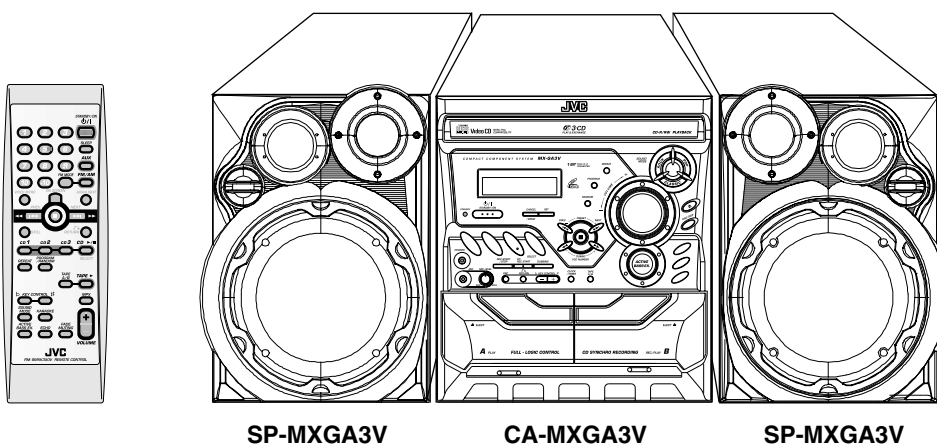


JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-GA3V



SP-MXGA3V

CA-MXGA3V

SP-MXGA3V

COMPACT
disc
DIGITAL VIDEO

VIDEO CD

Area Suffix

US SINGAPORE
UX Saudi Araia

Contents

Safety precautions	1- 2	Flow of functional	
Important for laser products	1- 3	operation until TOC read	1- 20
Preventing static electricity	1- 4	Maintenance of laser pickup	1- 21
Disassembly method	1- 5	Replacement of laser pickup	1- 21
Adjustment method	1- 18	Description of major ICs	1- 22
		Wiring connection	1- 29

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)

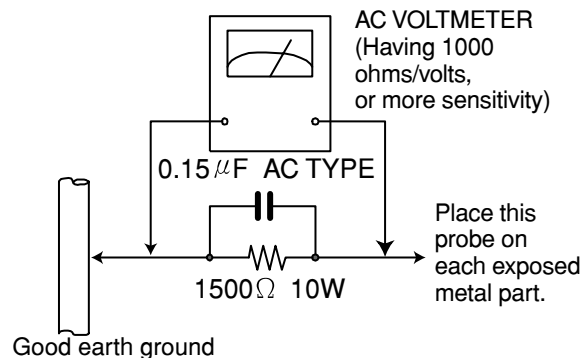
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured Any must not exceed 0.75 V AC(r.m.s.). This corresponds to 0.5 mA AC(r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

\triangle 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.

Important for laser products

1. **CLASS 1 LASER PRODUCT**
2. **CAUTION** : Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION** : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. **CAUTION** : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5. **CAUTION** : If safety switches malfunction, the laser is able to function.
6. **CAUTION** : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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

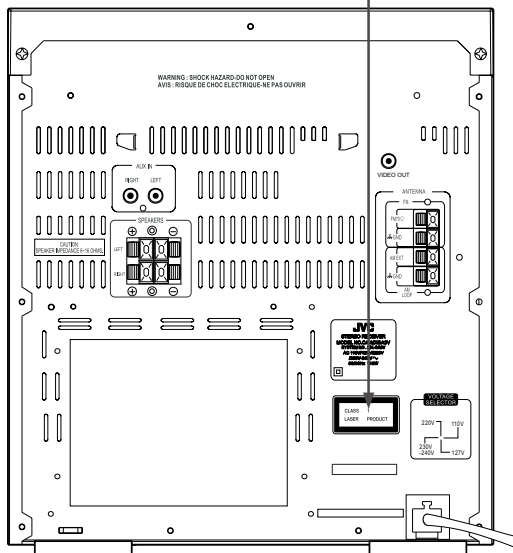
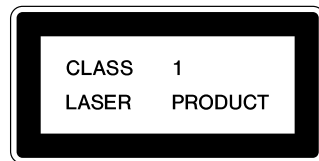
VARNING : Osynlig laserstrålning är denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alltiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsbryteren er avslott. Unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS



WARNING LABEL

<p>CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)</p>	<p>ADVARSEL : Synlig og usynlig laserstrålning når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)</p>
<p>VARNING : Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)</p>	<p>VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alltiina näkymättömälle lasersäteilylle. Vältä säteeseen kohdistumista suoraan itseesi. (f)</p>



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

In the equipment which uses optical pick-up (laser diode), optical pick-up is destroyed by the static electricity of the work environment.

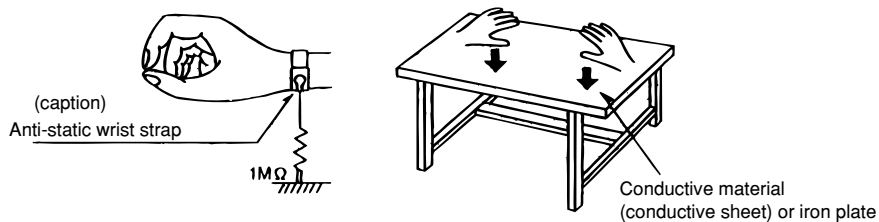
Be careful to use proper grounding in the area where repairs are being performed.

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 CD changer unit (optical pickup)

1. Do not subject the CD changer 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 CD changer 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 CD changer mechanism.

1. Remove the CD changer unit.
2. Disconnect the harness from connector on the CD motor board.
3. Solder is put up before the card wire is removed from connector Cn601 on the main board as shown in Fig.1 and Fig.2. (When the wire is removed without putting up solder, the CD pick-up assembly might destroy.)
4. Please remove solder after connecting the card wire with CN601 when you install picking up in the substrate.

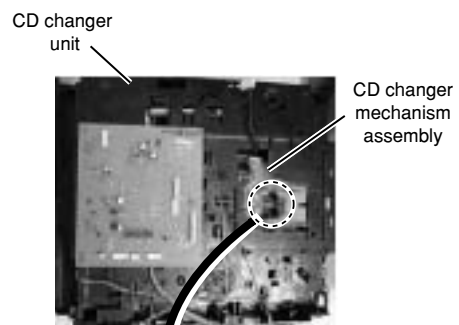


Fig.1

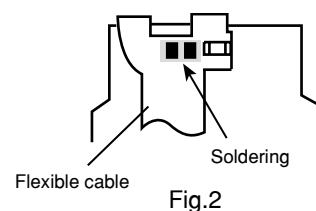


Fig.2

Disassembly method

Commence disassembly of the set by removing the main units and then proceed to the components and assemblies inside the units.

Replacement of the fuses and the power IC

- Top cover
- CD changer unit
- Front panel assembly
- Chassis unit

- CD changer unit
 - Removing the main PCB
 - Removing the CD changer mechanism assembly
 - Removing the CD pickup
 - Replacing the loading motor and belt of the CD changer tray
 - Replacing the CD tray rotor belt of CD changer, and removing the motor

- Front panel assembly
 - Removing the cassette deck mechanism
 - Removing the earphone jack PCB
 - Removing the control/FL PCB
 - Removing the switch PCB and ACTIVE BASS EX. switch PCB
 - Removing the cassette deck main motor, and replacing the main belts
 - Removing the leaf switches of the cassette deck mechanism
 - Removing the cassette deck heads

- Chassis unit
 - Removing the 3-pin regulator
 - Removing the power amp and supply PCB and the Power Trans PCB
 - Removing the sub power PCB

<Disassembly of the main blocks of the set>

Replacement of the fuses and the power IC

■ Replacing the fuses (See Fig.1, Fig.3)

- Prior to performing the following procedure, remove the left side BOARD and remove tuner PCB (Fig.3, BB)

1. Replace the fuses inside.

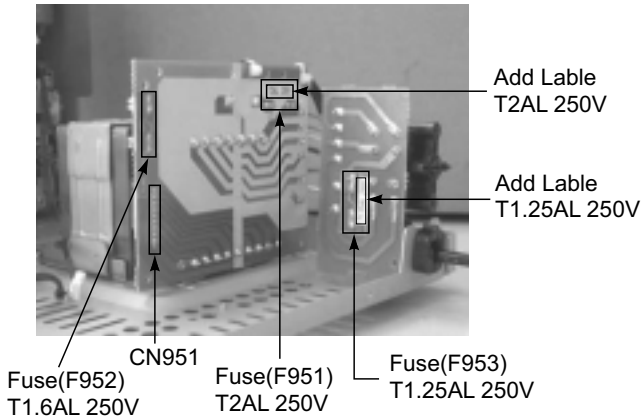
[Caution] Be sure to use fuses with the specified ratings.

■ Replacing the power IC (See Fig.2)

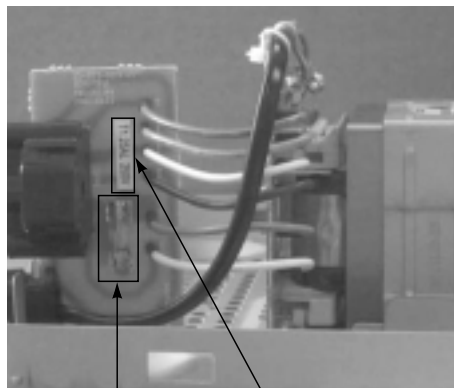
- Prior to performing the following procedure, remove the top cover.

1. Remove the two screws **A** from the heat sink between the power IC.
2. Remove the solder fixing the power IC.

Bottom side Fig.1(A)

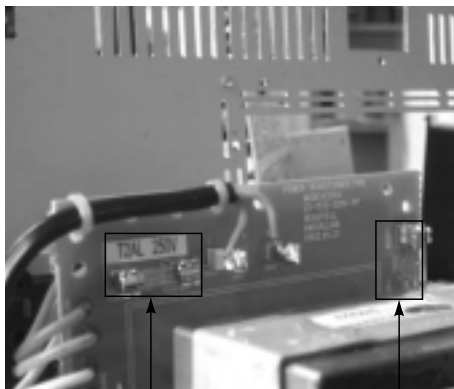


Component side Fig.1(B1)



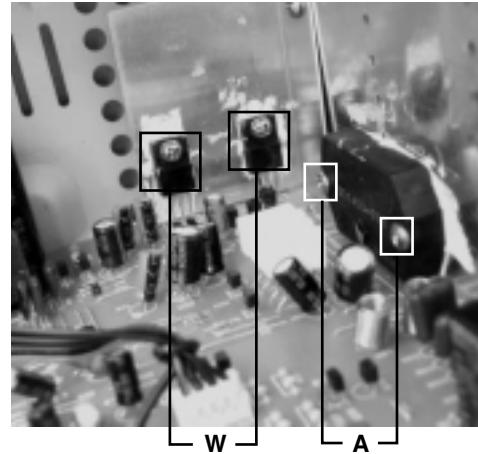
Fuse(F953) T1.25AL 250V Add Lable T1.25AL 250V

Component side Fig.1(B2)



Fuse(F951) T2AL 250V Fuse(F952) T1.6AL 250V

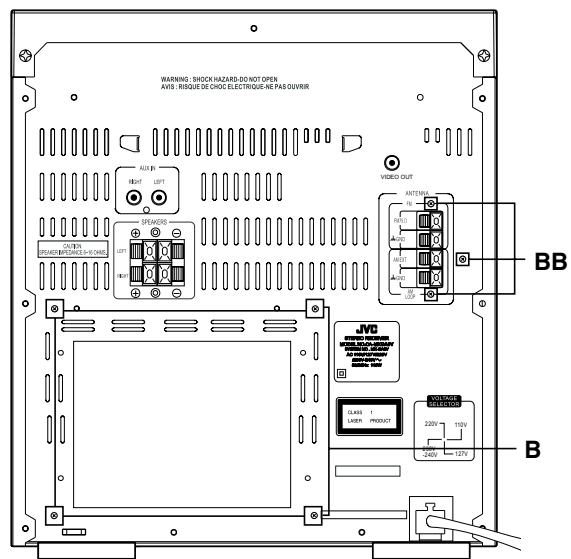
Fig.2



■ Replacing the heat sink cover (See Fig.3)

1. Remove four screws **B** from the rear panel.
2. Pull the heat sink cover outward.

Fig.3



■ **Removing the top cover**
(See Fig.4 and 5)

1. Remove six screws **B** that retain the top cover from the panel rear of the body.
2. Remove eight screws **C** and **D** that retain the top cover from the two sides of the body.
3. Remove the top cover from the body by lifting it toward the rear.

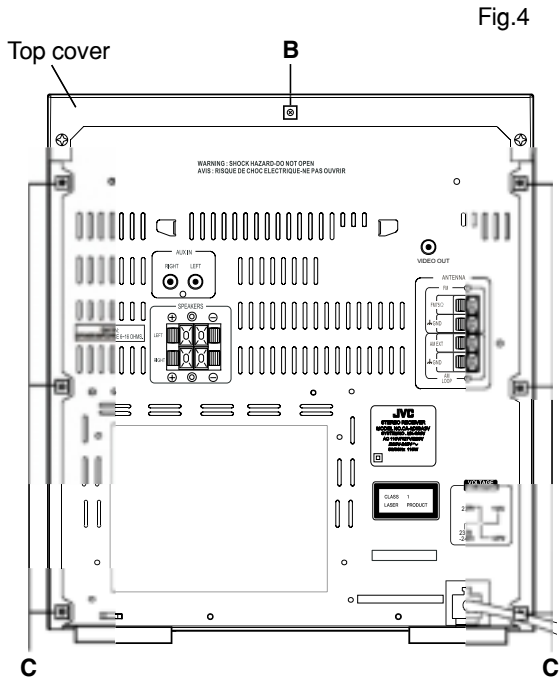
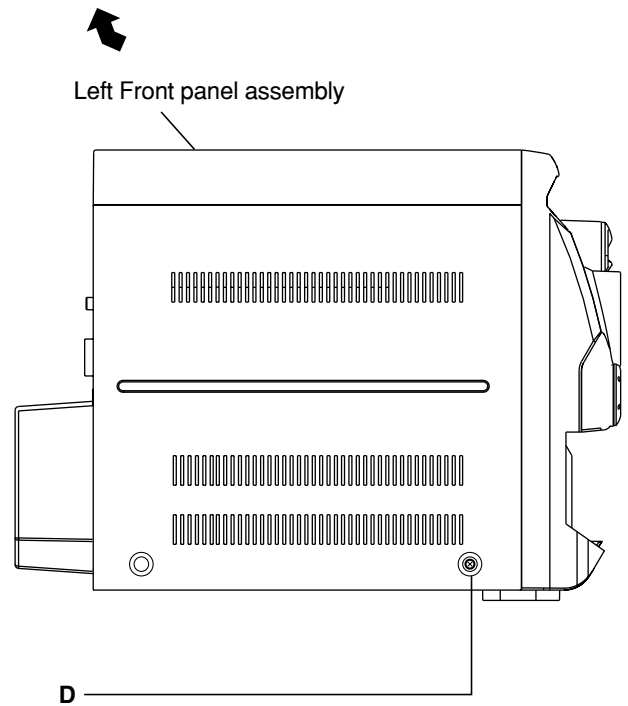
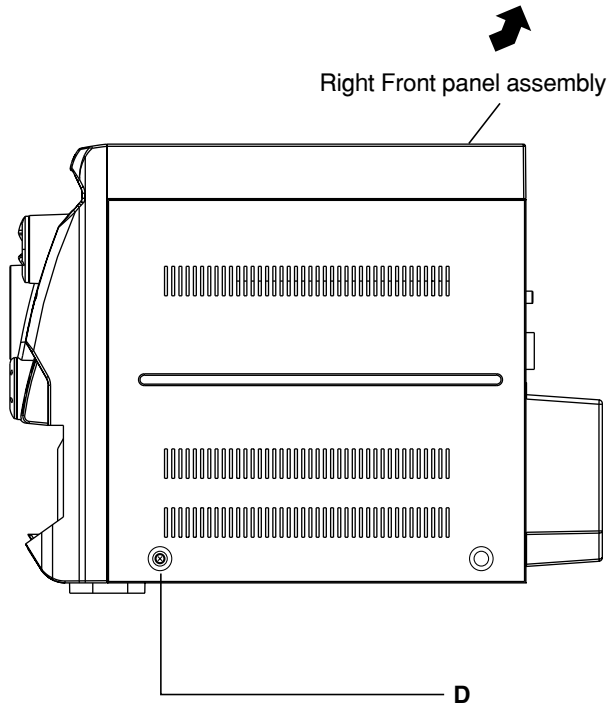


Fig.4

Fig.5 (A)

Fig.5 (B)



■ **Removing the CD changer unit**
(See Fig.6 to 9)

- Prior to performing the following procedures, remove the top cover and both sides BOARD.

[Caution] Although the CD mechanism unit can be removed without removing the CD tray panel, it is still recommended to remove it in order to prevent damage.

- From the front panel side of this set, push in the sections marked with arrows and pull out the CD tray toward the front.
- Remove the CD tray panel by pushing both of its extremities upward in the direction of the arrows.
- Push the CD tray deep into the set.

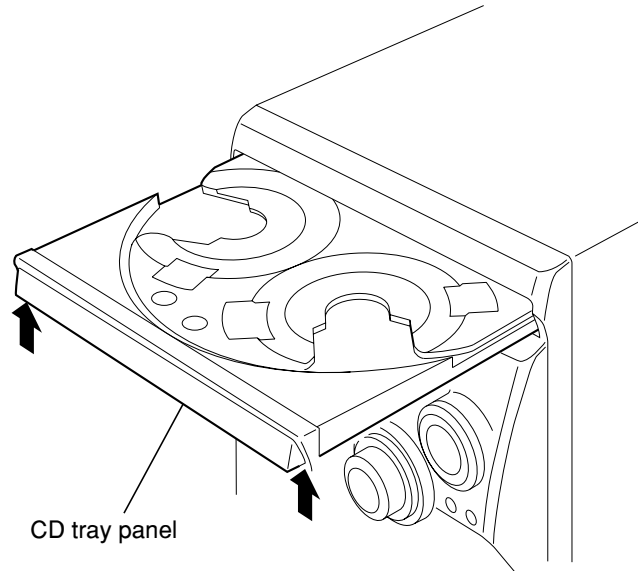


Fig.7

1. Disconnect the cord wires from the CD PCB CN704, CN607, CN1101 and disconnect CN1 (shield wire) from back panel.
2. From the rear of the set, remove two screws **E** and two screws **G** on the front panel left and right side.
3. Handle the CD changer unit rear, take out the unit.

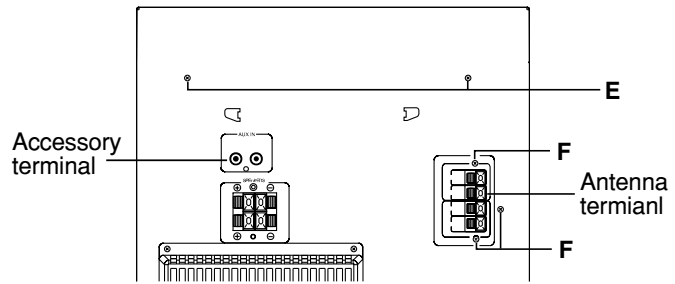


Fig.8

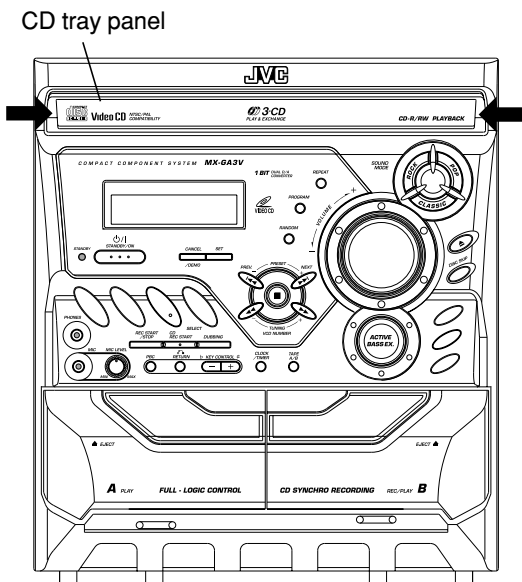


Fig.6

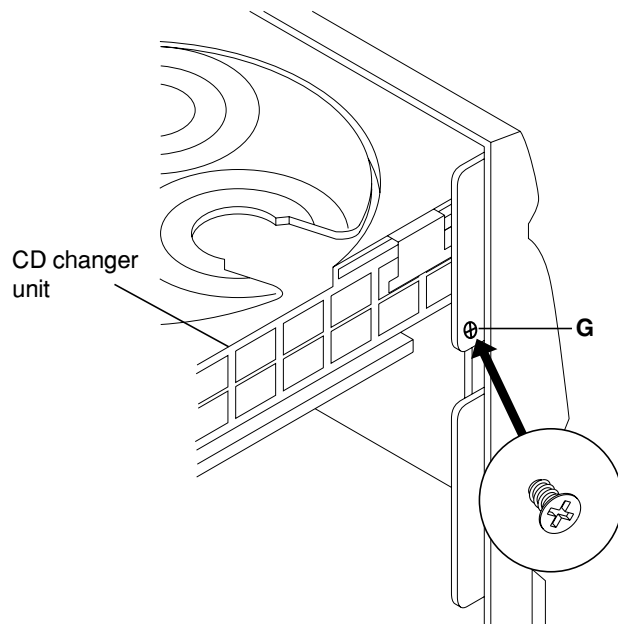


Fig.10

■ Removing the front panel assembly (See Fig.10 to 11)

- Prior to performing the following procedures, remove the top cover and both board.
 - Also remove the CD changer unit.
1. Disconnect the parallel wire and the cord wire from the connectors CN701, CN702, CN703, CN850 on the power amp. and supply PCB.
 2. Remove two screws **H** retaining the front panel assembly onto the bottom of the body.
 3. Remove two screws **I** on the left and right side of the set retaining the panel front from the bottom and then remove then GND lug **b** that comes from the power amp and supply PCB.
 4. Disengage the claws **c** on both sides of the front panel assembly and then remove the assembly.

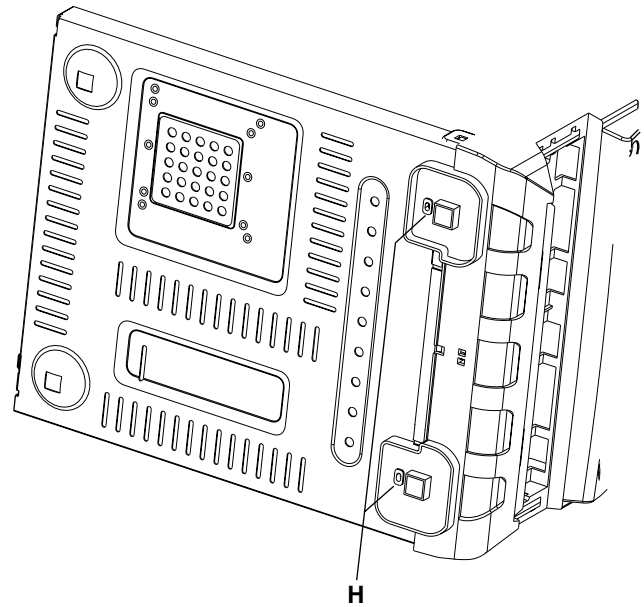


Fig.10

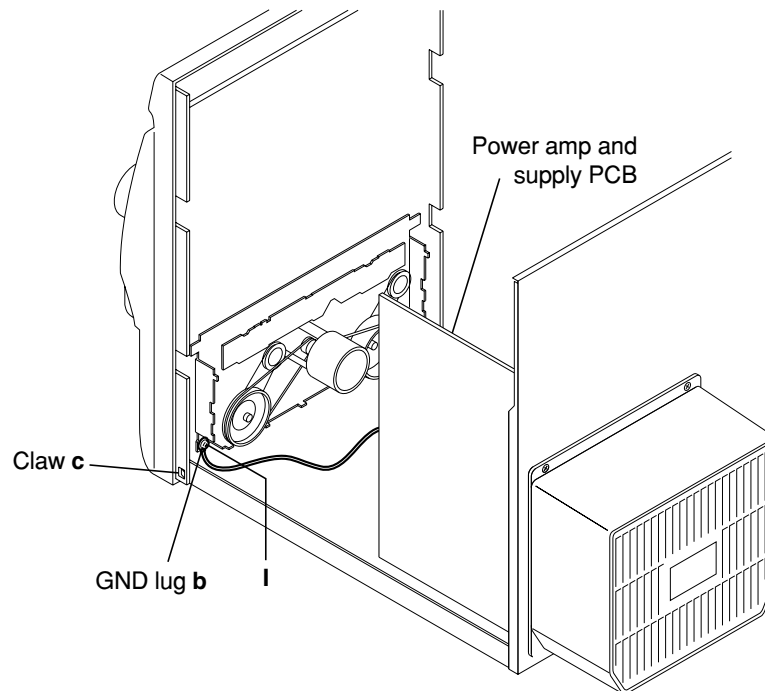


Fig.12

<Disassembly of units and assembly inside this set>

■ Removing the CD PCB

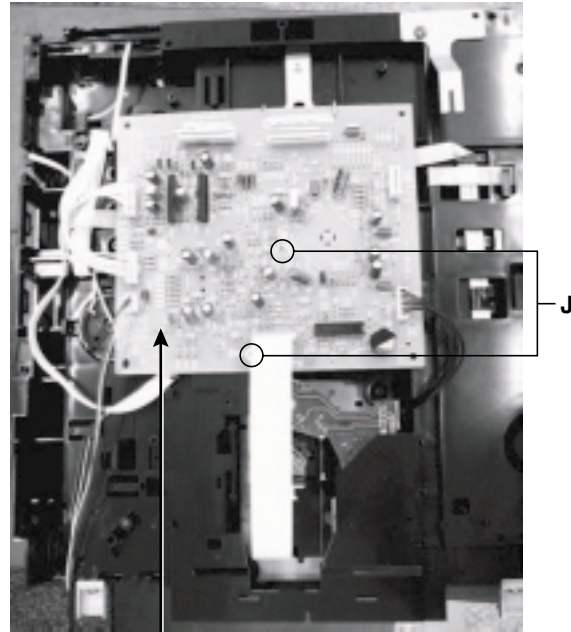
(See Fig.12 to 13)

- Prior to performing the following procedures, remove the top cover and both sides board.
 - Also remove the CD changer unit.
1. The two screws **E** that retain the VCD assembly should be removed.
 2. Disconnect the wires from CN602, CN603, CN604 and CN605 on the CD PCB, which is located on the back side of the CD changer unit.
 3. The two screws **J** that retain the CD PCB should be removed.
 4. Remove the CD PCB by pulling it toward the side where the CN601 is located.
 5. Using solder, short the CD pickup to connect to short round.

[Caution] After re-connecting the wires, be sure to remove the shorting solder from the GND connection.

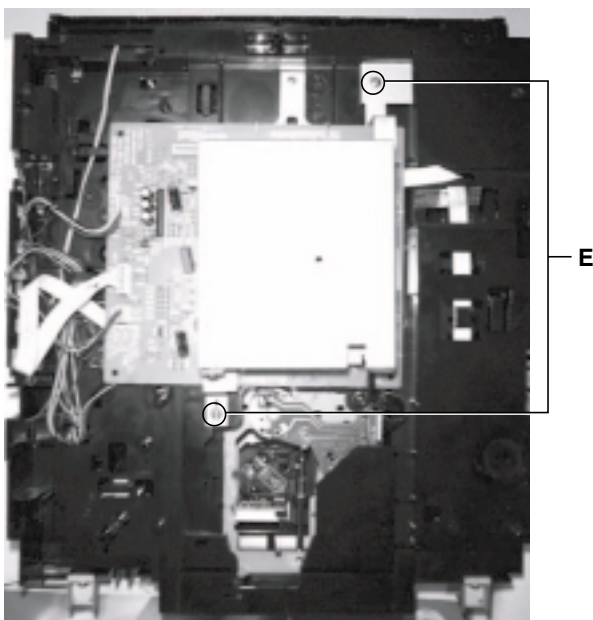
6. Disconnect the card wire from the connector CN601 on the main PCB and then remove the main PCB.

Fig.12(B)



CD PCB

Fig.12(A)



E

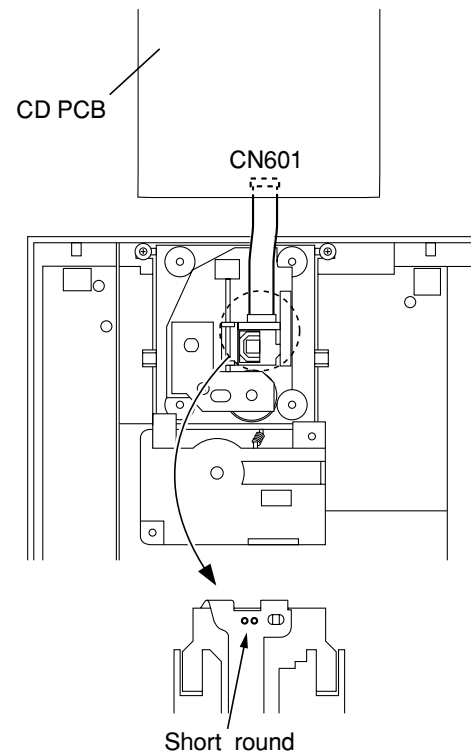


Fig.14

■ Removing the CD changer mechanism assembly (See Fig.14 to 15)

- Prior to performing the following procedures, remove the top cover and both sides board.
 - Also remove the CD changer unit.
1. Removing screws **D** from the front chuck base of the CD changer mechanism unit.
 2. Turn the CD changer mechanism cover base and remove screws **E** connecting the unit to the CD changer mechanism assembly.
 3. Removing four screws **K** retaining the CD mechanism holder assembly.

[Caution] When replacing the CD changer mechanism assembly, be sure not to mistake the positions of the silver color and copper color spring.

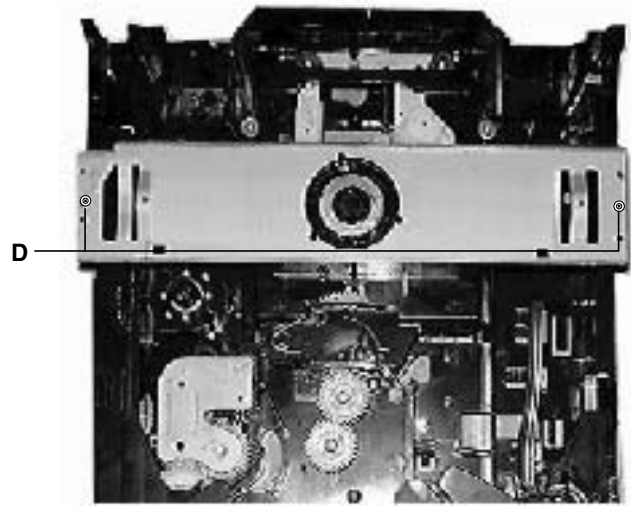


Fig.14

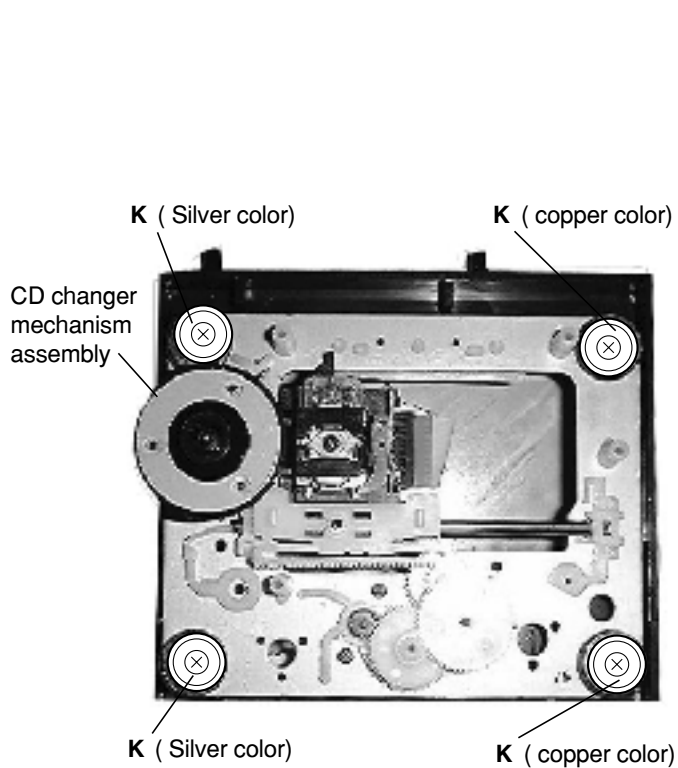


Fig.16

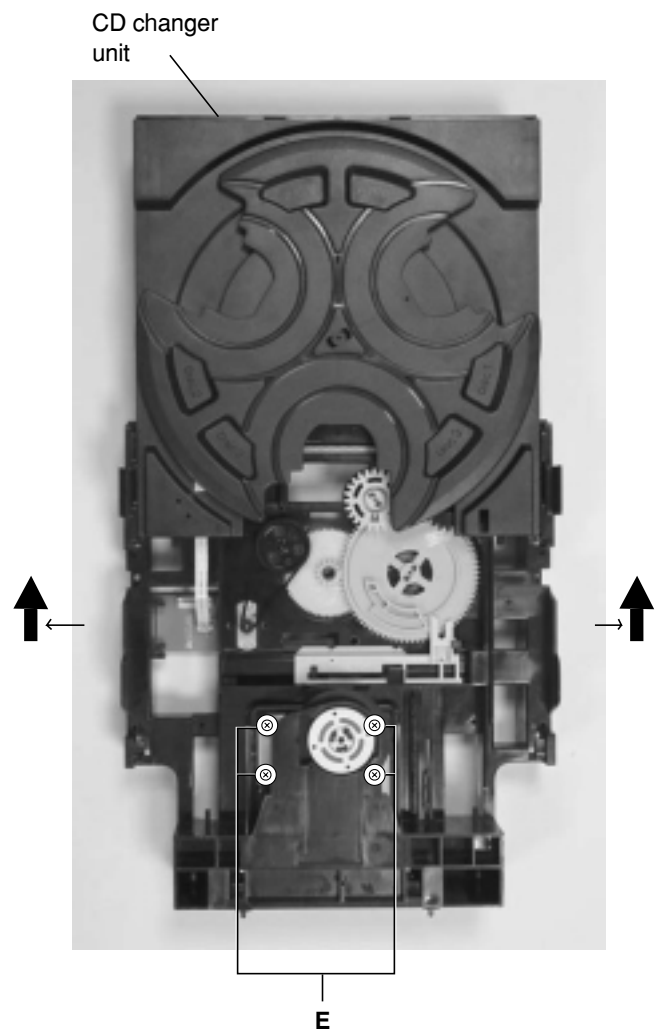


Fig.15

■ **Removing the CD pickup (See Fig.17)**

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the CD changer mechanism.

1. Widen the section F.
2. While keeping the section F wide open, push the section G in the direction of the arrow to remove the shaft, and then remove the CD pickup.

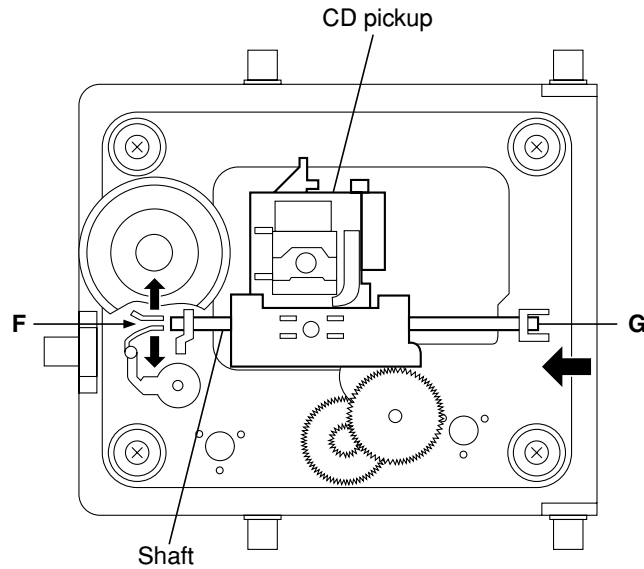


Fig.17

■ **Replacing the loading motor and rotor belt of the CD changer (See Fig .18)**

- Prior to performing the following procedures, remove the top cover.
- Also open the CD changer tray.

1. Remove two screws L retaining the CD changer tray loading motor.
2. Remove two screws M retaining the gear plate and take it out, after remove the rotor belt from the pulley.

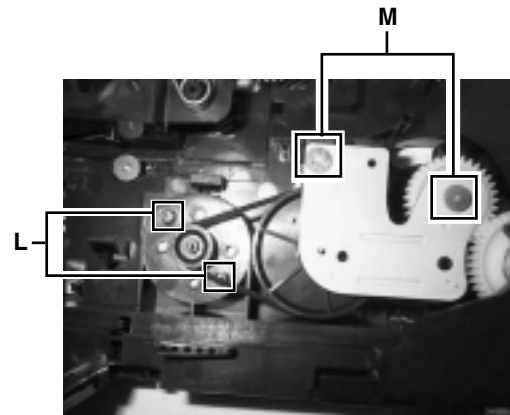


Fig.18



■ **Replacing the CD turn table and removing the motor (See Fig. 19 and 20)**

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.

1. Remove one screws N retaining the CD (Turn table).
2. Remove two screws O retaining the stopper brackets on both sides of the CD changer unit.
3. Remove the stopper brackets from both sides of the CD changer unit.
4. Pull out the CD tray from the CD changer unit, all the way and lift the tray (u/~ ward) to remove.
5. Remove the gear and after push out the tray motor locker and pull out the tray motor from the CD tray.

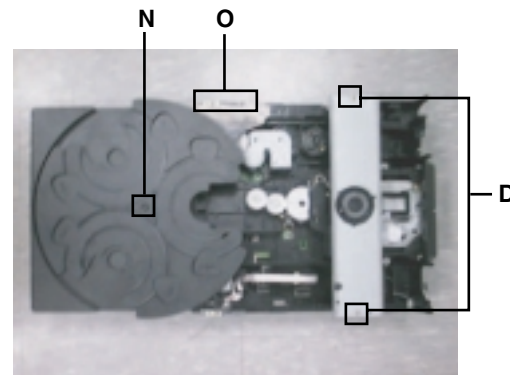


Fig.19

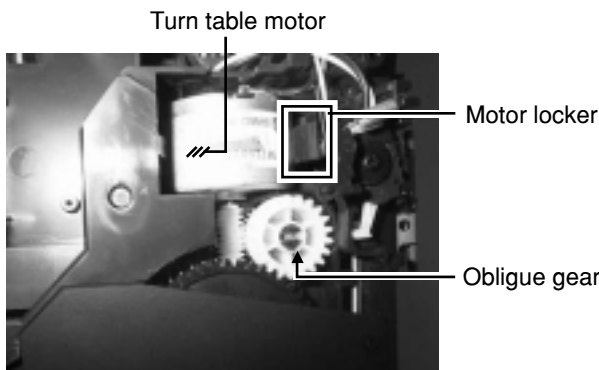


Fig.20

■ Removing the cassette deck mechanism (See Fig.21)

- Prior to performing the following procedures, remove the top cover.
 - Also remove the CD changer unit.
 - Also remove the front panel assembly.
1. Remove five screws **Z** retaining the cassette deck mechanism.

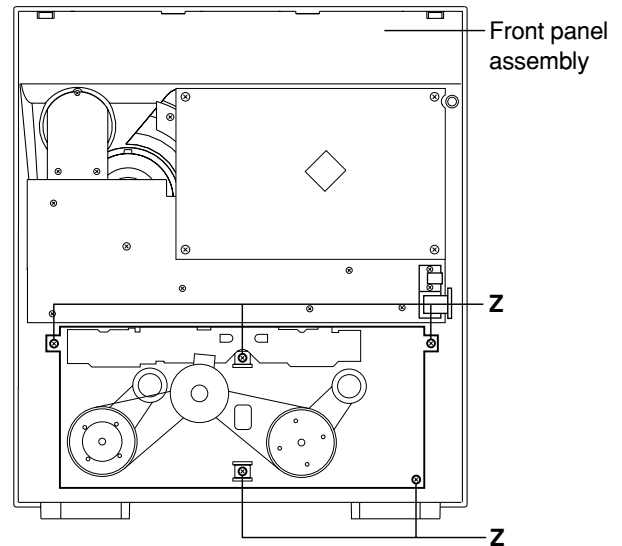


Fig.21

■ Removing the earphone jack PCB and Mic Jack PCB (See Fig.22)

- Prior to performing the following procedures, remove the top cover and both sides board.
 - Also remove the CD changer unit.
 - Also remove the front panel assembly.
1. Remove the screw with the washer, **P** that retains the earphone jack PCB.

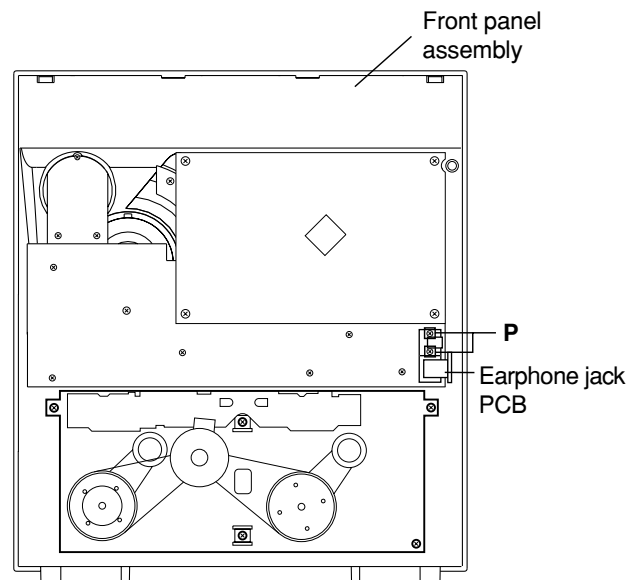


Fig.22

■ Removing the control/FL PCB (See Fig.23)

- Prior to performing the following procedures, remove the top cover and both sides board. Also remove the CD changer unit.
 - Also remove the CD changer unit.
 - Also remove the front panel assembly.
1. Remove four screws **Q** that retain the control/FL PCB from the back of the front panel unit.

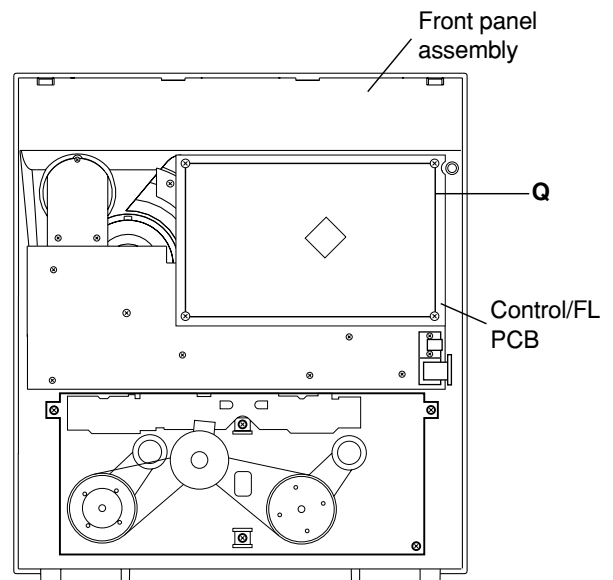


Fig.23

■ **Removing the switch PCB and sound mode and CD function switch PCB**
(See Fig.23 to 26)

- Prior to performing the following procedures, remove the top cover and both sides board.
 - Also remove the CD changer unit.
 - Also remove the front panel assembly.
1. Pull out the volume control knob and MIC Volume Knob from the front of the front panel assembly. (Fig.24)
 2. Remove four screws **Q** retaining the front panel assembly. (Fig.23)
 3. Remove the control/FL PCB.
 4. Remove eleven screws **R** retaining the switch (key 1) PCB. (Fig.22)
 5. Remove three screws **S** retaining the sound mode (key 2) switch PCB.
 6. Remove two screws **T** retaining the CD function (key 3) switch PCB.

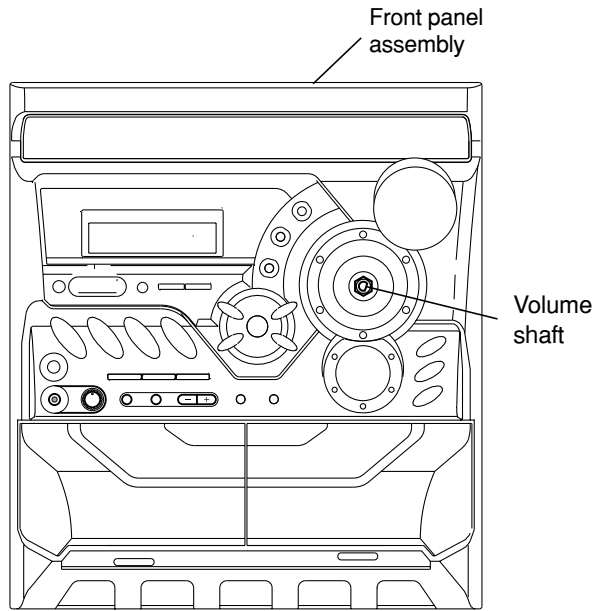


Fig.25

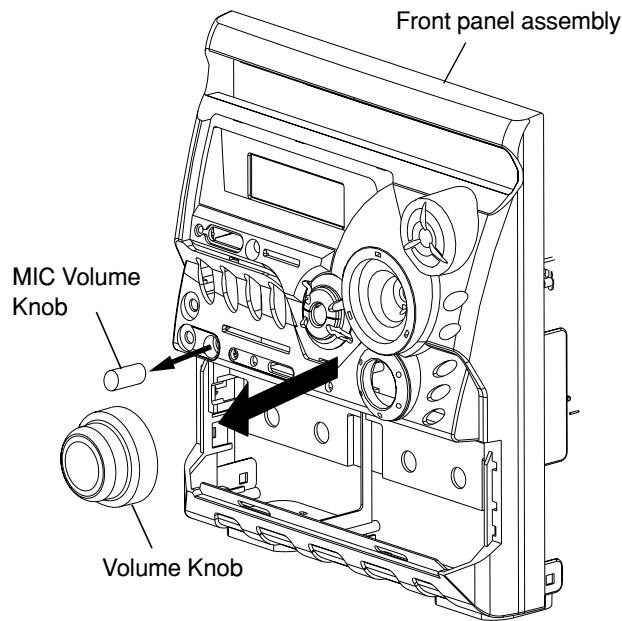


Fig.24

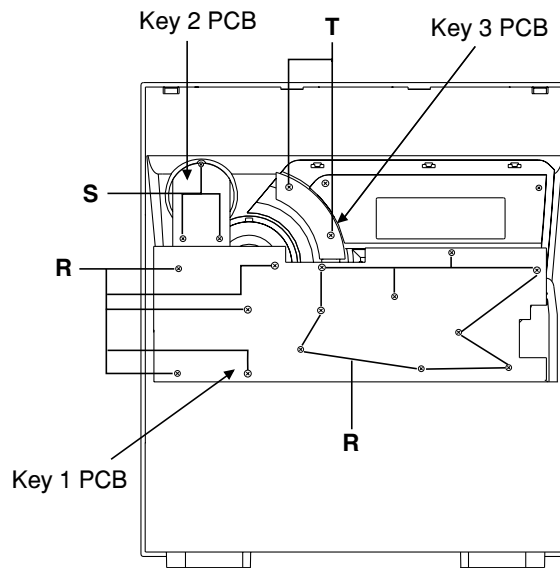


Fig.26

■ Removing the cassette deck main motor, and replacing the main belts

(See Fig.21, 27 and 28)

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the front panel assembly.

1. Remove five screws **Z** retaining the cassette deck mechanism. (Fig.21)
2. Remove the cassette deck mechanism.
3. Remove two screws **T** retaining the main motor from the front side of the cassette deck.

[Caution] After attaching the main motor, check the orientation of the motor and the polarity of the wires.

4. From the backside of the cassette deck, remove the main motor and two main belts.

[Caution] The lengths of the cassette **A**(playback only) and cassette **B**(record/play) main belts are different. When attaching the main belts, use the longer belt for cassette **A**.

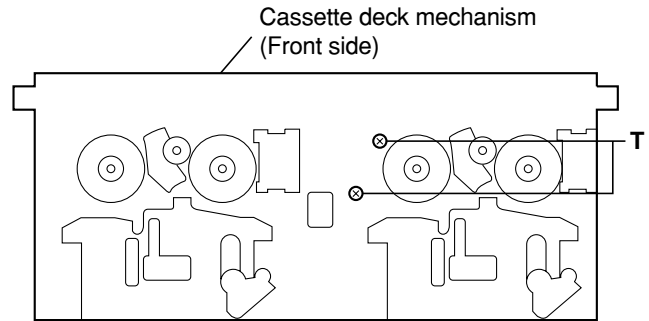


Fig.27

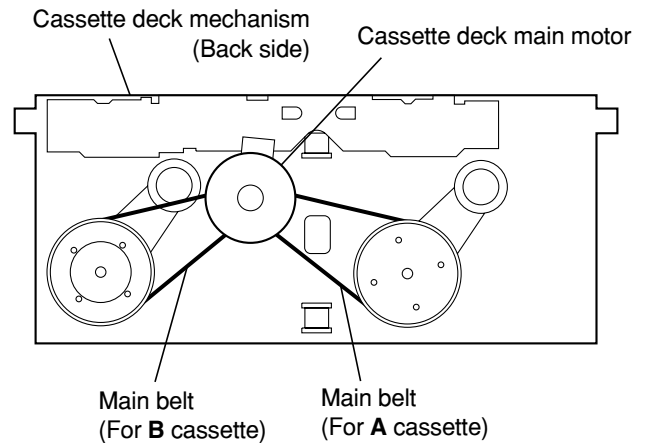


Fig.28

■ Removing the leaf switches of the cassette deck mechanism

(See Fig. 21 and 29)

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the front panel assembly.

1. Remove five screws **Z** that retain the cassette deck mechanism. (Fig.21)
2. Remove the cassette deck mechanism.
3. Turn the cassette deck mechanism upside down.
4. Remove the solder from around the leaf switches.
5. Pull out the leaf switches from the front side of the cassette deck mechanism.

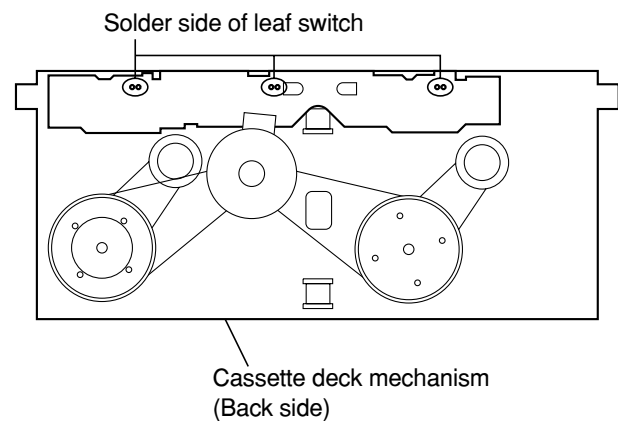


Fig.29

■ Removing the cassette deck heads (See Fig. 21 and 30)

- Prior to performing the following procedures, remove the top cover and both sides board.
 - Also remove the CD changer unit.
 - Also remove the front panel assembly.
1. Remove five screws **Z** that retain the cassette deck mechanism. (Fig.21)
 2. Remove the cassette deck mechanism and place it so that the front side faces up.
 3. Remove the solder from the bottom side of the head terminal and disconnect the wire.
 4. Remove screw **U** that retains the head.
 5. Remove screw **V** that retains the head.
 6. Hold the head and slide it in the direction of the arrow to remove it.

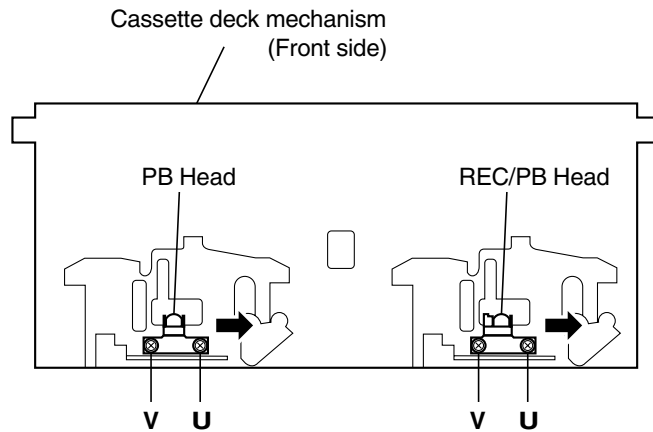


Fig.30

■ Removing the 3-pin regulator and bridge diode (See Q904, Q907 and Fig.31)

- Prior to performing the following procedures, remove the top cover and both sides board.
1. Remove two screws **A** that connect the heat sink cover to rear panel.
 2. Pull the heat sink outward.
 3. Remove two screws **W** that retains the heat sink the 3-pin terminal regulator Q904, Q907.
 4. Remove the solder fixing the 3-pin regulator.

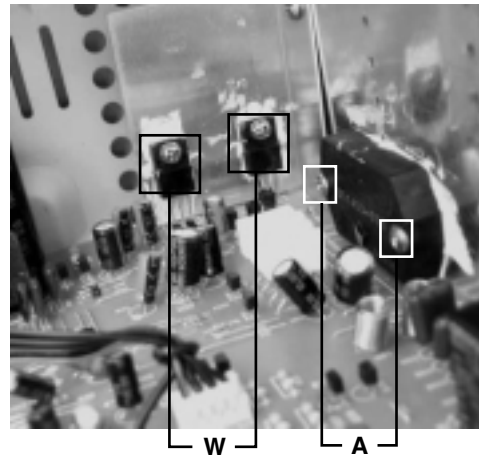


Fig.31

■ Removing the power amp and supply PCB and the power trans PCB

(See Fig. 2, 29 to 31)

- Prior to performing the following procedures, remove the top cover and CD changer unit.
1. Remove four screws **B** from the rear panel. (Fig.3)
 2. Pull the heat sink cover outward.
 3. Remove four screws **AA** from the rear panel between the heat sink holder.
 4. Remove two screws **X** that retain the speaker terminals and AUX terminal.
 5. Remove screws **YY** that retains the rear panel, and then remove the rear panel.
 6. Disconnect the parallel wires from the connectors FW951 on the power trans PCB.
 7. Remove the clamp of AC power cord from the chassis.
 8. Remove four screws **AB** that retain the power trans PCB and then remove the assembly.

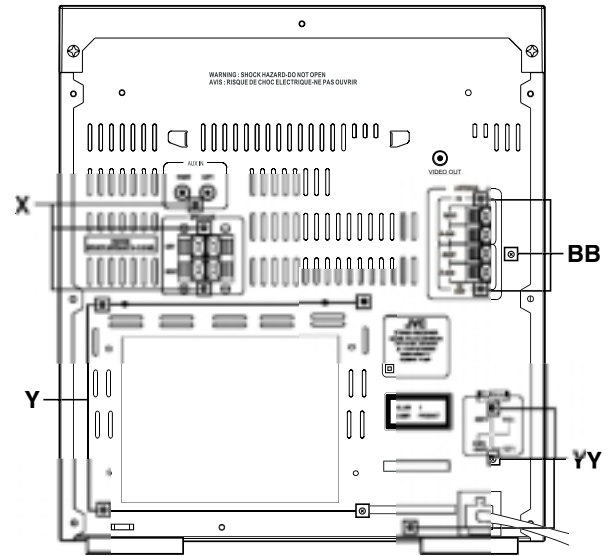


Fig.33

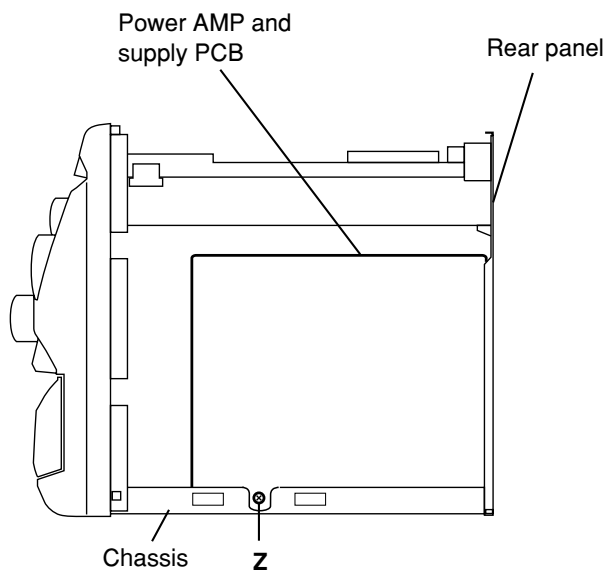


Fig.34



Fig.34

Adjustment method

Measurement instruments required for adjustment

1. Low frequency oscillator.
This oscillator should have a capacity to output 0dB to 600ohm at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600ohm
3. Electronic voltmeter
4. Frequency counter
5. Wow flutter meter
6. Test tape
VT712 : For Tape speed and wow flutter (3kHz)
VT703 : For Head angle(10kHz). Play back frequency characteristics(1kHz), and dubbing frequency characteristics(63,1,10kHz)
7. Blank tape
TAPE I : AC-225
8. Torque gauge : For play and back tension forward; TW2111A, Reverse; TW2121A
Fast Forward and Rewind; TW2231A
9. Test disc: CTS-1000(12cm), GRG-1211(8cm), CD-T05A
10. Jitter meter
11. Television

Measurement conditions

(Select correct AC Line Volt.)

Power supply voltage

AC 110V/127V/220V/230V~240V (50/60Hz) US/UX

Measurement

output terminal : Speaker out

: TP101(Measuring for TUNER/
DECK/CD/VCD)

: Dummy load 6ohm

Radio input signal

AM modulation frequency : 400Hz

Modulation factor : 30%

FM modulation frequency : 400Hz

Frequency displacement : 22.5kHz

Frequency Range

AM US: 530kHz~1710kHz (10kHz)
531kHz~1629kHz (9kHz)

UX: 530kHz~1600kHz (10kHz)
531kHz~1602kHz (9kHz)

FM 87.5MHz~108MHz

Standard measurement positions of volume and switch

Power : Standby (Light STANDBY Indicator)

Sound Turbo, A, BASS EX : OFF

Sound mode : OFF

Main VOL. : 0 Minimum

Travers mecha set position : Disc 1

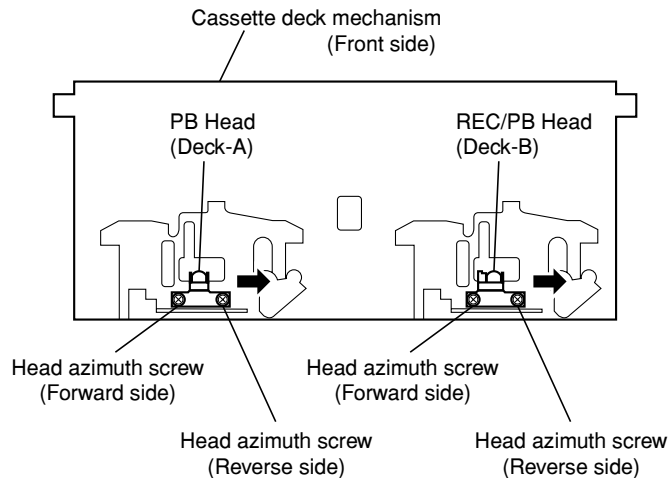
Mic MIX VOL : MAX

ECHO: OFF

Precautions for measurement

1. Apply 30pF and 33kohm to the IF sweeper output side and 0.082 μ F and 100kohm in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

■ Arrangement of adjusting positions



■ Tape recorder section

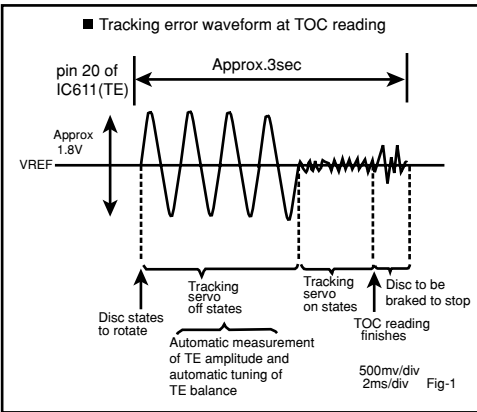
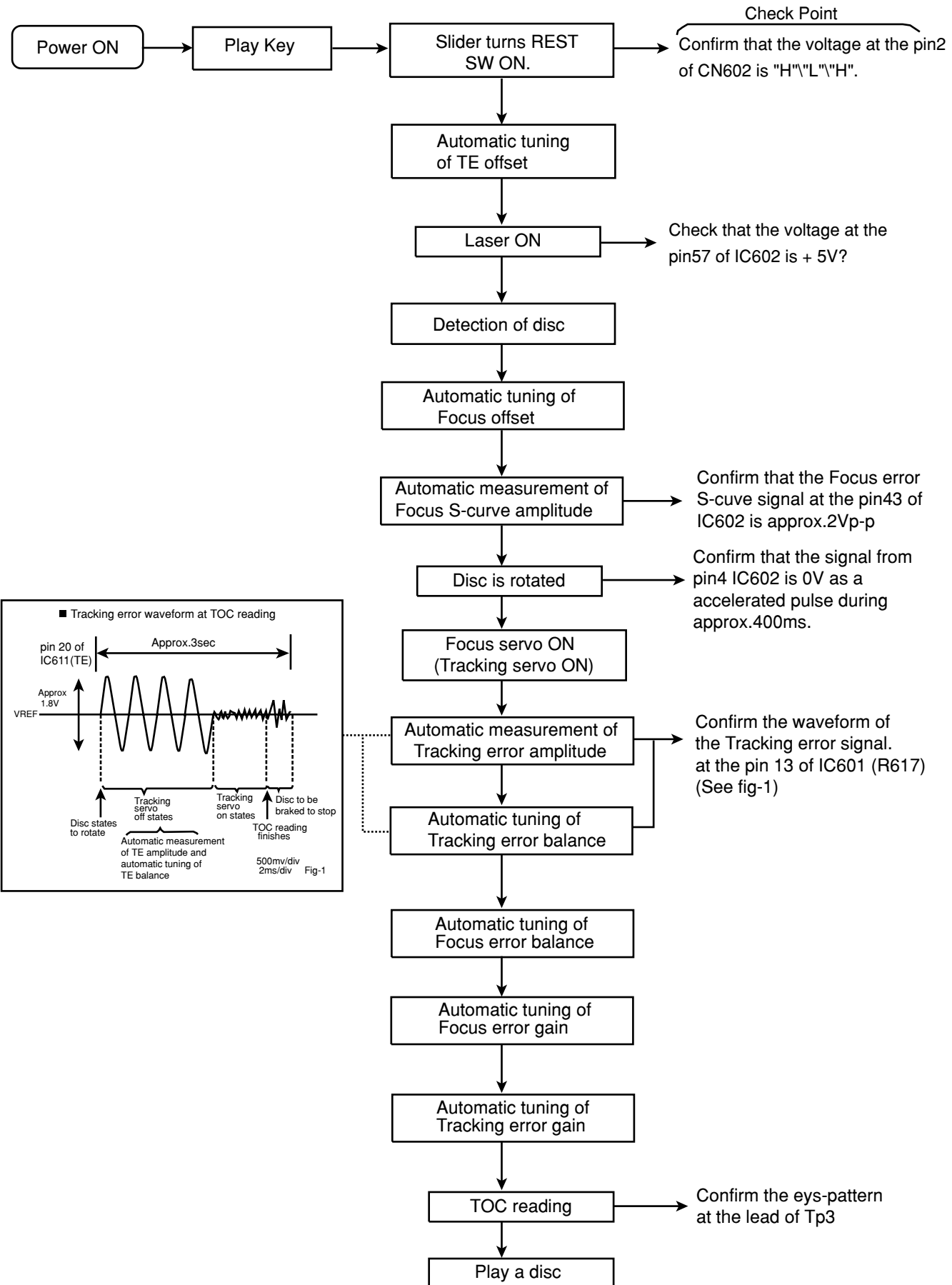
Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Cassette Head Azimuth Alignments	Test tape : VT703 (10kHz) Measurement output terminal : Left and Right speaker output (6-ohm loaded) or Headphone Output (32-ohm loaded)	1. Playback the test tape VT703 (10kHz) or equivalent. 2. Adjust the head azimuth screw to obtain maximum output and both output of L / R is in 3dB. 3. Put on the screw lock paint after alignments.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Recording Bias Frequency Alignment	Test tape : TYPE I AC-225 Measurement output terminal : Erase head terminal (CN308 8-Pin)	1. Insert the recording tape in deck-B. 2. Starting the recording. 3. Adjust the oscillation frequency to 80kHz \pm 3kHz by core of Oscillation coil of L301.	80kHz \pm 3kHz	Use the High-Impedance Probe or Frequency counter input.

■ Tuner section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
AM Tracking Alignments	Input signal : 530kHz(529kHz) 600kHz(603kHz) Adjustment point : Antenna coil (L2)	1. Set the Signal Generator signal to 530kHz(529kHz) the feed to Loop Antenna. 2. Receiving the signal and the adjust the OSC coil (L2) obtain the V.T is 1.40V \pm 0.05V. 3. Change the receiving frequency to 600kHz (603kHz). 4. Adjust the Antenna coil (L2) obtain maximum sensitivity. (Adjust the SSG output to out of AGC range.)	V.T : 1.40V \pm 0.05V Maximum sensitivity	Adjust the OSC coil only when the AM coil block has been changed.
AM IFT Alignments	Input signal : 530kHz(529kHz) Adjustment point : IFT (T1)	1. Set the receiving frequency to 530kHz(529kHz). 2. Feed the 450kHz signal to AM antenna input. 3. Adjust the IFT Block T1 obtain to maximum output. (Adjust the SSG output to out of AGC range.)	Maximum output	Adjust the IFT only when the IFT block has been changed.

Note: The adjustment of CD section is not required.

Flow of functional operation until TOC read



Maintenance of laser pickup

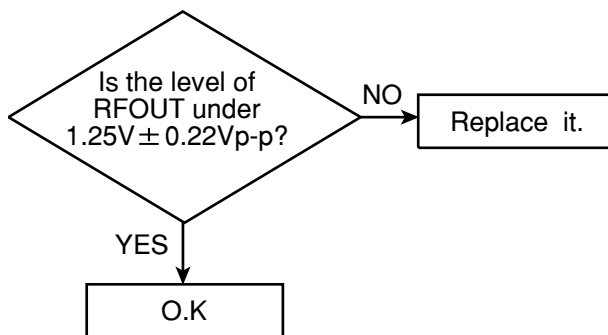
(1) Cleaning the pick up lens

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

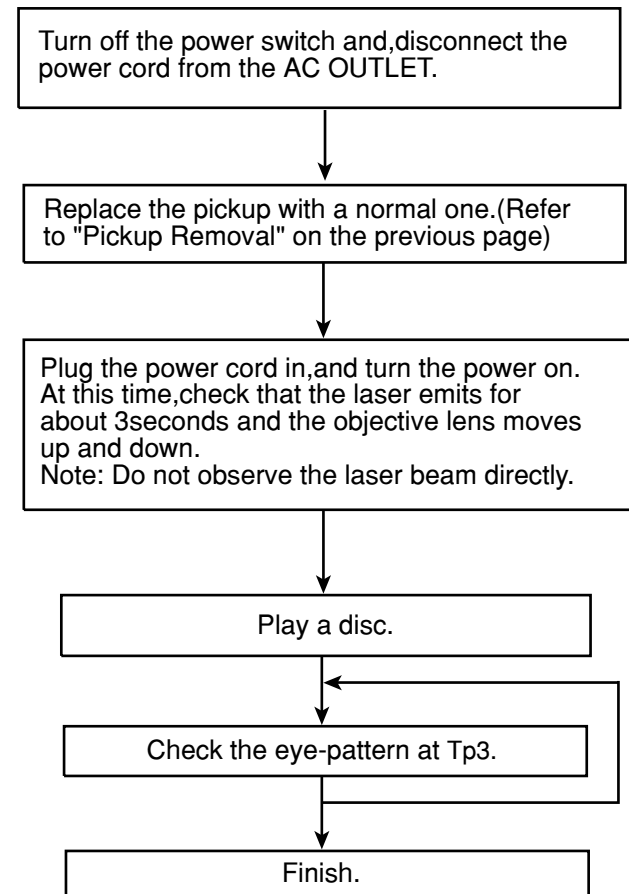
(2) Life of the laser diode

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 below.



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 would be adjusted when the pickup operates normally, the laser pickup may be damaged due to excessive current.

Description of major ICs

VIDEO CD PROCESSOR CHIP PINOUT

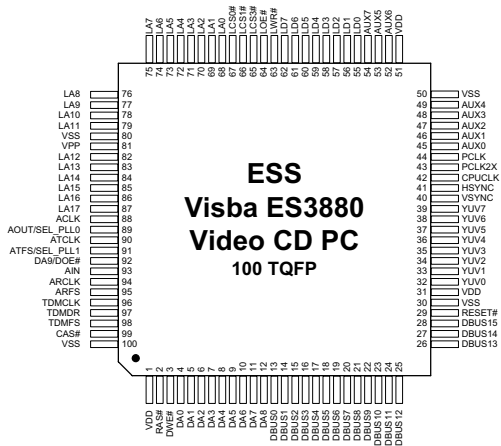


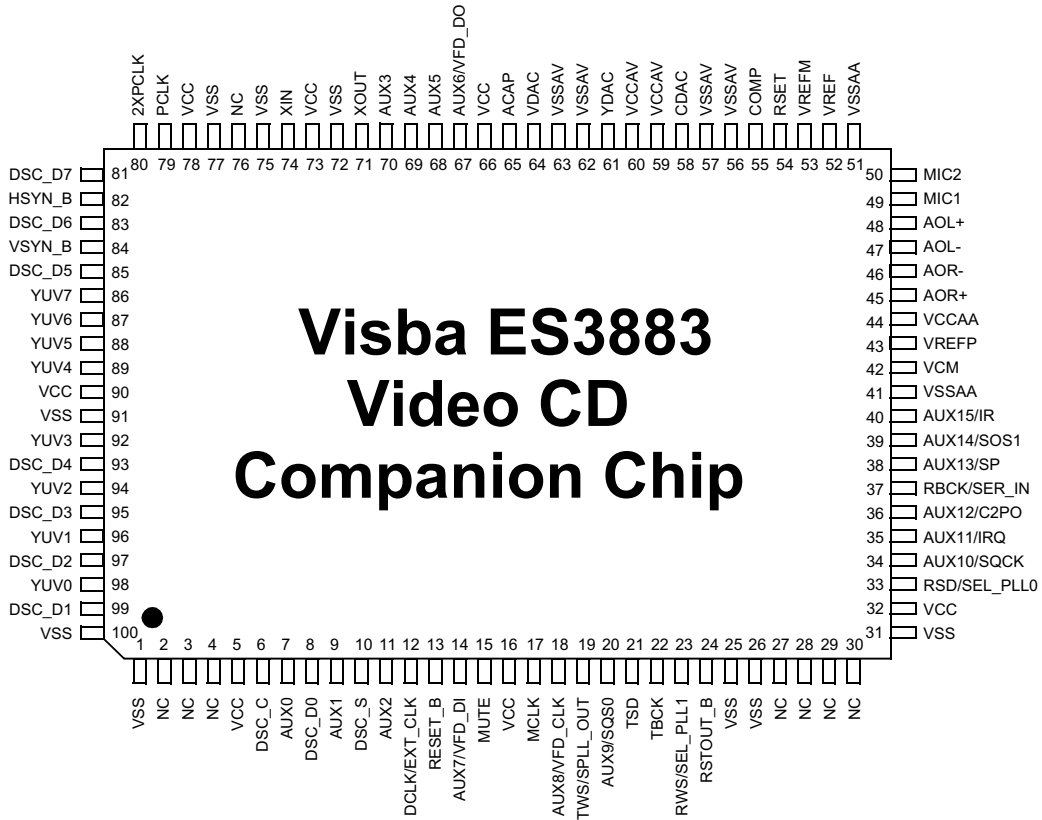
Figure 24 Visba Video CD Processor Chip Pinout Diagram

VIDEO PC PROCESSOR CHIP PIN DESCRIPTION

Name	Number	I/O	Definition
VDD	1, 31, 51	I	Voltage supply for 3.3 V.
RAS#	2	O	DRAM row address strobe (active low).
DWE#	3	O	DRAM write enable (active low).
DA[8:0]	12:4	O	DRAM multiplexed row and column address bus.
DBUS[15:0]	28:13	I/O	DRAM data bus.
RESET#	29	I	System reset (active low).
VSS	30, 50, 80, 100	I	Ground.
YUV[7:0]	39:32	O	Y is luminance, UV are chrominance data bus for screen video interface. YUV[7:0] for 8-bit YUV mode.
VSYNC	40	I/O	Vertical sync for screen video interface, programmable for rising or falling edge.
HSYNC	41	I/O	Horizontal sync for screen video interface, programmable for rising or falling edge.
CPUCLK	42	I	RISC and system clock input. CPUCLK is used only if SEL_PLL[1:0] = 00.
PCLK2X	43	I/O	Pixel clock; two times the actual pixel clock for screen video interface.
PCLK	44	I/O	Pixel clock qualifier in for screen video interface.
AUX[7:0]	54, 52, 53, 49:45	I/O	Auxiliary control pins (AUX0 and AUX1 are open collectors).
LD[7:0]	62:55	I/O	RISC interface data bus.
LWR#	63	O	RISC interface write enable (active low).
LOE#	64	O	RISC interface output enable (active low).
LCS[3,1,0]#	65,66,67	O	RISC interface chip select (active low).
LA[17:0]	87:82, 79:68	O	RISC interface address bus.
VPP	81	I	Digital supply voltage for 5 V.
ACLK	88	I/O	Master clock for external audio DAC (8.192 MHz, 11.2896 MHz, 12.288 MHz, 16.9344 MHz, and 18.432 MHz).
AOUT/ SEL_PLL0	89	O I	Dual-purpose pin. AOUT is the audio interface serial data output Pins SEL_PLL[1:0] select phase-lock loop (PLL) clock frequency CPUCLK for the Visba: 00 = bypass PLL. 01 = 54 MHz PLL. 10 = 67.5 MHz PLL. 11 = 81 MHz PLL.
ATCLK	90	I/O	Audio transmit bit clock.
ATFS/ SEL_PLL1	91	O I	Dual-purpose pin. ATFS is the audio interface transmit frame sync. Pins SEL_PLL[1:0] select phase-lock loop (PLL) clock frequency CPUCLK for the Visba. See the SEL_PLL0 pin above for the settings.
DA9/DOE#	92	O	Dual purpose pin: DRAM output enable (active low)/DRAM multiplexed row and column address bus.
AIN	93	I	Audio interface serial data input.
ARCLK	94	I	Audio receive bit clock.
ARFS	95	I	Audio interface receive frame sync.
TDMCLK	96	I	TDM interface serial clock.
TDMDR	97	I	TDM interface serial data receive.
TDMFS	98	I	TDM interface frame sync.
CAS#	99	O	DRAM column address strobe bank 0 (active low).

■ VIDEO CD COMPANION CHIP

1. Pin layout



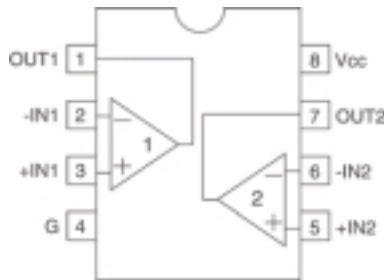
2. Block diagram

Name	Number	I/O	Definition	
VSS	1,25:26,31,72,75,77,91,100	I	Ground.	
VCC	5,16,32,66,73,78,90	I	Voltage supply, 5 V.	
DSC_C	6	I	Clock for programming to access internal registers.	
AUX0	7	I/O	Servo Forward or Control Pin.	
AUX1	9	I/O	Servo Reverse or Control Pin.	
AUX2	11	I/O	Servo LDON or Control Pin.	
AUX3	70	I/O	Servo CW/Limit or Control Pin.	
AUX4	69	I/O	Servo CCW/Close or Control Pin.	
AUX5	68	I/O	Servo Data or Control Pin.	
AUX6	67	I/O	Servo XLAT or Control Pin/VFD_DO.	
AUX7	14	I/O	Servo BRKM/Sense or Control Pin/VFD_DI.	
AUX8	18	I/O	Servo Mute/Open or Control Pin/VFD_CLK.	
AUX9	20	I/O	Servo SQS0 or Control Pin.	
AUX10	34	I/O	Servo SQCK or Control Pin.	
AUX11	35	I/O	3880 IRQ or Interrupt Output or Control Pin.	
AUX12	36	I/O	CD C2PO or Interrupt Input or Control Pin.	
AUX13	38	I/O	Serial Interrupt/CD-Mute or Control Pin.	
AUX14	39	I/O	Servo SCOR (S0S1) or Interrupt Input or Control Pin.	
AUX15	40	I/O	Interrupt Input or Control Pin.	
DSC_D[7:0]	81,83,85,93,95,97,99,8	I/O	Data for programming to access internal registers.	
DSC_S	10	I	Strobe for programming to access internal registers.	
DCLK	12	O	Dual-purpose pin DCLK is the MPEG decoder clock.	
EXT_CLK		I	EXT_CLK is the external clock EXT_CLK is an input during bypass PLL mode.	
RESET_B	13	I	Video reset (active-low).	
MUTE	15	O	Audio mute.	
MCLK	17	I	Audio master clock.	
TWS	19	I	Dual-purpose pin TWS is the transmit audio frame sync.	
SPLL_OUT		O	SPLL_OUT is the select PLL output.	
TSD	21	I	Transmit audio data input.	
TBCK	22	I	Transmit audio bit clock.	
RWS	23	O	Dual-purpose pin RWS is the receive audio frame sync.	
SEL_PLL1		I	Pins SEL_PLL[1:0] select the PLL clock frequency for the DCLK output.	
				SEL_PLL1 SEL_PLL0 DCLK
				0 0 Bypass PLL (input mode)
				0 1 27 MHz (output mode)
			1 0 32.4 MHz (output mode)	
			1 1 40.5 MHz (output mode)	
RSTOUT_B	24	O	Reset output (active-low).	
NC	2:4,27:30,76		No connect. Do not connect to these pins.	
RSD	33	O	Dual-purpose pin. RSD is the receive audio data input.	
SEL_PLL0		I	SEL_PLL0 along with SEL_PLL1 select the PLL clock frequency for the DCLK output. See the table for pin number 23.	
RBCK	37	O	Dual-purpose pin. RBCK is the receive audio bit clock.	
SER_IN		I	SER_IN is the serial input DSC mode. 0 - Parallel DSC mode. 1 - Serial DSC mode.	
VSSAA	41,51	I	Audio Analog Ground.	
VCM	42	I	ADC Common Mode Reference (CMR) buffer output. CMR is approximately 2.25 V. Bypass to analog ground with 47 μ F electrolytic in parallel with 0.1 μ F.	
VREFP	43	I	DAC and ADC maximum reference. Bypass to VCMR with 10 μ F in parallel with 0.1 μ F.	
VCCAA	44	I	Analog VCC, 5 V.	
AOR+, AOR-	45:46	O	Right channel output.	
AOL-, AOL+	47:48	O	Left channel output.	
MIC1	49	I	Microphone input 1.	
MIC2	50	I	Microphone input 2.	
VREF	52	I	Internal resistor divider generates Common Mode Reference (CMR) voltage. Bypass to analog ground with 0.1 μ F.	
VREFM	53	I	DAC and ADC minimum reference. Bypass to VCMR with 10 μ F in parallel with 0.1 μ F.	
RSET	54	I	Full scale DAC current adjustment.	
COMP	55	I	Compensation pin.	
VSSAV	56:57,62:63	I	Video Analog Ground	
CDAC	58	O	Modulated chrominance output.	
VCCAV	59,60	I	Video VCC, 5 V	
YDAC	61	O	Y luminance data bus for screen video port.	
VDAC	64	O	Composite video output.	
ACAP	65	I	Audio CAP	
XOUT	71	O	Crystal output.	
XIN	74	I	27 MHz crystal input.	
PCLK	79	I/O	13.5 MHz pixel clock.	
2XPCLK	80	I/O	27 MHz (2 times pixel clock).	
HSYN_B	82	O	Horizontal sync (active-low).	
VSYN_B	84	O	Vertical sync (active-low).	
YUV[7:0]	86:89,92,94,96,98	I	YUV data bus for screen video port.	

* Shading indicates a pin change from ES3209.

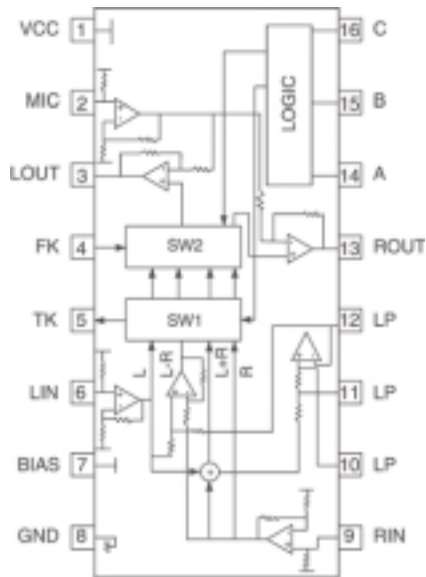
■ **BA15218/BA15218F(IC102/IC852): Dual operational amplifier**

1. Terminal layout & block digram



■ **BA3837(IC103): MIC Mixer**

1. Terminal layout & block digram

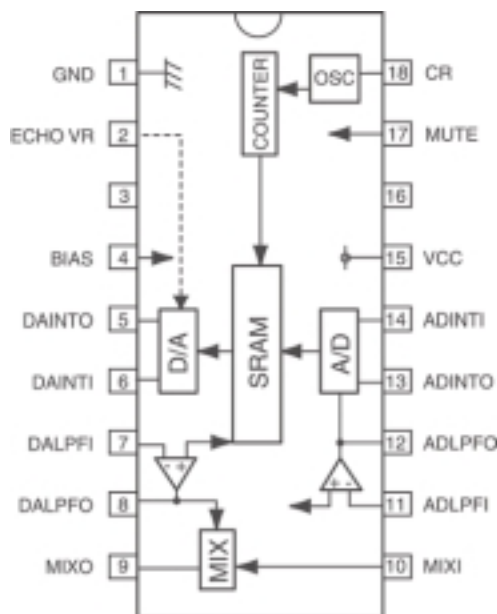


2. Pin function

Pin No.	Symbol	I/O	Function
1	VCC	-	Power supply
2	MIC		Microphone mixing input
3	LOUT	○	Channel L output
4	FK	-	Non connect
5	TK	-	Non connect
6	LIN		Channel L input
7	BIAS		Signal bias
8	GND	-	Connect to GND
9	RIN		Channel R input
10	LP	○	Connects to LPF time constant element
11	LP	○	Connects to LPF time constant element
12	LP	○	LPF output
13	ROUT	○	Channel R output
14	A		Mode select input A
15	B		Mode select input B
16	C		Mode select input C

■ **BU9253AS(IC851): Low pass filter & echo mixer**

1. Terminal layout & block digram

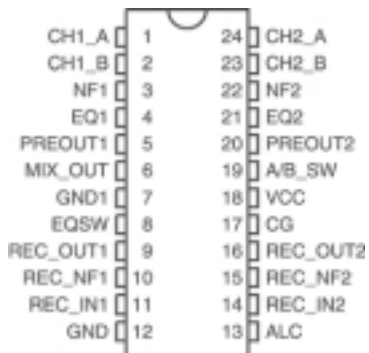


2. Pin function

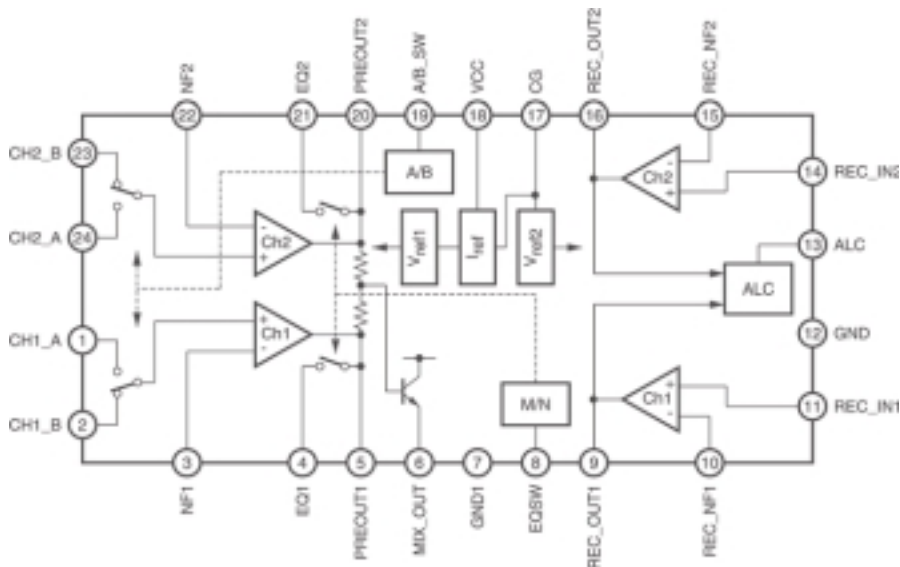
Pin No.	Symbol	I/O	Function
1	GND	-	Connect GND
2	ECHO VR		Echo level control
3			
4	BIAS	-	Analog part DC bias
5	DAINTO	○	DA side integrator output
6	DAINTI		DA side integrator input
7	DALPFI		DA side LPF input
8	DALPFO	○	DA side LPF output
9	MIXO	○	Mix AMP output for original tone& echo tone
10	MIXI		Mix AMP input pin for original tone
11	ADLPFI		AD side LPF input
12	ADLPFO	○	AD side LPF output
13	ADINTO	○	AD side integrator output
14	ADINTI		AD side integrator input
15	VCC	-	Power supply
16			
17	MUTE		Mute control signal input
18	CR	-	CR pin for oscillator

■ TA8189N(IC401): REC/PCB Amp.

1. Terminal layout



2. Block diagram

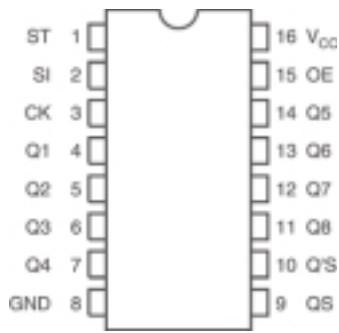


3. Pin function

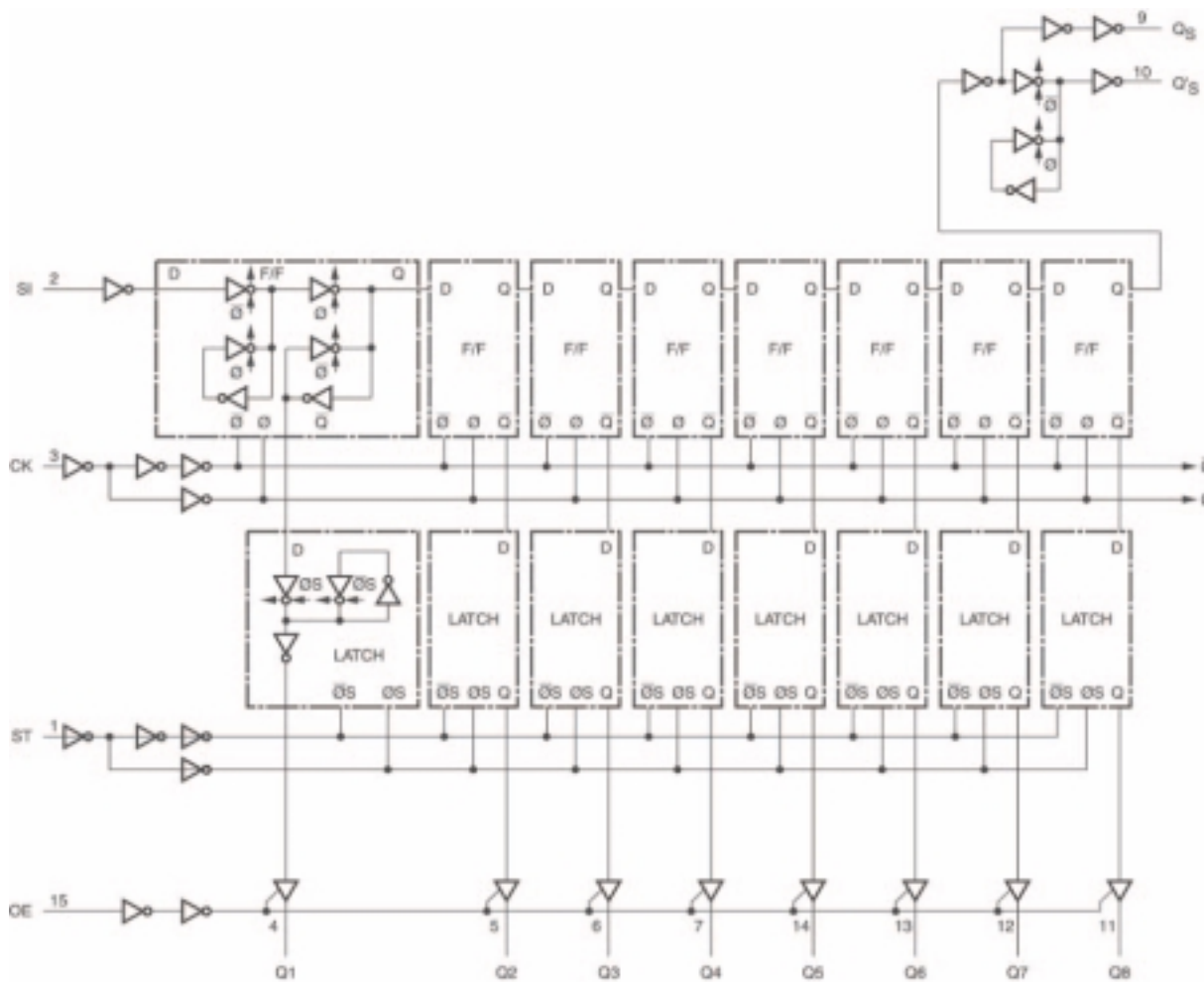
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	CH1_A	I	Input for playback amp. (Ch1): A cassette (PB)	13	ALC	I	ALC filter terminal
2	CH1_B	I	Input for playback amp. (Ch1): B cassette (REC/PB)	14	REC_IN2	I	Input for recording amp.
3	NF1	I	NF terminal for playback amp.	15	REC_NF2	I	NF terminal for recording amp.
4	EQ1	O	Metal output for playback amp.	16	REC_OUT2	O	Output for recording amp.
5	PREOUT1	O	Output terminal for playback amp.	17	CG	O	Charge detection terminal
6	MIX_OUT	O	Mixing output	18	VCC	-	Power supply terminal
7	GND1	-	Ground	19	A/B_SW	I	REC amp. Select switch (A cassette/B cassette)
8	EQSW	I	Metal/Normal mode select switch	20	PREOUT2	O	Output terminal for playback amp.
9	REC_OUT1	O	Output for recording amp.	21	EQ2	O	Metal output for playback amp.
10	REC_NF1	I	NF terminal for recording amp.	22	NF2	I	NF terminal for playback amp.
11	REC_IN1	I	Input for recording amp.	23	CH2_B	I	Input for playback amp. (Ch2): B cassette (REC/PB)
12	GND1	-	Ground terminal	24	CH2_A	I	Input for playback amp. (Ch2): A cassette (PB)

■ TC74HC4094AP (IC402): 8-bit shift and store register

1. Terminal layout

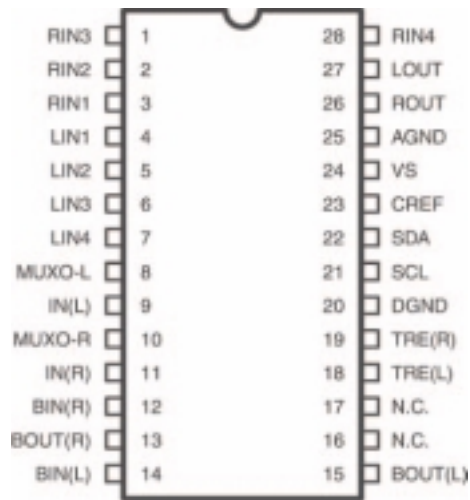


2. Block diagram

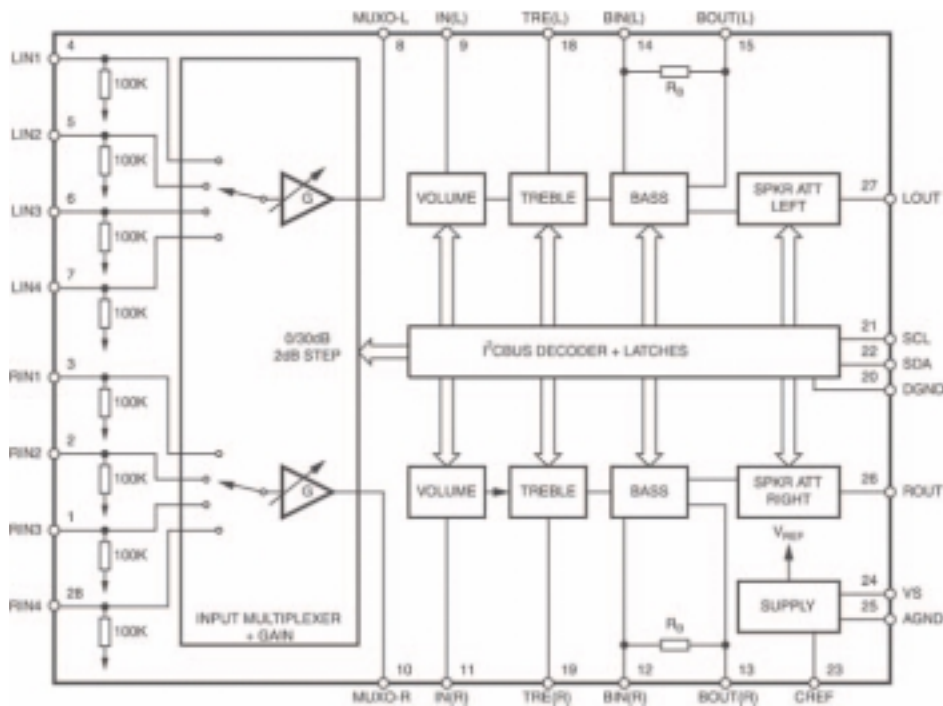


■ TDA7440D (IC101): Audio processor

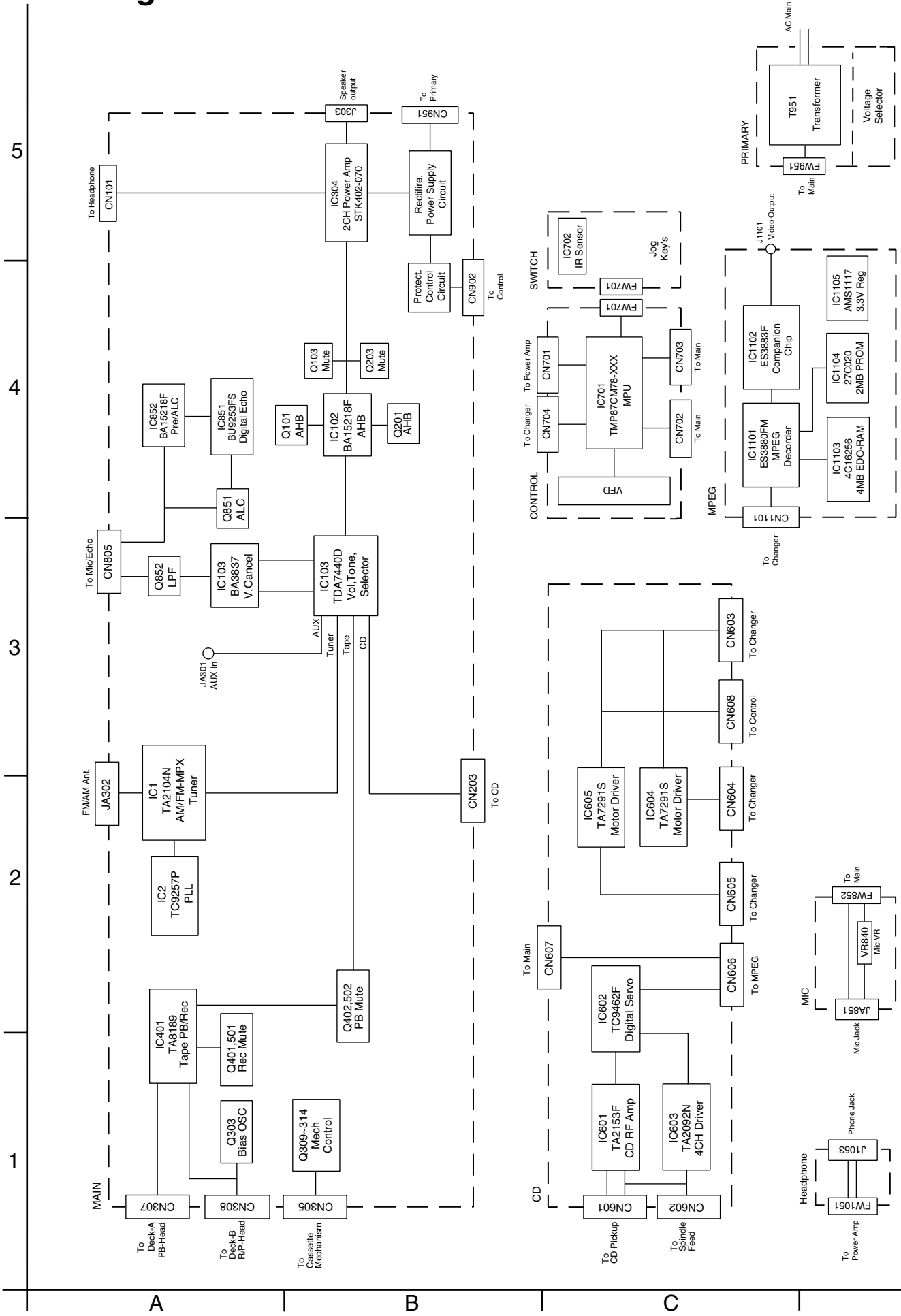
1. Terminal layout



2. Block diagram



Wiring connection



JVC

VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan



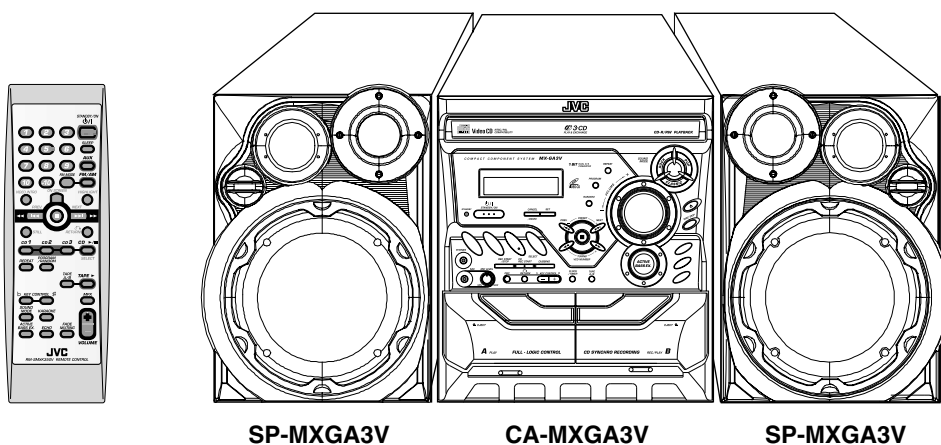
JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

MX-GA3V

CD-ROM No.SML200311



SP-MXGA3V

CA-MXGA3V

SP-MXGA3V

COMPACT
disc
DIGITAL VIDEO

VIDEO CD

Area Suffix

US Singapore
UX Saudi Arabia

Contents

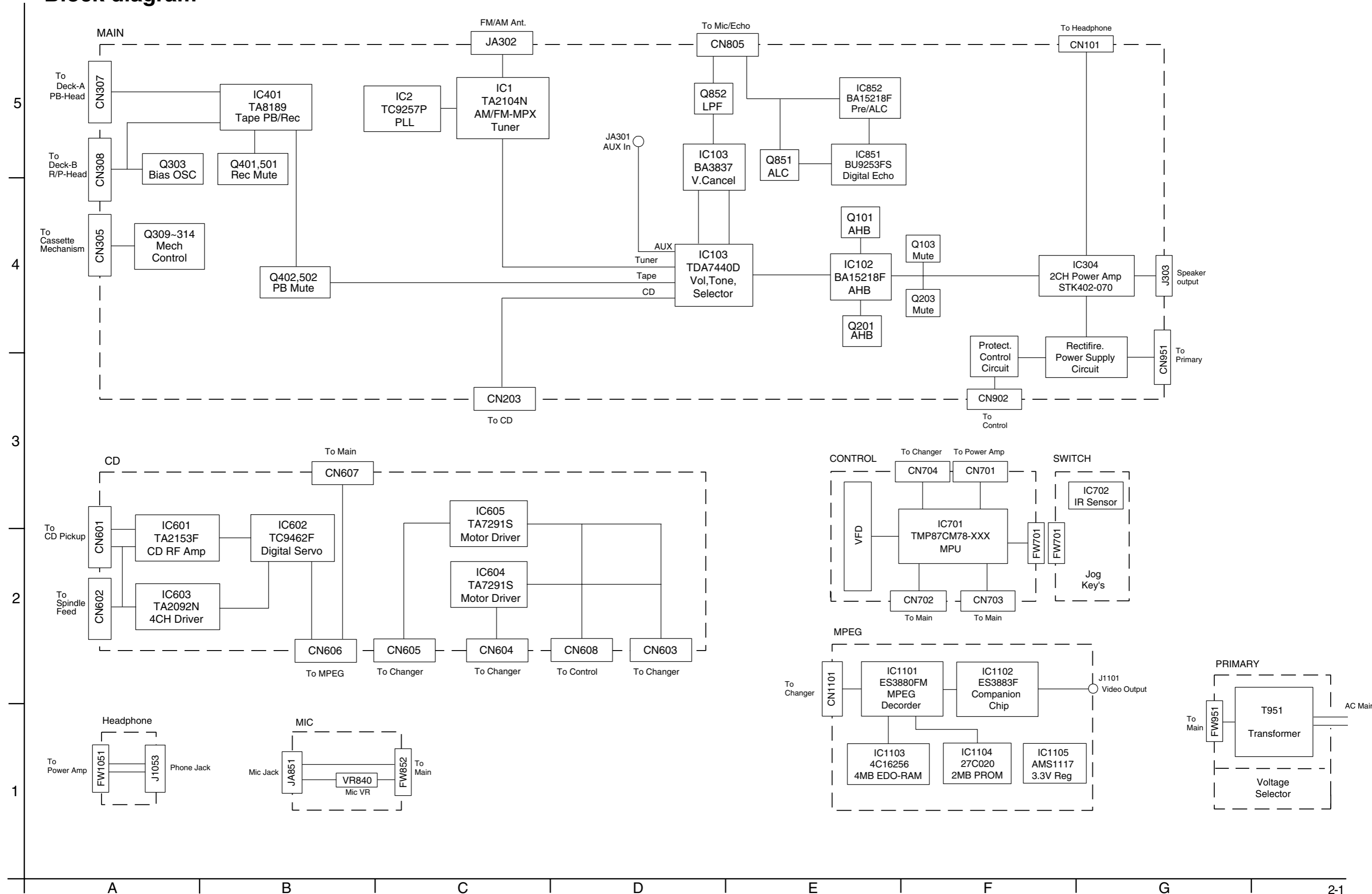
Block diagram	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-9~2-17

MX-GA3V

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▬) and ICP (●) or identified by the "△" mark nearby are critical for safety.

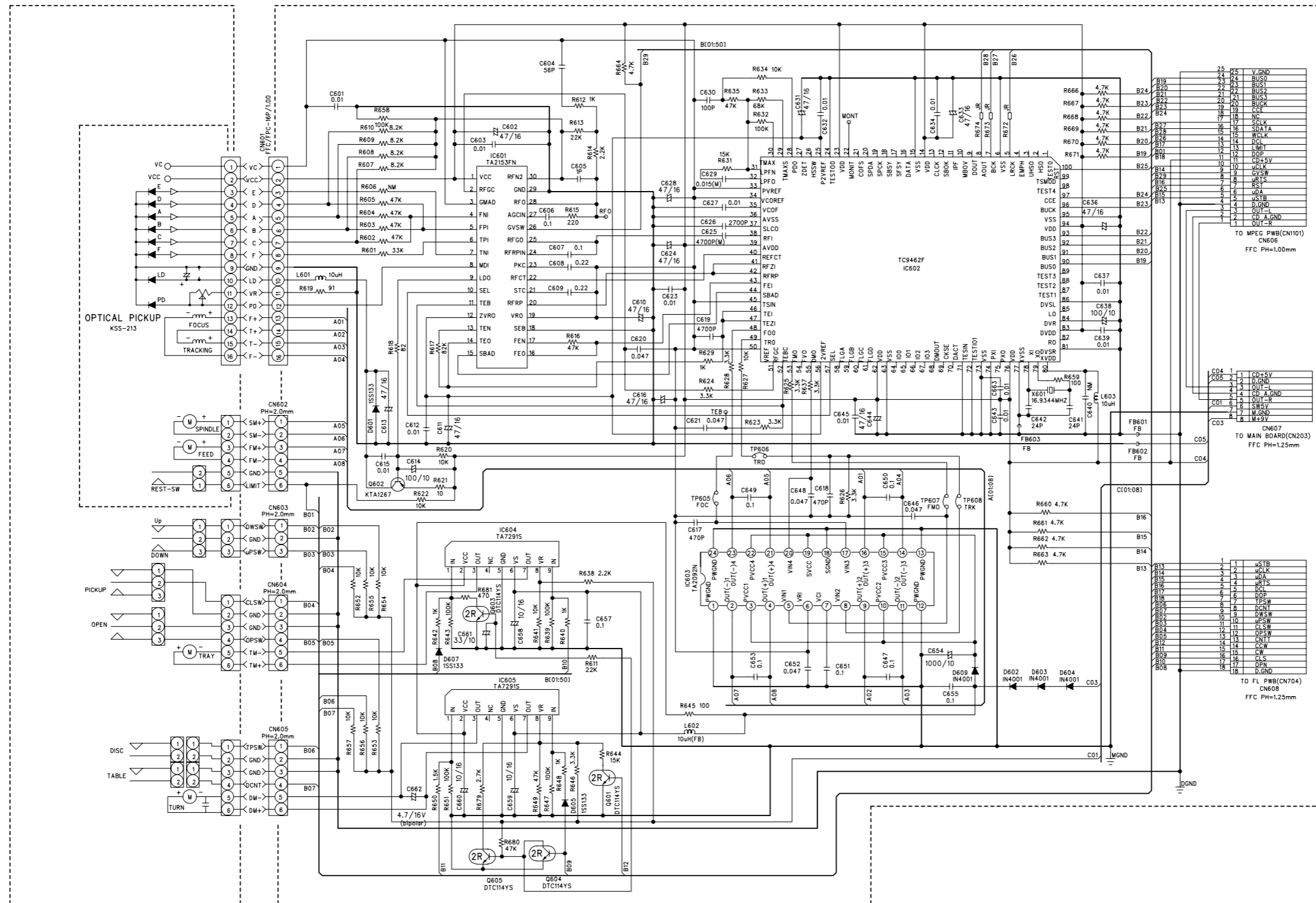
(This regulation does not correspond to J and C version.)

Block diagram



Standard schematic diagrams

■ CD Servo control section



5

4

3

2

1

A

B

C

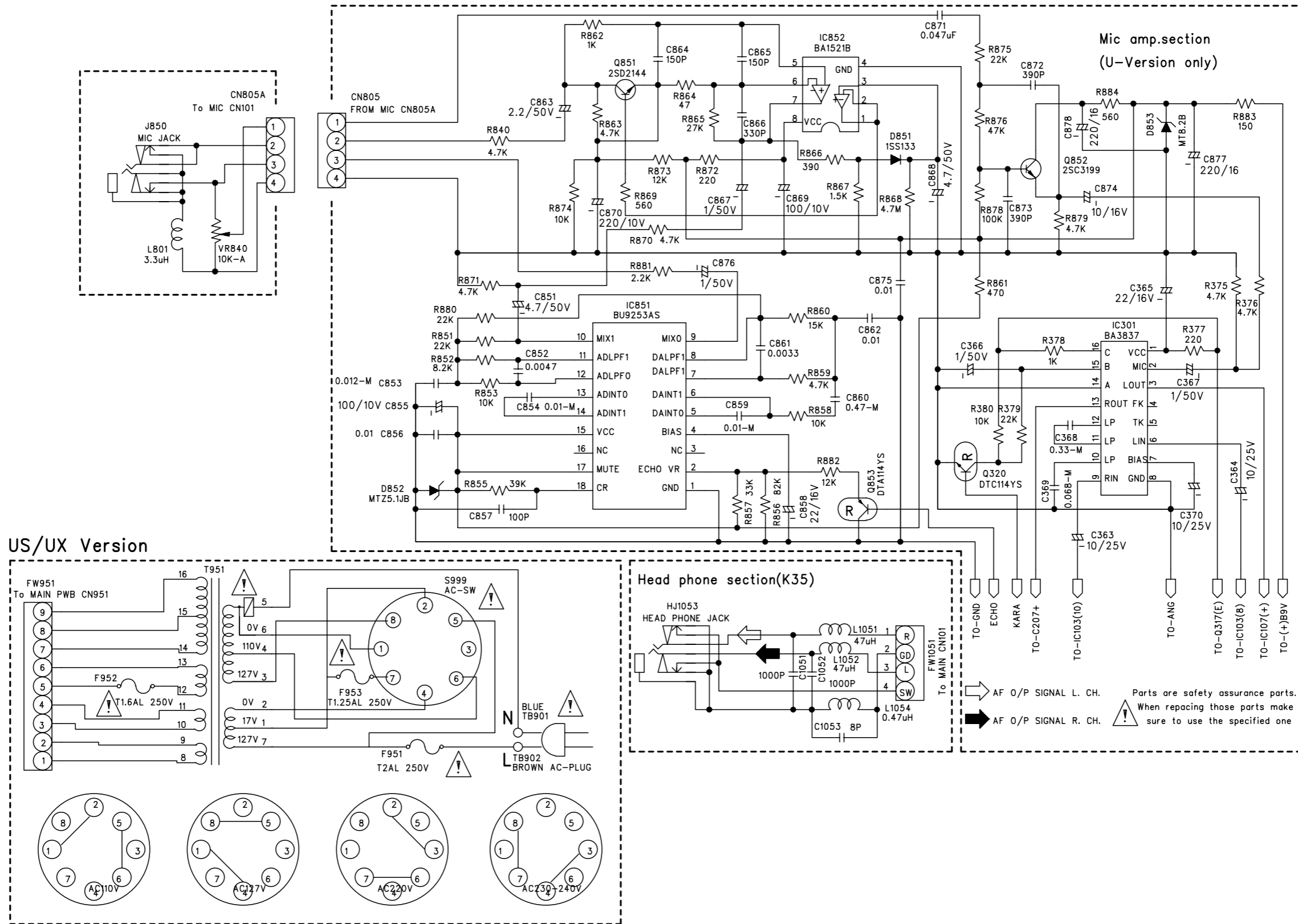
D

E

F

G

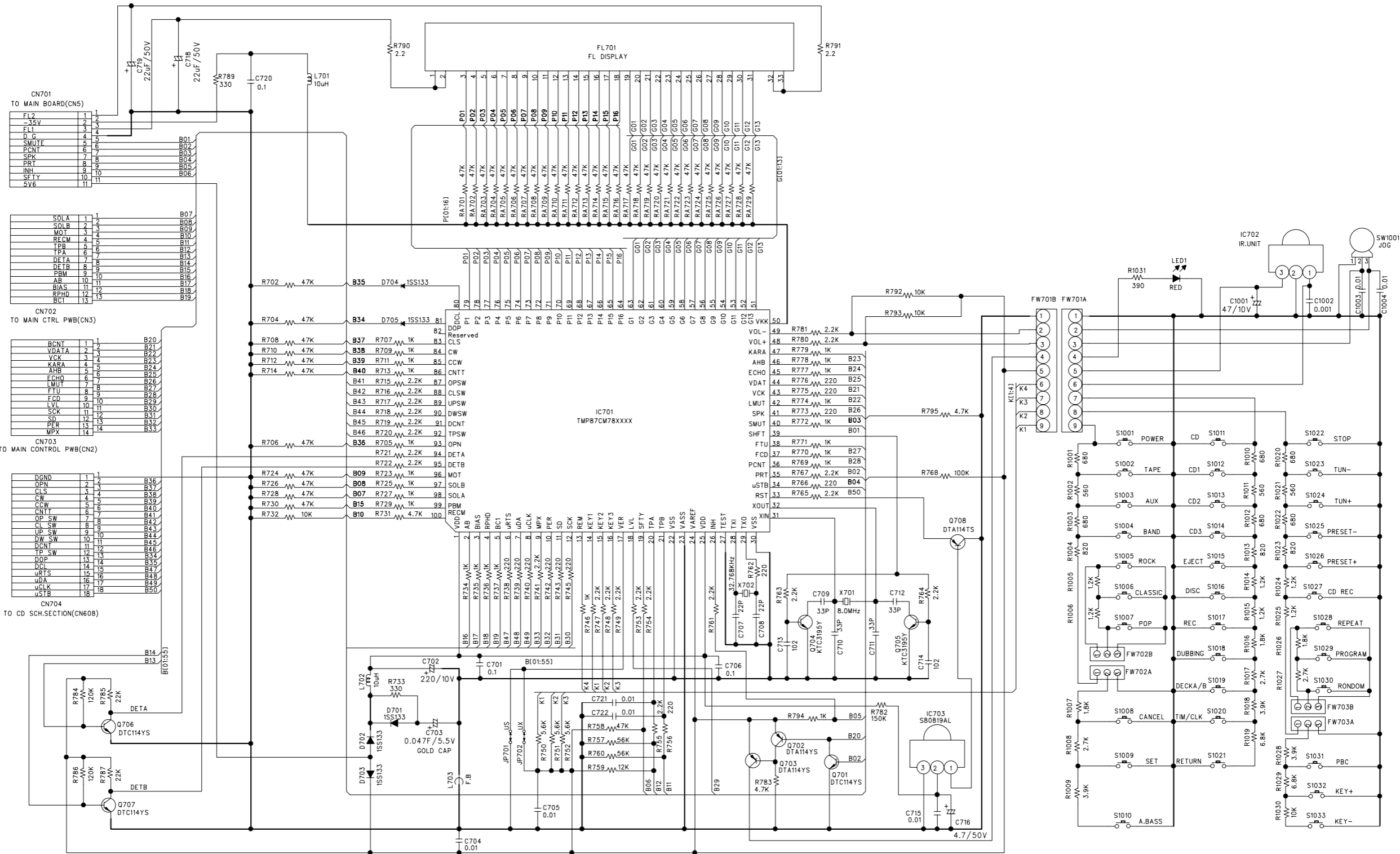
■ Power transformer section MIC AMP. and H.P section



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

FL Display and CPU Control Section

FL DISPLAY AND CPU CONTROL SECTION



5
4
3
2
1

A B C D E F G

MPEG Section

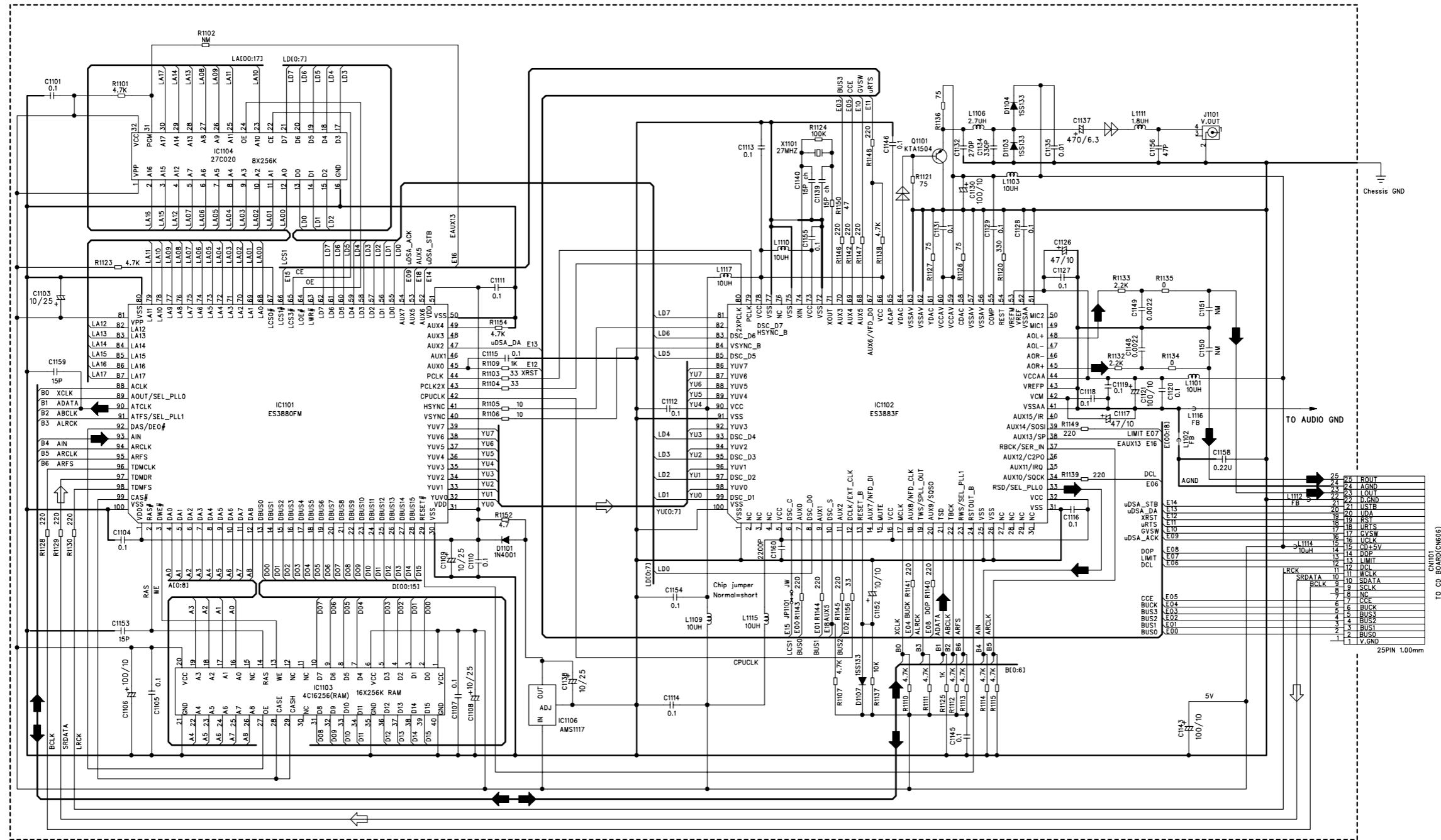
5

4

3

2

1

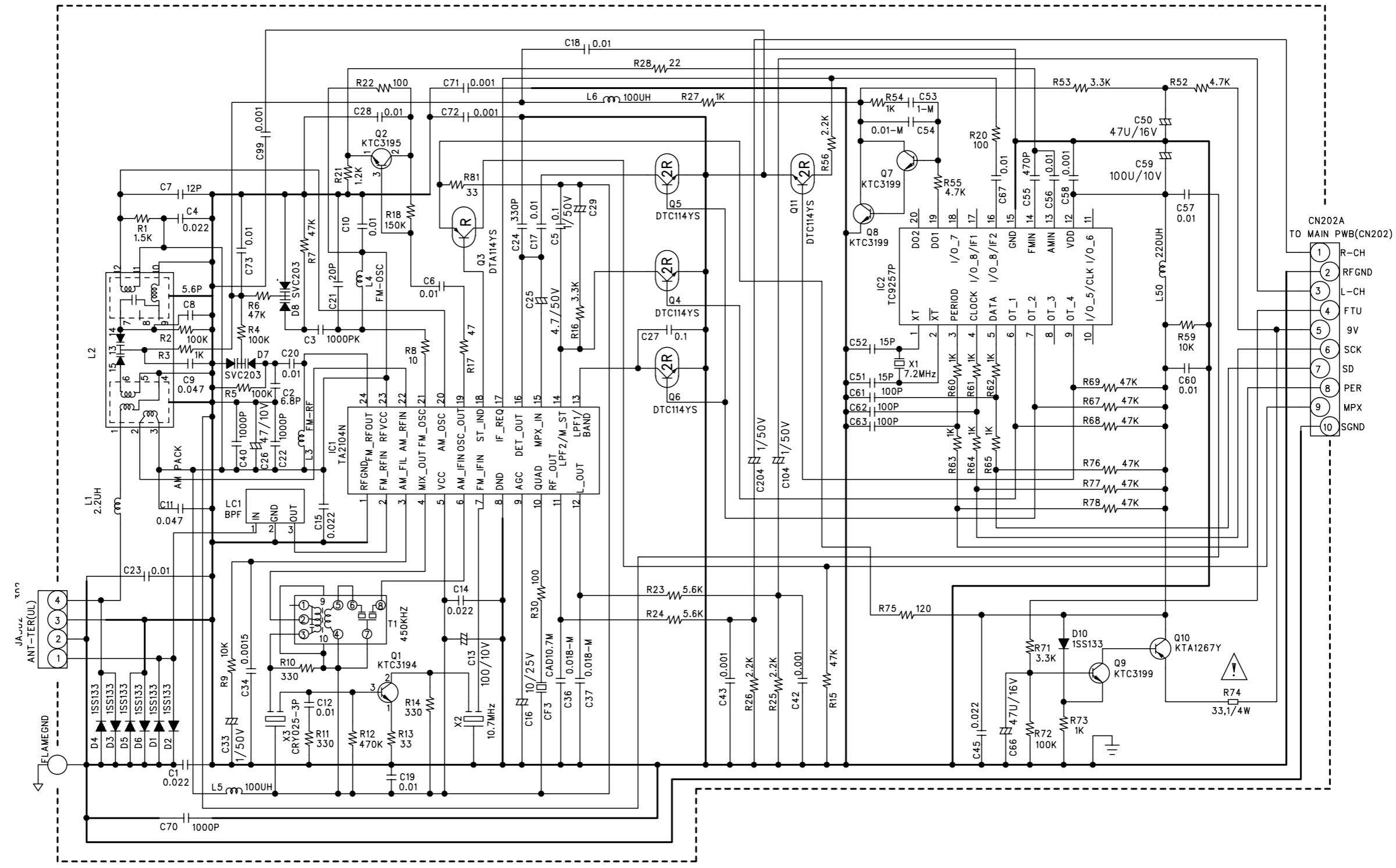


- ← CD SIGNAL
- ↔ VIDEO SIGNAL
- ⇄ VIDEO/CD PLAY SIGNAL

A B C D E F G

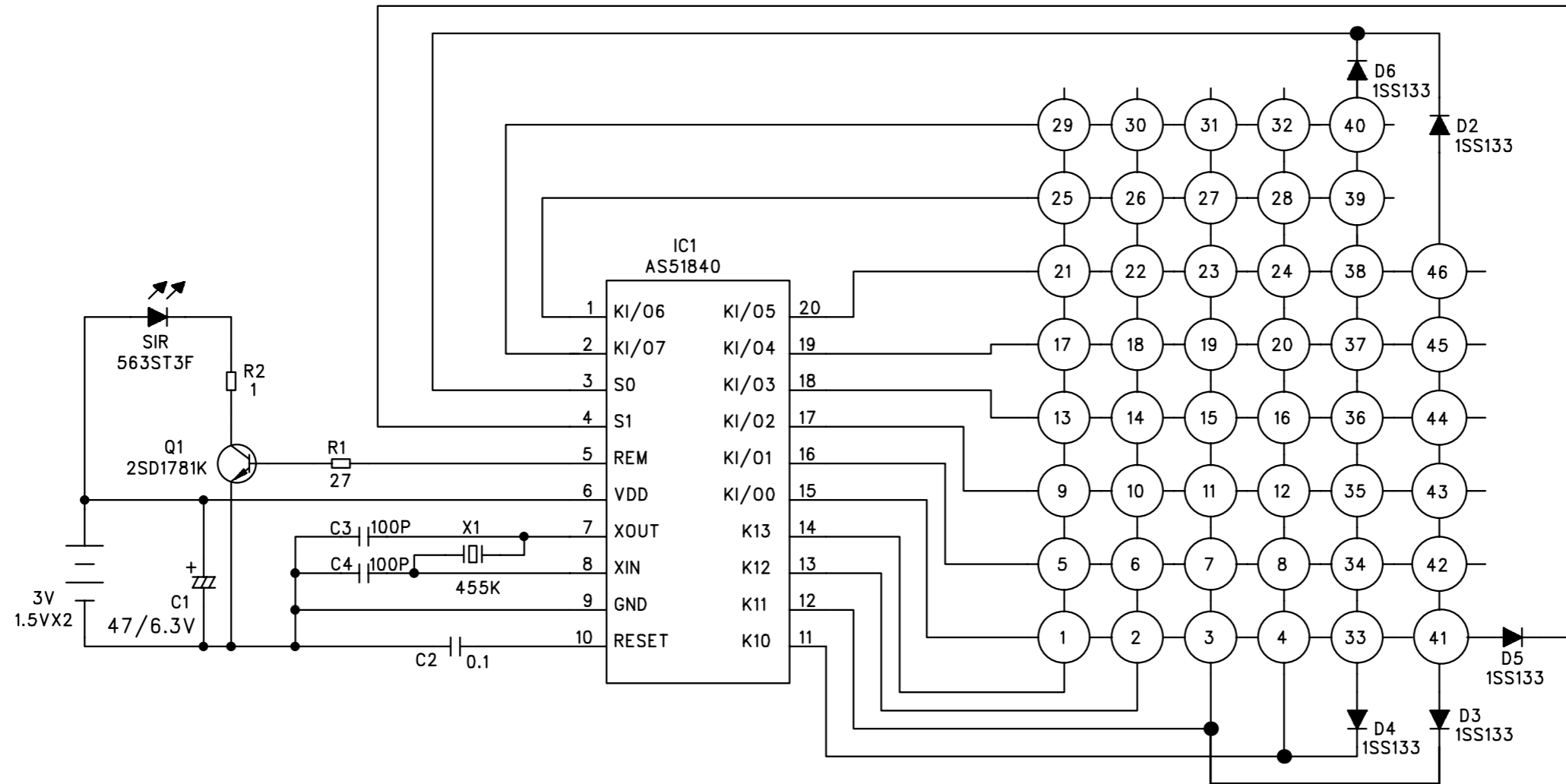
Tuner Section

5
4
3
2
1



A | B | C | D | E | F | G

■ Remote Control Section



5

4

3

2

1

A

B

C

D

E

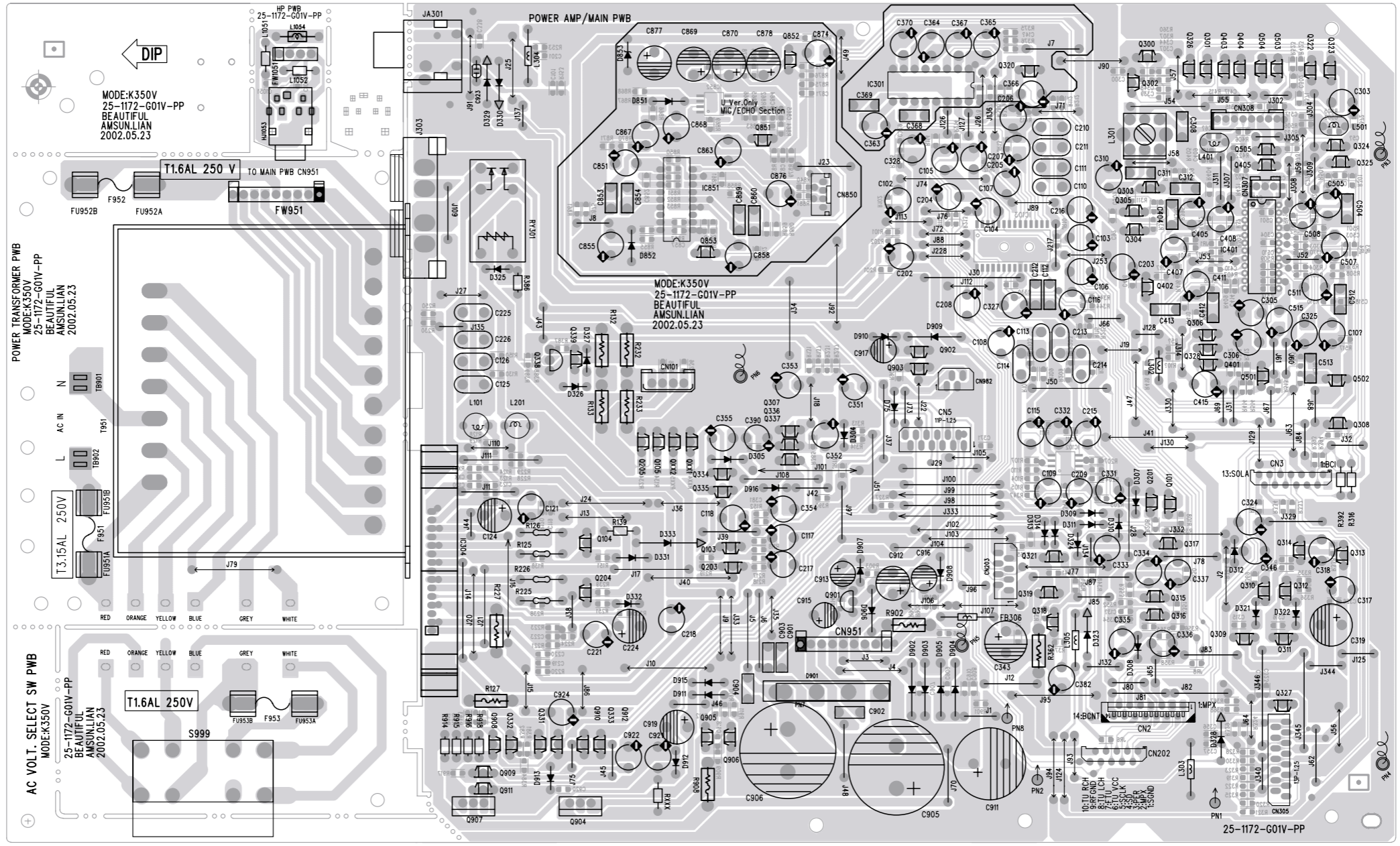
F

G

Printed circuit boards

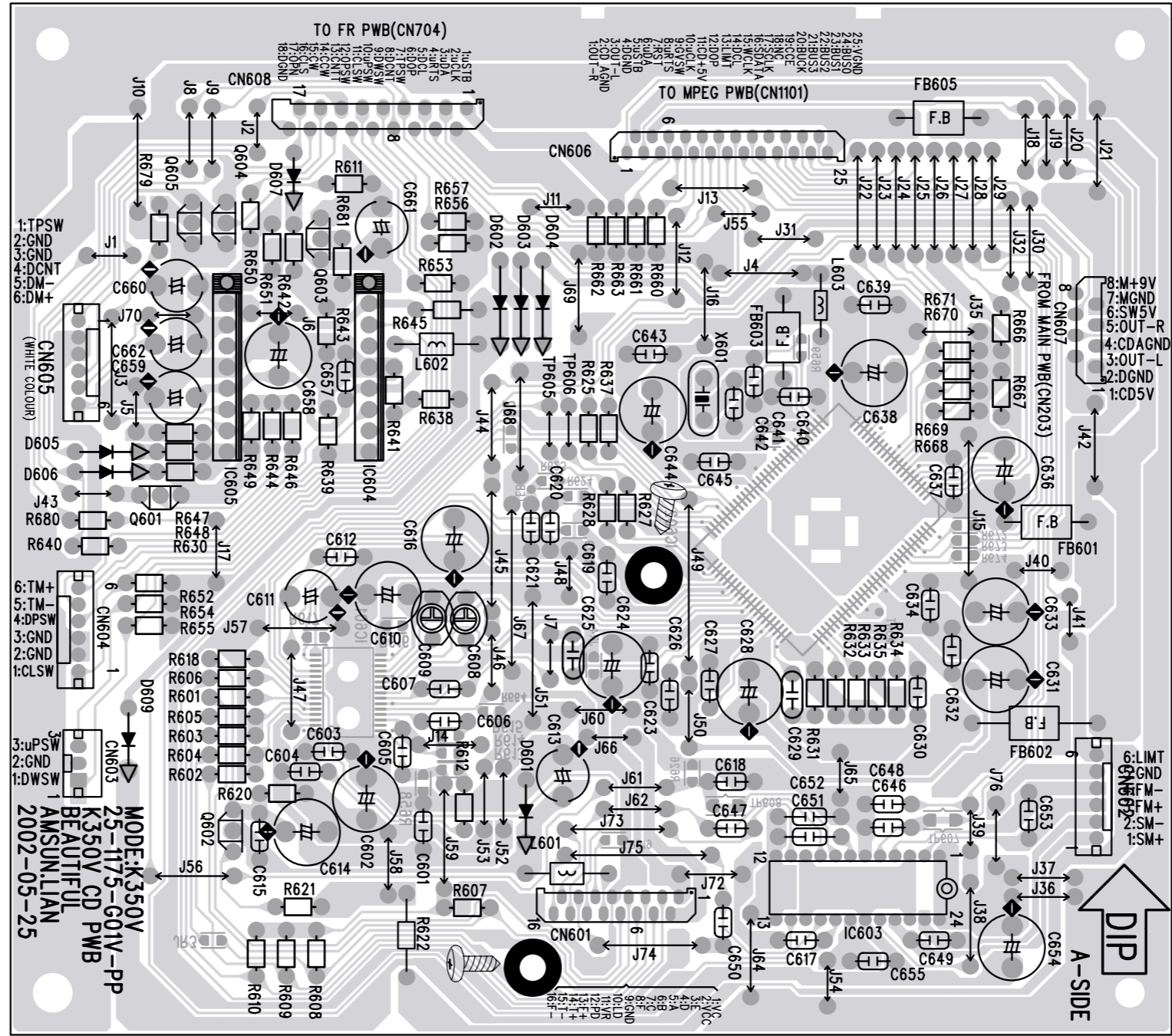
■ Main /power-amp. circuit board(Top side)

5
4
3
2
1



■ CD Main. circuit board (Top side)

5
4
3
2
1



A B C D E F G

■ CD Main. circuit board (Bottom side)

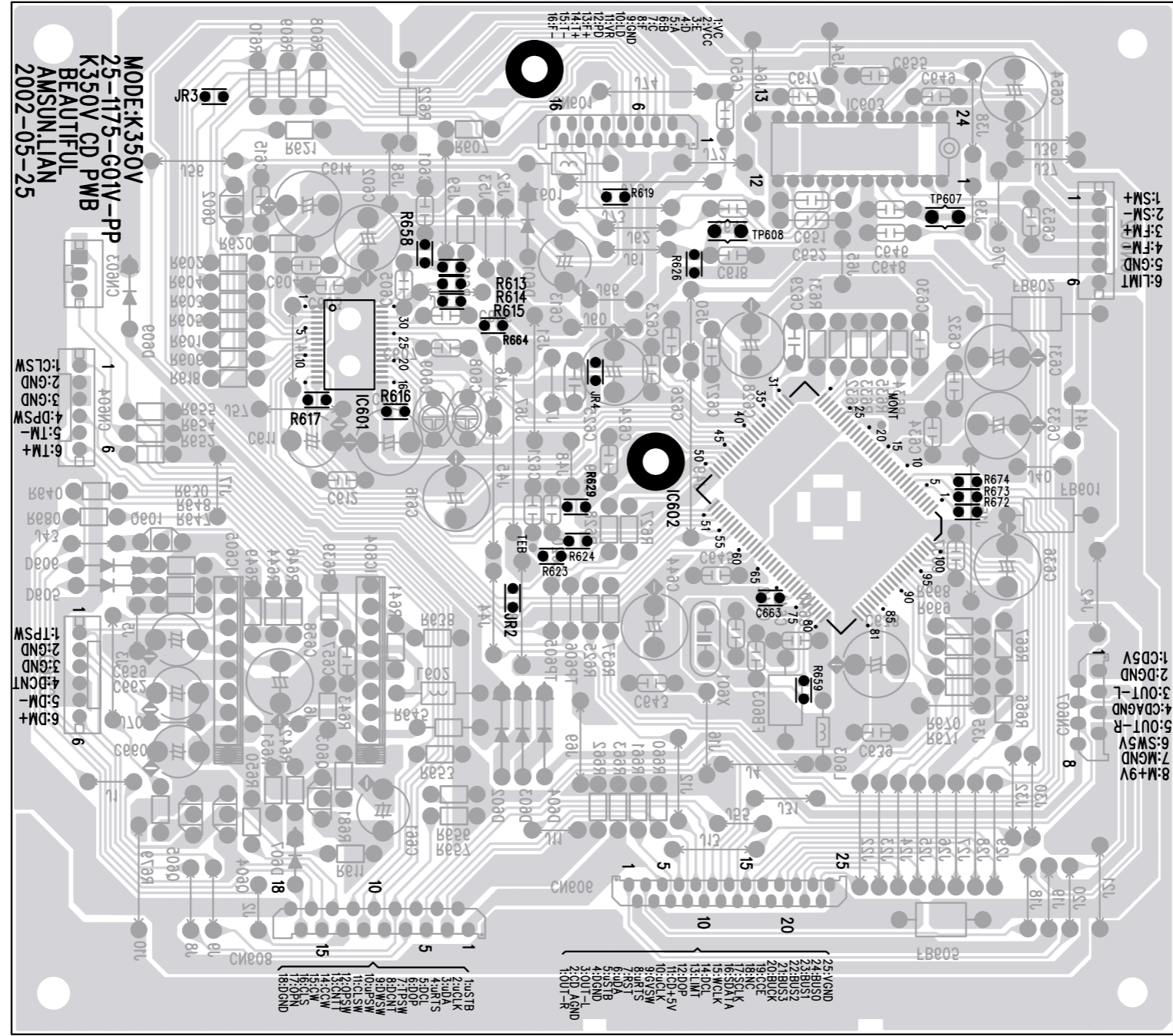
5

4

3

2

1



A

B

C

D

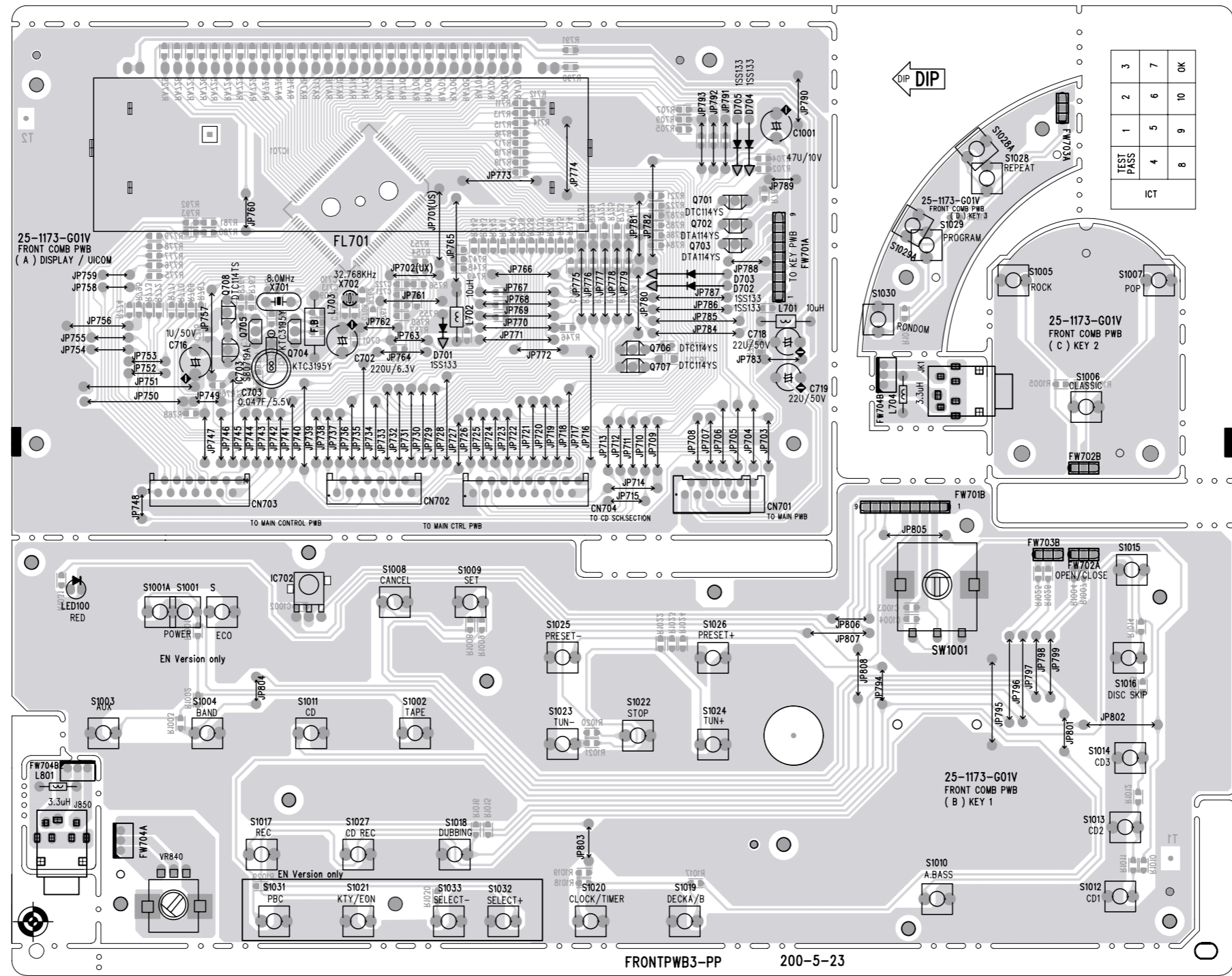
E

F

G

■ Display/Uicom control. circuit board (Top side)

5
4
3
2
1

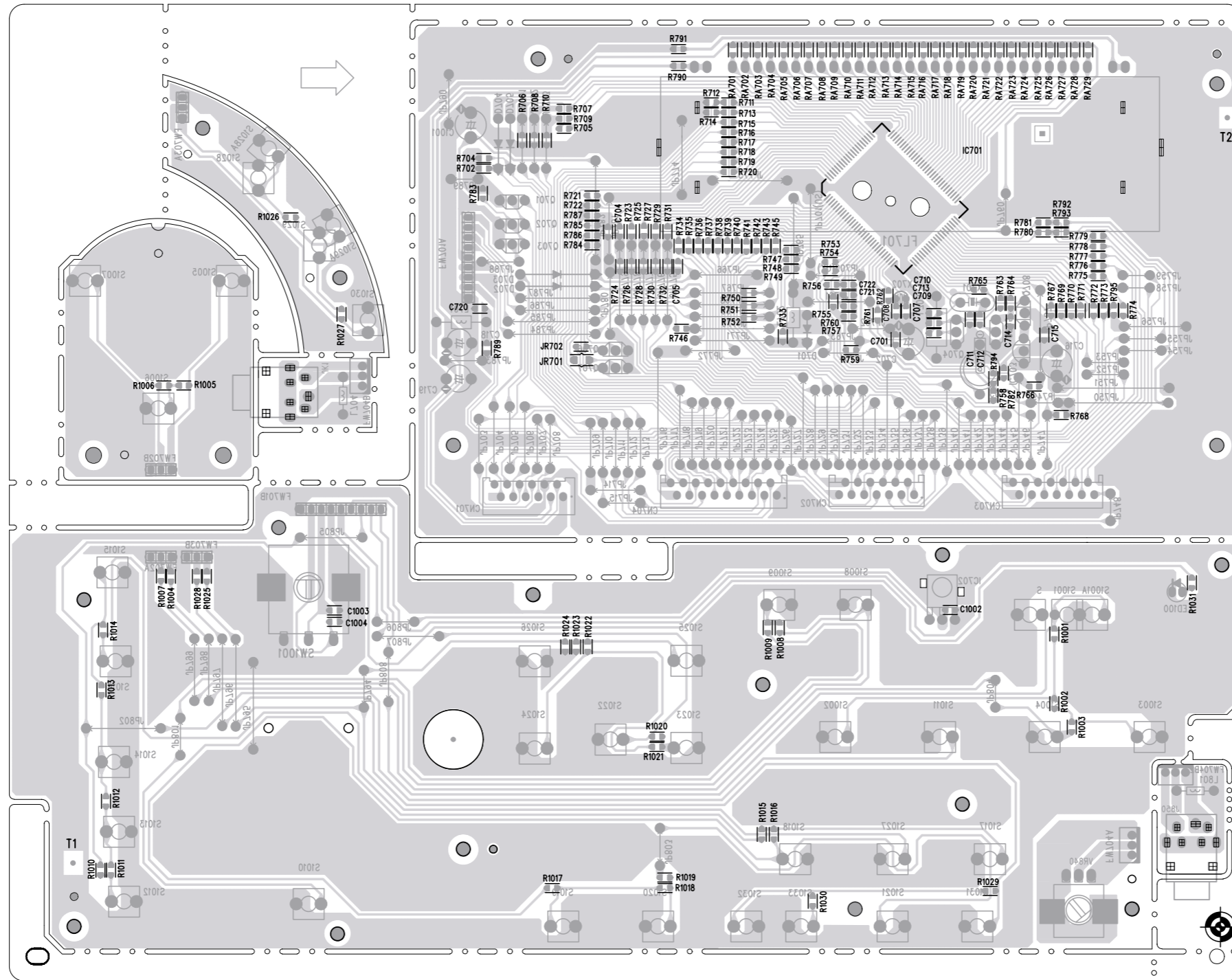


TEST	1	2	3
PASS	4	5	6
REPEAT	8	9	10
ICT			OK

A | B | C | D | E | F | G

■ Display/Uicom control. circuit board (Bottom side)

5
4
3
2
1



A

B

C

D

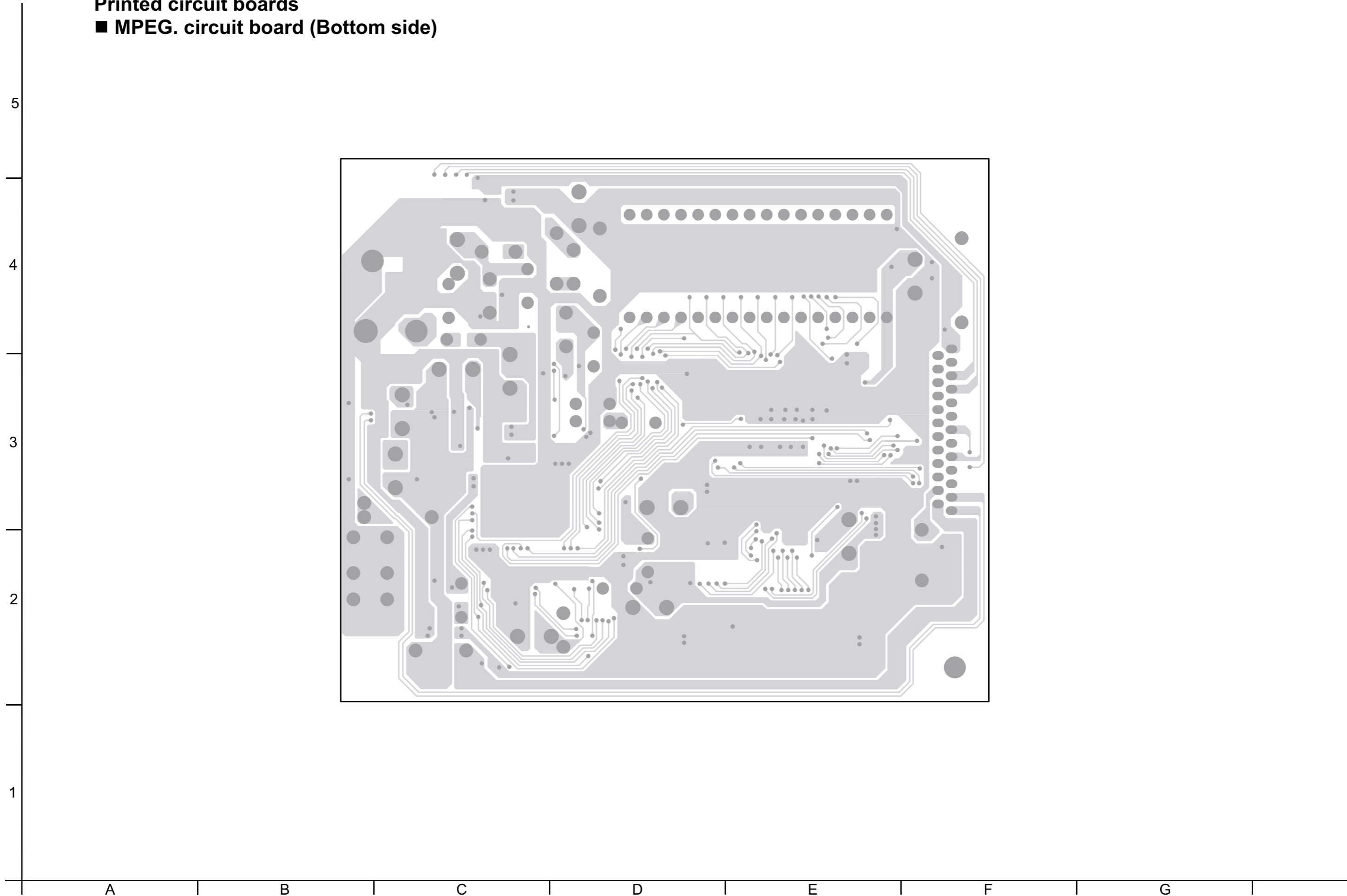
E

F

G

Printed circuit boards

■ MPEG. circuit board (Bottom side)



JVC

VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan



PARTS LIST

[MX-GA3]

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

Area suffix

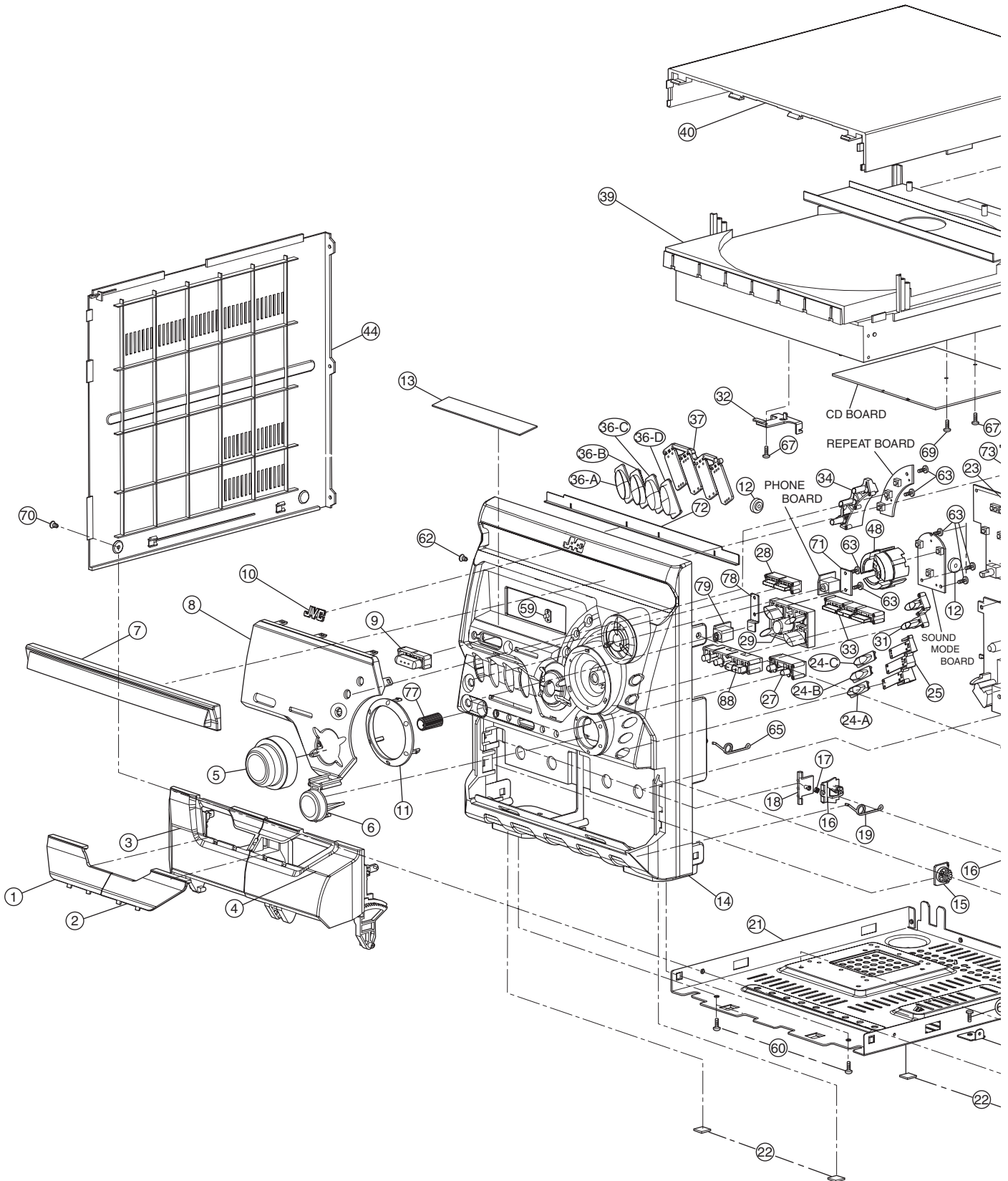
US ----- Singapore
UX ----- Saudi Arabia

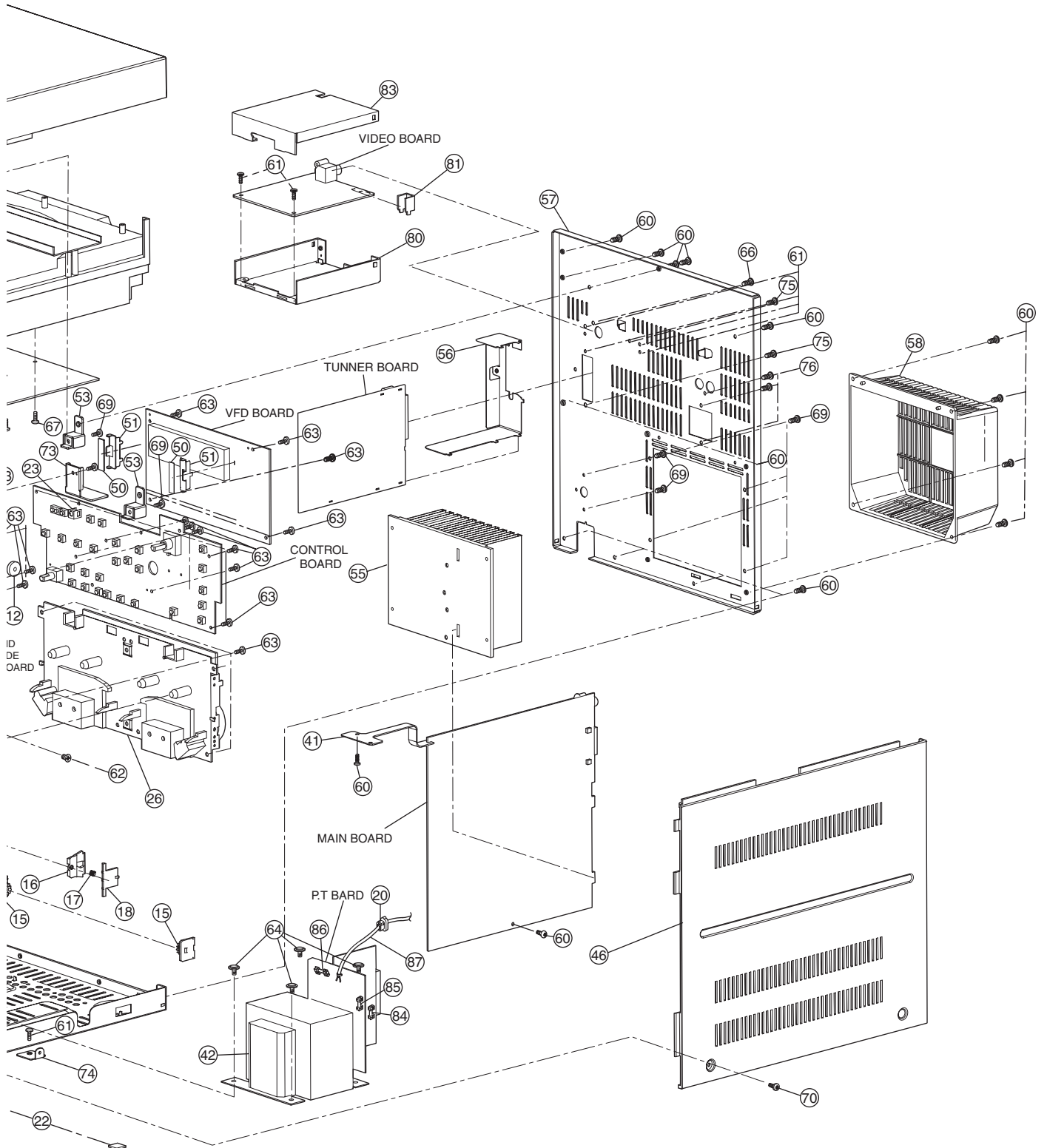
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3- 2
CD changer mechanism assembly and parts list (Block No.MA)	3- 5
Cassette mechanism assembly and parts list (Block No.MP)	3- 8
Electrical parts list (Block No.01~05)	3- 9
Packing materials and accessories parts list (Block No.M3)	3-14

Exploded view of general assembly and parts list

Block No. M 1 M M





General assembly

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	BI109808010101	WINDOW CASS L		
2	BI109809010101	WINDOW CASS R		
3	BI109806010201	BOX CASS L		
4	BI109807010201	BOX CASS R		
5	BI109819010201	KNOB VOLUME		
6	BI109823010101	KEY BASS		
7	BI109805030201	PANEL CD		
8	BI109810060101	WINDOW DISPLAY		
9	BI109830010101	KEY POWER A		
10	BI109835010101	LOGO JVC		
11	BI109834010101	RING VOLUME		
12	BI109969010201	SPACER	(x2)	
13	BI301781010101	MIRROR SHEET		
14	BI109804040201	PANEL FRONT		
15	BI301388010101	GEAR WHEET DAMP	(x2)	
16	BI109840010101	LOCKER	(x2)	
17	BI202408010101	SPRING LOCKER	(x2)	
18	BI109841010101	HLDR LOCKER	(x2)	
19	BI202266010101	SPRING CASS R		
△ 20	BI301789010101	BUSHING		
21	BI202262010401	BOTTOM PLATE		
22	BI103362020102	FOOT RUBBER	(x4)	
23	BI202103010101	HLDR SENSER		
24-A	BI109815010100	CAP CD CHANGE		
24-B	BI109816010100	CAP CD CHANGE		
24-C	BI109817010100	CAP CD CHANGE		
25	BI109822010101	KEY CD CHANGE		
26	BI3101441	CASSETTE MECHA		
27	BI109832010101	KEY CLOCK		
28	BI109828010101	KEY DEMO		
29	BI109829010201	KEY PLAY/STOP		
31	BI109825010201	KEY OPEN/CLOSE		
32	BI202268010101	BRACKET-PWB-A		
33	BI109831010201	KEY DUBBING		
34	BI109826010201	KEY REPEAT		
36-A	BI109811010100	CAP FUNCTION S		
36-B	BI109812010100	CAP FUNCTION S		
36-C	BI109813010100	CAP FUNCTION S		
36-D	BI109814010100	CAP FUNCTION S		
37	BI109821010101	KEY FUNCTION		
39	BI681MXK30000	CD CHANGER MECH		
40	BI109836010201	PANEL TOP		
41	BI202303010101	BRACKET-PWB-B		
△ 42	BI2110110040010	POWER TRANS		
44	BI109837010401	PANEL SIDE L		
46	BI109838010401	PANEL SIDE R		
48	BI109824010101	KEY SOUND MODE		
50	BI301773010101	TAPE DOUBLE SID	(x2)	
51	BI202267010101	BRACKET HLDR-V	(x2)	
53	BI202264010101	BRACKET ADAPTOR	(x2)	
55	BI202269010101	HEATSINK		
56	BI202304010101	HLDR-TUNNER		
57	BI2023200302U1	PANEL REAR	US	
57	BI2023200402U1	PANEL REAR	UX	
58	BI109839010101	HEATSINK-COVER		
59	BI109818010101	LES LED		
60	BIRM000604S3	SCREW	RH/ MS3X8MM(x19)	
61	BIRM000601S3	SCREW	RH/MS3X6MM(x7)	
62	BIKT000627	SCREW	KT/TS3X12MM(x2)	
63	BIBT000418	SCREW	BH/ TS2.6X8MM(x20)	
64	BIPMW001101S3	SCREW	PMW/ TS4X8MM(x4)	
65	BI202265101010	SPRING CASS L		
66	BIRT000618B2	SCREW	RH/TH3X6MM	
67	BIBT000206	SCREW	BH/TS2X8MM(x2)	
69	BIRT000611B3	SCREW	RH/TS3X8MM(x9)	
70	BIBM000618	SCREW	BT/MS3X6MM(x2)	
71	-----	PWB PHONE HOLDER		
72	BI202337010101	BRACKET-FORNT		
73	BI202348010101	BRACKET-CD-DECK		
74	BI202351010101	BRACKET-MB		
75	BIRT000617B3	SCREW	RH/TS3X10MM(x2)	

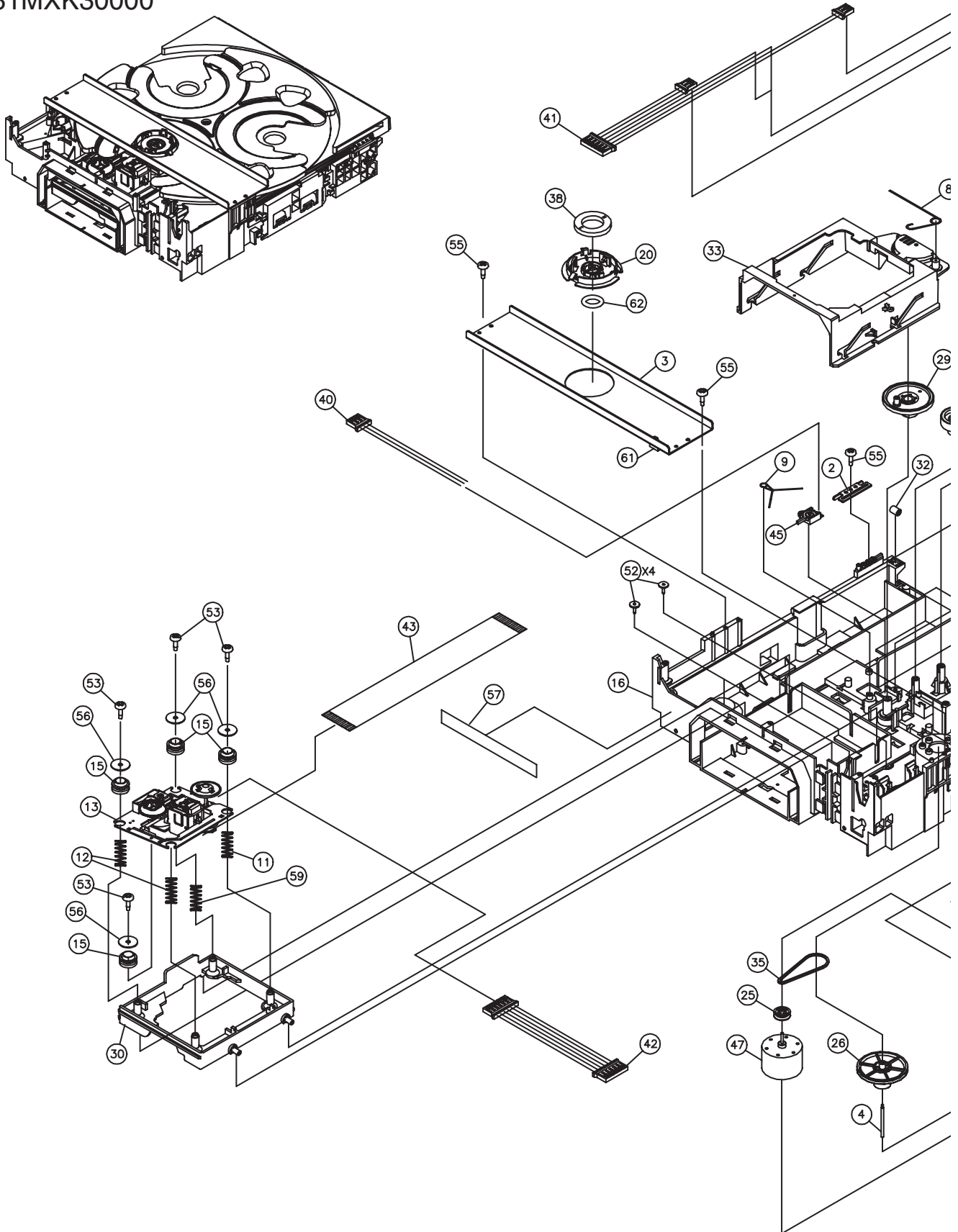
△ Symbol No.	Part No.	Part Name	Description	Local
76	BIRT000621B3	SCREW	RH/TS3X8MM(x3)	
77	BI109820010101	KEY CONTROL		
78	BI202364010101	BRACKET MIC-PHO		
79	BI23B0112	MIC JACK		
80	BI202423010101	PLATE VIDEO BOT		
81	BI202454010101	GRD VIDEO		
83	BI202424010101	PLATE VIDEO TOP		
△ 84	BI403111	FUSE	1.25AL 250V	
△ 85	BI402891	FUSE	1.6A 250 T218	
△ 86	BI403021	FUSE	2A 250V	
△ 87	BI1401001	AC CORD	US	
△ 87	BI1401131	AC CORD	UX	
88	BI109820010101	KEY CONTROL		

<MEMO>

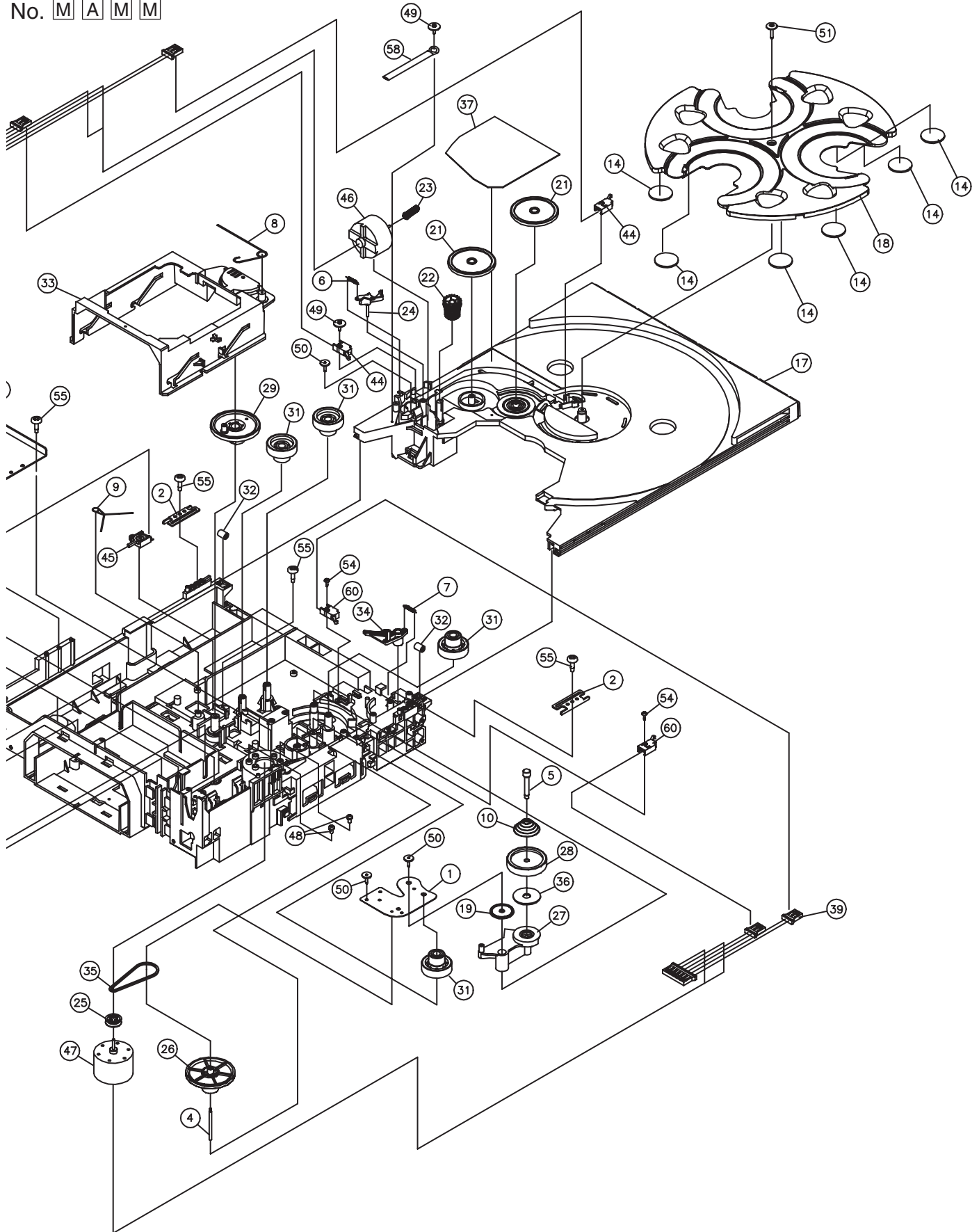
CD changer mechanism assembly and parts list

Block No. **M A M M**

BI681MXK30000



No. M A M M



CD changer mechanism

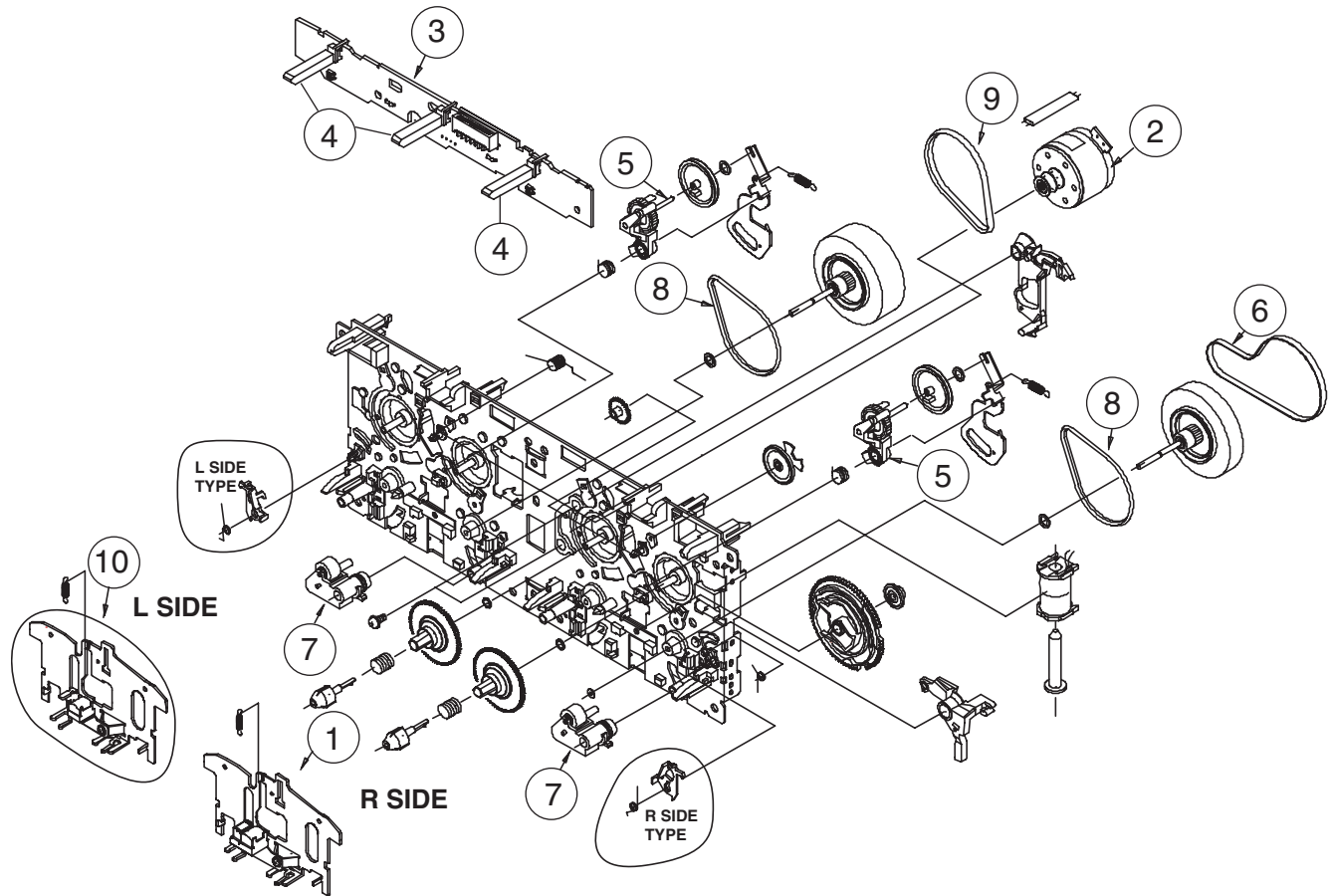
Block No. [M][A][M][M]

Symbol No.	Part No.	Part Name	Description	Local
1	BI3199801000	GEAR PLATE		
2	BI3199802000	GUIDE PLATE	(x2)	
3	BI3199804002	UP COVER PLATE		
4	BI3499801000	SHAFT PULLEY		
5	BI3499802000	SHAFT SWING		
6	BI3599801001	T/T SWITCH SPRI		
7	BI3599802000	SWING SPRING		
8	BI3599803000	SPRING BIG		
9	BI3599804000	SPRING SMALL		
10	BI3599805000	TOWER FORM SPRI		
11	BI3599806000	CUSHION HARD		
12	BI3599807000	CUSHION SOFT	(x2)	
13	BI36CJ000000	M-399 OPTIMA-7		
14	BI8814035105	TABLE	(x6)	
15	BI3799802000	CUSHION RUBBER	(x4)	
16	BI4299801002	BASE		
17	BI4299802000	TRAY		
18	BI4299803002	TURN CHANGER		
19	BI4299804000	INERTIA GEAR A		
20	BI4299821000	HOLDER DISC		
21	BI4299806000	T/T GEAR	(x2)	
22	BI4297307000	OBLIQUE GEAR		
23	BI4299808000	SCREW STICK		
24	BI4299809000	T/T LEVER LOCK		
25	BI4299810000	PULLEY		
26	BI4299811000	PULLEY GEAR		
27	BI4299812000	BASE CHANGE		
28	BI4299813000	TRANSMISSION		
29	BI4299814001	MECHA GEAR		
30	BI4299815000	MECHA HOLDER		
31	BI4299816001	INERTIA GEAR B	(x4)	
32	BI4299817000	ROLLER	(x2)	
33	BI4299818000	BASE CD MECHANI		
34	BI4299819000	BUFFER BASE		
35	BI4399801000	BELT		
36	BI4799801000	BASE CHANGE FEL		
37	BI4799803001	PVC PLATE		
38	BI4799804000	MAGNET DISC CRA		
39	BI5099807001	WIRE ASSY 6P		
40	BI5099808000	WIRE ASSY 3P		
41	BI5099809001	WIRE ASSY 6P		
42	BI5099813000	WIRE ASSY 6P		
43	BI5099814000	FLEX CABLE 16P		
44	BI6599801002	SWITCH	(x2)	
45	BI6599802000	SWITCH		
46	BI6994301000	MOTOR		
47	BI699801000	MOTOR		
48	BI86000102J3	SCREW	(x2)	
49	BI86000115F1	SCREW	(x2)	
50	BI86000125E1	SCREW	(x3)	
51	BI86000135E1	SCREW		
52	BI86000145E2	SCREW	(x4)	
53	BI865F31B075	SCREW	(x4)	
54	BI865F31B120	SCREW	(x2)	
55	BI865J31B080	SCREW	(x5)	
56	BI8811231206	WASHER	(x4)	
57	BI4500001100	YST BAR CODE		
58	BI5599810000	WIRE CLAMPER		
59	BI3599806001	CUSHION SPR HAR		
60	BI6599801000	SWITCH	(x2)	
61	BI3799801000	RUBBER		
62	BI4799805000	WASHER FELT		

Cassette mechanism assembly and parts list

Block No. M P M M

CMAT6Z223B



Note: Parts listed on the Parts List below can be supplied. However, parts that are not listed below cannot be supplied individually but only by purchasing the whole Cassette Mechanism Assembly Unit. (When ordering, use the Parts No. CMAT6Z223B for Cassette Mechanism Assembly Unit.)

Cassette mechanism

Block No. MPMM

△ Symbol No.	Part No.	Part Name	Description	Local
1	BIF513858	PLATE HD BLK		
2	BIF525346	MTR MAIN BLK		
3	BIF567843	PCB CONTROL BLK		
4	BIUE20P12	LEAF SWITCH	(x3)	
5	BIF522063	CLUTCH ASSY BLK	(x2)	
6	BIFF19N31	MAIN BELT		
7	BIF51435	ROLLER PINCH BL	(x2)	
8	BIFF19S31	F/R BELT MO	(x2)	
9	BIFF19N22	MAIN BELT		
10	BIF513855	PLATE HD BLK		

Electrical parts list

Main board

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

△ Symbol No.	Part No.	Part Name	Description	Local
IC102	BA15218F	IC	BI113241	
IC103	TDA7440D	IC	BI113231	
IC301	BA3837	IC	BI113891	
△ IC304	STK402-070	IC	BI113201	
IC401	TA8189N	IC	BI101251	
IC851	BU9253AS	IC	BI113881	
IC852	BA15218F	IC	BI113241	
Q101	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q103	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q104	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q105	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q201	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q203	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q204	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q205	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q301	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q302	KTC3200GR	TRANSISTOR	BI2KTC3200P0008	
Q303	KTC3203Y	TRANSISTOR	BI2KTC3203YP000	
Q304	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q305	DTC144ES	TRANSISTOR	BI2DTC144ESP002	
Q307	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q308	DTC144ES	TRANSISTOR	BI2DTC144ESP002	
Q309	KTA1273Y	TRANSISTOR	BI2KTA1273P0008	
Q310	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q311	KTA1273Y	TRANSISTOR	BI2KTA1273P0008	
Q312	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q313	KTA1273Y	TRANSISTOR	BI2KTA1273P0008	
Q314	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q315	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q316	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q317	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q318	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q319	KTA1273Y	TRANSISTOR	BI2KTA1273P0008	
Q320	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q321	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q322	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q323	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q324	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q325	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q327	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q331	KTC3200GR	TRANSISTOR	BI2KTC3200P0008	
Q332	KTA1268GR	TRANSISTOR	BI2KTA1268GP000	
Q333	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q334	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q335	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q336	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q337	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q338	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q339	DTC114YS	TRANSISTOR	BI2DTC114YSP002	

△ Symbol No.	Part No.	Part Name	Description	Local
Q401	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q402	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q403	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q404	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q405	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q501	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q502	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q503	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q504	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q505	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q851	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q852	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q853	DTA114YS	TRANSISTOR	BI2DTA114YSP002	
Q901	2SA934R	TRANSISTOR	BI2SA934RP0007	
Q902	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q903	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
△ Q904	KTB1366Y	TRANSISTOR	BI2KTB1366Y8	
Q905	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q906	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
△ Q907	KTB1366Y	TRANSISTOR	BI2KTB1366Y8	
Q908	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q909	KRA107M	DIGI TRANSISTOR	BI2KRA107MP000	
Q910	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q911	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q912	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
D304	1SS133	FR DIODE	BI31SS133M0007	
D305	1SS133	FR DIODE	BI31SS133M0007	
D307	MTZJ5.1B	Z DIODE	BI3MTZJ5.1BM000	
D308	1SS133	FR DIODE	BI31SS133M0007	
D309	1SS133	FR DIODE	BI31SS133M0007	
D310	1SS133	FR DIODE	BI31SS133M0007	
D311	1SS133	FR DIODE	BI31SS133M0007	
D312	1SS133	FR DIODE	BI31SS133M0007	
D313	1SS133	FR DIODE	BI31SS133M0007	
D314	1SS133	FR DIODE	BI31SS133M0007	
D321	1SS133	FR DIODE	BI31SS133M0007	
D322	1SS133	FR DIODE	BI31SS133M0007	
D323	1N4001	FR DIODE	BI31N40011	
D324	1SS133	FR DIODE	BI31SS133M0007	
D325	1SS133	FR DIODE	BI31SS133M0007	
D326	1SS133	FR DIODE	BI31SS133M0007	
D327	1SS133	FR DIODE	BI31SS133M0007	
D328	1SS133	FR DIODE	BI31SS133M0007	
D329	1SS133	FR DIODE	BI31SS133M0007	
D330	1SS133	FR DIODE	BI31SS133M0007	
D331	1SS133	FR DIODE	BI31SS133M0007	
D332	1SS133	FR DIODE	BI31SS133M0007	
D333	1SS133	FR DIODE	BI31SS133M0007	
D851	1SS133	FR DIODE	BI31SS133M0007	
D852	MTZJ5.1B	Z DIODE	BI3MTZJ5.1BM000	
D853	MTZJ8.2B	Z DIODE	BI3MTZJ8.2BM000	
△ D901	RS603M	SI DIODE	BI3RS603M1	
△ D902	1N5393	SI DIODE	BI31N5393GWN000	
△ D903	1N5393	SI DIODE	BI31N5393GWN000	
△ D904	1N5393	SI DIODE	BI31N5393GWN000	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
△ D905	1N5393	SI DIODE	BI31N5393GWN00		XXX	BI11TT80H3	T&TWIRE	80MM RED	
△ D906	1N4001	FR DIODE	BI31N40011		XXX	BI11TT80H4	T&TWIRE	80MM RED	
D907	MTZJ33C	Z DIODE	BI3MTZJ33CM000		XXX	BI11TT80H5	T&TWIRE	80MM RED	
D908	MTZJ6.2B	Z DIODE	BI3MTZJ6.2BM000		XXX	BI11TT80H6	T&TWIRE	80MM RED	
D909	1SS133	FR DIODE	BI31SS133M0007		Tuner board				
D910	MTZJ6.2 B	Z DIODE	BI3MTZJ6.2BM000						
D911	MTZJ5.6B	Z DIODE	BI3MTZJ5.6BM000						
D912	MTZJ13C	Z DIODE	BI3MTZJ13CM000						
D913	MTZJ12C	Z DIODE	BI3MTZJ12CM000						
D915	MTZJ6.8B	Z DIODE	BI3MTZJ6.8BM000						
D916	1SS133	FR DIODE	BI31SS133M0007						
C117	BI5283A	TIN COATED	0.6MM						
C217	BI5283A	TIN COATED	0.6MM						
C302	BI5283A	TIN COATED	0.6MM						
C401	BI5283A	TIN COATED	0.6MM						
C501	BI5283A	TIN COATED	0.6MM						
△ C905	BICE33863MSN3	E CAPACITOR	3300UF/63V						
△ C906	BICE33863MSN3	E CAPACITOR	3300UF/63V						
△ C911	BICE47825M0	E CAPACITOR	E 4700-25 M						
△ R127	BIRF1510045N000	FUSED RESISTOR	150OHM 1/4W						
△ R132	BIRF3910045N000	FUSED RESISTOR	390 OHM J 1/4W						
△ R133	BIRF3910045N000	FUSED RESISTOR	390 OHM J 1/4W						
△ R227	BIRF1510045N000	FUSED RESISTOR	150OHM 1/4W						
△ R232	BIRF3910045N000	FUSED RESISTOR	390 OHM J 1/4W						
△ R233	BIRF3910045N000	FUSED RESISTOR	390 OHM J 1/4W						
△ R362	BIRF0100045N000	FUSED RESISTOR	1OHM 1/4W						
△ R902	BIRF1010045N000	FUSI RESISTOR	100 OHM J 1/4W						
△ R908	BIRF0100025N000	FUSED RESISTOR	1OHM 0.5W						
L101	BI2600702	FIXED INDUCTOR	1.0UH						
L201	BI2600702	FIXED INDUCTOR	1.0UH						
L301	BI605071	IFT	10MM 864306						
L305	BI26100000KN008	FIXED INDUCTOR	10UH / 52MM						
L1051	BI26470000KM002	FIXED INDUCTOR	47UH/26MM						
L1052	BI26470000KM002	FIXED INDUCTOR	47UH/26MM						
L1054	BI26004700MM002	FIXED INDUCTOR	0.47UH / 26MM						
BI304	BI18A843556N000	FILTER BEAD	52MM						
CD75	BI5283A	TIN COATED	0.6MM						
CN2	BI12S140017	CONNECTOR	14P V /1.25MM						
CN3	BI12S130027	CONNECTOR	13P /1.25MM						
CN5	BI12S110020	CONNECTOR	11P/1.25MM						
CN101	BI12S40047	CONNECTOR	4 PINS/ 4P						
CN202	BI12S100034	CONNECTOR	10P V						
CN203	BI12S800421	FFC CONNECTOR	8P /1.25MM						
CN305	BI12S130027	CONNECTOR	13P /1.25MM						
CN307	BI12S30039	CONNECTOR	3P /2MM						
CN308	BI12S80024	CONNECTOR	8P/ 2MM						
CN850	BI12S400551	CONNECTOR	4P/PITCH2.0MM						
CN951	BI12P90052	CONNECTOR ASSY	9P						
FB306	BI18A843556N000	FILTER BEAD	52MM						
FW951	BI12S90048	CONNECTOR	9P /2.5MM						
J303	BI23F0251	SP 4P TERMINAL	SP 4P						
J1053	BI23B0112	MIC JACK	3.5M						
JA301	BI23B0931	RCA W/R JACK	2 RCA						
PN1	BI2004771	P.C.B. TERMINAL	0						
PN2	BI2004771	P.C.B. TERMINAL	0						
PN3	BI11A050M0	BLACK WIRE	50MM UL100						
PN4	BI11A050M0	BLACK WIRE	50MM UL1007						
PN5	BI11A050M0	BLACK WIRE	50MM UL1007						
PN6	BI11A050M0	BLACK WIRE	50MM UL1007						
PN8	BI2004771	P.C.B. TERMINAL	0						
PWB	BI251172G01V	MAIN PWB							
RY301	BI8RL00071	RELAY	G5PA-2						
△ S999	BI804351	SWITCH	C2C TYPE						
TB901	BI201323010101	TERMINAL PLUG	1P MSC						
TB902	BI201323010101	TERMINAL PLUG	1P MSC						
W1051	BI12P402341	CONNECTOR	4PINS /2.5MM						
XXX	BI202323010101	HEATSINK-AMP	AL T=1.0MM						
XXX	BIRT000611B3	SCREW	3XL8MM						
XXX	BI201771010101	TOOTH WASHER	M2.6						
XXX	BI11TT80H1	T&TWIRE	80MM RED						
XXX	BI11TT80H2	T&TWIRE	80MM RED						
IC1	TA2104BN	IC	BI105092						
IC2	TC9257P	IC	BI114251						
Q1	KTC3194	TRANSISTOR	BI2KTC3194P0008						
Q2	KTC3195	TRANSISTOR	BI2KTC3195YP000						
Q3	DTA114YS	TRANSISTOR	BI2DTA114YSP002						
Q4	DTC114YS	TRANSISTOR	BI2DTC114YSP002						
Q5	DTC114YS	TRANSISTOR	BI2DTC114YSP002						
Q6	DTC114YS	TRANSISTOR	BI2DTC114YSP002						
Q7	KTC3199GR	TRANSISTOR	BI2KTC3199GP000						
Q8	KTC3199GR	TRANSISTOR	BI2KTC3199GP000						
Q9	KTC3199GR	TRANSISTOR	BI2KTC3199GP000						
Q10	KTA1267GR	TRANSISTOR	BI2KTA1267GP000						
Q11	DTC114YS	TRANSISTOR	BI2DTC114YSP002						
D1	1SS133	FR DIODE	BI31SS133M0007						
D2	1SS133	FR DIODE	BI31SS133M0007						
D3	1SS133	FR DIODE	BI31SS133M0007						
D4	1SS133	FR DIODE	BI31SS133M0007						
D5	1SS133	FR DIODE	BI31SS133M0007						
D6	1SS133	FR DIODE	BI31SS133M0007						
D7	BI3SVC203SPP000	VARACTOR DIODE	12.7MM						
D8	BI3SVC203SPP000	VARACTOR DIODE	12.7MM						
D10	1SS133	FR DIODE	BI31SS133M0007						
△ R74	BIRF3300045M000	FUSI RESISTOR	330OHM J 1/4W						
L1	BI26022000KM002	FIXED INDUCTOR	2.2UH /26MM						
L2	BI605081	AM PACK COIL	0469-001						
L3	BI7A0170	FM COIL	0.6MM						
L4	BI7A0171	FM COIL	0.4MM						
L5	BI26101000KM002	FIXED INDUCTOR	100UH/ 26MM						
L6	BI26101000KM002	FIXED INDUCTOR	100UH/ 26MM						
L50	BI26221000KM002	FIXED INDUCTOR	220UH /26MM						
T1	BI2901541	CF&COIL	450KHZ						
CF1	BI29LT10.7MP015	CERAMIC	10.7MHZ						
CF2	BI29LT10.7MP015	CERAMIC	10.7MHZ						
CF3	BI2901221	CERAMIC	10.7 MHZ						
JA302	BI23F0101	TERMINAL ANT 4P	4P						
LC1	BI29GFMB3TP0151	BAND PASS	108MHZ						
N202A	BI12S100034	CONNECTOR	10P/P1.25MM						
PWB	BI251174G01V	TUNER PWB							
X1	BI2102341	CRYSTAL	7.2MHZ						
XXX	BI202304010101	HLDR-TUNNER	0.5MM						
Front board									
Block No. [0][3][0][0]									
△ Symbol No.	Part No.	Part Name	Description	Local					
IC701	TMP87CM78	IC	BI114261						
IC702	RPM6938-V4	RM.RECEIVER	BI105231						
IC703	S-80819	IC	BI114351						

Symbol No.	Part No.	Part Name	Description	Local
Q701	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q702	KRA107M	DIGI TRANSISTOR	BI2KRA107MP0008	
Q703	KRA107M	DIGI TRANSISTOR	BI2KRA107MP0008	
Q704	KTC3195Y	TRANSISTOR	BI2KTC3195YP000	
Q705	KTC3195Y	TRANSISTOR	BI2KTC3195YP000	
Q706	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q707	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q708	DTA114TS	DIGI TRANSISTOR	BI2DTA114TSP002	
D701	1SS133	FR DIODE	BI31SS133M0007	
D702	1SS133	FR DIODE	BI31SS133M0007	
D703	1SS133	FR DIODE	BI31SS133M0007	
D704	1SS133	FR DIODE	BI31SS133M0007	
D705	1SS133	FR DIODE	BI31SS133M0007	
VR840	BI1502031	VR RTRY	10K	
L701	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L702	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L703	BI18A843556N000	FILTER BEAD	843556	
L801	BI26033000KM002	FIXED INDUCTOR	3.3UH/26MM	
CN701	BI12S110021	CONNECTOR	11P	
CN702	BI12S130030	CONNECTOR	13P	
CN703	BI12S140018	CONNECTOR	14P	
CN704	BI12S1800071	CONNECTOR	18PINS	
FL701	BI2701601	FL DISPLAY	BJ828GNK	
FW701	BI1204781	FLAT CABLE	9 PINS	
FW702	BI1203941	FLAT CABLE	3PINS	
FW703	BI1203931	CONN. WIRE	3PIN	
J850	BI23B0112	MIC JACK	MSJ-2000	
LED1	BI28B4531EP0110	RED LED	B4531E	
MIC	BI12P40238	CONNECTOR	4PINS	
PA701	BIRC4730165A005	MG RESISTOR	47K	
PWB	BI251173G01V	FRONT PWB		
S1001	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1002	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1003	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1004	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1005	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1006	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1007	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1008	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1009	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1010	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1011	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1012	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1013	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1014	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1015	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1016	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1017	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1018	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1019	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1020	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1021	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1022	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1023	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1024	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1025	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1026	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1027	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1028	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1029	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1030	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1031	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1032	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
S1033	BI8EVQ21405P015	TOUCH SWITCH	EVQ 214 05R	
W1001	BI804221	SW RTRY	REB161	
X701	BI29ZTA8.0MP015	CER. RESONATOR	ZTA8.0 MT-TF21	
X702	BI2101012	CRYSTAL	32.768 KHZ	
XXX	BI202103010101	HLDR SENSER	SENSOR	
XXX	BI202267010101	BRACKET HLDR-V	CHANGE HUA	

Symbol No.	Part No.	Part Name	Description	Local
XXX	BI11AT270B0	BLACK WIRE	270MM	

VCD board

Block No. [0][4][0][0]

Symbol No.	Part No.	Part Name	Description	Local
Q1101	KTA1504Y	TRANSISTOR	BI2KTA1504YA000	
D1101	IN4001	DI	BI31N40011	
D1103	1SS133	FR DIODE	BI31SS133M0007	
D1104	1SS133	FR DIODE	BI31SS133M0007	
D1107	1SS133	FR DIODE	BI31SS133M0007	
C1101	ES3880	IC	BI114011	
C1102	ES3883	IC	BI114231	
C1103	M11B416256A-35J	DRAM IC	BI114241	
C1104	MX27C2000APC-90	IC	BI114201	
C1106	AS1117M3-3.3	IC	BI111791	
L1101	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L1102	BI18A843556N000	FILTER BEAD	843556	
L1103	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L1106	BI26027000KM002	FIXED INDUCTOR	2.7UH/26MM	
L1108	BI26033000KM002	FIXED INDUCTOR	3.3UH	
L1109	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L1110	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L1111	BI26018000KM002	FIXED INDUCTOR	1.8UH/26MM	
L1113	BI26010000KM002	FIXED INDUCTOR	1 UH/26MM	
L1114	BI26100000KM008	FIXED INDUCTOR	10UH	
L1115	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L1115	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
J1101	BI23B1001	KACL RCA	1PIN	
K1112	BI18A843556N000	FILTER BEAD	843556	
K1116	BI18A843556N000	FILTER BEAD	843556	
N1101	BI12S250002	CONNECTOR	25P/1.0MM	
PWB	BI251176G01V	VCD PWB	4 IN ONE	
W1101	BI5283A	TIN COATED	0.6MM	
W1103	BI5283A	TIN COATED	0.6MM	
W1104	BI5283A	TIN COATED	0.6MM	
X1101	BI2102401	CRYSTAL	COMMUTER	
XXX	BI202454010101	GRD VIDEO	SPT E T=0.5MM	
XXX	BI11AT370B9	BLACK WIRE	WITH 1.3MM	

CD board

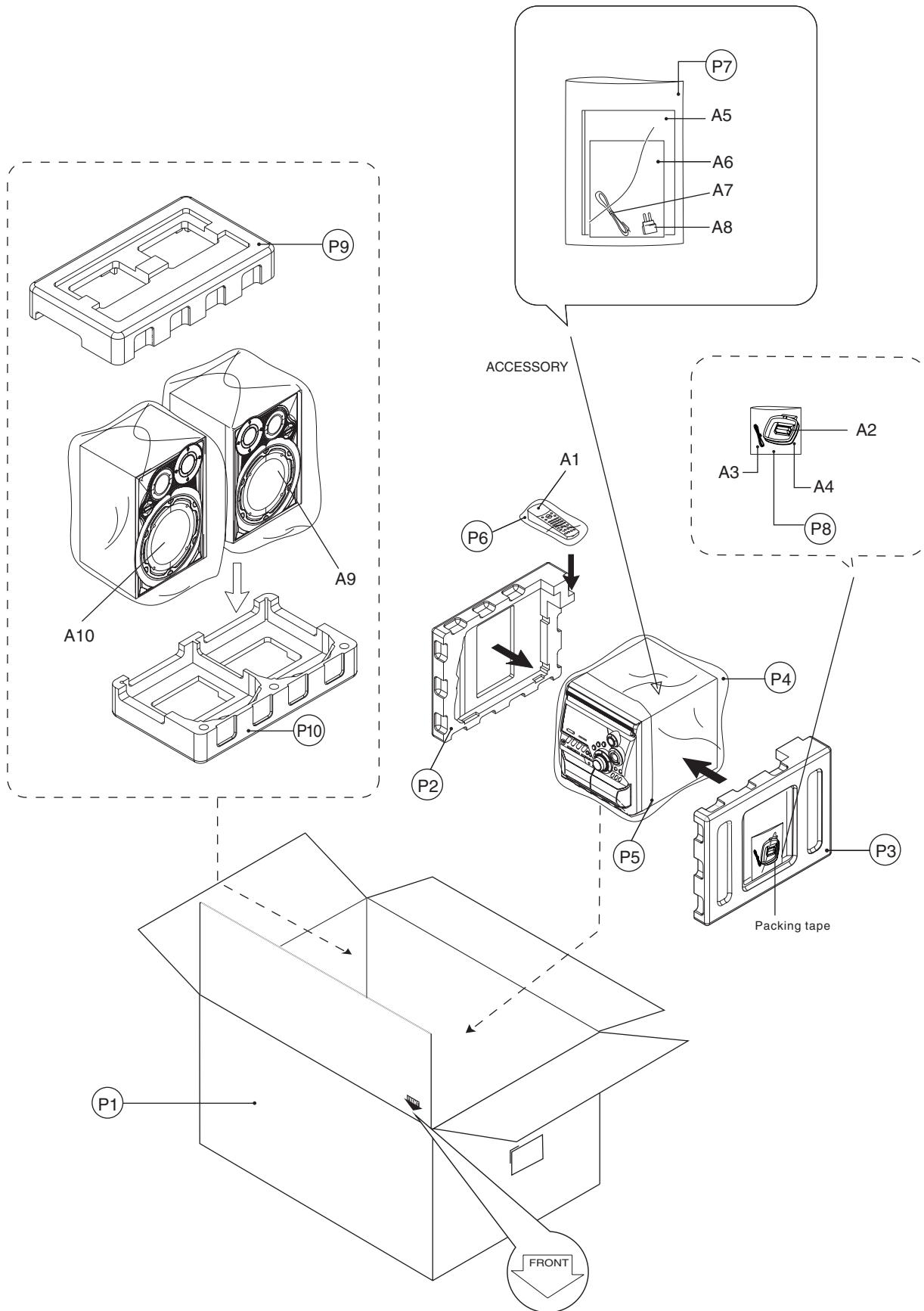
Block No. [0][5][0][0]

Symbol No.	Part No.	Part Name	Description	Local
IC601	TA2153EN	IC	BI114181	
IC602	TC9462F	IC	BI114191	
IC603	TA2092N	IC	BI103681	
IC604	TA7291S	IC	BI105741	
IC605	TA7291S	IC	BI105741	
Q601	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q602	DKTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q603	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q604	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q605	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
D601	1SS133	FR DIODE	BI31SS133M0007	
D602	IN4001	DI	BI31N40011	
D603	IN4001	DI	BI31N40011	
D604	IN4001	DI	BI31N40011	
D605	1SS133	FR DIODE	BI31SS133M0007	

△ Symbol No.	Part No.	Part Name	Description	Local
D607	1SS133	FR DIODE	BI31SS133M0007	
D609	IN4001	DI	BI31N40011	
L601	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
L602	BI26100000KN008	FIXED INDUCTOR	10UH4+/-10	
L603	BI26100000KM002	FIXED INDUCTOR	10UH/26MM	
CN601	BI12S160031	CONNECTOR	16P/1.0MM	
CN602	BI23S600961	CONNECTOR	6P/PITCH2.0MM	
CN603	BI12S30030	CONNECTOR	3P	
CN604	BI23S600961	CONNECTOR	6P/PITCH2.0MM	
CN605	BI23S600961	CONNECTOR	6P/PITCH2.0MM	
CN606	BI12S250001	CONNECTOR	25P/1.0MM	
CN607	BI12S800421	FFC CONNECTOR	P=25MM	
CN608	BI12S1800061	CONNECTOR	18PINS/1.25MM	
FB601	BI18A843556N000	FILTER BEAD	843556	
FB602	BI18A843556N000	FILTER BEAD	843556	
FB603	BI18A843556N000	FILTER BEAD	843556	
FB605	BI18A843556N000	FILTER BEAD	843556	
PWB	BI251175G01V	CD PWB		
X601	BI2102361	CRYSTAL	16.9344MHZ	

Packing materials and accessories parts list

Block No. **M** **3** **M** **M**



Packing and accessories

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

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	BI600GA3V080	REMOTE CONTROL		
A 2	-----	BATTERY	(x2)	
A 3	BIAN01012	ANT WIRE		
A 4	BIAN01031	AM LOOP ANT		
A 5	BI4412151U	INSTRUCTIONS	US 001A	LVT1078-
A 5	BI4412641U	INSTRUCTIONS	UX 002A	LVT1078-
A 6	BI4033111	CAUTION SHEET		
A 7	BI11F2000SA01	VIDEO LINER CAR		
△ A 8	BI23A0094	PLUG CONVERSION	US	
△ A 8	BI23A0261	PLUG CONVERSION	UX	
A 9	MXGA3V-SPBOX-L	SPEAKER BOX L		
A 10	MXGA3V-SPBOX-R	SPEAKER BOX R		
P 1	BI4313441U	CARTON BOX		
P 2	BI4511363	POLY FORM	LEFT	
P 3	BI4511373	POLY FORM	RIGHT(x)	
P 4	BI4710321	POLY BAG	SET	
P 5	BI4511451	SH FOAMED-MAT		
P 6	BI4005355	BAG PV	REMOTE CONTROL	
P 7	BI4710311	POLY BAG	INSTRUCTIONS	
P 8	BI4710511	POLY BAG	ANT LOOP	
P 9	BI4512331	POLY FORM	TOP	
P 10	BI4512341	POLY FORM	BOTTOM	