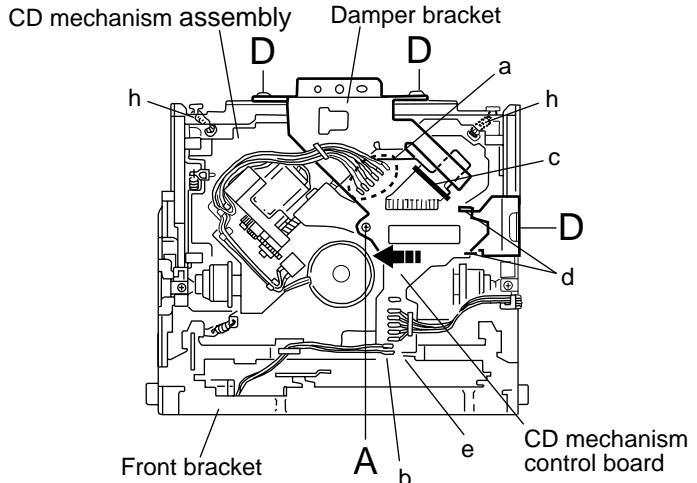


Fig.1

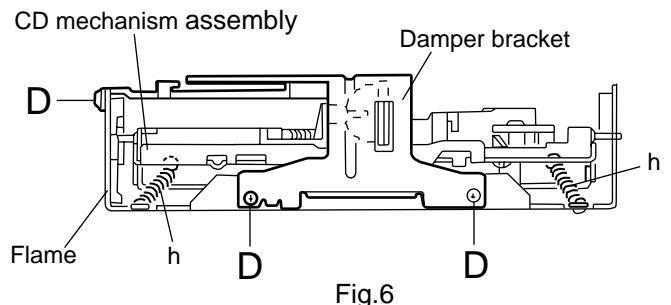


Fig.6

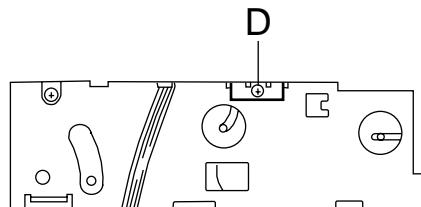


Fig.7

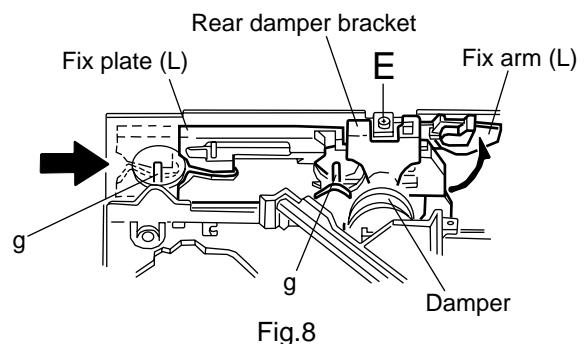


Fig.8

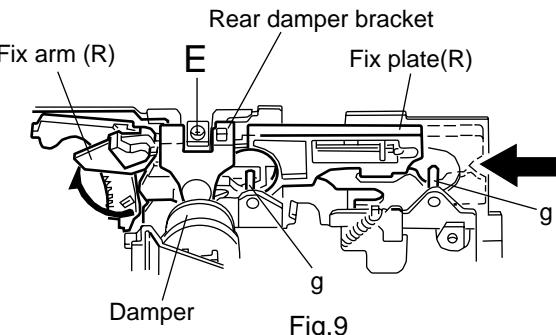


Fig.9

## ■ 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.

- Remove the two screws **F** and the feed motor assembly.

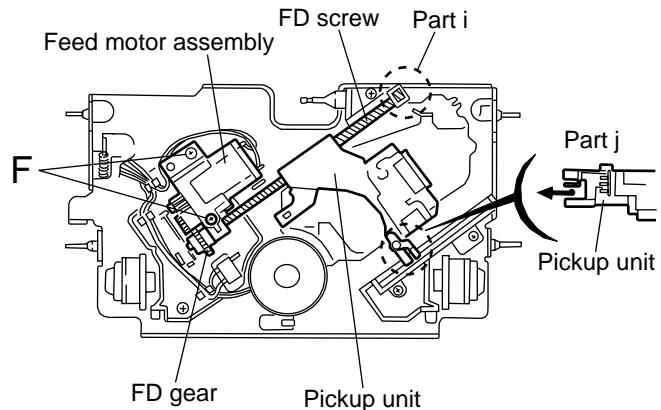


Fig.10

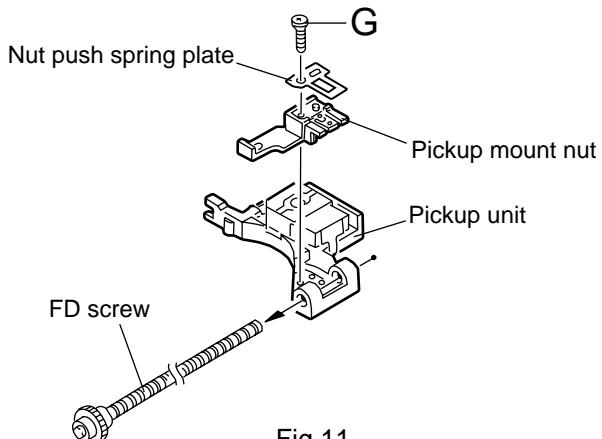


Fig.11

## ■ 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.

- 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.

- 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.

- Turn up the CD mechanism assembly and remove the two springs **k** on both sides of the clamper arms. Open the clamper arm upward.
- Turn the turn table, and remove the two screws **H** and the spindle motor.

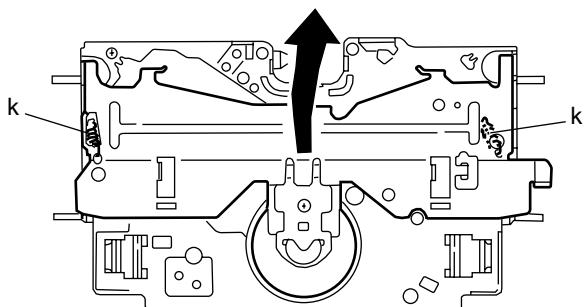


Fig.12

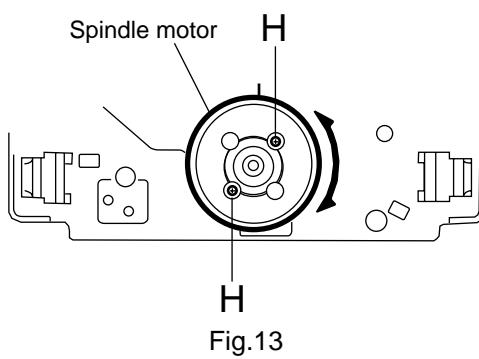


Fig.13

# Adjustment method

## ■ Test instruments required for adjustment

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

## ■ Standard volume position

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

## ■ Frequency Band

FM 87.5MHz ~ 108.0MHz  
MW 144kHz ~ 279kHz, 520kHz ~ 1620 kHz

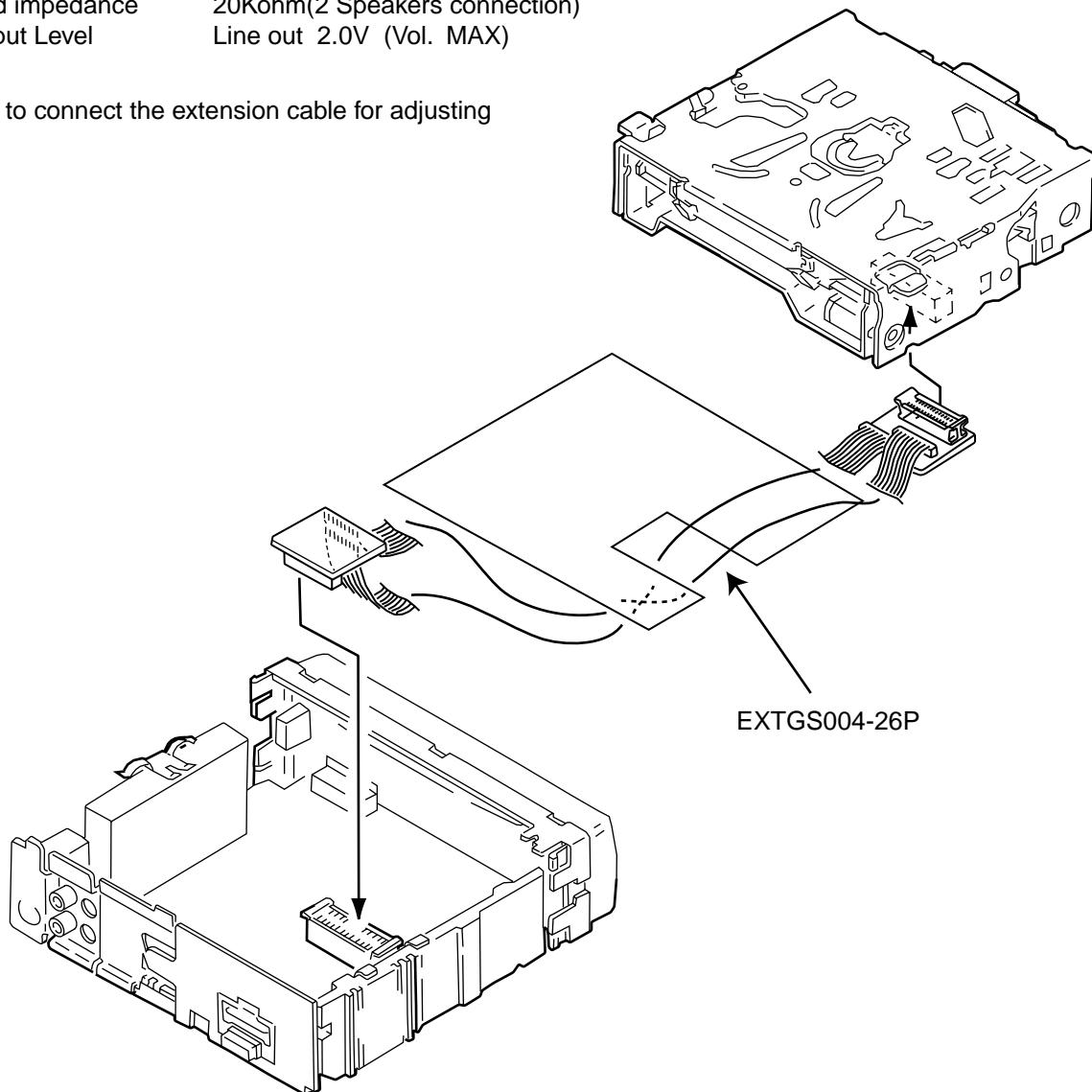
## ■ Dummy load

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

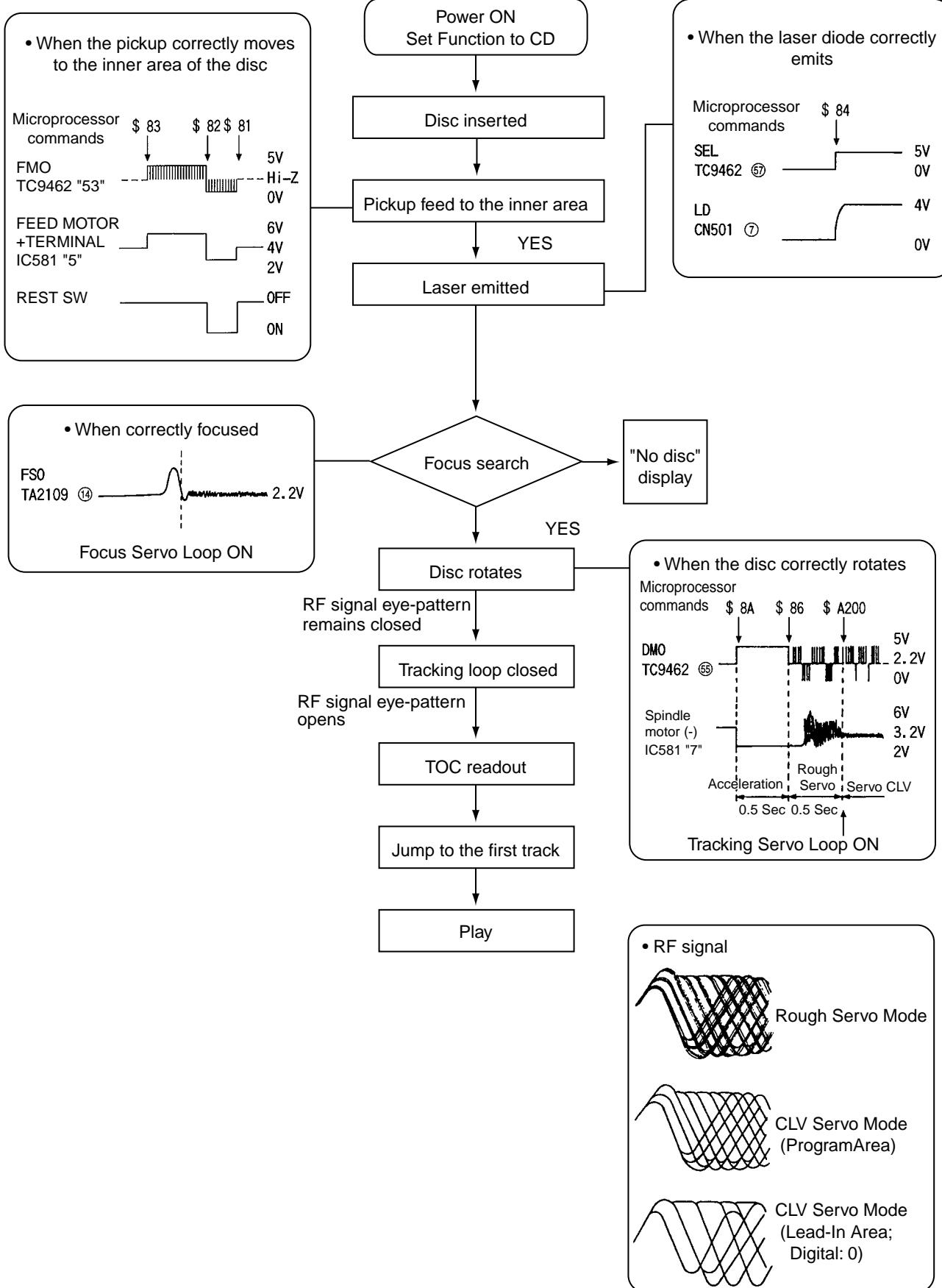
## ■ Standard measuring conditions

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

## ■ How to connect the extension cable for adjusting



## Flow of functional operation until TOC read



# Maintenance of laser pickup

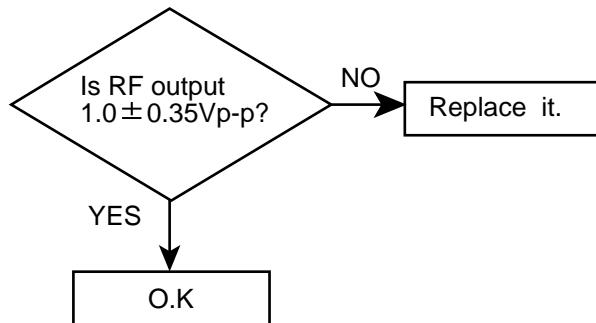
## (1) Cleaning the pick up lens

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.



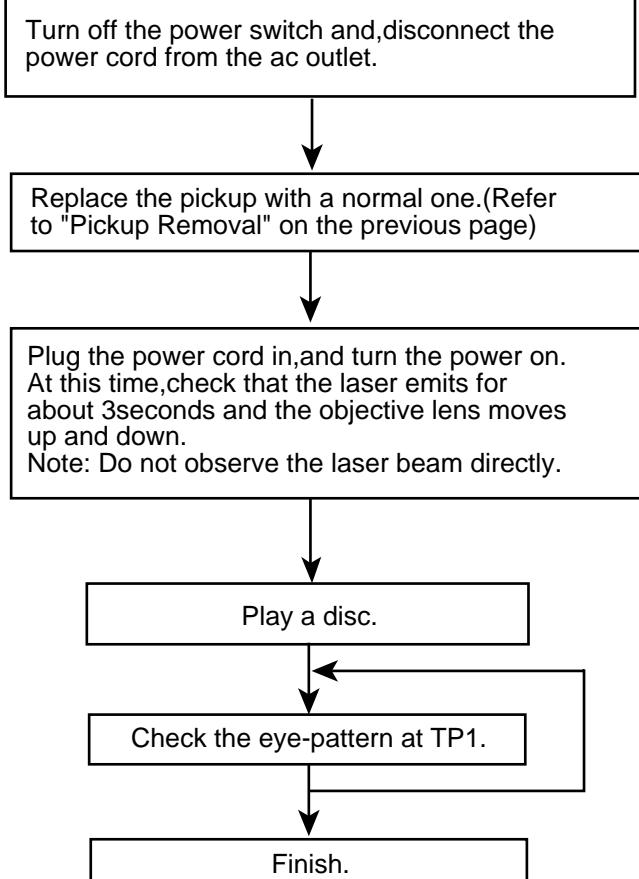
# Replacement of laser pickup

## (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.

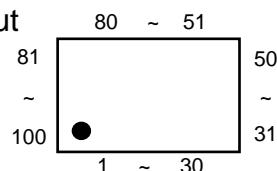
If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.



## Description of major ICs

### ■ UPD178078GF-540 (IC701) : System CPU

#### 1.Pin layout



#### 2.Pin function (1/2)

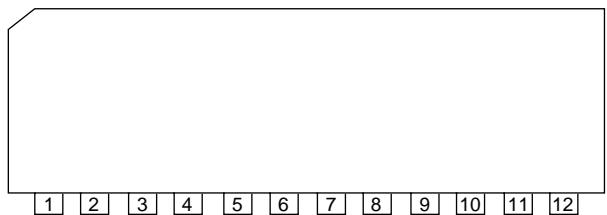
Pin NO.	Symbol	I/O	FUNCTION
1	NC	-	Non connection
2	BUSINT	I	JVC bus communication line
3	BUSSI	I	JVC bus communication line
4	BUSSO	O	JVC bus communication line
5	JBUS-SCK	O	JVC bus communication line
6,7	NC	-	Non connection
8	I2CDAI	I	Serial data input
9	I2CDAO	O	Serial data output
10	I2CCLK	O	Serial clock output
11	NC	-	Non connection
12	LCDDA	O	LCD driver serial data output
13	LCDSCK	O	LCD driver serial clock output
14	BUSI/O	O	JVC bus output select
15	NC	-	Non connection
16	LCDCE	O	LCD driver communication line
17	SW2	I	CD mech switch
18	SW3	I	CD mech switch
19	SW4	I	CD mech switch
20	RSTSW	I	Traverse mech rest switch
21	ENC1	I	Encoder input
22	ENC2	I	Encoder input
23	KEY0	I	Key input
24	KEY1	I	Key input
25	KEY2	I	Key input
26	LEVEL	I	Audio level input
27	AVDD	-	Power supply
28	SM	I	Signal level meter input
29	SQ	I	Signal quality input
30,31	NC	-	Non connection
32	AVSS	-	Connect to GND
33	REGCPU	-	Connect to GND with capacitor
34	VDD	-	Power supply
35	REGOSC	-	Connect to GND with capacitor
36	X2	-	System clock
37	X1	I	System clock
38	GND0	-	Connect to GND
39	SD/ST	I	Station detector & Stereo indicator
40	GND2	-	Connect to GND
41	NC	-	Non connection
42	IFC	I	IF count input
43	VDDPLL	-	---
44	OSC	I	FM,AM osc input
45	NC	-	Non connection

## 2.Pin function (2/2)

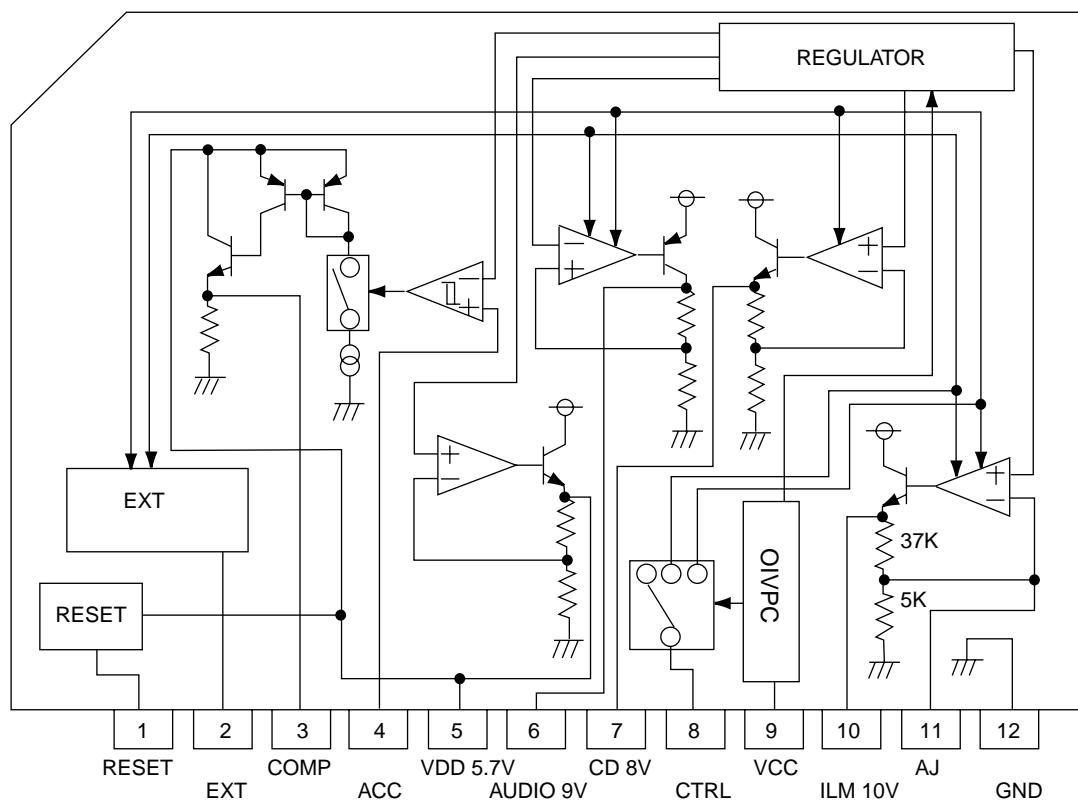
Pin NO.	Symbol	I/O	FUNCTION
46	GNDPLL	-	---
47	AMEQ	O	PLL error output for AM
48	FMEQ	O	PLL error output for FM
49	IC(VPP)	-	Setting to write for flash
50	RESET	I	System reset
51	SW1	I	CD mech switch
52	REMOCON	I	Remocon input
53	NC	-	Non connection
54	TEL_MUTE	O	TEL mute output
55	POWER	O	Power control
56	CDON	O	CD power control
57	MUTE	O	Mute control
58	STAGE 1	-	---
59	BUZZER	-	Non connection
60	STAGE 2	-	---
61~68	NC	-	Non connection
69	LM0	O	CD mech driver control
70	LM1	O	CD mech driver control
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	RDSSCK	I	Clock input for RDS
82	GND1	-	Connect to GND
83	MONO	O	Mono by force
84	SEEK/STOP	O	Switching SEEK & STOP
85	FM/AM	O	Band switch
86	AFCK	O	AFcheck output
87	RDSDATA	I	RDS data input
88	PLLMONITOR	-	Non connection
89~98	NC	-	Non connection
99	VDDPORT	-	Vdd
100	GNDPORT	-	Connect to GND

## ■ BA4905-V3 (IC961) : Regulator

### 1.Terminal layout



### 2.Block diagram



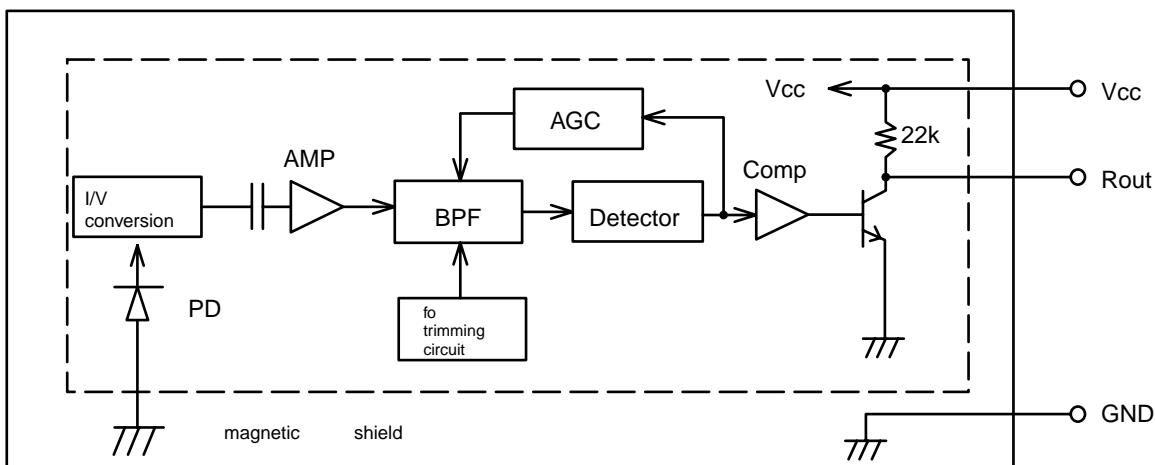
## ◎ Explanation of terminals

BA4905-V3

1	RESET	If VDD voltage becomes 4V or less, RESET output becomes low level.
2	EXT output	This output voltage is approximately 0.5V lower than VCC, and max output current is 300mA.
2	COMP output	A voltage supply for ACC block this output voltage is approximately 0.7V lower than VDD'S. The max output current is 100mA.
4	ACC	Control of the COMP output by inputting voltage.
5	VDD output	This output voltage is 5.7V, and max output current is 100mA. This voltage supply is for microcomputer. Whenever block up voltage supply is connected. the output keeps on running.
6	AUDIO output	This output voltage is 9.0V, and max output current is 500mA. This voltage supply for AUDIO.
7	CD output	This output voltage is 8.0V, and max output current is 1A. This voltage supply for CD.
8	CTRL	Output selector of CD, AUDIO, ILM and EXT.
9	VCC	To be connected with the BACK UP of car.
10	ILM output	This output voltage is 10V, and max output current is 500mA. Output voltage is adjustable.
11	AJ	Putting a resistance between ILM and AJ or between AJ and GND makes ILM output voltage adjustable.
12	GND	Ground.

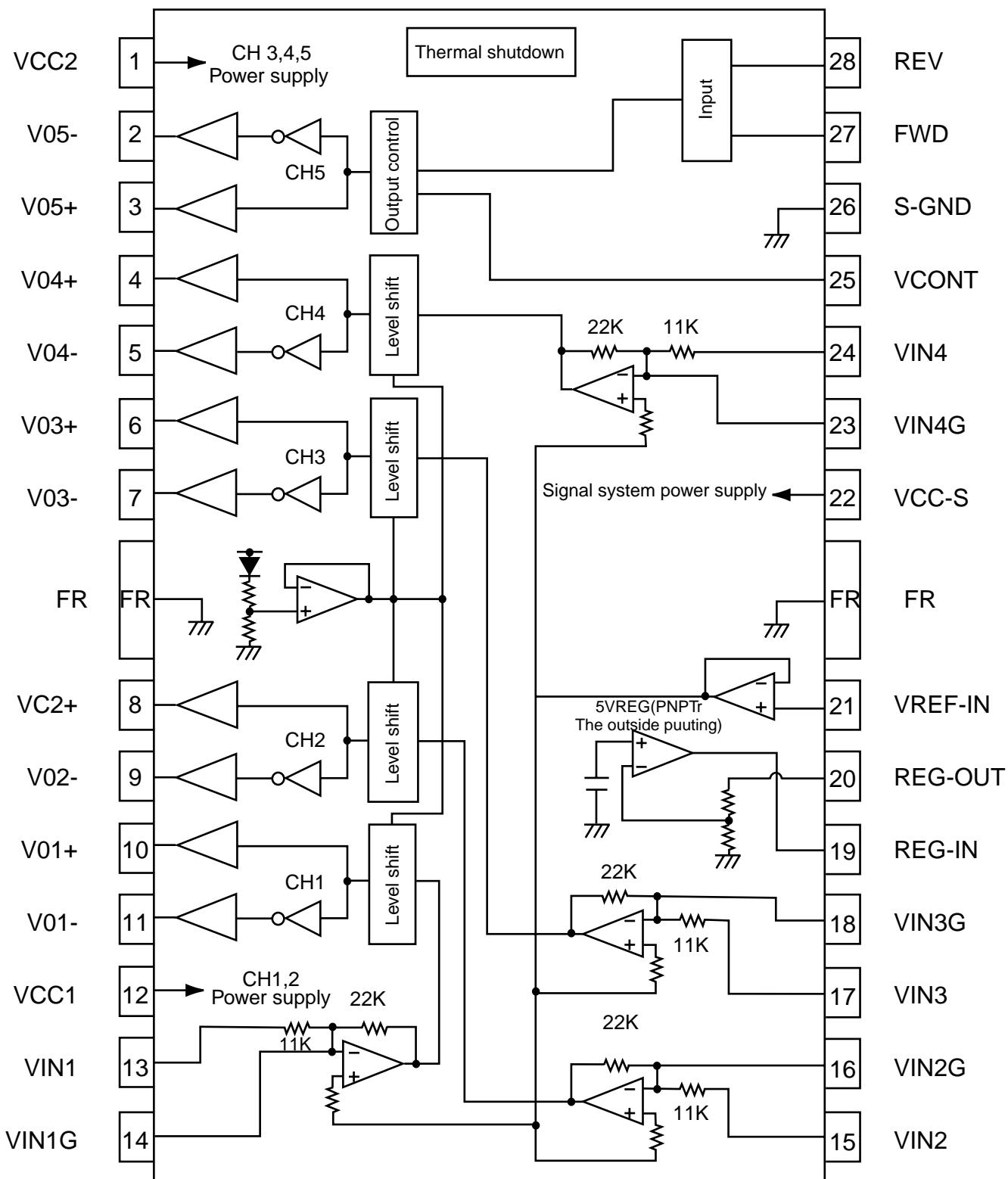
## ■ RPM6938-SV4(IC602) : Remote Censor

## 1. Block diagram



## ■ LA6567H-X(IC501) :CD DRIVE

## 1.Pin layout &amp; blockdiagram



## 2. Pin function

LA6567H-X(2/2)

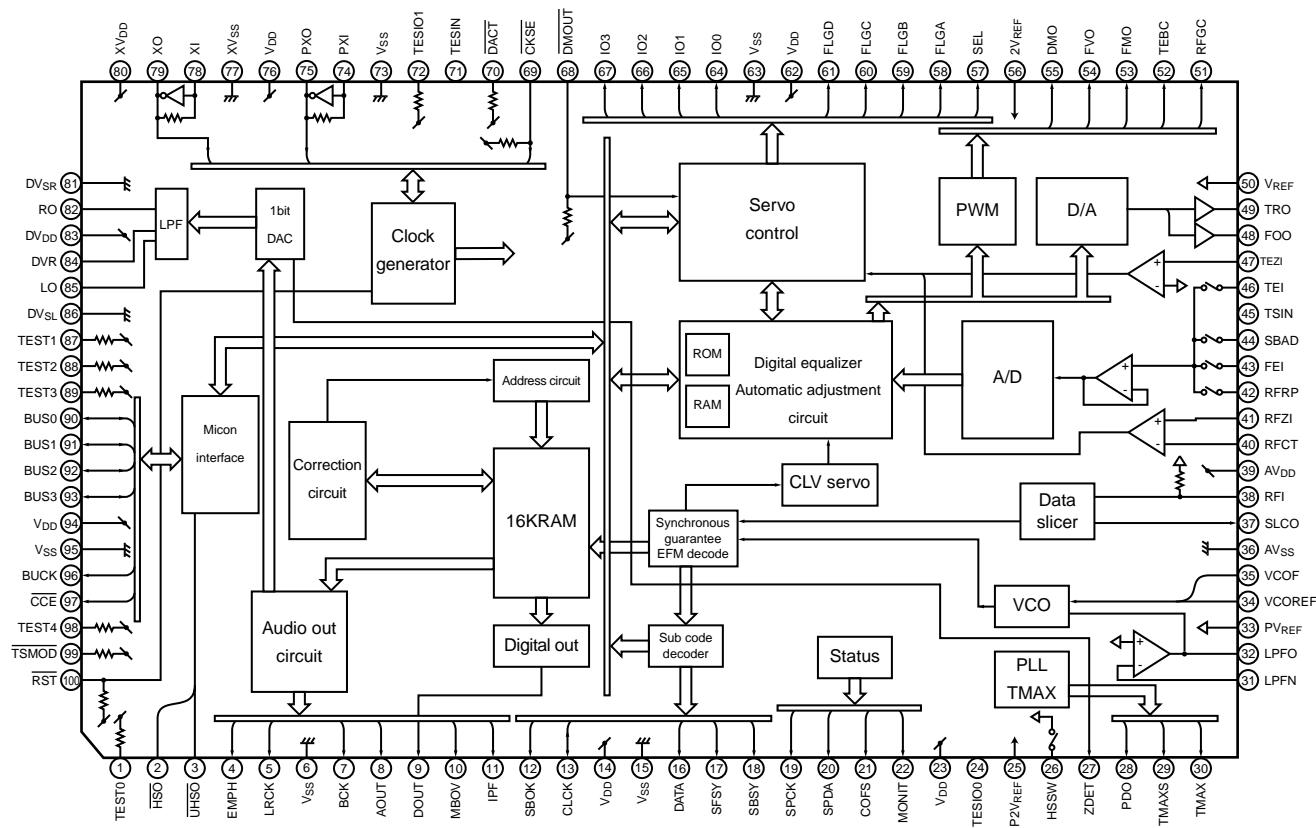
Pin no.	Symbol	Function
1	VCC2	CH3,4,5 Power supply( It is short with VCC1,VCC-S)
2	V05-	Loading output(-)
3	V05+	Loading terminal (+)
4	V04+	CH4 Output terminal(+)
5	V04-	CH4 Output terminal(-)
6	V03+	CH3 Output terminal(+)
7	V03-	CH3 Output terminal(-)
8	V02+	CH2 Output terminal(+)
9	V02-	CH2 Output 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 voltag set terminal
26	S-GND	Signal system GND
27	FWD	5CH(VLO)Signal output switch terminal(FWD),Input of logic of loading part 5CH(VLO)Signal output switch terminal(REV),
28	REV	Input of logic of loading part

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

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

## ■ TC9462F(IC541) : DSP

### 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 filag output terminal. <table border="1"><tr><td>UHSO</td><td>HSO</td><td>PLAYBACK SPEED</td></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.(1.4122MHz)	--															
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	CLK	I/O	Subcode P~W data reabout 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 reabout 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.	--															

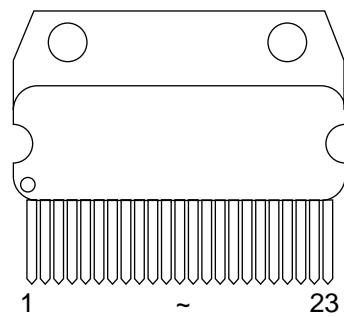
## 2.Pin Function

TC9462F(2/2)

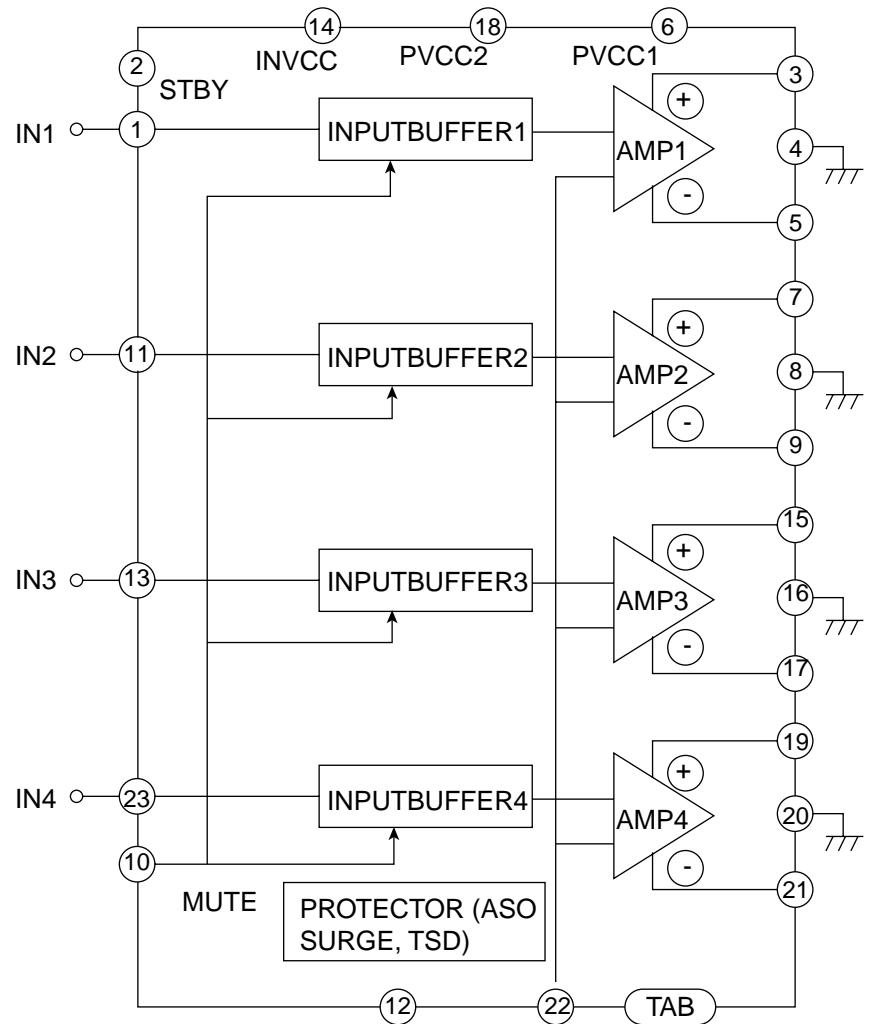
Pin No.	Symbol	I/O	Function
40	RFCT	I	RFRP signal center level input terminal
41	RFZI	I	RFRP zero cross input terminal
42	RFRP	I	RF ripple signal input terminal
43	FEI	I	Focus error signal input terminal
44	SBAD	I	Sub-beam adder signal input terminal
45	TSIN	I	Test input terminal Normally, keep at "vref" level
46	TEI	I	Tracking error signal input terminal. Take in at tracking servo ON.
47	TEZI	I	Tracking error zero cross input terminal
48	FOO	O	Focus servo equalizer output terminal
49	TRO	O	Tracking servo equalizer output terminal
50	VREF	-	Analog reference voltage supply terminal
51	RGFC	O	RF amplitude adjustment control signal output terminal
52	TEBC	O	Tracking balance control signal output terminal
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)
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
69	CKSE	I	Normally, keep at open
70	DACT	I	DAC test mode terminal. Normally, keep at open
71	TESIN	I	Test input terminal, Normally, keep at "L" level
72	TESIO1	I	Test input/output terminal. Normally, keep at "L" level
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
90~93	BUS0~3	I/O	Micon interface data input/output terminal
94	VDD	-	Digital power supply voltage terminal
95	VSS	-	Digital GND terminal
96	BUCK	I	Micon interface clock input terminal
97	CCE	I	Command and data sending/receiving chip enable signal input terminal
98	TEST4	I	Test mode terminal. Normal, keep at open
99	TSMOD	I	Local test mode selection terminal
100	RST	I	Reset signal input terminal. Reset at "L" level

## ■ HA13158A (IC301) : Power amp

### 1. Pin layout

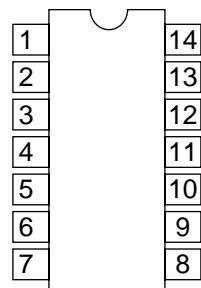


### 2. Block diagram



## ■ HD74HC126FP-X (IC801) : Buffer

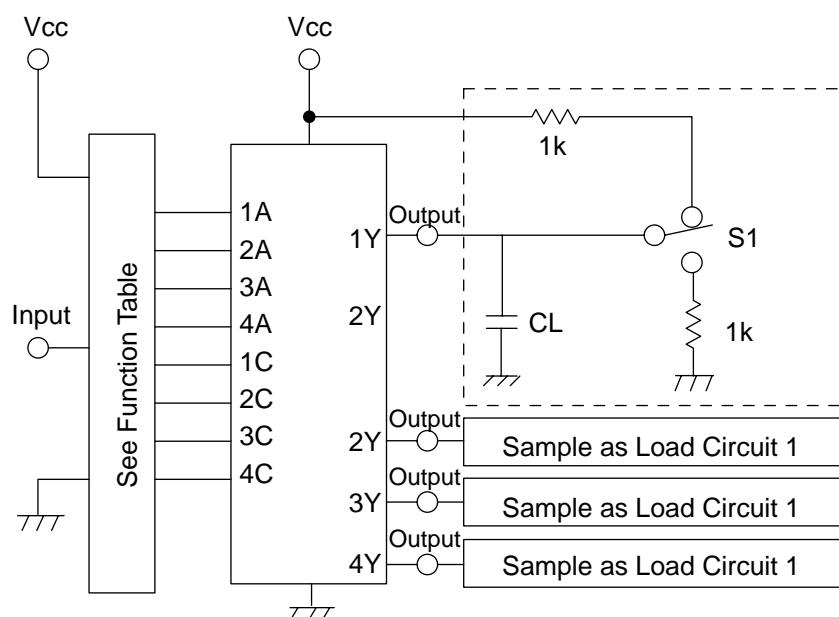
1.Terminal layout



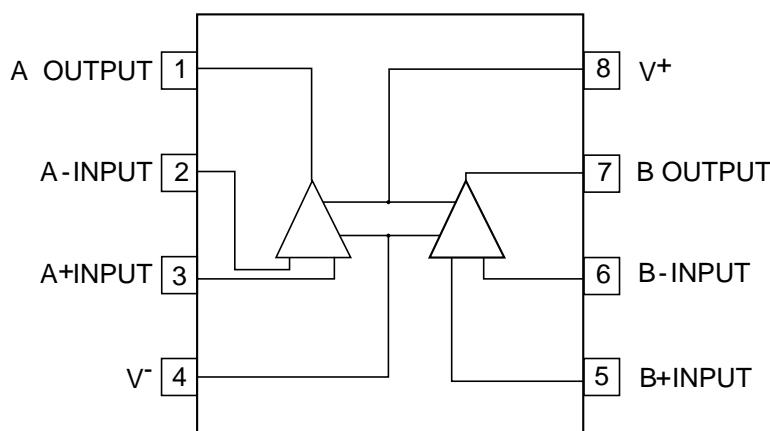
3.Pin function

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

2.Block diagram

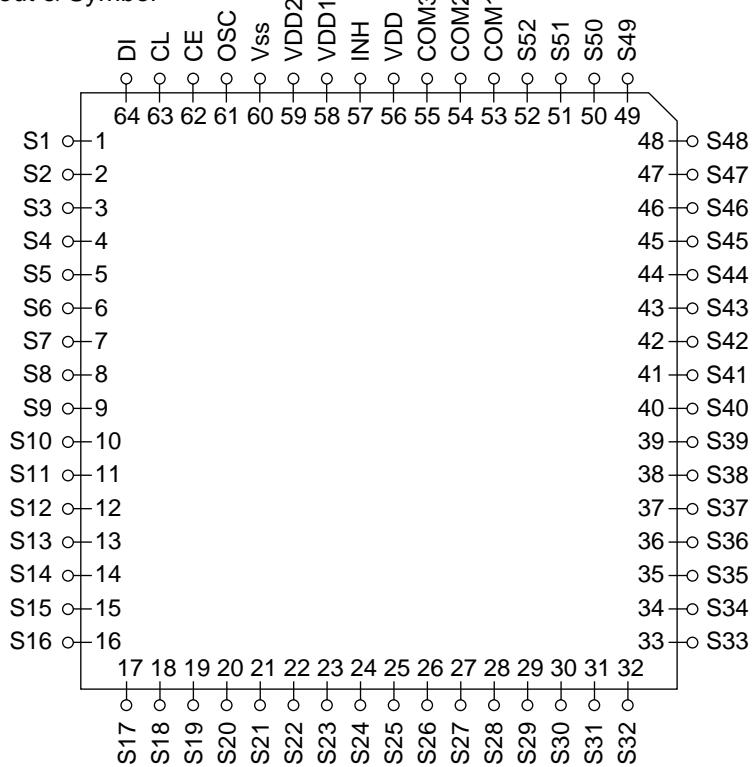


## ■ NJM4565M-WE (IC581) : Ope. amp



## ■ LC75823W (IC601) : LCD driver

### 1. Pin Layout & Symbol



### 2. Pin Function

Pin No.	Symbol	I/O	Function
1 to 52	S1 to S52	O	Segment output pins used to display data transferred by serial data input.
53 to 55	COM1 to COM3	O	Common driver output pins. The frame frequency is given by : $t_0 = (f_{osc}/384)\text{Hz}$ .
56	VDD	--	Power supply connection. Provide a voltage of between 4.5 and 6.0V.
57	INH	I	Display turning off input pin. INT="L" (Vss) ----- off (S1 to S52, COM1 to COM3="L") INT="H" (VDD)----- on Serial data can be transferred in display off mode.
58	VDDD1	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.
59	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.
60	Vss	--	Power supply connection. Connect to GND.
61	OSC	I/O	Oscillator connection. An oscillator circuit is formed by connecting an external resistor and capacitor at this pin.
62	CE	I	Serial data interface connection to the controller. CE : Chip enable
63	CL	I	CL : Sync clock
64	DI		DI : Transfer data

## ■ SAA6579T-X (IC71) : RDS detector

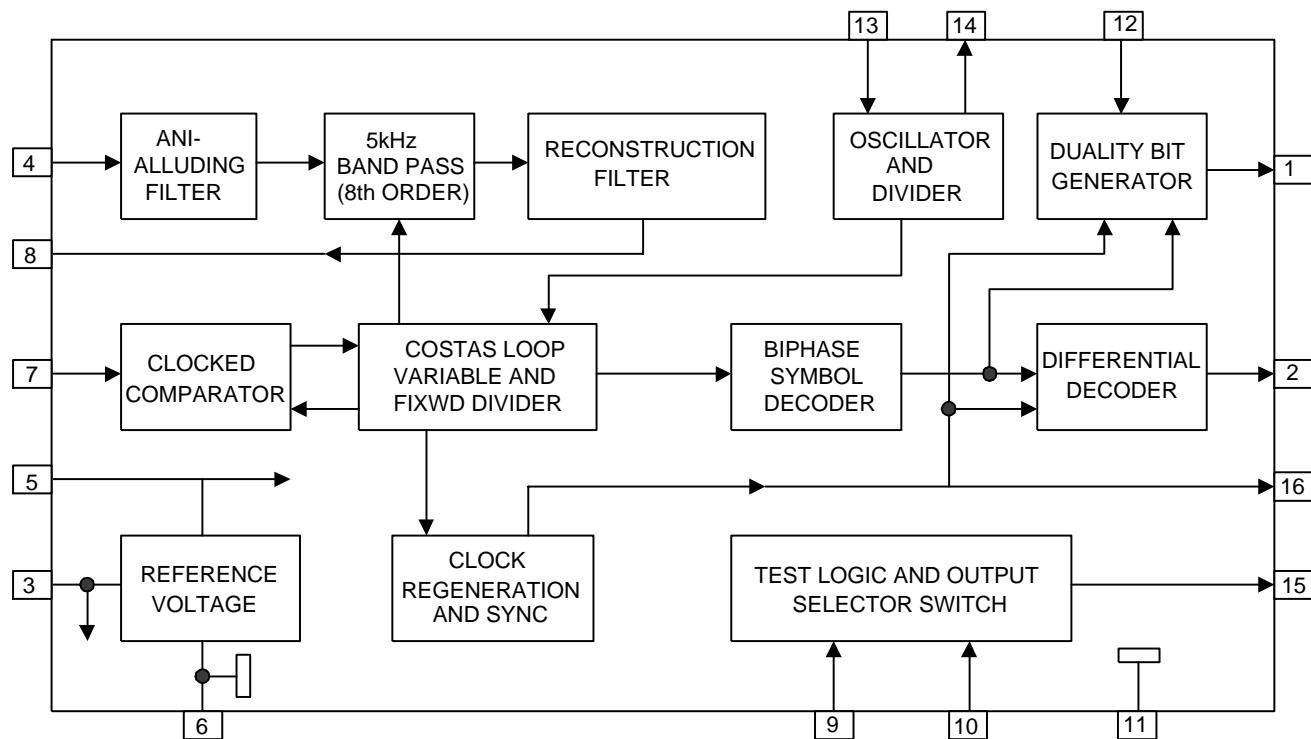
### 1.Terminal Layout

QUAL	1	16	RDCL
RDDA	2	15	T75
Vref	3	14	OSCO
MUX	4	13	OSC1
VDDA	5	12	VDD
GND	6	11	GND
CIN	7	10	TEST
SCOUT	8	9	MODE

### 2.Pin Function

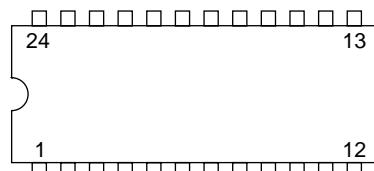
Pin No.	Symbol	I/O	Function
1	QUAL	-	Non connect
2	RDDA	O	RDS data output
3	Vref	O	Reference voltage output
4	MUX	I	Multiplex signal input
5	VDDA	-	+5V Supply voltage for analog
6	GND	-	Ground for analog part (0V)
7	CIN	I	Sub carrier output of reconstruction filter
8	SCOUT	O	Ground for digital part (0V)
9	MODE	-	Ground for digital part (0V)
10	TEST	-	Ground for digital part (0V)
11	GND	-	Ground for digital part (0V)
12	VDD	-	+5V supply voltage for digital part
13	OSC1	I	Oscillator input
14	OSCO	O	Oscillator output
15	T75	-	Non connect
16	RDCL	O	RDS clock output

### 3.Block Diagram

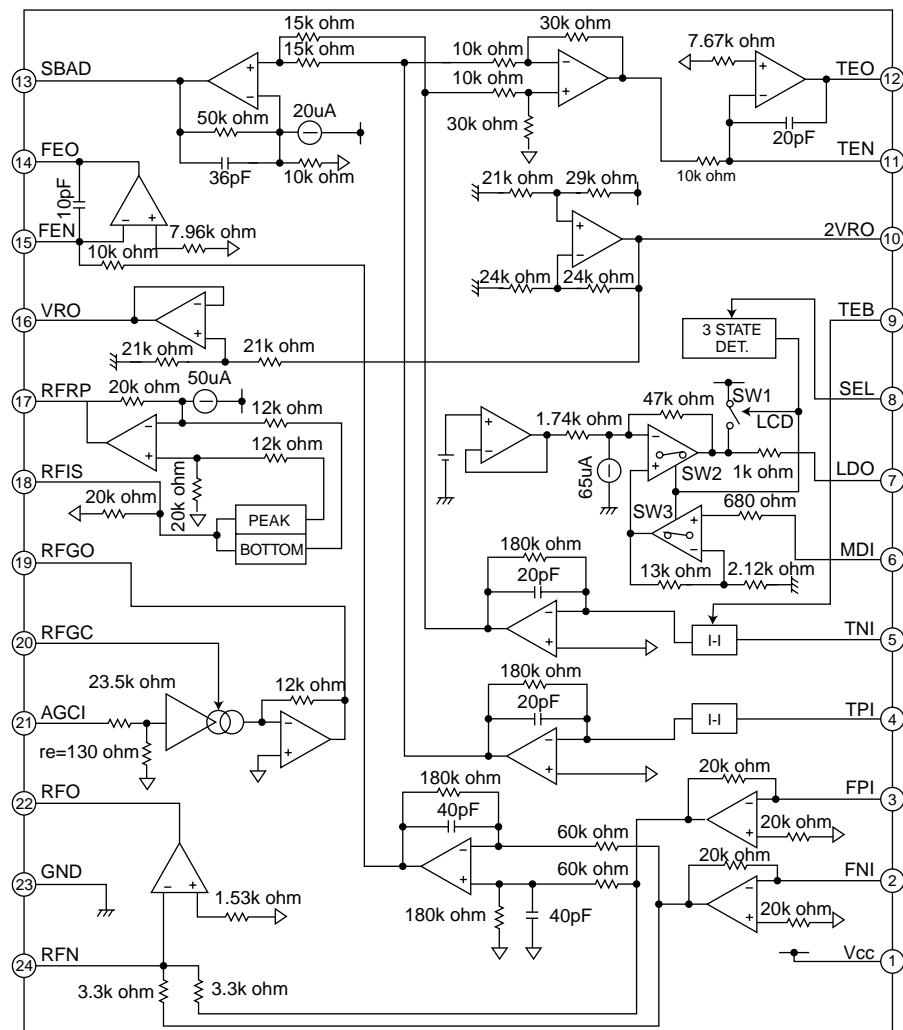


## ■ TA2109F-X (IC521) : RF amp.

### 1. Pin layout



### 2. Block diagram



### 3. Pin function

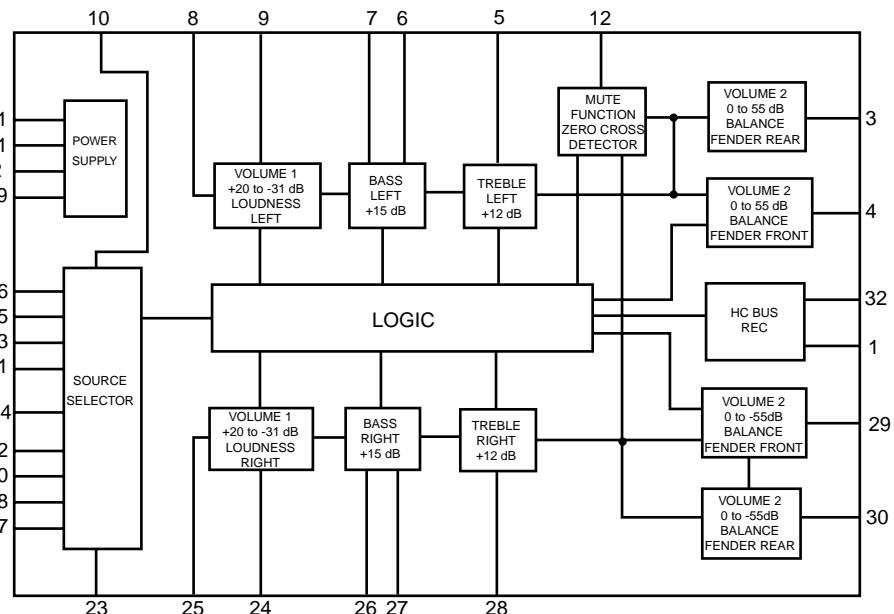
Pin No.	Symbol	I/O	Pin function	Pin No.	Symbol	I/O	Pin function
1	Vcc	-	Power supply input terminal	13	SBAD	O	Sub beam adder signal output terminal
2	FNI	I	Main beam I-V amp input terminal	14	FEO	O	Focus error signal output terminal
3	FPI	I	Main beam I-V amp input terminal	15	FEN	I	FE amp negative input 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

## ■ TEA6320T-X (IC161) : E.volume

1.Pin layout

SDA	1	32
GND	2	31
OUTLR	3	30
OUTLF	4	29
TL	5	28
B2L	6	27
B1L	7	26
IVL	8	25
ILL	9	24
QSL	10	23
IDL	11	22
MUTE	12	21
ICL	13	CD-CH
IMO	14	20
IBL	15	TAPE
IAL	16	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.



VICTOR COMPANY OF JAPAN, LIMITED

MOBILE ELECTRONICS DIVISION

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

(No.49603)

200106

## PARTS LIST

[ KD-S711R ]  
[ KD-S713R ]

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

Area suffix

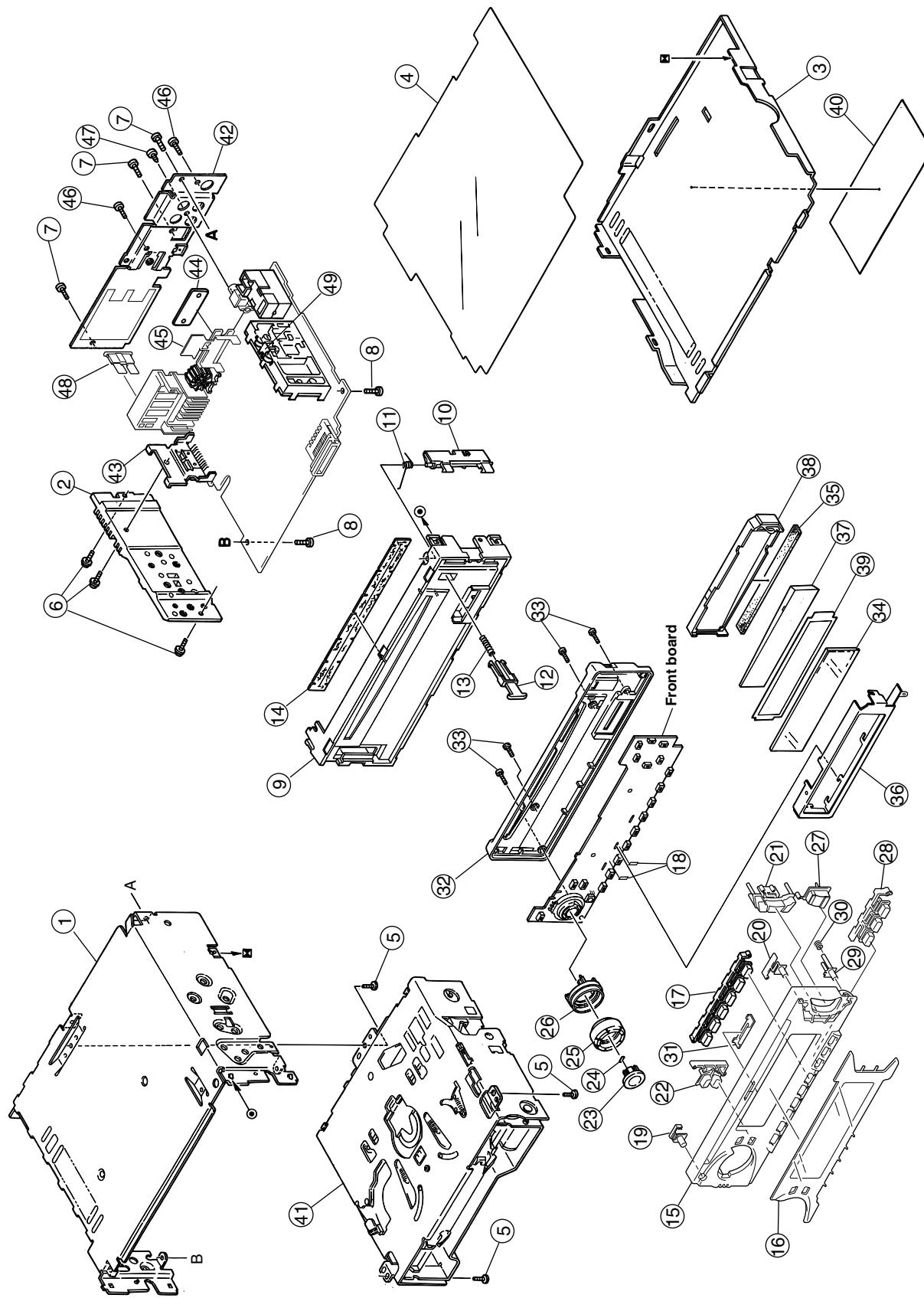
E ----- Continental Europe

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CD mechanism assembly and parts list .....	3- 4
Electrical parts list .....	3- 7
Packing materials and accessories parts list .....	3-12

# 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	FSJC1029-404	TOP CHASSIS	1		
	2	FSMH3001-202	SIDE PANEL	1		
	3	FSKM3011-002	BOTTOM COVER	1		
	4	FSMA3004-003	INSULATOR	1		
	5	QYSDST2604Z	SCREW	3	CHASSIS+MECHA B	
	6	FSKZ4005-001	SCREW	3	CHASSIS+SIDE PA	
	7	QYSDST2604Z	SCREW	3	CHASSIS+REAR BK	
	8	QYSDST2606Z	SCREW	2	CHASSIS+MAIN PW	
	9	FSJC2013-003	FRONT CHASSIS	1		
	10	FSKS3010-001	LOCK LEVER	1		
	11	FSKW4005-003	TORSION SPRING	1	FOR LOCK LEVEL	
	12	FSXP3026-002	RLS KNOB	1		
	13	FSKW3002-015	COMP.SPRING	1		
	14	FSPK3009-001	BLIND	1		
	15	GE10003-001A	FRONT PANEL	1		
	16	GE30111-004A	FINDER LENS	1	KD-S713R	
		GE30111-003A	FINDER	1	KD-S711R	
	17	GE20104-001B	PRESET BUTTON	1		
	18	FSYH4036-069	SHEET	2		
	19	GE30105-002A	POWER BUTTON	1		
	20	GE30109-002A	EJECT BUTTON	1		
	21	GE20110-004C	D.FUNC BUTTON	1	FM/CD/AM	
	22	GE30112-001A	PUSH BUTTON(2)	1		
	23	GE30102-001A	SEL BUTTON	1		
	24	FSYH4036-032	SHEET	1	FOR SEL BUTTON	
	25	GE30103-001B	KNOB	1		
	26	GE30104-001A	RIM LENS	1		
	27	GE20109-001C	UP DOWN BUTTON	1		
	28	GE30106-003A	SND FUNC BUTTON	1		
	29	FSXP3055-001	DETACH BUTTON	1		
	30	FSKW3002-012	COMP. SPRING	1	FOR DETACH BUTT	
	31	GE30117-001A	LIGHT LENS	1		
	32	GE10004-001A	REAR COVER	1		
	33	VKZ4777-001	MINI SCREW	4	FRONT+REAR	
	34	QLD0162-001	LCD	1		
	35	QNZ0442-001	RUBBER CONNE	1		
	36	GE30107-001A	LCD CASE	1		
	37	FSJK3035-001	LCD LENS	1		
	38	FSKS3022-002	LENS CASE	1		
	39	FSYH4078-001	LIGHTING SHEET	1		
	40	GE30144-002A	NEME PLATE	1	KD-S713R	
		GE30143-002A	NAME PLATE	1	KD-S711R	
	41	-----	CD MECHA	1	TN-CCD1001Z	
	42	FSKM3012-012	REAR BRACKET	1		
	43	FSKL4018-00B	IC BRACKET	1		
	44	FSKL4014-002	HEAT SINK	1		
	45	FSKL4015-002	REG BRACKET	1		
	46	QYSDST2606Z	SCREW	2	16P & TR BRACK & FOR ANT	
	47	QYSDSF3006Z	SCREW	1	LINE OUT	
⚠	48	QMFZ021-100-J1	FUSE	1		
	49	VMA4652-001SS	EARTH PLATE	1		

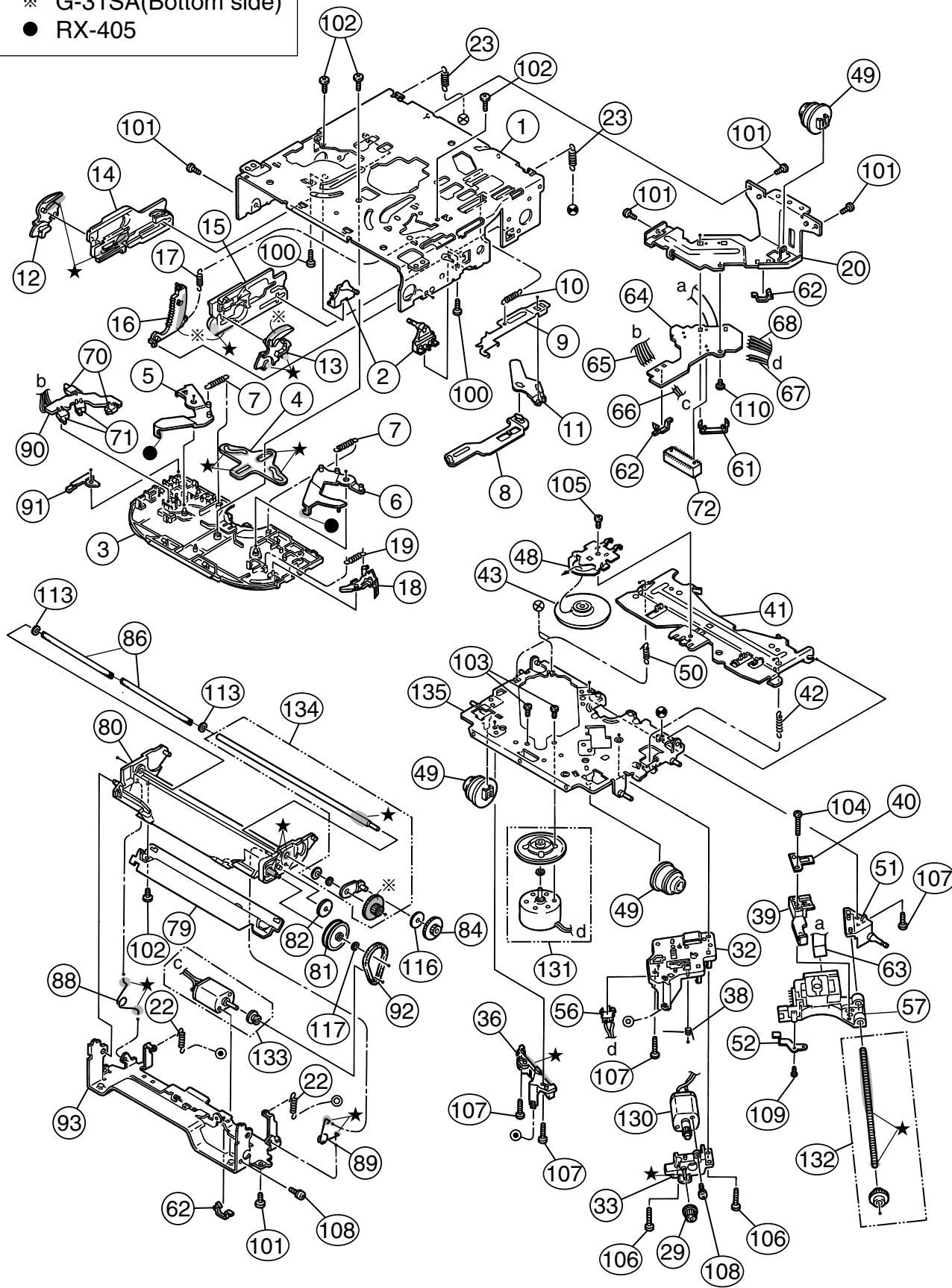
# CD mechanism assembly and parts list

Block No. M 2 M M

## Grease

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

TN-CCD1001Z-136J



## ■ 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	▲	Item	Parts number	Parts name	Remarks	Area
C 1	NDC21HJ-5R0X	C CAPACITOR				C 352	NCS21HJ-391X	C CAPACITOR			
C 2	NDC21HJ-100X	C CAPACITOR				C 501	QERF41AM-227Z	E CAPACITOR	220MF 20% 10V		
C 3	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V			C 502	NCB21HK-103X	C CAPACITOR			
C 4	NCS21HJ-221X	C CAPACITOR				C 503	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V		
C 5	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V			C 521	NCB21HK-103X	C CAPACITOR			
C 6	NCB21EK-473X	C CAPACITOR				C 522	NCB21HK-103X	C CAPACITOR			
C 7	NCS21HJ-101X	C CAPACITOR				C 523	NCB21EK-103X	C CAPACITOR			
C 9	QERF41AM-227Z	E CAPACITOR	220MF 20% 10V			C 524	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		
C 10	NCB21HK-102X	C CAPACITOR				C 525	NCB21HK-103X	C CAPACITOR			
C 31	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 526	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 32	NCB21HK-102X	C CAPACITOR				C 527	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 41	NCB21HK-333X	C CAPACITOR				C 528	NCS21HJ-101X	C CAPACITOR			
C 42	NCB21HK-822X	C CAPACITOR				C 529	NCB21HK-103X	C CAPACITOR			
C 43	QERF1CM-107Z	E CAPACITOR	100MF 20% 16V			C 530	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 44	NCB21HK-103X	C CAPACITOR				C 531	NCB21EK-104X	C CAPACITOR			
C 51	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V			C 532	NCB21EK-104X	C CAPACITOR			
C 52	NCB21HK-472X	C CAPACITOR				C 533	NCS21HJ-560X	C CAPACITOR			
C 53	NCB21EK-104X	C CAPACITOR				C 541	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 54	NCB21HK-103X	C CAPACITOR				C 542	NCB21HK-103X	C CAPACITOR			
C 55	NCB21HK-331X	C CAPACITOR				C 543	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V		
C 71	NDC21HJ-820X	C CAPACITOR				C 544	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 72	NDC21HJ-470X	C CAPACITOR				C 545	NCB21HK-103X	C CAPACITOR			
C 73	NCB21HK-103X	C CAPACITOR				C 546	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 74	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V			C 547	NDC21HJ-470X	C CAPACITOR			
C 75	NCS21HJ-561X	C CAPACITOR				C 548	NCB21HK-153X	C CAPACITOR			
C 76	QEKJ1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 549	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 77	NCB21EK-223X	C CAPACITOR				C 550	NCB21HK-103X	C CAPACITOR			
C 161	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 551	NCB21HK-272X	C CAPACITOR			
C 162	NCB21HK-822X	C CAPACITOR				C 552	NCB21HK-103X	C CAPACITOR			
C 163	NCB21CK-154X	C CAPACITOR				C 553	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 164	QEKJ1HM-224Z	E CAPACITOR	.22MF 20% 50V			C 554	NCB21HK-103X	C CAPACITOR			
C 165	NCB21HK-333X	C CAPACITOR				C 555	NCB21EK-333X	C CAPACITOR			
C 166	NCB21HK-562X	C CAPACITOR				C 556	NCB21HK-332X	C CAPACITOR			
C 167	QEKJ1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 557	NCS21HJ-561X	C CAPACITOR			
C 168	QEKJ1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 558	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 169	QERF41HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 559	NCB21HK-473X	C CAPACITOR			
C 171	QERF41HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 560	NCB21HK-473X	C CAPACITOR			
C 172	NCB21HK-183X	C CAPACITOR				C 561	NCB21HK-473X	C CAPACITOR			
C 173	NCB21EK-104X	C CAPACITOR				C 562	NCB21HK-473X	C CAPACITOR			
C 181	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 563	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 182	NCB21HK-822X	C CAPACITOR				C 564	NCB21HK-103X	C CAPACITOR			
C 183	NCB21CK-154X	C CAPACITOR				C 565	NCB21HK-103X	C CAPACITOR			
C 184	QEKJ1HM-224Z	E CAPACITOR	.22MF 20% 50V			C 566	NDC21HJ-100X	C CAPACITOR			
C 185	NCB21HK-333X	C CAPACITOR				C 567	NDC21HJ-100X	C CAPACITOR			
C 186	NCB21HK-562X	C CAPACITOR				C 568	NCB21HK-103X	C CAPACITOR			
C 187	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 569	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 188	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			C 570	NCS21HJ-101X	C CAPACITOR			
C 189	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 571	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 191	QERF41HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 572	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		
C 192	NCB21HK-183X	C CAPACITOR				C 573	NCB21HK-103X	C CAPACITOR			
C 241	NCB21HK-153X	C CAPACITOR				C 581	NCS21HJ-821X	C CAPACITOR			
C 242	NCB21EK-473X	C CAPACITOR				C 582	QEKJ41EM-475Z	E CAPACITOR	4.7MF 20% 25V		
C 243	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V			C 583	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V		
C 244	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 584	NCS21HJ-121X	C CAPACITOR			
C 309	QERF41CM-106Z	E CAPACITOR	10MF 20% 16V			C 591	NCS21HJ-821X	C CAPACITOR			
C 310	QERF41CM-106Z	E CAPACITOR	10MF 20% 16V			C 592	QEKJ41EM-475Z	E CAPACITOR	4.7MF 20% 25V		
C 312	NCB21EK-473X	C CAPACITOR				C 593	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V		
C 313	NCB21EK-104X	C CAPACITOR				C 594	NCS21HJ-121X	C CAPACITOR			
C 314	NCB21EK-104X	C CAPACITOR				C 595	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		
C 315	NCB21EK-104X	C CAPACITOR				C 701	NDC21HJ-220X	C CAPACITOR			
C 322	NCS21HJ-391X	C CAPACITOR				C 702	NDC21HJ-220X	C CAPACITOR			
C 332	NCS21HJ-391X	C CAPACITOR				C 703	NCB21EK-104X	C CAPACITOR			
C 342	NCS21HJ-391X	C CAPACITOR				C 704	NCB21EK-104X	C CAPACITOR			

## ■ Electrical parts list(Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area
	C 706	QEJK0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 707	NCB21HK-103X	C CAPACITOR		
	C 708	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 709	NCB21HK-103X	C CAPACITOR		
	C 712	NDC21HJ-680X	C CAPACITOR		
	C 713	NCB21HK-103X	C CAPACITOR		
	C 718	NCB21HK-103X	C CAPACITOR		
	C 719	NCB21EK-104X	C CAPACITOR		
	C 720	NCB21EK-104X	C CAPACITOR		
	C 721	NCB21EK-104X	C CAPACITOR		
	C 781	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 782	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 783	NCB21EK-823X	C CAPACITOR		
	C 891	NCB21EK-473X	C CAPACITOR		
	C 901	QERF41AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 902	NCB21HK-103X	C CAPACITOR		
	C 903	QEJK1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 904	QERF41AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 905	QERF41CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 906	QERF41CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 907	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 908	QEZO338-228	E CAPACITOR	2200MF	
	C 909	NCB21EK-104X	C CAPACITOR		
	C 911	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 912	QEJK1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 913	QEJK1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 914	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 915	QERF41CM-106Z	E CAPACITOR	10MF 20% 16V	
	CN501	QGB2027M1-26S	CONNECTOR		
	CP601	VMC0334-001	CONNECTOR	F.PANEL CONN.	
	CP961	QNZ0112-001	CAR CONNECTOR		
D 1	1SS133-T1	SI DIODE			
D 2	1SS133-T1	SI DIODE			
D 3	MA152WK-X	SI DIODE			
D 161	MA152WK-X	SI DIODE			
D 241	1SS133-T1	SI DIODE			
D 242	1SS133-T1	SI DIODE			
D 341	MA152WA-X	DIODE			
D 501	DSK10C-T1	DIODE			
D 781	MA152WK-X	SI DIODE			
D 782	1SS133-T1	SI DIODE			
D 784	MA3110/M/-X	ZENER DIODE			
D 891	MA152WA-X	DIODE			
D 909	MA152WA-X	DIODE			
D 910	CRS03-W	SB DIODE			
D 911	1N5401-TU-15	DIODE			
D 912	CRS03-W	SB DIODE			
D 953	MA152WK-X	SI DIODE			
IC 71	SAA6579T-X	IC			
IC161	TEA6320T-X	IC			
IC301	HA13158A	IC			
IC501	LA6567H-X	IC			
IC521	TA2109F-X	IC			
IC541	TC9462F	IC			
IC581	NJM4565M-WE	IC			
IC701	UPD178078GF-540	IC			
IC961	BA4905-V3	IC			
J 1	QNZ0009-001	CAR ANT JACK			
J 301	QNN0170-001	PIN JACK (REEL)			
L 1	QQL244J-4R7Z	INDUCTOR			
L 541	QQL244J-4R7Z	INDUCTOR			
L 542	QQL244J-4R7Z	INDUCTOR			
L 701	QQL244J-4R7Z	INDUCTOR			

▲	Item	Parts number	Parts name	Remarks	Area
	L 961	QQR0703-001	CHOKE COIL		
	Q 1	UN2211-X	TRANSISTOR		
	Q 2	2SD601A/R/-X	TRANSISTOR		
	Q 3	UN2111-X	TRANSISTOR		
	Q 4	2SB709A/R/-X	TRANSISTOR		
	Q 5	2SB815/7-X	TRANSISTOR		
	Q 7	UN2211-X	TRANSISTOR		
	Q 31	2SD601A/R/-X	TRANSISTOR		
	Q 32	2SD601A/R/-X	TRANSISTOR		
	Q 41	2SD601A/R/-X	TRANSISTOR		
	Q 42	2SC3661-X	TRANSISTOR		
	Q 43	UN2211-X	TRANSISTOR		
	Q 51	2SD601A/R/-X	TRANSISTOR		
	Q 52	2SD601A/R/-X	TRANSISTOR		
	Q 53	UN2211-X	TRANSISTOR		
	Q 161	2SD601A/R/-X	TRANSISTOR		
	Q 162	UN2111-X	TRANSISTOR		
	Q 174	UN2111-X	TRANSISTOR		
	Q 181	2SD601A/R/-X	TRANSISTOR		
	Q 241	2SD601A/R/-X	TRANSISTOR		
	Q 341	2SD1048/6-7/-X	TRANSISTOR		
	Q 351	2SD1048/6-7/-X	TRANSISTOR		
	Q 501	2SB1322/RS/-T	TRANSISTOR		
	Q 521	2SB1322/RS/-T	TRANSISTOR		
	Q 781	UN2111-X	TRANSISTOR		
	Q 782	UN2211-X	TRANSISTOR		
	Q 783	UN2111-X	TRANSISTOR		
	Q 891	UN2211-X	TRANSISTOR		
	Q 901	2SB709A/R/-X	TRANSISTOR		
	Q 902	UN2213-X	TRANSISTOR		
	Q 976	UN2211-X	TRANSISTOR		
	Q 977	2SB709A/R/-X	TRANSISTOR		
	R 1	NRSA02J-0R0X	MG RESISTOR		
	R 2	NRSA02J-102X	MG RESISTOR		
	R 3	NRSA02J-102X	MG RESISTOR		
	R 4	NRSA02J-223X	MG RESISTOR		
	R 5	NRSA02J-472X	MG RESISTOR		
	R 6	NRSA02J-473X	MG RESISTOR		
	R 7	NRSA02J-472X	MG RESISTOR		
	R 8	NRSA02J-473X	MG RESISTOR		
	R 9	NRSA02J-332X	MG RESISTOR		
	R 10	NRS181J-8R2X	MG RESISTOR		
	R 31	NRSA02J-102X	MG RESISTOR		
	R 32	NRSA02J-103X	MG RESISTOR		
	R 33	NRSA02J-152X	MG RESISTOR		
	R 41	NRSA02J-332X	MG RESISTOR		
	R 42	NRSA02J-102X	MG RESISTOR		
	R 43	NRSA02J-102X	MG RESISTOR		
	R 44	NRS181J-330X	MG RESISTOR		
	R 51	NRSA02J-471X	MG RESISTOR		
	R 52	NRSA02J-153X	MG RESISTOR		
	R 53	NRSA02J-103X	MG RESISTOR		
	R 54	NRSA02J-103X	MG RESISTOR		
	R 55	NRSA02J-222X	MG RESISTOR		
	R 56	NRSA02J-473X	MG RESISTOR		
	R 57	NRSA02J-473X	MG RESISTOR		
	R 58	NRSA02J-473X	MG RESISTOR		
	R 71	NRSA02J-222X	MG RESISTOR		
	R 72	NRSA02J-222X	MG RESISTOR		
	R 73	NRSA02J-222X	MG RESISTOR		
	R 161	NRSA02J-224X	MG RESISTOR		
	R 162	NRSA02J-223X	MG RESISTOR		
	R 163	NRSA02J-222X	MG RESISTOR		

## ■ Electrical parts list(Main board)

Block No. 01

Item	Parts number	Parts name	Remarks	Area	Item	Parts number	Parts name	Remarks	Area
R 164	NRSA02J-332X	MG RESISTOR			R 550	NRSA02J-333X	MG RESISTOR		
R 165	NRSA02J-473X	MG RESISTOR			R 551	NRSA02J-103X	MG RESISTOR		
R 166	NRSA02J-473X	MG RESISTOR			R 552	NRSA02J-152X	MG RESISTOR		
R 167	NRSA02J-103X	MG RESISTOR			R 553	NRSA02J-153X	MG RESISTOR		
R 168	NRSA02J-223X	MG RESISTOR			R 554	NRSA02J-332X	MG RESISTOR		
R 169	NRSA02J-472X	MG RESISTOR			R 555	NRSA02J-332X	MG RESISTOR		
R 170	NRSA02J-472X	MG RESISTOR			R 556	NRSA02J-682X	MG RESISTOR		
R 181	NRSA02J-224X	MG RESISTOR			R 557	NRSA02J-152X	MG RESISTOR		
R 182	NRSA02J-223X	MG RESISTOR			R 558	NRS181J-101X	MG RESISTOR		
R 183	NRSA02J-222X	MG RESISTOR			R 581	NRSA02J-243X	MG RESISTOR		
R 184	NRSA02J-332X	MG RESISTOR			R 582	NRSA02J-223X	MG RESISTOR		
R 185	NRSA02J-473X	MG RESISTOR			R 583	NRSA02J-223X	MG RESISTOR		
R 186	NRSA02J-473X	MG RESISTOR			R 584	NRSA02J-333X	MG RESISTOR		
R 187	NRSA02J-103X	MG RESISTOR			R 585	NRSA02J-123X	MG RESISTOR		
R 188	NRSA02J-223X	MG RESISTOR			R 586	NRSA02J-152X	MG RESISTOR		
R 241	NRSA02J-224X	MG RESISTOR			R 591	NRSA02J-243X	MG RESISTOR		
R 242	NRSA02J-102X	MG RESISTOR			R 592	NRSA02J-223X	MG RESISTOR		
R 243	NRSA02J-101X	MG RESISTOR			R 593	NRSA02J-223X	MG RESISTOR		
R 244	NRSA02J-123X	MG RESISTOR			R 594	NRSA02J-333X	MG RESISTOR		
R 245	NRSA02J-184X	MG RESISTOR			R 595	NRSA02J-123X	MG RESISTOR		
R 246	NRSA02J-223X	MG RESISTOR			R 596	NRSA02J-152X	MG RESISTOR		
R 247	NRSA02J-473X	MG RESISTOR			R 685	NRSA02J-103X	MG RESISTOR		
R 310	NRSA02J-472X	MG RESISTOR			R 686	NRSA02J-103X	MG RESISTOR		
R 321	NRSA02J-273X	MG RESISTOR			R 701	NRSA02J-102X	MG RESISTOR		
R 331	NRSA02J-273X	MG RESISTOR			R 702	NRSA02J-122X	MG RESISTOR		
R 341	NRSA02J-273X	MG RESISTOR			R 703	NRSA02J-222X	MG RESISTOR		
R 342	NRSA02J-102X	MG RESISTOR			R 704	NRSA02J-222X	MG RESISTOR		
R 343	NRSA02J-222X	MG RESISTOR			R 705	NRSA02J-222X	MG RESISTOR		
R 344	NRSA02J-101X	MG RESISTOR			R 706	NRSA02J-103X	MG RESISTOR		
R 351	NRSA02J-273X	MG RESISTOR			R 707	NRSA02J-473X	MG RESISTOR		
R 352	NRSA02J-102X	MG RESISTOR			R 708	NRSA02J-473X	MG RESISTOR		
R 353	NRSA02J-222X	MG RESISTOR			R 709	NRSA02J-472X	MG RESISTOR		
R 354	NRSA02J-101X	MG RESISTOR			R 710	NRSA02J-472X	MG RESISTOR		
R 501	NRSA02J-822X	MG RESISTOR			R 711	NRSA02J-472X	MG RESISTOR		
R 502	NRSA02J-562X	MG RESISTOR			R 712	NRSA02J-472X	MG RESISTOR		
R 503	NRSA02J-242X	MG RESISTOR			R 713	NRSA02J-103X	MG RESISTOR		
R 504	NRSA02J-203X	MG RESISTOR			R 714	NRSA02J-103X	MG RESISTOR		
R 506	NRS181J-0R0X	MG RESISTOR			R 715	NRSA02J-103X	MG RESISTOR		
R 507	NRS181J-822X	MG RESISTOR			R 716	NRSA02J-103X	MG RESISTOR		
R 508	NRS181J-203X	MG REGISTOR			R 717	NRSA02J-103X	MG RESISTOR		
R 521	NRSA02J-473X	MG RESISTOR			R 718	NRSA02J-103X	MG RESISTOR		
R 522	NRSA02J-473X	MG RESISTOR			R 719	NRSA02J-472X	MG RESISTOR		
R 523	NRSA02J-473X	MG RESISTOR			R 720	NRSA02J-472X	MG RESISTOR		
R 524	NRSA02J-473X	MG RESISTOR			R 721	NRSA02J-472X	MG RESISTOR		
R 525	NRSA02J-104X	MG RESISTOR			R 722	NRSA02J-0R0X	MG RESISTOR		
R 526	NRSA02J-104X	MG RESISTOR			R 723	NRSA02J-104X	MG RESISTOR		
R 527	NRSA02J-220X	MG RESISTOR			R 725	NRSA02J-104X	MG RESISTOR		
R 528	NRSA02J-220X	MG RESISTOR			R 726	NRSA02J-473X	MG RESISTOR		
R 529	NRSA02J-273X	MG RESISTOR			R 727	NRSA02J-473X	MG RESISTOR		
R 530	NRSA02J-473X	MG RESISTOR			R 728	NRSA02J-473X	MG RESISTOR		
R 531	NRSA02J-222X	MG RESISTOR			R 729	NRSA02J-473X	MG RESISTOR		
R 532	NRSA02J-153X	MG RESISTOR			R 730	NRSA02J-104X	MG RESISTOR		
R 533	NRSA02J-682X	MG RESISTOR			R 731	NRSA02J-104X	MG RESISTOR		
R 534	NRSA02J-473X	MG RESISTOR			R 732	NRSA02J-473X	MG RESISTOR		
R 541	NRSA02J-472X	MG RESISTOR			R 733	NRSA02J-473X	MG RESISTOR		
R 542	NRSA02J-472X	MG RESISTOR			R 734	NRSA02J-103X	MG RESISTOR		
R 543	NRSA02J-472X	MG RESISTOR			R 736	NRSA02J-103X	MG RESISTOR		
R 544	NRSA02J-472X	MG RESISTOR			R 737	NRSA02J-473X	MG RESISTOR		
R 545	NRSA02J-103X	MG RESISTOR			R 738	NRSA02J-103X	MG RESISTOR		
R 546	NRSA02J-103X	MG RESISTOR			R 739	NRSA02J-473X	MG RESISTOR		
R 547	NRSA02J-473X	MG RESISTOR			R 740	NRSA02J-103X	MG RESISTOR		
R 548	NRSA02J-683X	MG RESISTOR			R 743	NRSA02J-473X	MG RESISTOR		SELECT2
R 549	NRSA02J-474X	MG RESISTOR			R 744	NRSA02J-222X	MG RESISTOR	LM0	

## ■ Electrical parts list(Main board)

Block No. 01

A	Item	Parts number	Parts name	Remarks	Area
	R 745	NRSA02J-222X	MG RESISTOR	LM1	
	R 746	NRSA02J-473X	MG RESISTOR	STAGE2 P.UP	
	R 750	NRSA02J-473X	MG RESISTOR	NO REMOCON	
	R 781	NRS181J-273X	MG RESISTOR		
	R 782	NRS181J-102X	MG RESISTOR		
	R 801	NRSA02J-104X	MG RESISTOR		
	R 802	NRSA02J-104X	MG RESISTOR		
	R 803	NRSA02J-104X	MG RESISTOR		
	R 806	NRSA02J-223X	MG RESISTOR		
	R 807	NRSA02J-104X	MG RESISTOR		
	R 809	NRSA02J-104X	MG RESISTOR		
	R 891	NRSA02J-473X	MG RESISTOR		
	R 892	NRSA02J-102X	MG RESISTOR		
	R 901	NRSA02J-222X	MG RESISTOR		
	R 902	NRSA02J-473X	MG RESISTOR		
	R 903	NRSA02J-0R0X	MG RESISTOR		
	R 905	NRSA02J-472X	MG RESISTOR		
	R 906	NRSA02J-103X	MG RESISTOR		
	R 907	QRZ0125-470X	C RESISTOR	47 1/1W	
	R 911	NRSA02J-100X	MG RESISTOR		
	R 976	NRSA02J-473X	MG RESISTOR		
	R 977	NRSA02J-273X	MG RESISTOR		
	R 978	NRSA02J-123X	MG RESISTOR		
	TU 1	QAU0222-001	TUNER		
	X 71	QAX0263-001Z	CRYSTAL		
	X 541	QAX0413-001Z	CRYSTAL		
	X 701	QAX0406-002Z	CRYSTAL		

## ■ Electrical parts list(Front board)

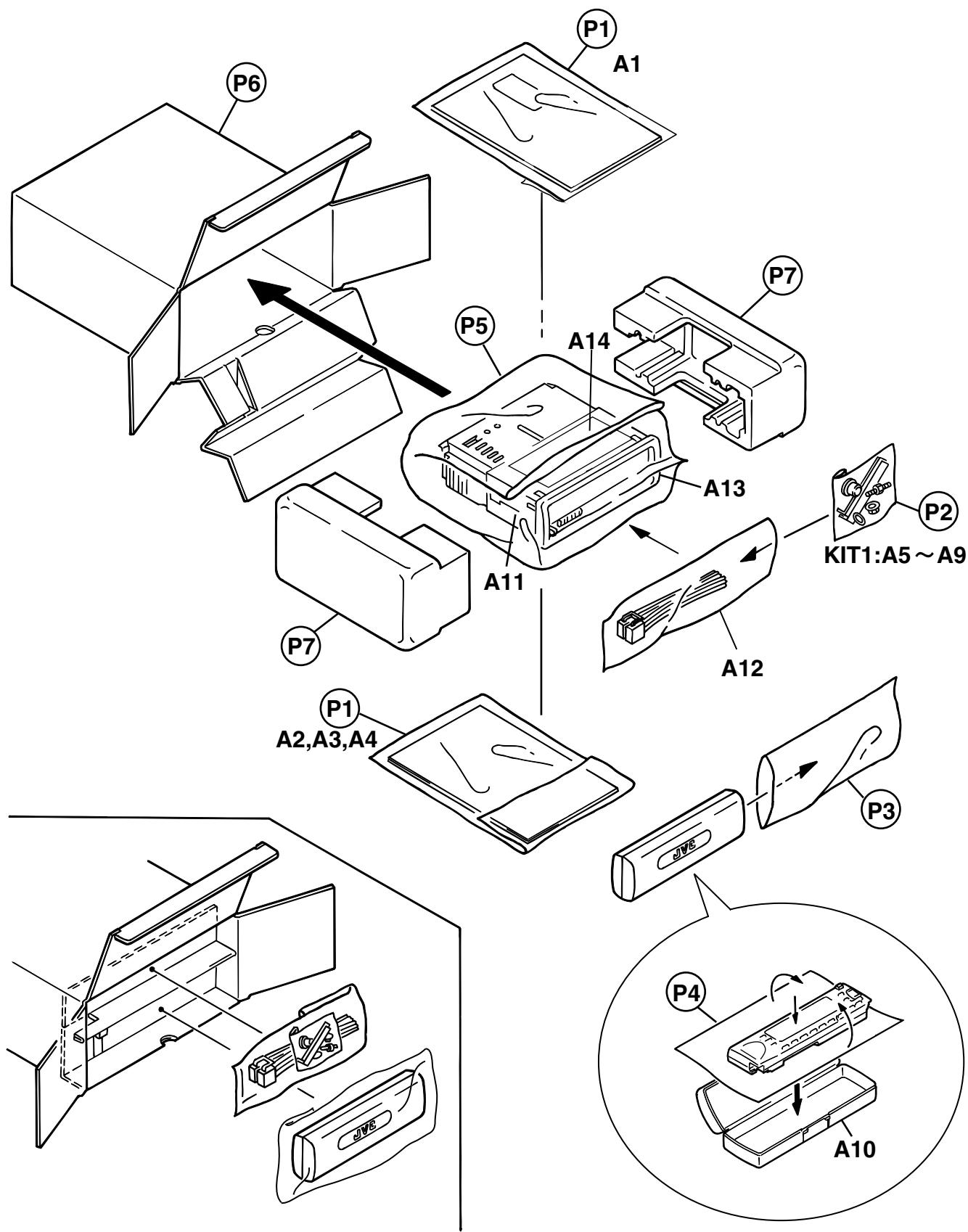
Block No. 02

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	C 601	NCB31HK-223X	C CAPACITOR				R 602	NRSA63J-122X	MG RESISTOR		
	C 602	NCS31HJ-681X	C CAPACITOR				R 603	NRSA63J-182X	MG RESISTOR		
	C 603	NBE20JM-106X	TS E CAP SVB20J				R 604	NRSA63J-272X	MG RESISTOR		
	C 681	NCB31HK-223X	C CAPACITOR				R 605	NRSA63J-392X	MG RESISTOR		
	C 682	NCB31HK-223X	C CAPACITOR				R 606	NRSA63J-821X	MG RESISTOR		
	CJ601	VMC0335-001	CONNECTOR				R 607	NRSA63J-821X	MG RESISTOR		
	D 601	LNJ308G81/1-3/X	LED	KD-S711R			R 608	NRSA63J-122X	MG RESISTOR		
	D 601	SML-310DT/KL/-X	LED	KD-S713R			R 609	NRSA63J-182X	MG RESISTOR		
	D 602	SML-310DT/KL/-X	LED	KD-S713R			R 610	NRSA63J-272X	MG RESISTOR		
	D 602	LNJ308G81/1-3/X	LED	KD-S711R			R 611	NRSA63J-392X	MG RESISTOR		
	D 603	LNJ308G81/1-3/X	LED	KD-S711R			R 612	NRSA63J-821X	MG RESISTOR		
	D 603	SML-310DT/KL/-X	LED	KD-S713R			R 613	NRSA63J-821X	MG RESISTOR		
	D 604	SML-310DT/KL/-X	LED	KD-S713R			R 614	NRSA63J-122X	MG RESISTOR		
	D 604	LNJ308G81/1-3/X	LED	KD-S711R			R 615	NRSA63J-182X	MG RESISTOR		
	D 605	LNJ308G81/1-3/X	LED	KD-S711R			R 616	NRSA63J-272X	MG RESISTOR		
	D 605	SML-310DT/KL/-X	LED	KD-S713R			R 617	NRSA63J-821X	MG RESISTOR		
	D 606	SML-310DT/KL/-X	LED	KD-S713R			R 618	NRSA63J-182X	MG RESISTOR		
	D 606	LNJ308G81/1-3/X	LED	KD-S711R			R 619	NRSA63J-821X	MG RESISTOR		
	D 607	LNJ308G81/1-3/X	LED	KD-S711R			R 620	NRSA63J-511X	MG RESISTOR		
	D 607	SML-310DT/KL/-X	LED	KD-S713R			R 621	NRSA63J-511X	MG RESISTOR		
	D 608	SML-310DT/KL/-X	LED	KD-S713R			R 622	NRSA63J-511X	MG RESISTOR		
	D 608	LNJ308G81/1-3/X	LED	KD-S711R			R 623	NRSA63J-511X	MG RESISTOR		
	D 609	LNJ308G81/1-3/X	LED	KD-S711R			R 624	NRSA63J-511X	MG RESISTOR		
	D 609	SML-310DT/KL/-X	LED	KD-S713R			R 625	NRSA63J-511X	MG RESISTOR		
	D 610	SML-310DT/KL/-X	LED	KD-S713R			R 626	NRSA63J-511X	MG RESISTOR		
	D 610	LNJ308G81/1-3/X	LED	KD-S711R			R 627	NRSA63J-511X	MG RESISTOR		
	D 611	LNJ308G81/1-3/X	LED	KD-S711R			R 628	NRSA63J-511X	MG RESISTOR		
	D 611	SML-310DT/KL/-X	LED	KD-S713R			R 629	NRSA63J-511X	MG RESISTOR		
	D 613	SML-310DT/KL/-X	LED	KD-S713R			R 630	NRSA63J-511X	MG RESISTOR		
	D 613	LNJ308G81/1-3/X	LED	KD-S711R			R 631	NRSA63J-511X	MG RESISTOR		
	D 614	SML-310DT/KL/-X	LED	KD-S713R			R 632	NRSA63J-511X	MG RESISTOR		
	D 614	LNJ308G81/1-3/X	LED	KD-S711R			R 633	NRSA63J-511X	MG RESISTOR		
	D 615	SML-310DT/KL/-X	LED	KD-S713R			R 634	NRSA63J-511X	MG RESISTOR		
	D 615	LNJ308G81/1-3/X	LED	KD-S711R			R 635	NRSA63J-511X	MG RESISTOR		
	D 616	LNJ308G81/1-3/X	LED	KD-S711R			R 636	NRSA63J-511X	MG RESISTOR		
	D 616	SML-310DT/KL/-X	LED	KD-S713R			R 637	NRSA63J-511X	MG RESISTOR		
	D 617	SML-310DT/KL/-X	LED	KD-S713R			R 638	NRSA63J-511X	MG RESISTOR		
	D 617	LNJ308G81/1-3/X	LED	KD-S711R			R 639	NRSA63J-511X	MG RESISTOR		
	D 617	SML-310VT/JK/-X	LED	KD-S711R			R 640	NRSA63J-511X	MG RESISTOR		
	D 618	SML-310VT/JK/-X	LED	KD-S711R			R 641	NRSA63J-511X	MG RESISTOR		
	D 618	LNJ308G81/1-3/X	LED	KD-S711R			R 642	NRSA63J-511X	MG RESISTOR		
	D 619	LNJ308G81/1-3/X	LED	KD-S711R			R 643	NRSA63J-511X	MG RESISTOR		
	D 619	SML-310DT/KL/-X	LED	KD-S713R			R 644	NRSA63J-511X	MG RESISTOR		
	D 620	SML-310DT/KL/-X	LED	KD-S713R			R 645	NRSA63J-511X	MG RESISTOR		
	D 620	LNJ308G81/1-3/X	LED	KD-S711R			R 646	NRSA63J-511X	MG RESISTOR		
	D 621	LNJ308G81/1-3/X	LED	KD-S711R			R 647	NRSA63J-511X	MG RESISTOR		
	D 621	SML-310DT/KL/-X	LED	KD-S713R			R 648	NRSA63J-511X	MG RESISTOR		
	D 622	SML-310DT/KL/-X	LED	KD-S713R			R 649	NRSA63J-511X	MG RESISTOR		
	D 622	LNJ308G81/1-3/X	LED	KD-S711R			R 650	NRSA63J-222X	MG RESISTOR		
	D 623	SML-310DT/KL/-X	LED	KD-S713R			R 651	NRSA63J-222X	MG RESISTOR		
	D 623	LNJ308G81/1-3/X	LED	KD-S711R			R 652	NRSA63J-222X	MG RESISTOR		
	D 624	SML-310DT/KL/-X	LED	KD-S713R			R 653	NRSA63J-103X	MG RESISTOR		
	D 624	LNJ308G81/1-3/X	LED	KD-S711R			R 654	NRSA63J-103X	MG RESISTOR		
	D 625	SML-310LT/MN/-X	LED	KD-S711R			R 655	NRSA63J-103X	MG RESISTOR		
	D 641	UDZS5.1B-X	Z DIODE				R 656	NRSA63J-103X	MG RESISTOR		
	D 642	ISS355-X	DIODE				R 657	NRSA63J-513X	MG RESISTOR		
	D 643	ISS355-X	DIODE				R 658	NRSA63J-184X	MG RESISTOR		
	IC601	LC75823W	IC				R 681	NRSA63J-101X	MG RESISTOR		
	JS690	QSW0863-001	JOG SHUTTLE SW				S 601	NSW0124-001X	TACT SW	POWER	
	PL601	QLL0056-001	PILOT LAMP	KD-S711R			S 602	NSW0124-001X	TACT SW	1	
	PL601	QLL0075-001	PILOT LAMP	KD-S713R			S 603	NSW0124-001X	TACT SW	2	
	PL602	QLL0075-001	PILOT LAMP	KD-S713R			S 604	NSW0124-001X	TACT SW	3	
	PL602	QLL0056-001	PILOT LAMP	KD-S711R			S 605	NSW0124-001X	TACT SW	4	
	R 601	NRSA63J-182X	MG RESISTOR				S 606	NSW0124-001X	TACT SW	5	
							S 607	NSW0124-001X	TACT SW	SELECT	
							S 608	NSW0124-001X	TACT SW	LOUD	
							S 609	NSW0124-001X	TACT SW	DISP	
							S 610	NSW0124-001X	TACT SW	SCAN/RPT	
							S 611	NSW0124-001X	TACT SW	MO/RND	
							S 612	NSW0124-001X	TACT SW	EJECT	
							S 613	NSW0124-001X	TACT SW		
							S 614	NSW0124-001X	TACT SW	6	
							S 615	NSW0124-001X	TACT SW	SCM	
							S 616	NSW0124-001X	TACT SW	AM	
							S 617	NSW0124-001X	TACT SW	CD	
							S 618	NSW0124-001X	TACT SW	FM	
							S 619	NSW0124-001X	TACT SW		

## Packing materials and accessories parts list

Block No. M 3 M M

Block No. M 4 M M



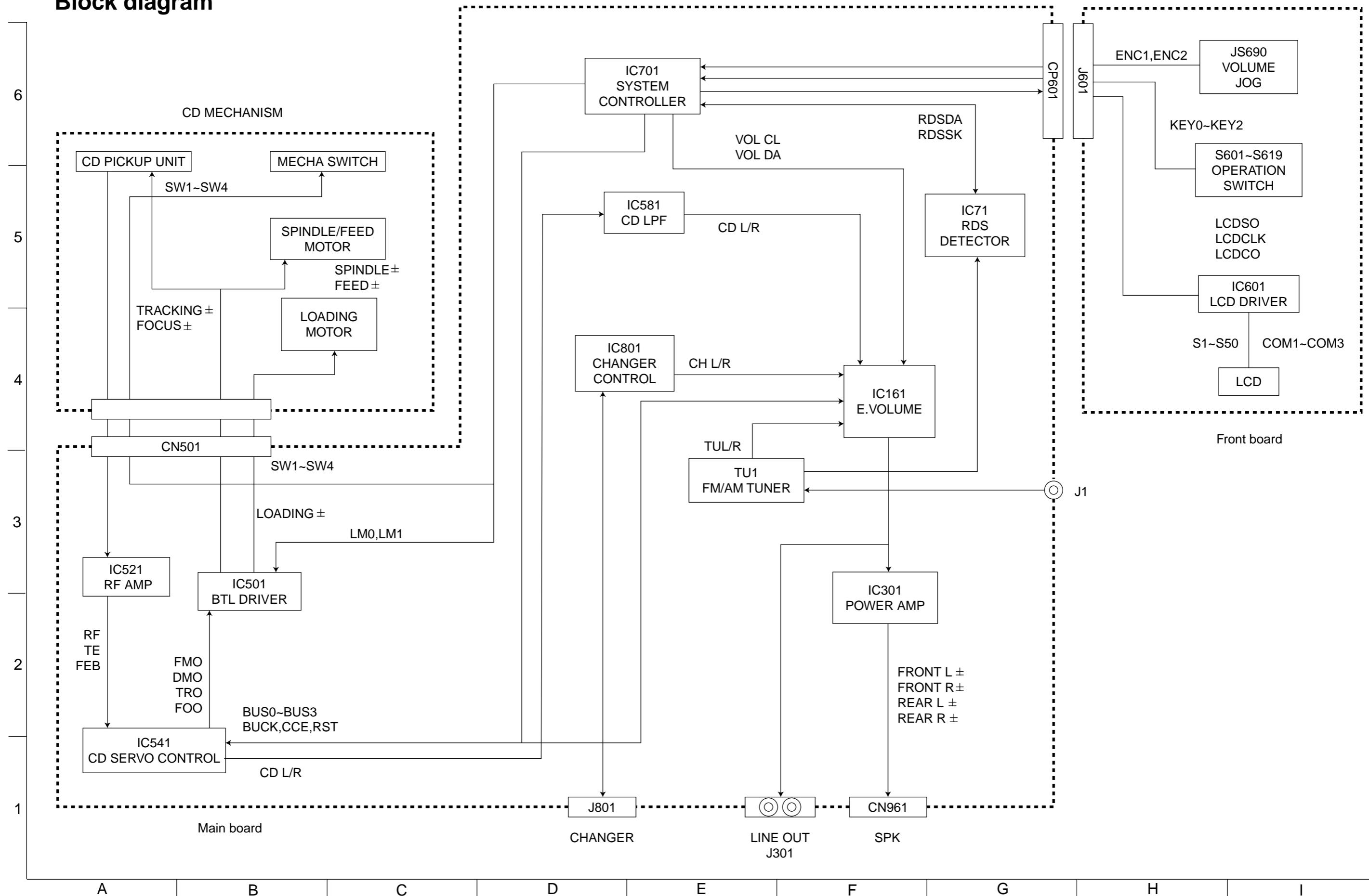
**■ Parts list(Packing)****Block No. M3MM**

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	FSPG4002-001	POLY BAG	2	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	SET(300X430X0.0	
	P 6	GE30123-009A	CARTON	1	KD-S713R	
		GE30123-008A	CARTON	1	KD-S711R	
	P 7	GE10008-001A	CUSHION	2		

**■ Parts list(Accessories)****Block No. M4MM**

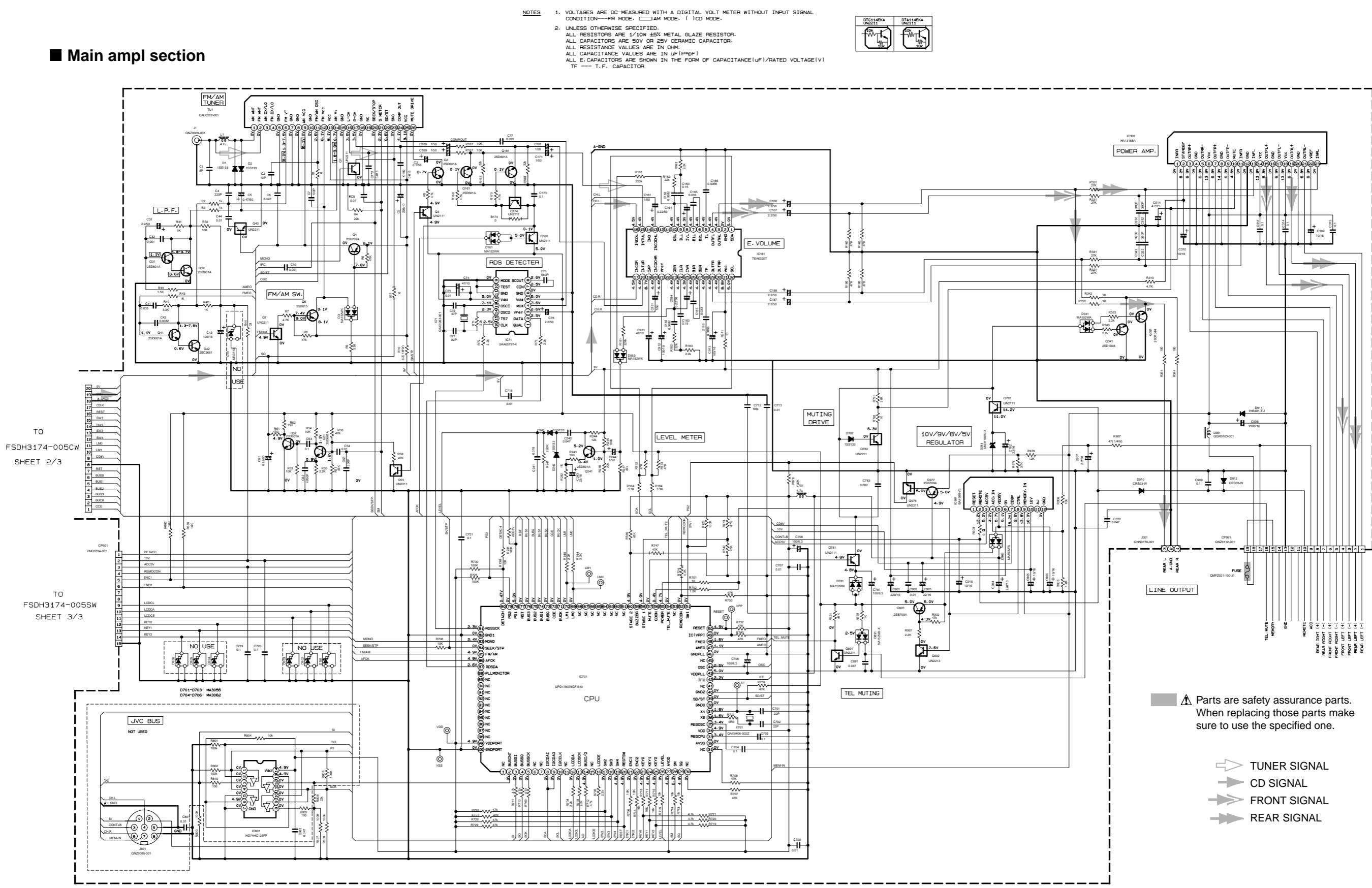
△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GET0013-001A	INST.BOOK	1	ENG GER FRE DUT	
	A 2	GET0013-002A	INST.BOOK	1	SPA ITA SWE FIN	
	A 3	GET0013-003A	INSTALL MANUAL	1	ENG GER FRE	
		GET0013-004A	INSTALL MANUAL	1	DUT SPA ITA	
		GET0013-005A	INSTALL MANUAL	1	SWE FIN	
	A 4	BT-54013-1	WARRANTY CARD	1		
	A 5	VKZ4027-202	PLUG NUT	1		
	A 6	VKH4871-001SS	MOUNT BOLT	1		
	A 7	VKZ4328-001	LOCK NUT	1	FOR M5	
	A 8	WNS5000Z	WASHER	1		
	A 9	FSKL4010-002	HOOK	2		
	A 10	FSJB3001-30C	HARD CASE	1		
	A 11	FSKM2004-202	MOUNTING SLEEVE	1		
	A 12	QAM0175-001	POWER CORD	1		
	A 13	FSJD2034-001	TRIM PLATE	1		
	A 14	LV40978-001A	CAUTION SHEET	1		
	KIT	KDGS717K-SCREW1	SCREW PARTS KIT	1	A5-A9	

## Block diagram

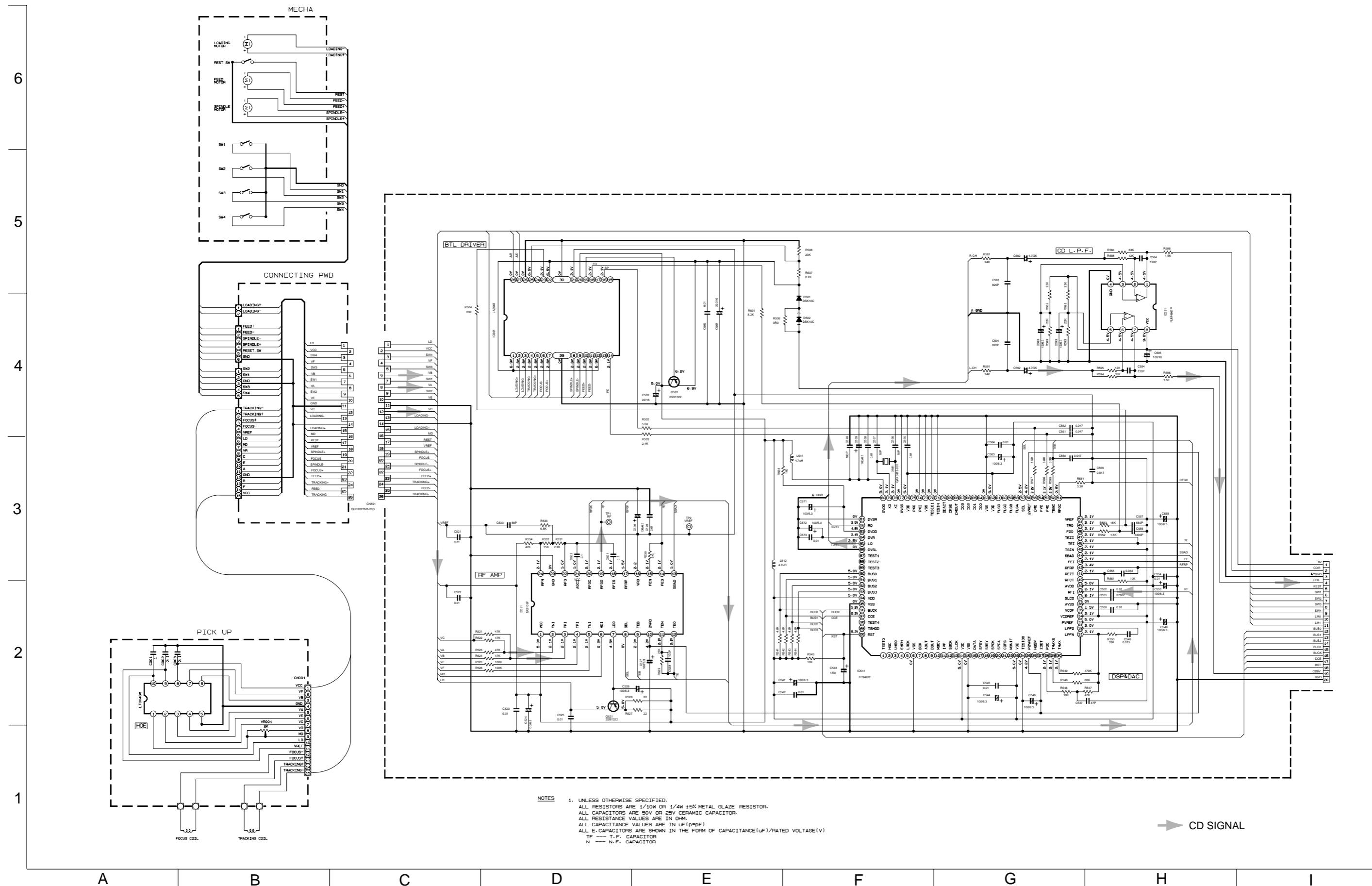


# Standard schematic diagrams

## Main ampl section

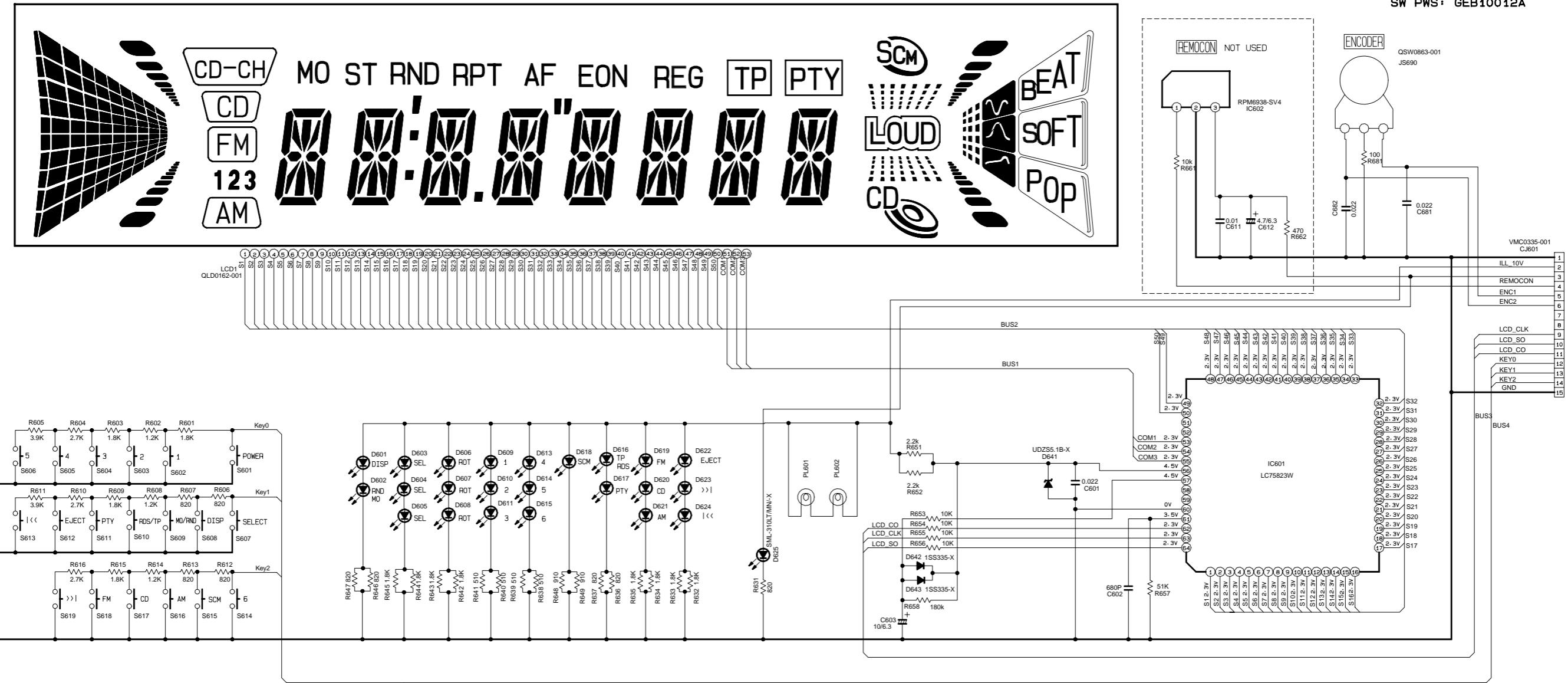


## ■ CD servo control section



## LCD & Key control section

LCD DISPLAY



KEY MATRIX

LIGHTING DISPLAY

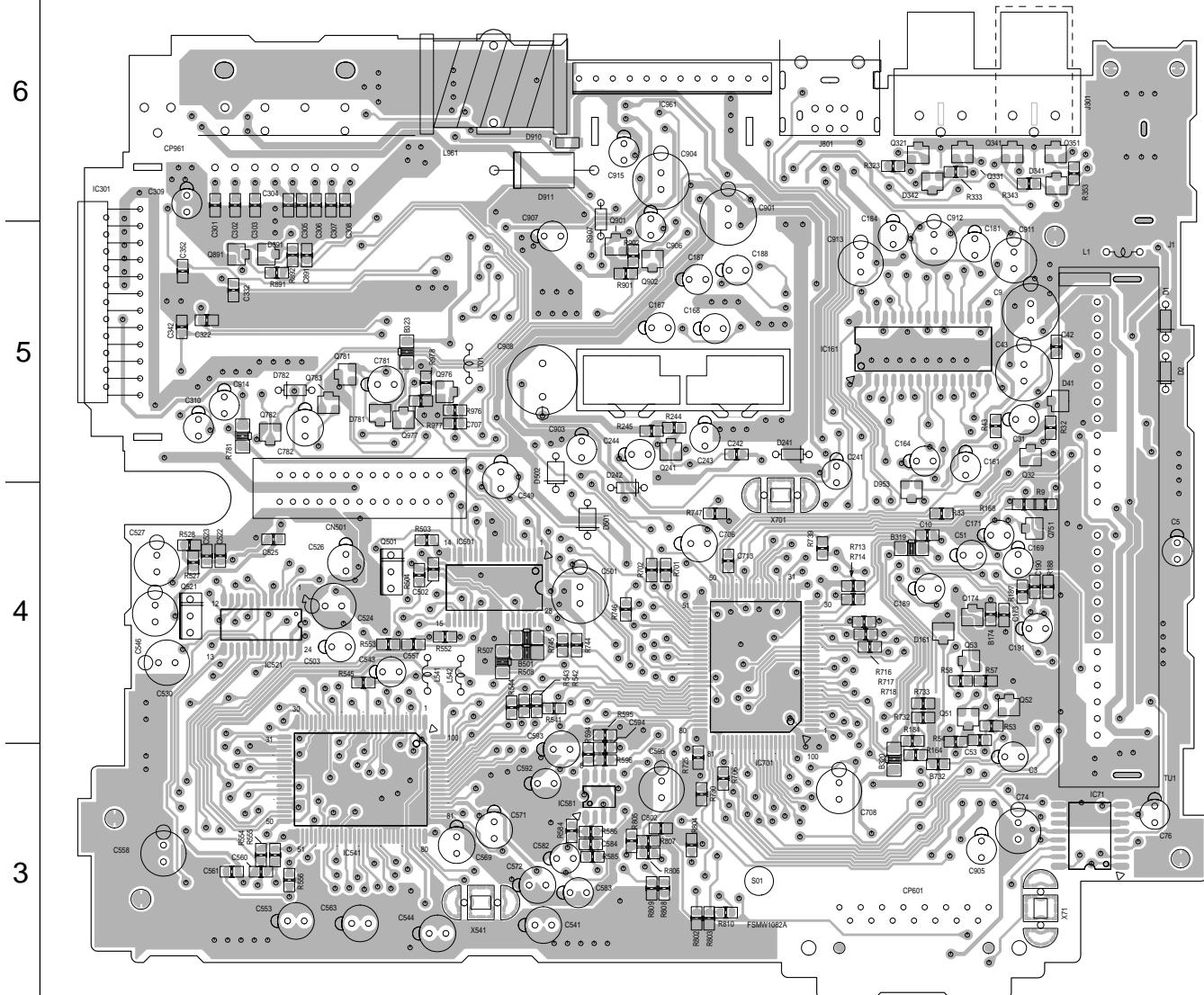
LCD DRIVER

	GREEN LED LNU308G81/1-3/X	RED LED SML-310VT/JK/-X	AMBER LED SML-310DT/KL/-X	YELLOW LED SML-310YT/JKL/X	LAMP PL601/602
KD-S711R SERIES	D601-D611 D613-D624	D618	NOT USED	NOT USED	GREEN QLL0056-001
KD-S713R SERIES	D618	NOT USED	D601-D611 D613-D624	NOT USED	AMBER QLL0075-001

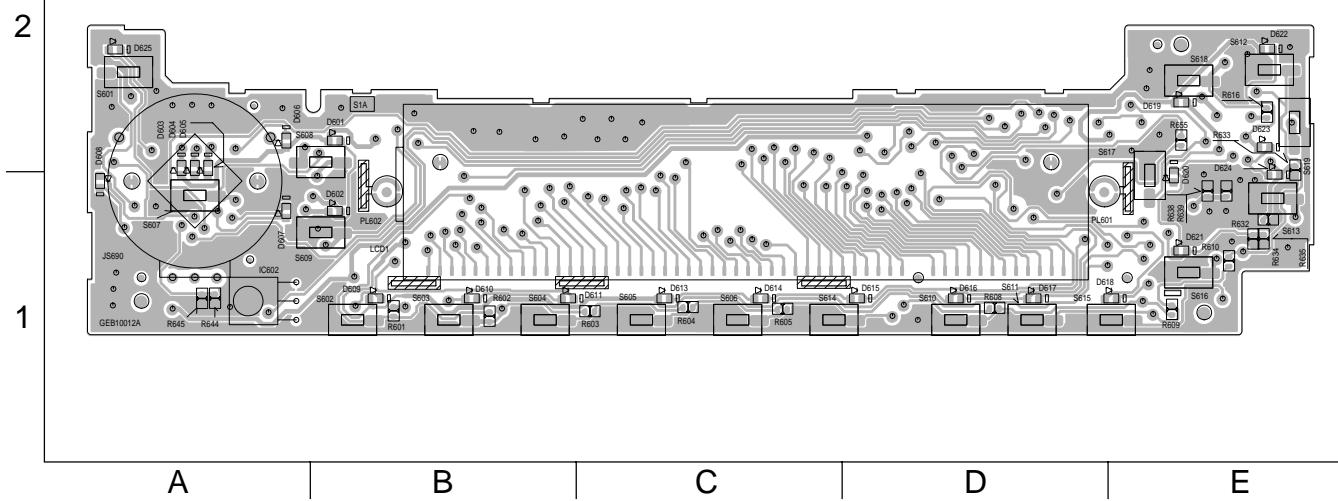
MODEL	SWITCH BOARD
KD-S711R Series	KD-SWPCB-9
KD-S713R Series	KD-SWPCB-5

# **Printed circuit boards**

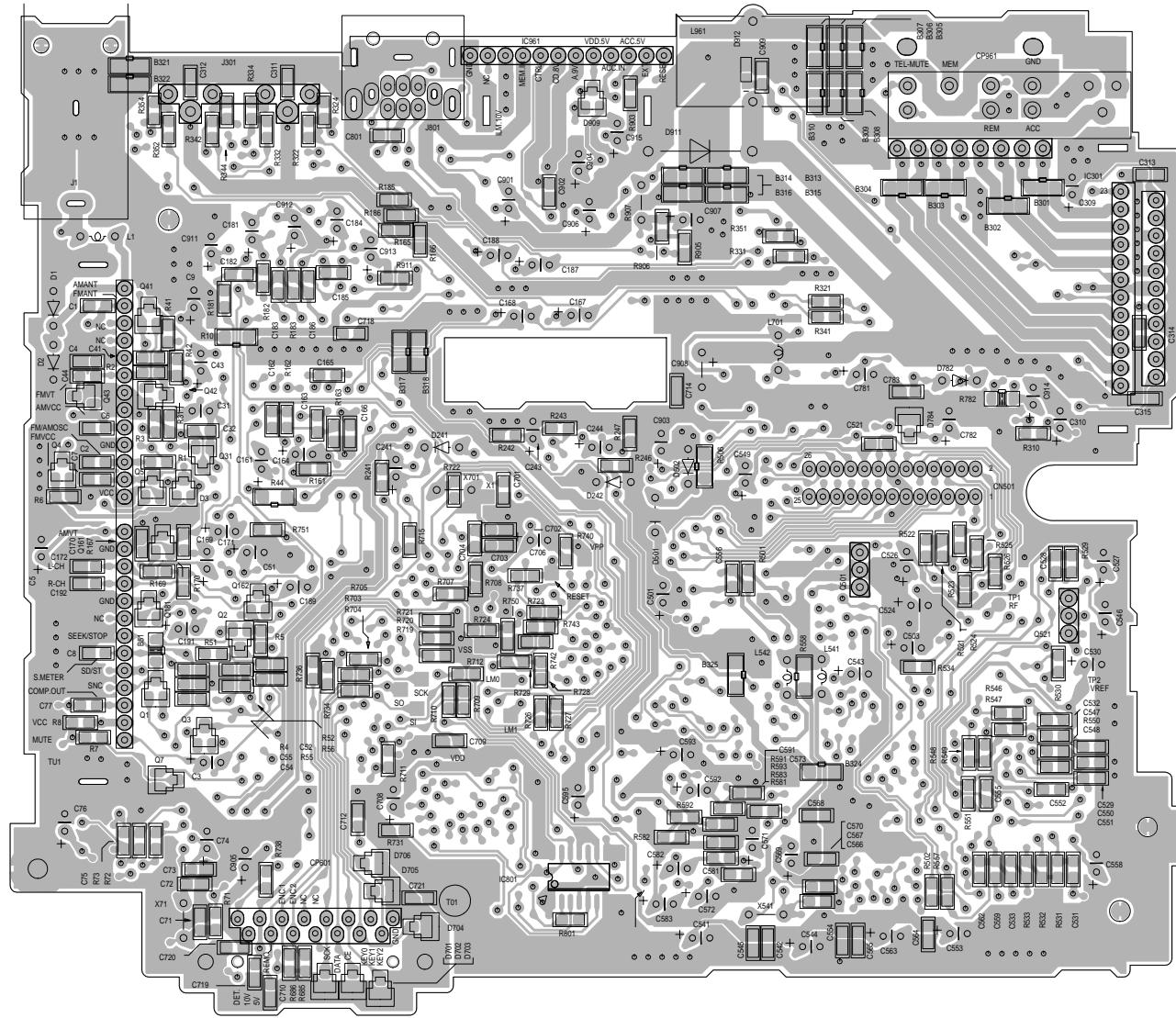
## ■ Main board (Forward side)



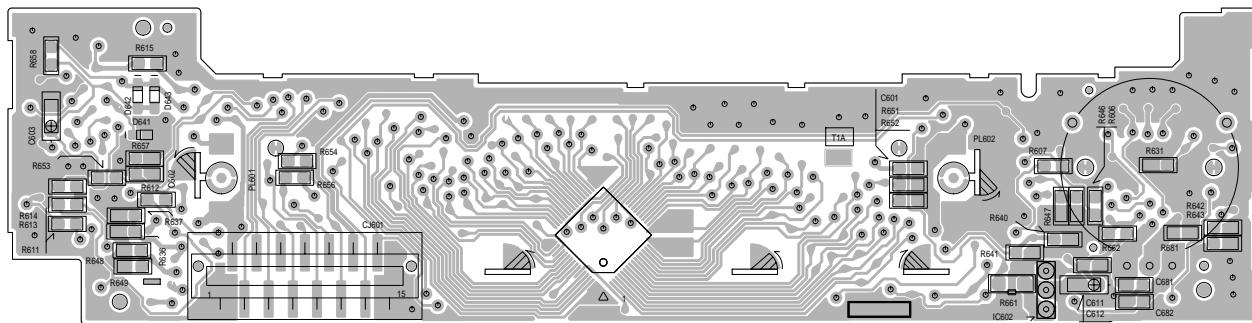
## ■ Front board (Forward side)



### ■ Main board (Reverse side)



### ■ Front board (Reverse side)



A

B

C

D

E