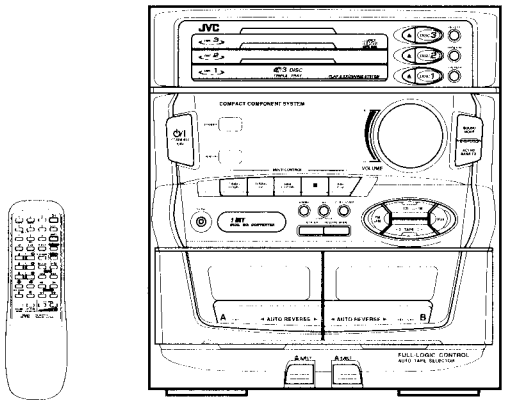
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-D451TR B/E/EN/G/VX



COMPACT disc DIGITAL AUDIO

This Service manual have not "Instructions "," Location of main Parts "," Out line of Main IC "." Analytic Drawing for CD traverse mechanism and Cassette mechanism etc. ", " Block Diagram " and so on.These items should be used in conjunction with service manual for MX-D551TR all version (Issue No.10056).

Area Suffix

B .....U.K.
E .....Continental Europe
EN .....North Europe
G .....Germany
VX .....Eastern Europe

Contents

No.10057
August 1997

1.Safety Precautions

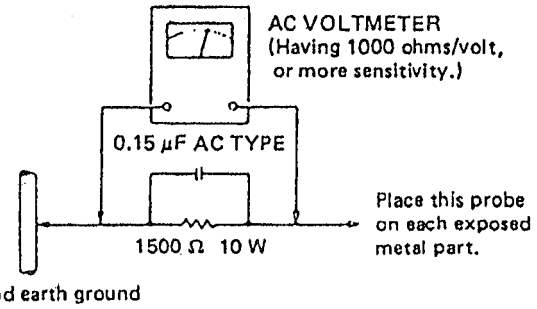
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service 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 manufacture'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 product 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 (⚠)on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part 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, mpving 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 reassembling.
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 part of the cabinet, particulary any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 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 ohms 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. Any voltage measured



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 maintaintaind.
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.

⚠ **CAUTION**

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

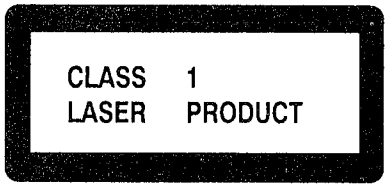
2.Safety Precaution about MX-D451TR

IMPORTANT FOR LASER PRODUCTS
PRECAUTIONS

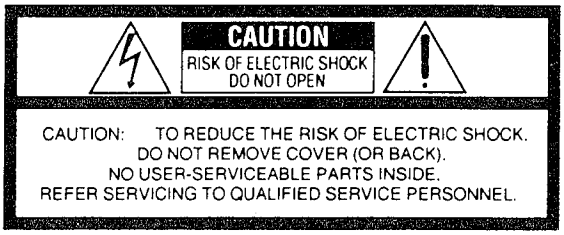
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IMPORTANT FOR LASER PRODUCTS
REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE



② WARNING LABEL, PLACED INSIDE THE UNIT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

3.Instructions

Refer to Service manual for MX-D551TR B/E/EN/G (Issue No.10056).

4.Location of Main Parts

Refer to Service manual for MX-D551TR B/E/EN/G (Issue No.10056).

5.Removal of Main Parts

Removal of the Metal Cover (See Figs. 5-1,5-2)

1. Remove the six screws ① fastening the metal cover to the rear panel of the main unit.(See Fig. 5-1)
2. Remove the two screws ② fastening the metal cover to the side panel of the main unit.(See Fig. 5-1)
3. Spread both sides of the metal cover outward and remove from the back panel by lifting upward.

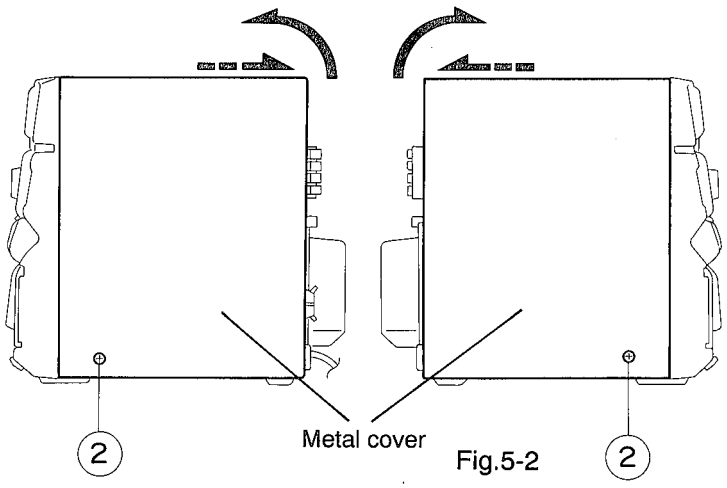


Fig.5-2

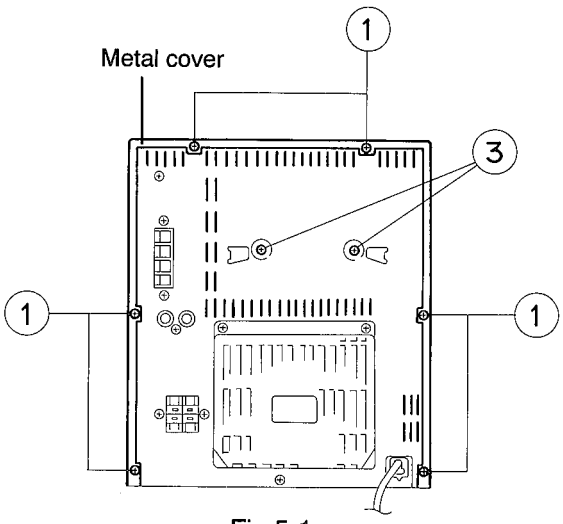


Fig.5-1

Removal of the CD Traverse Mechanism Assembly

(See Figs. 5-1～5-4)

1. Remove the metal cover.
2. Remove the two screws ② fastening the CD traverse mechanism assembly to the rear panel of the main unit. (See Fig. 5-1)
3. Remove the two screws ④ fastening the CD traverse mechanism assembly to the top panel of the main unit. (See Fig. 5-3)
4. Disconnect the card wires connected to the CD traverse mechanism assembly from connectors CN304, CN305 and CN306 on the main amplifier board on the right side of the main unit.(See Fig. 5-3)
5. Remove the plastic rivet ⓐ fastening the main amplifier board and front panel assembly to the left side panel of the main unit.(See Fig. 5-4)
6. Tilt the front panel assembly slightly forward and remove the CD traverse mechanism assembly from the front panel assembly by shifting in the direction of the arrow and lifting upward.(See Fig. 5-3)

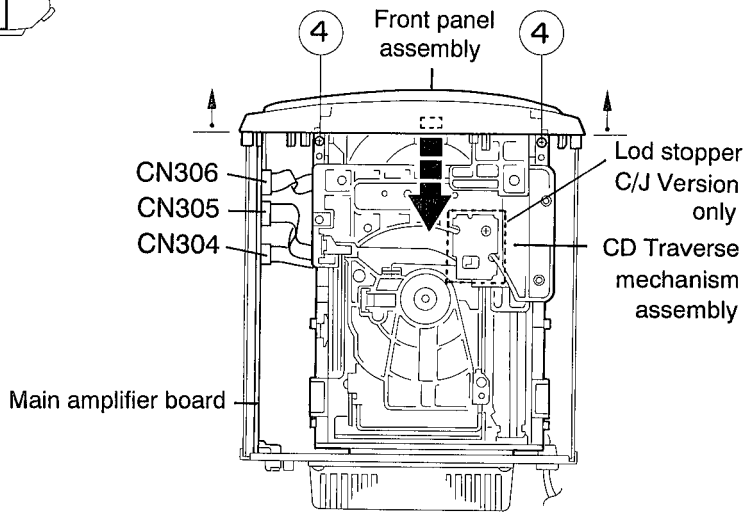


Fig.5-3

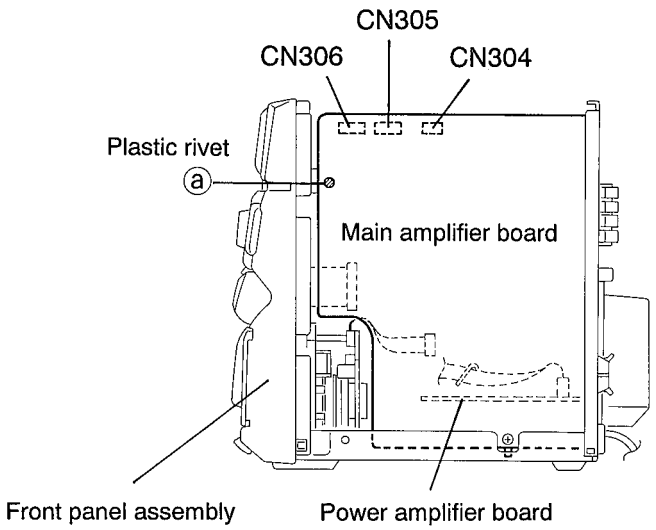


Fig.5-4

■Removal of the Front Panel Assembly

(See Figs. 5-5～5-9)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the four screws ⑤ fastening the front panel assembly to the side of the main unit.(See Fig. 5-5)
4. Use a screwdriver, etc., to disengage clips ⓒ and ⓓ from the side panels of the main unit.(See Figs. 5-6, 5-7)
5. Disconnect the card wires connected to the front panel assembly from connectors CN302 and CN303 on the main amplifier board.(See Fig. 5-8)
6. Remove the wire clamp holding the parallel wires protruding from the front panel assembly and the parallel wires protruding from the power supply board.(See Figs. 5-8, 5-9)
7. Disconnect connector CN904 on the power amplifier board and then disconnect the parallel wires protruding from the front panel assembly.(See Figs. 5-8, 5-9)
8. Remove the front panel assembly.

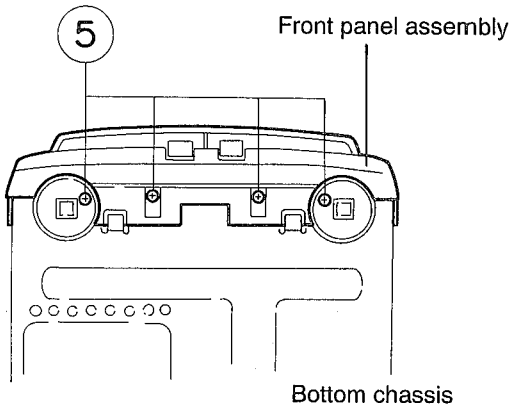


Fig.5-5

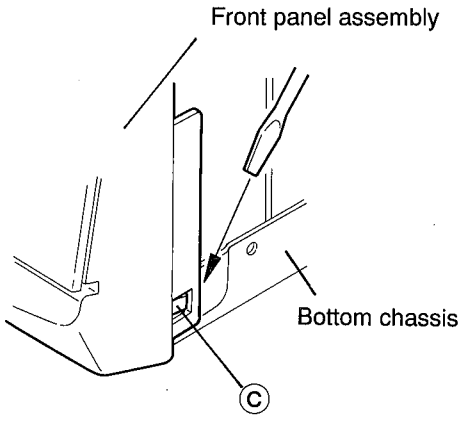


Fig.5-6

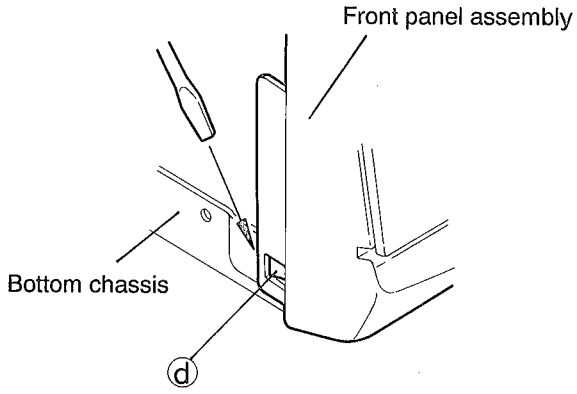


Fig.5-7

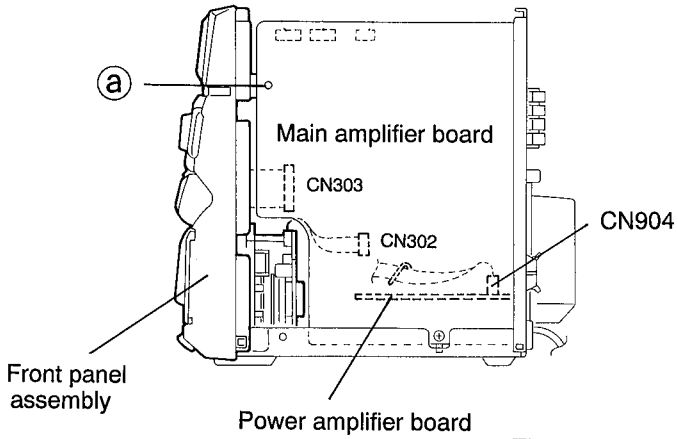


Fig.5-8

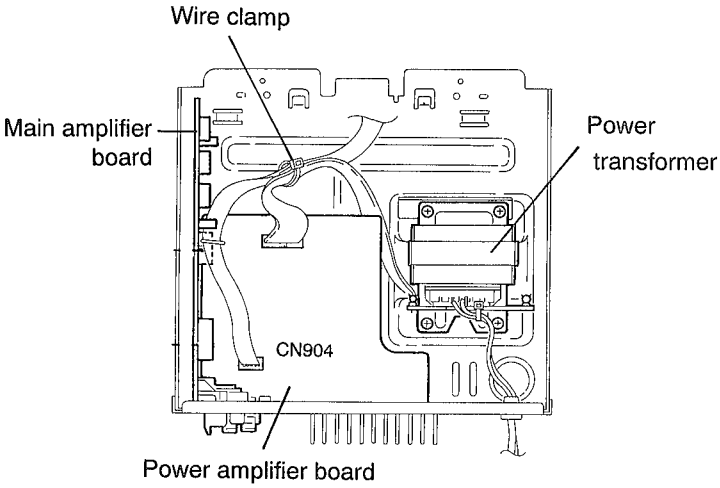


Fig.5-9

■ Removal of the Rear Panel Assembly

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the screw ⑥ fastening the main amplifier board and bottom chassis to the side panels of the main unit. (See Fig. 5-10)
5. Remove the screw ⑦ fastening the rear panel and bottom chassis to the rear panel of the main unit.(See Fig. 5-11)
6. Use a screwdriver, etc., to disengage the two engagements bottom chassis clips ⓔ and ⓕ from the bottom part of the side panels of the rear panel assembly.(See Figs. 5-12, 5-13)
7. Disconnect the parallel wires protruding from the power supply board from connector CN902 of the power amplifier board.(See Fig. 5-14)
8. Remove the rear panel assembly from the bottom chassis by disengaging the protrusion ⓖ of the main amplifier board from the cutout in the bottom chassis.(See Fig. 5-10)

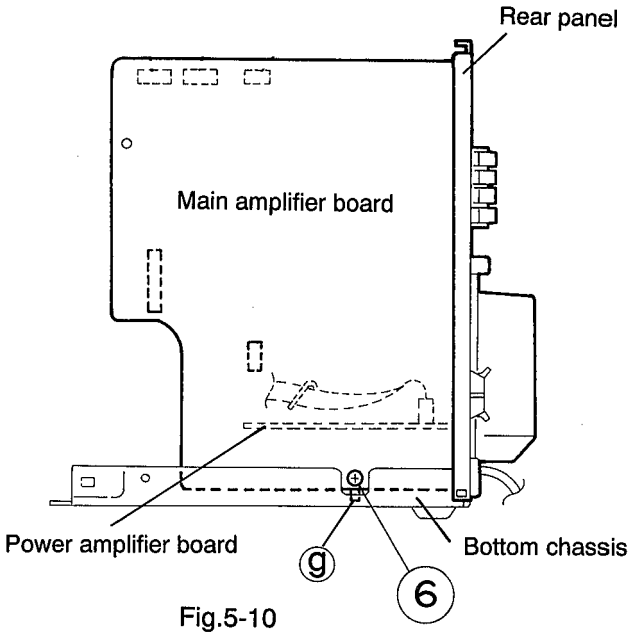


Fig.5-10

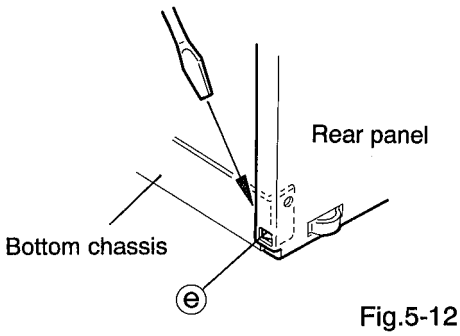


Fig.5-12

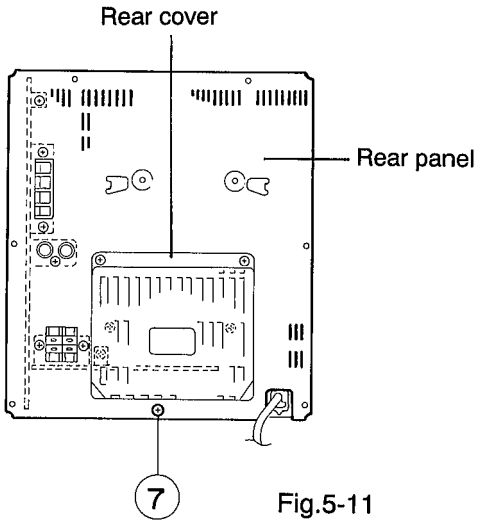


Fig.5-11

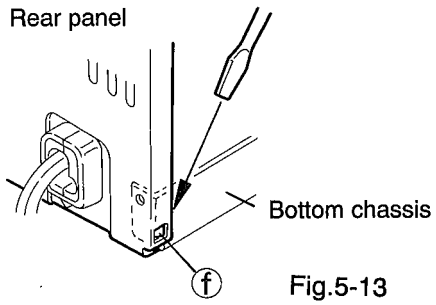


Fig.5-13

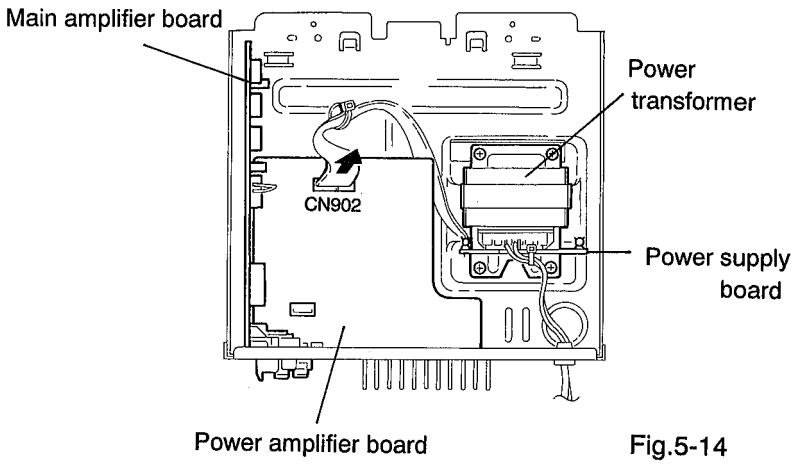


Fig.5-14

■ Removal of the Main Amplifier Board

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the four screws ⑧ fastening the main amplifier board to the rear panel.(See Fig. 5-15)
6. Disconnect the main amplifier board connectors CN307 and CN308 from the power amplifier board.(See Fig. 5-16)

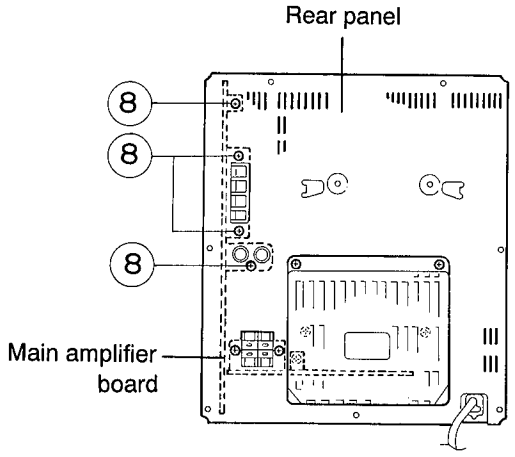


Fig.5-15

■ Removal of the Power Amplifier Board

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the main amplifier board.
6. Remove the two screws ⑨ fastening the rear cover to the rear panel assembly and then remove the rear cover. (See Fig. 5-17)
7. Remove the five screws (⑩ x 3, ⑪ x 2) fastening the power amplifier board to the rear panel assembly.(See Fig. 5-17)
8. Remove the two screws ⑬ fastening the voltage select board to the rear panel assembly. (See Fig. 5-17a For U version only)

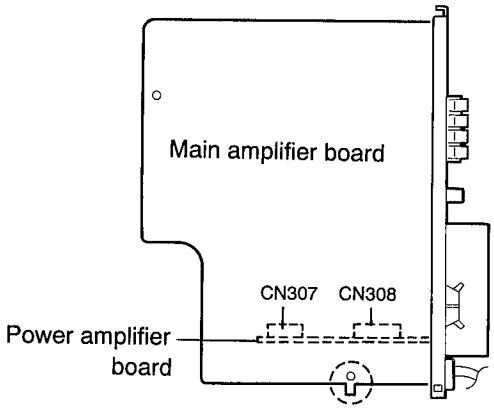


Fig.5-16

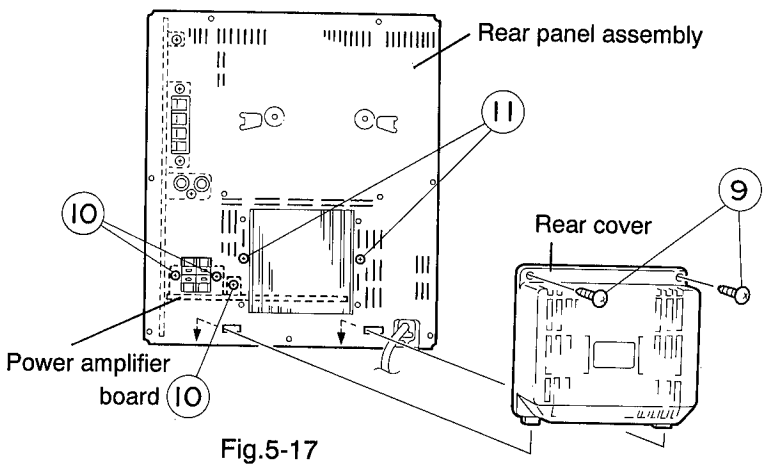


Fig.5-17

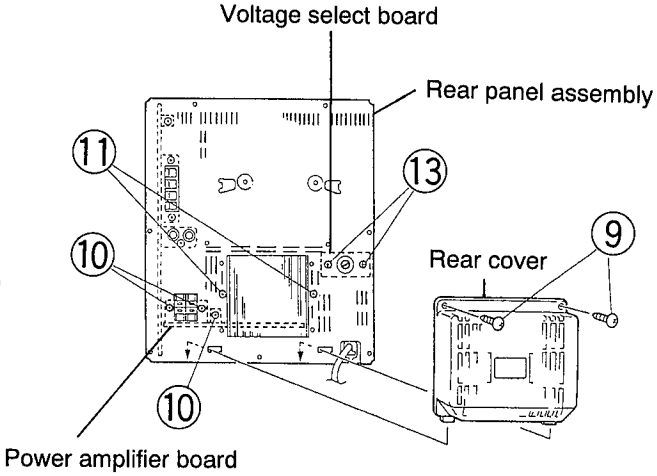


Fig. 5-17a (For U version only)

■ Removal of the Power Transformer

(See Figs. 5-18,5-19)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the main amplifier board.
6. Remove the power amplifier board.
7. Remove the four screws ⑫ fastening the power transformer.
8. Disconnect the power amplifier board connector CN902 and then disconnect the parallel wire.
9. Either unsolder the power cord from the power supply board terminals TB001 and TB002 or remove the cord clamp inserted into the bottom chassis and remove.

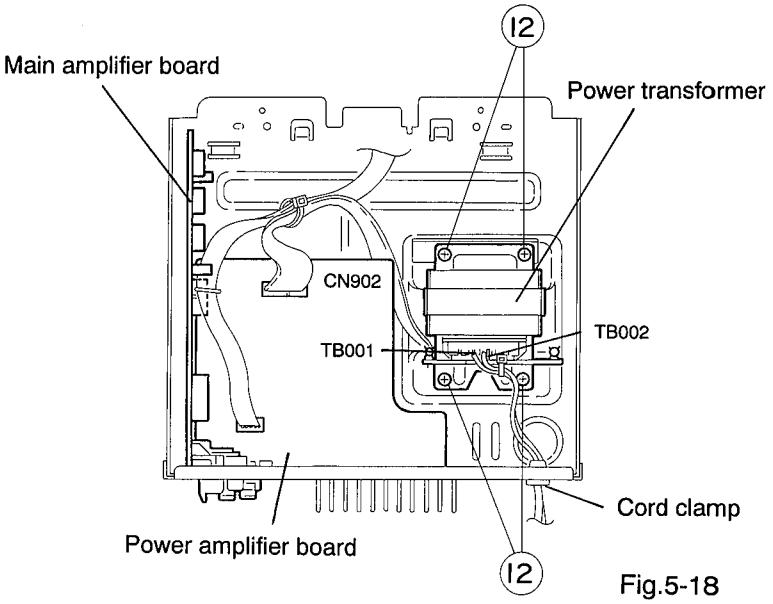


Fig.5-18

■ Removal of the Mic & Echo amplifier board

(See Fig. 5-A For A/U version only)

Remove the screw ⑭ fastening the Mic & Echo amplifier board inside the front panel assembly.

■ Removal of the Headphone & Mic jack board

(See Fig. 5-A)

Remove the two screws ⑮ fastening the headphone & Mic jack board assembly inside the front panel

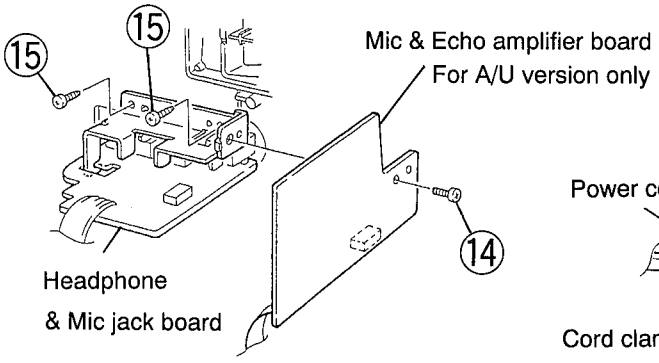


Fig.5-A

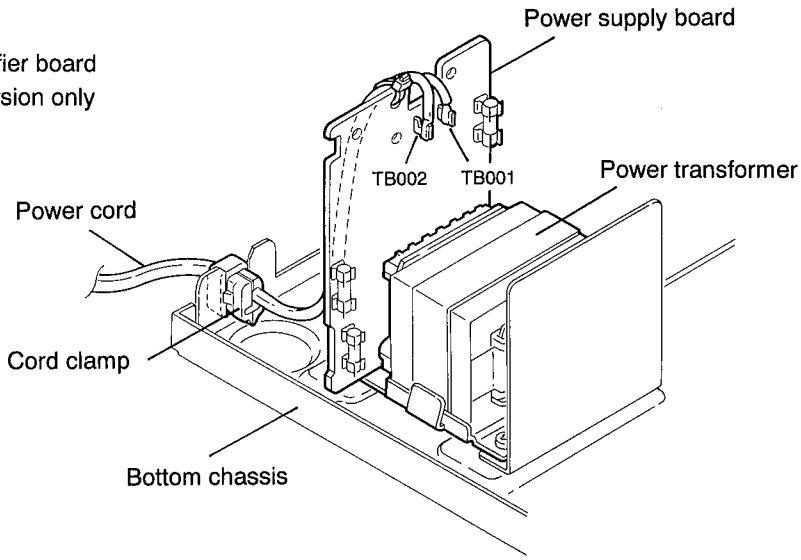


Fig.5-19

《Front Panel Assembly Sections》

■ Removal of the Front Panel

(See Figs. 5-20~5-23)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the volume knob from the front of the front panel assembly.(See Fig. 5-20)
5. Remove the nut fastening the volume control from the front panel assembly.(See Fig. 5-20)
6. Remove the eight screws ① fastening the stay bracket inside the front panel assembly.(See Fig. 5-21)
7. Remove the nine screws ② fastening the system CPU board.(See Fig. 5-22)
8. Disconnect the card wires protruding from connector CN305 on the head amplifier & mechanism control board from connector CN700 on the system CPU board. (See Figs. 5-22,5-23)

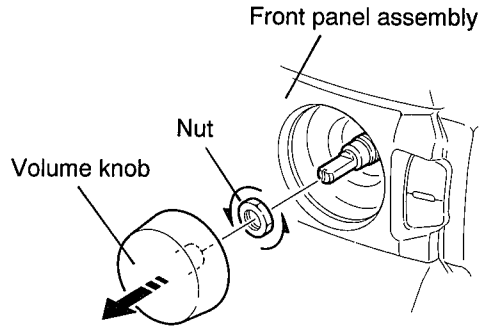


Fig.5-20

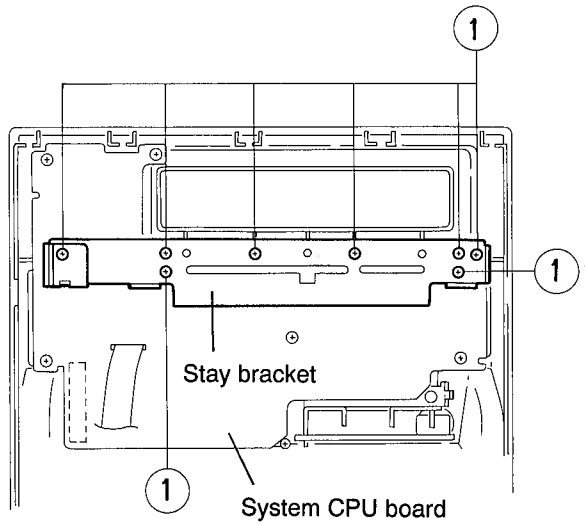


Fig.5-21

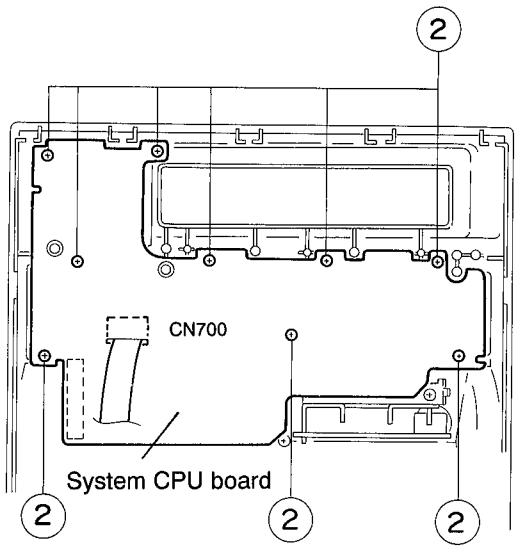


Fig.5-22

■ Removal of the Cassette Mechanism Assembly

(See Fig. 5-23)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the eight screws ③ fastening the cassette mechanism assembly to the inside of the front panel assembly.
5. Disconnect the card wires from connectors CN305 and CN306 on the head amplifier & mechanism control board.

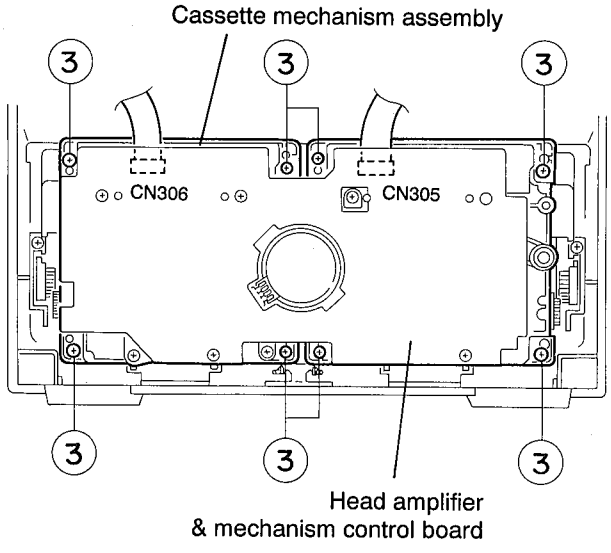


Fig.5-23

《Cassette Mechanism Section》

■ Removing the Playback, Recording and Eraser Heads

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction, turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 5-24).
2. When the flywheel R is rotated in counterclockwise direction, the playback head will be turned in counterclockwise direction from the position in Fig. 5-25 to that in Fig. 5-26.
3. At this position, disconnect the flexible P.C. board (outgoing from the playback head) from the connector CN301 on the head amp. & mechanism control P.C. board.
4. After dismounting the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring ⓐ from behind the playback head.
7. Loosen the reversing azimuth screw retaining the playback head.
8. Take out the playback head from the front of the head mount.
9. The recording and eraser heads should also be removed similarly according to Steps 1~8 above.

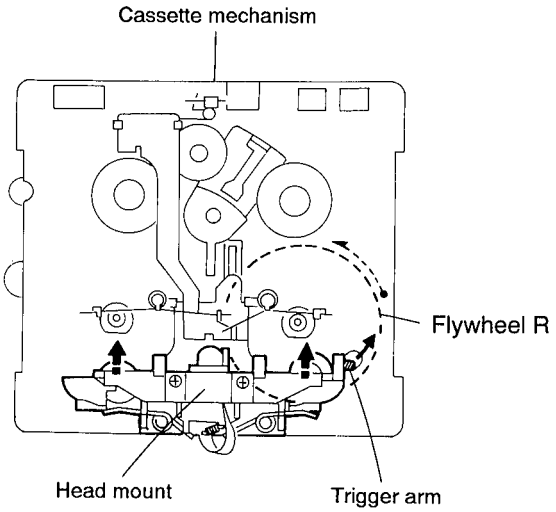


Fig.5-24 (Mechanism A side)

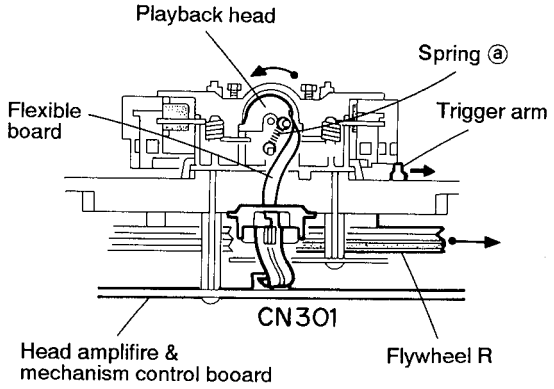


Fig.5-25 (Mechanism A side)

● Reassembling the Playback, Recording and Eraser Heads

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig. 5-26.
2. Fix the reversing azimuth screw.
3. Set the spring ⓐ from behind the playback head.
4. Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig. 5-26.
5. The recording and eraser heads should also be reassembled similarly according to Steps 1~4 above.

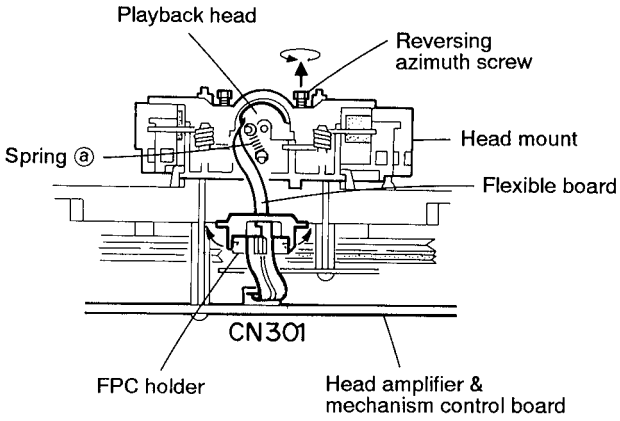


Fig.5-26 (Mechanism B side)

■ Removing the Head Amp. & Mechanism Control P.C. Board (See Fig. 5-27)

1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly, remove the five screws ① retaining the head amp. & mechanism control P.C. board.
3. Disconnect the connectors CN303 and CN304 on the P.C. board and the connectors CN1 on both the right and left side reel pulse P.C. boards.
4. When necessary, remove the 4pin parallel wire soldered to the main motor.

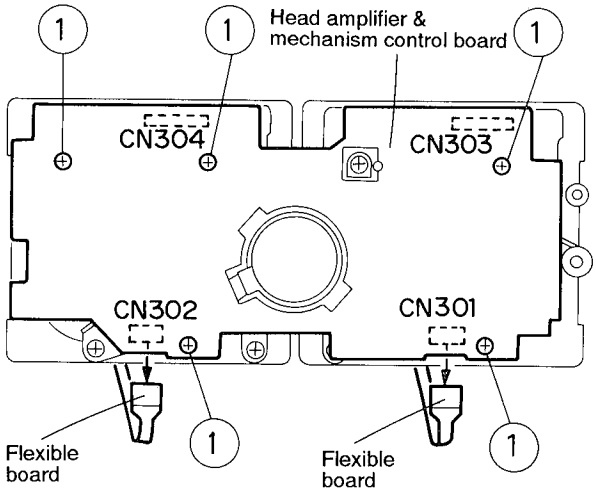


Fig.5-27

■ Removing the Capstan Motor Assembly

1. Remove the six screws ② retaining the capstan motor assembly (See Fig. 5-28).
2. While raising the capstan motor, remove the capstan belts A and B respectively from the motor pulley (See Figs. 5-28,5-29)

Caution 1: Be sure to handle the capstan belts so carefully that these belts will not be stained by grease and other foreign matter. Moreover, these belts should be hanged while referring to the capstan belt hanging method in Fig. 5-29,5-30.

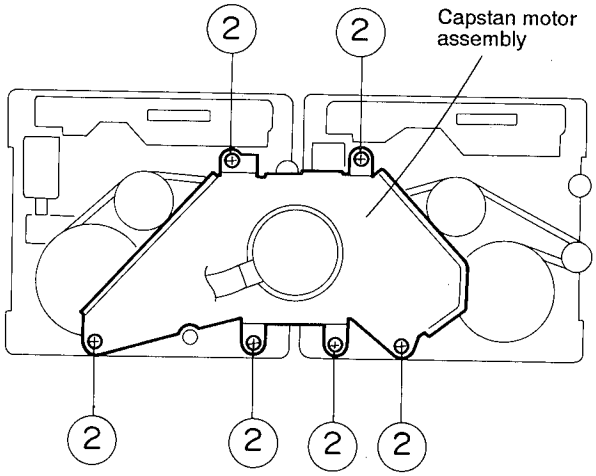


Fig.5-28

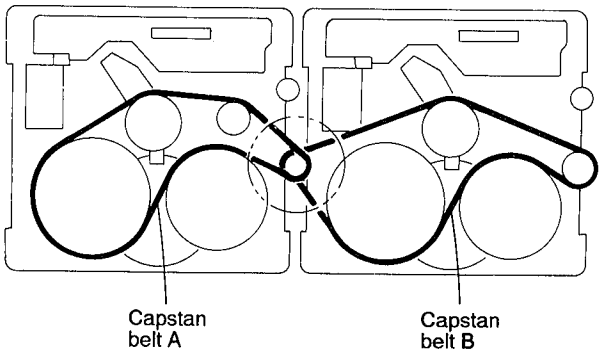


Fig.5-29

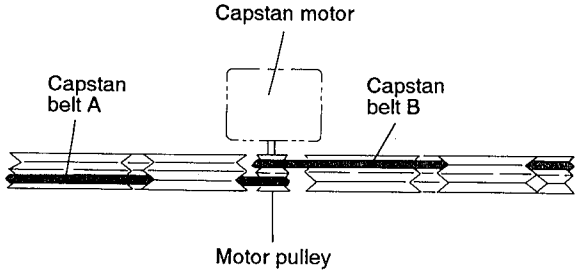


Fig.5-30

Removing the Capstan Motor (See Figs. 5-31)

From the joint bracket, remove the two screws ③ retaining the capstan motor.

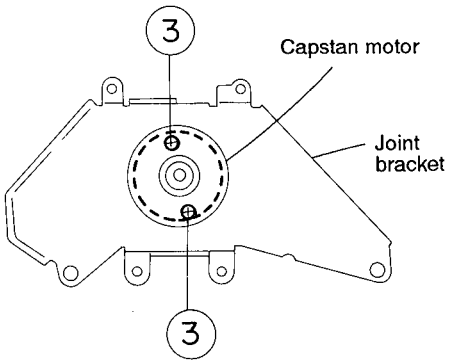


Fig.5-31

Removing the Flywheel (See Figs. 5-32,5-33)

1. Remove the head amp. & mechanism control P.C. board.
2. Remove the capstan motor assembly.
3. After turning over the cassette mechanism, remove the slit washers ⓐ and ⓑ fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

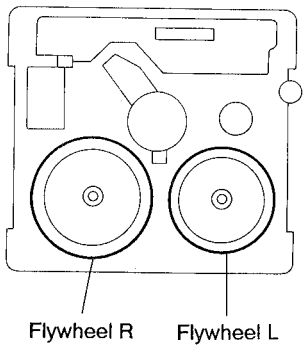


Fig.5-32

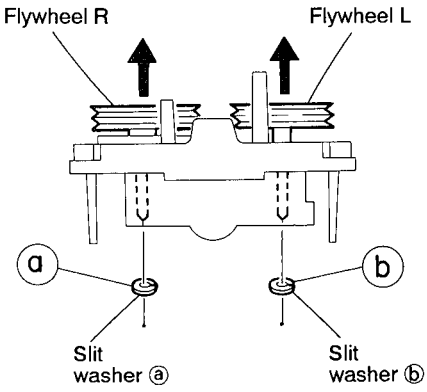


Fig.5-33

Removing the Reel Pulse P.C. Board and Solenoid (See Figs. 5-34)

1. Remove the five pawls (ⓒ, ⓓ, ⓔ, ⓕ and ⓖ) retaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pawls ⓗ and ⓘ retaining the solenoid.

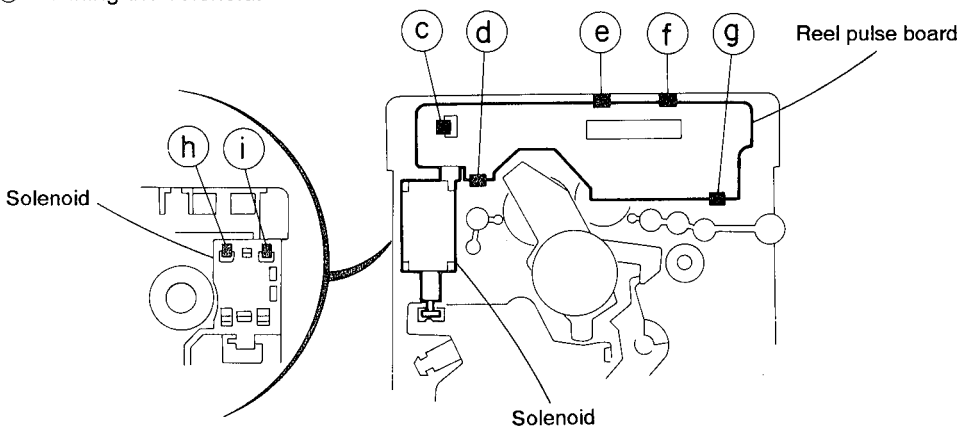


Fig.5-34

《CD Traverse Mechanism Sections》

■ Removing the CD Servo control board (See Fig. 5-35).

1. Remove the Metal cover.
2. Remove the CD Traverse mechanism assembly.
3. From bottom side the CD Traverse mechanism assembly, remove theone screw ① retaining the CD Servo control board.
4. From the connectors CN601, CN603, CN604 on the CD Servo control board, disconnect the card wire, from the connector CN602, disconnect the 6pin connector wire.
5. Disengage the two engagements "A" , remove the CD Servo control board.

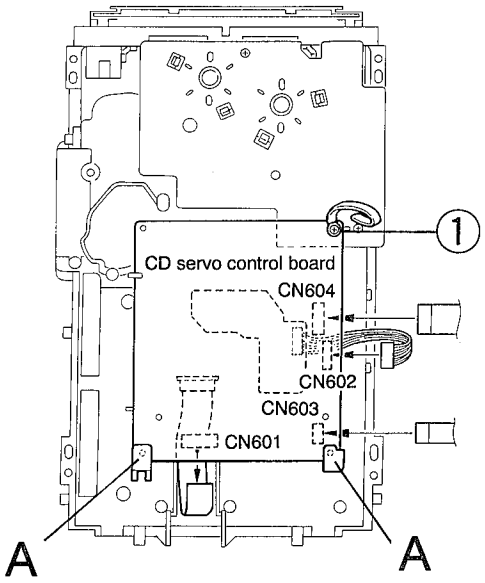


Fig.5-35

■ Removing the CD tray assembly (See Figs. 5-36~5-38)

1. Remove the front panel assembly.
2. Remove the CD Traverse mechanism assembly.
3. Remove the CD Servo control board.
4. From the T. bracket section "B" and clamper base section "C", remove both of the edges fixing the rod (See Figs. 5-36 and 5-37).
5. Remove the screw ② retaining the Disc stopper(See Fig. 5-37).
6. Remove the three screws ③ retaining the T. bracket (See Fig.5-37).
7. Remove the screw ④ retaining the clamper assembly (See Fig. 5-37).
8. From the left side face of the chassis assembly, remove the one screw ⑤ retaining both of the return spring and lock lever. (See Fig. 5-38)
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring (See Fig. 5-38).
10. Remove the three lock levers (See Fig. 5-38).

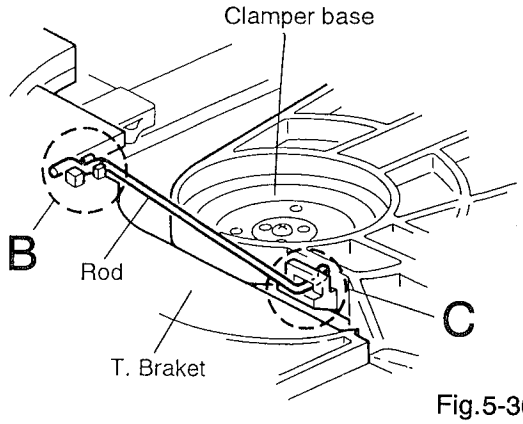


Fig.5-36

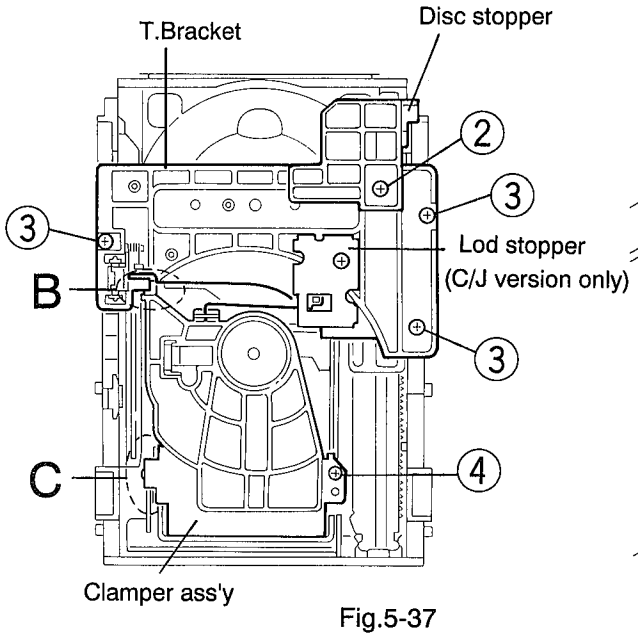


Fig.5-37

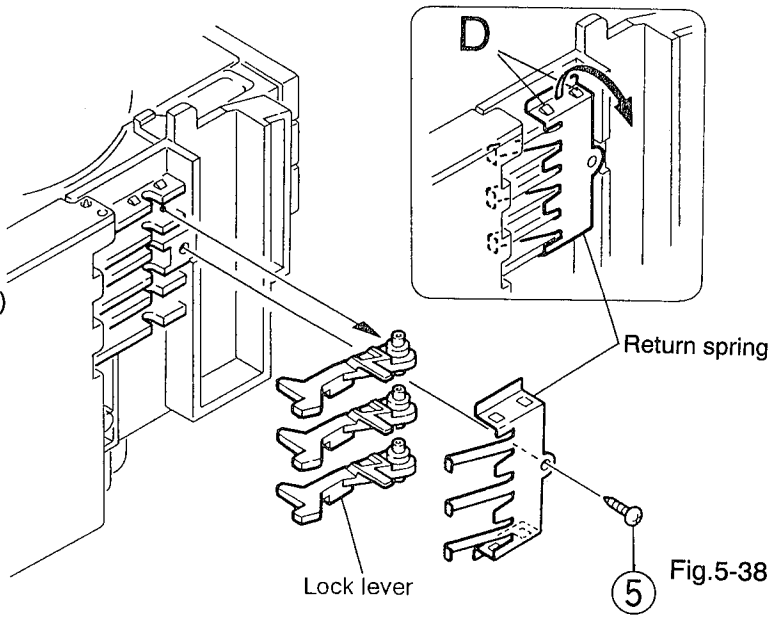


Fig.5-38

11. Check whether the lifter unit stopper has been caught into the hole at the section "E" of CD tray assembly as shown in Fig. 5-39.
12. Make sure that the driver unit elevator is positioned as shown in Fig. 5-40 from to the second or fifth hole on the left side face of the CD Traverse mechanism assembly.

[Caution] In case the driver unit elevator is not at the above position, set the elevator to the position as shown in Fig. 5-41 by manually turning the pulley gear as shown in **Fig. 5-42.**

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section "E" of CD tray assembly **(See Fig.5-42).**
14. Pull out all of the three stages of CD tray assembly in the arrow direction "F" until these stages stop (See Fig. 5-40).
15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls "G and G'" on the back side of CD tray assembly (See Fig. 5-43). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

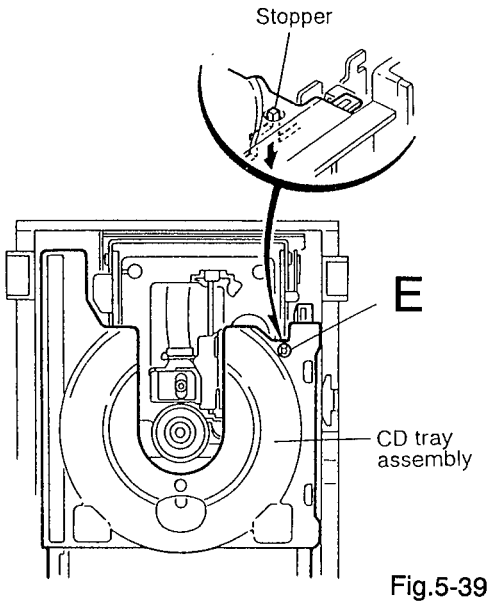


Fig.5-39

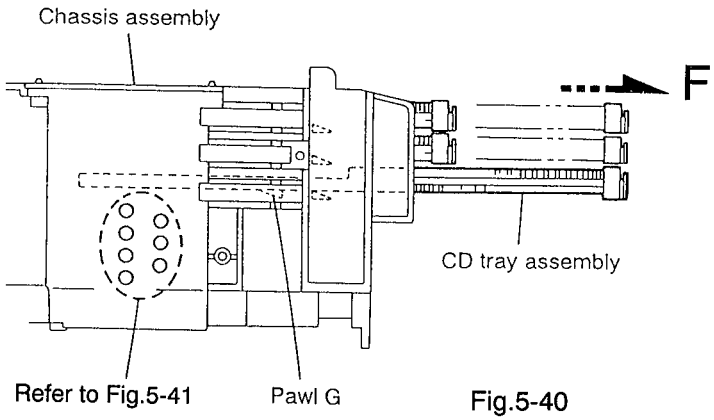


Fig.5-40

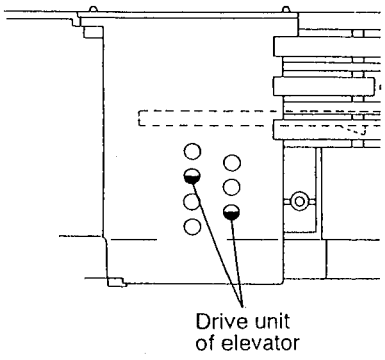


Fig.5-41

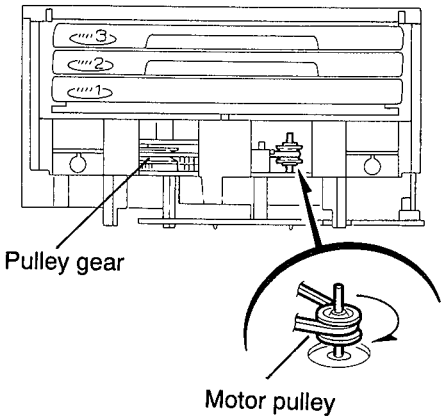


Fig.5-42

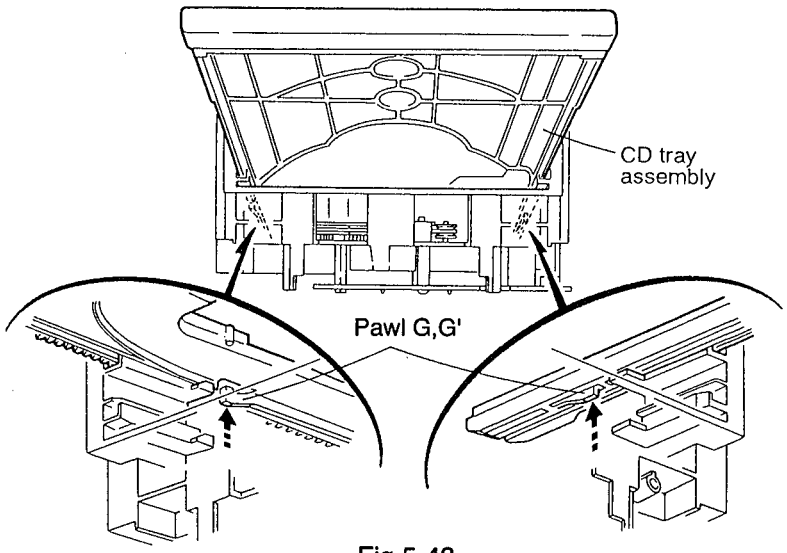


Fig.5-43

■ Removing the CD mechanism assembly (See Fig. 5-44)

1. While turning the cams R1 and R2 assembly in the arrow direction "H", align the shaft "I" of the CD mechanism assembly to the position shown in Fig. 5-44.
2. Remove the four screws ⑥ retaining the CD mechanism assembly (See Fig. 5-44).

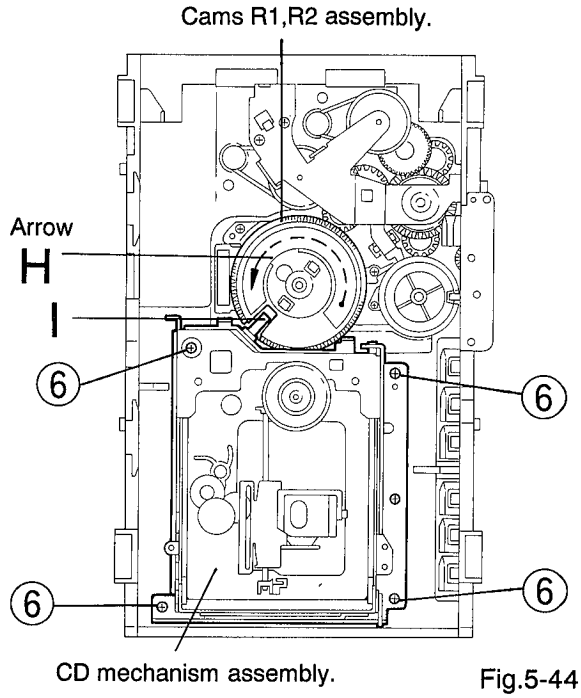


Fig.5-44

■ Removing the CD mechanism (See Figs. 5-45 and 5-46)

1. For dismounting only the CD mechanism without removing the CD mechanism assembly, align the shaft "J" of the CD mechanism assembly to the position shown in Fig. 5-45 while turning the cam R1 and R2 assembly in the arrow direction "K".
2. By raising the CD mechanism assembly in the arrow direction "L", remove the assembly from the lifter unit (Fig. 5-46).

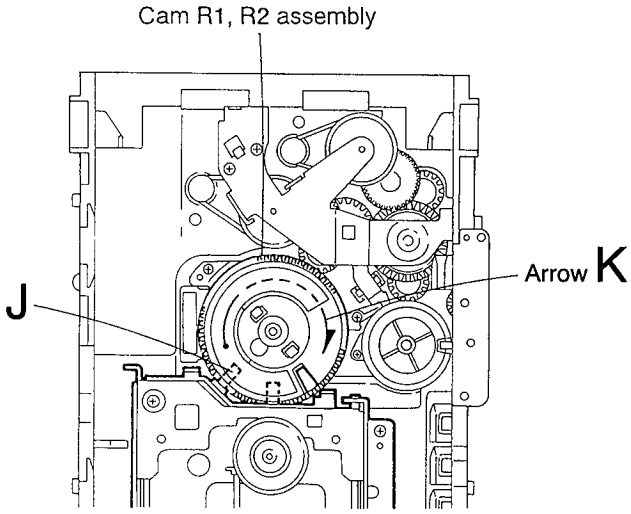


Fig.5-45

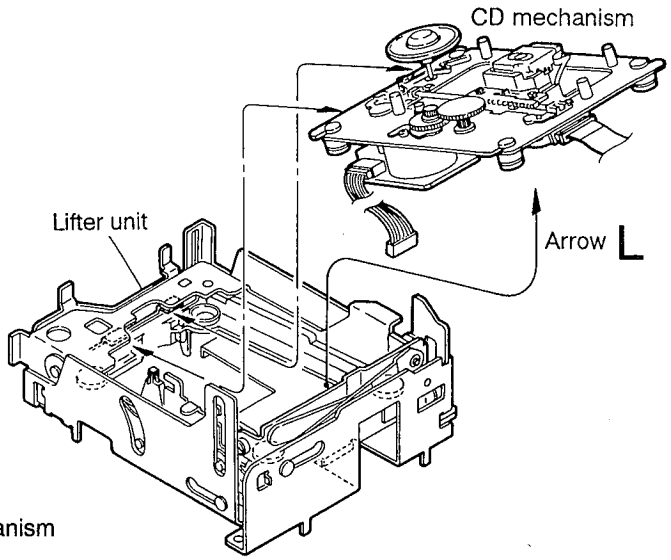


Fig.5-46

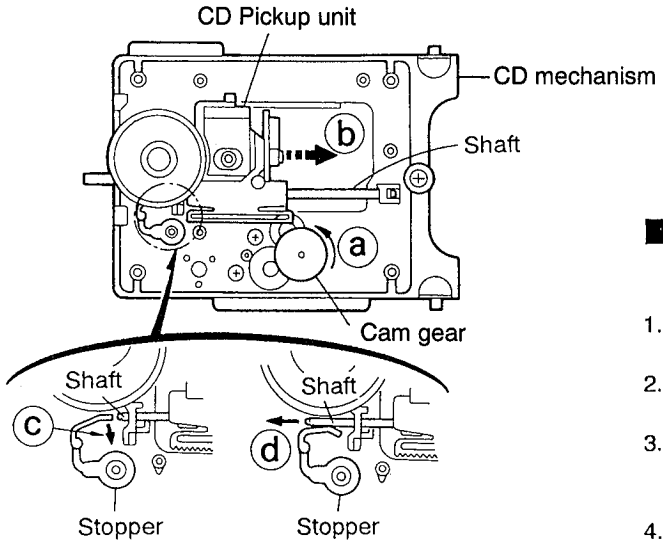


Fig.5-47

■ Removing the CD pickup unit (See Fig.5-47)

1. Move the cam gear in the arrow direction ⓐ. Then, the CD pickup unit will be moved in the arrow direction ⓑ.
2. According to the above step, shift the CD pickup unit to the center positior (See Fig.5-47).
3. While pressing the stopper retaining the shaft in the arrow direction ⓒ, pull out the shaft in the arrow direction ⓓ (See Fig.5-47).
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit.

Removing the actuator motor board

(See Figs. 5-48 and 5-49)

1. Absorb the four soldered positions "M" of the right and left motors with a soldering absorber (See Fig. 5-48).
2. Remove the two screws ⑦ retaining the actuator motor board (See Fig. 5-48).
3. Remove the two screws ⑧ retaining the tray select switch board (See Fig. 5-49).

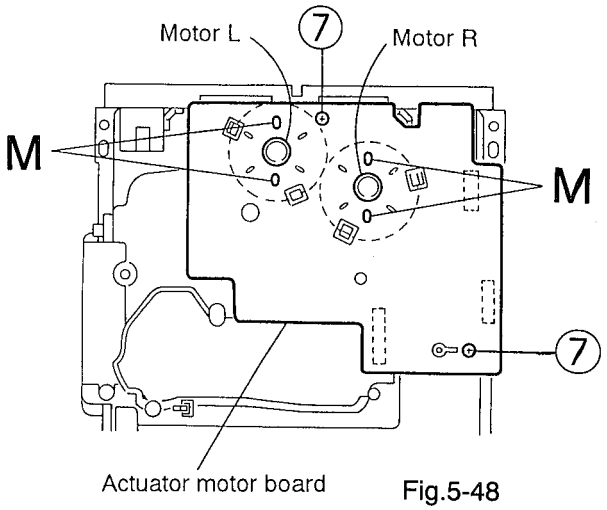


Fig.5-48

Removing the cam unit

(See Figs. 5-50~5-52)

1. Remove the CD mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position (Fig. 5-50) on the cam gear L.
3. Pull out the drive unit and cylinder gear (See Fig. 5-51).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position (Fig. 5-52) on the cam gear L.
5. Remove the four screws ⑨ retaining the cam unit (cam gear L and cams R1/R2 assembly) (See Fig. 5-52).

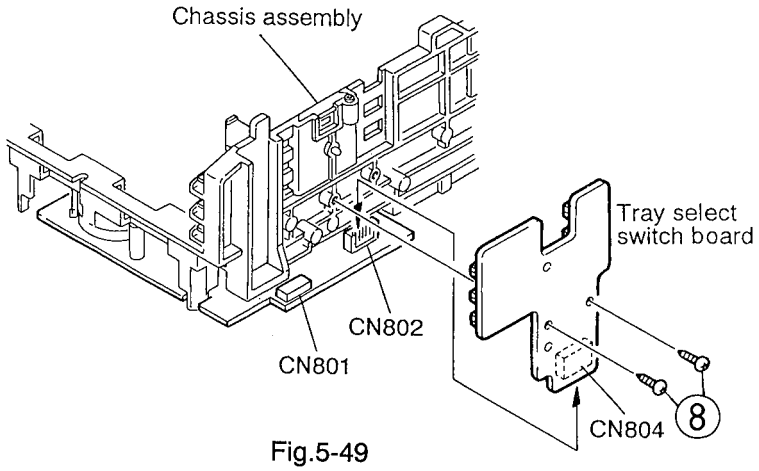


Fig.5-49

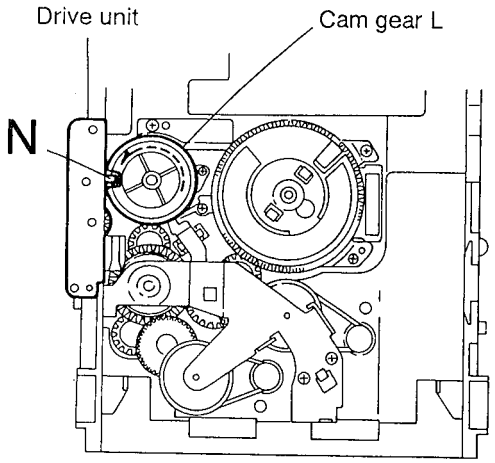
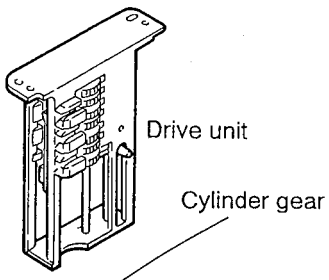


Fig.5-50



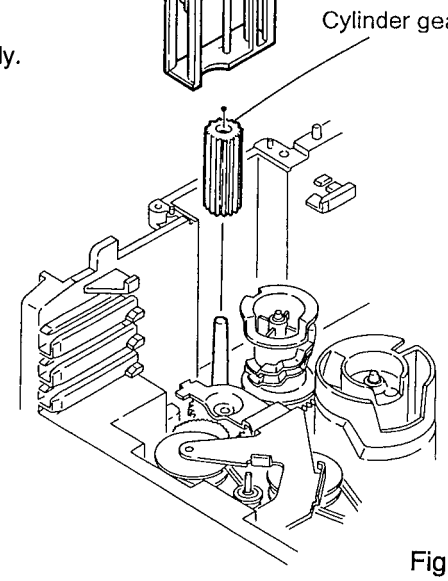


Fig.5-51

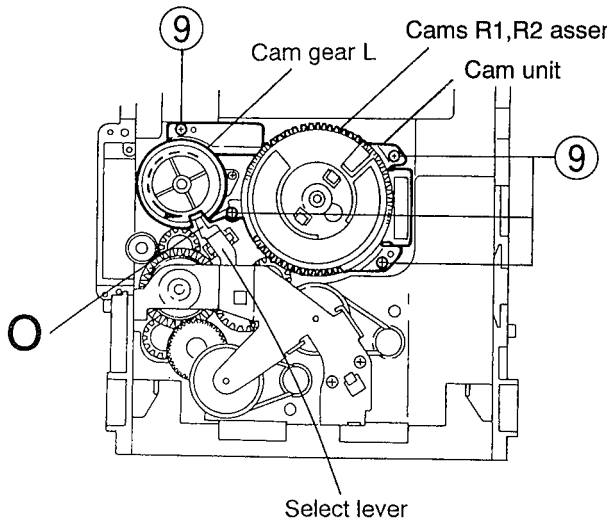


Fig.5-52

■ Removing the actuator motor and belt

(See Figs. 5-53~5-56)

1. Remove the two screws ⑩ retaining the gear bracket (See Fig. 5-53).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig. 5-53).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket (See Fig. 5-54).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears (See Fig. 5-53).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction (See Fig. 5-55).

[Note] When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 5-56.

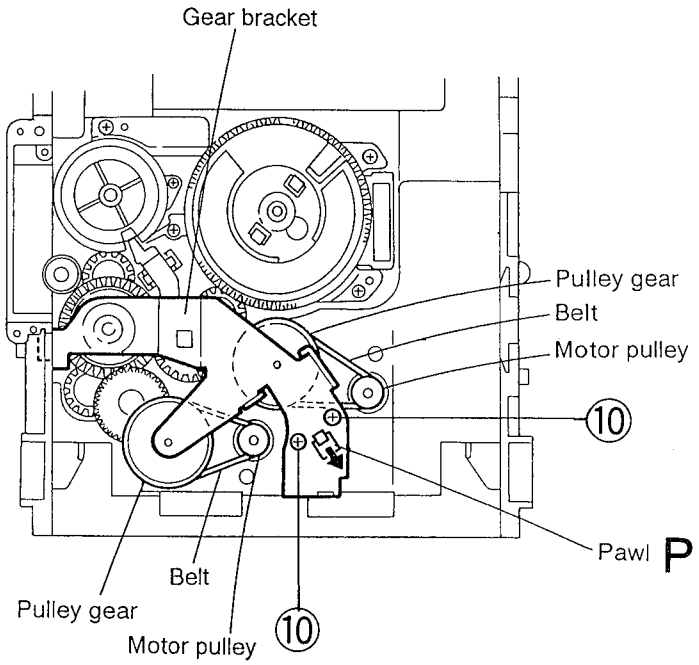


Fig.5-53

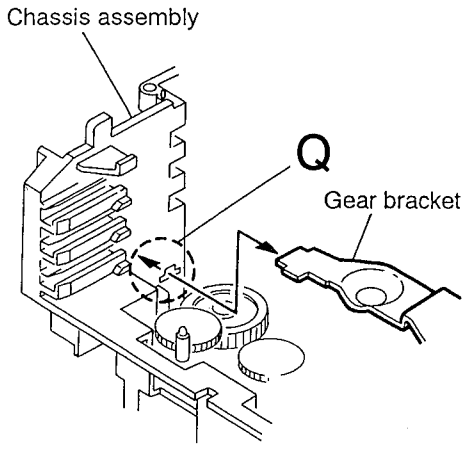


Fig.5-54

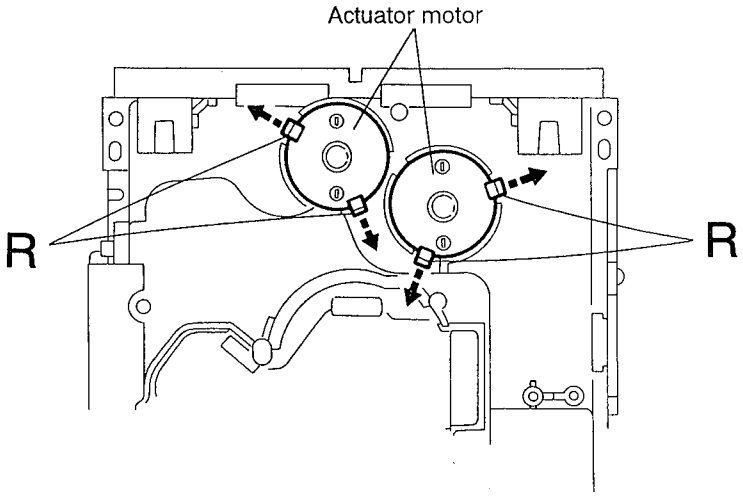


Fig.5-55

Assembly and Configuration Diagram

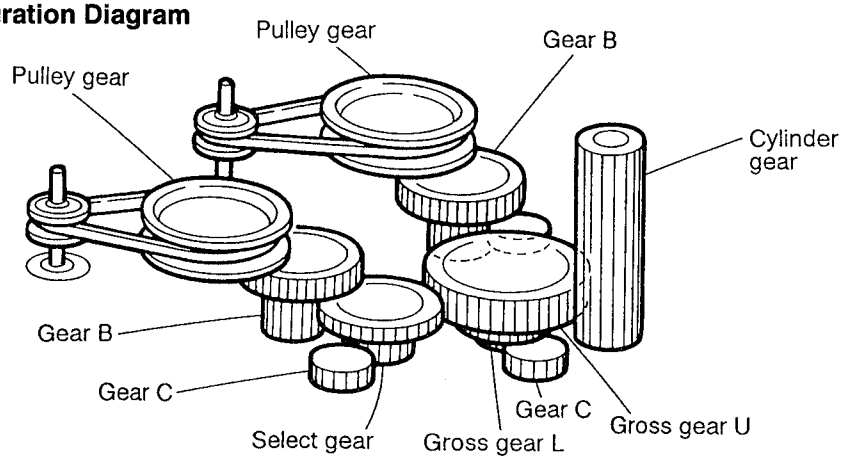


Fig.5-56

■ Removing the cams R1/R2 assembly and cam gear L (See Fig. 5-57)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

■ Removing the C.G. base assembly

(See Figs. 5-57 and 5-58)

Remove the three screws ⑪ retaining the C.G. base assembly.

[Caution] To reassemble the cylinder gear, etc. with the cam unit (cam gear and cams R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that of the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L. **(See Fig.5-58)**

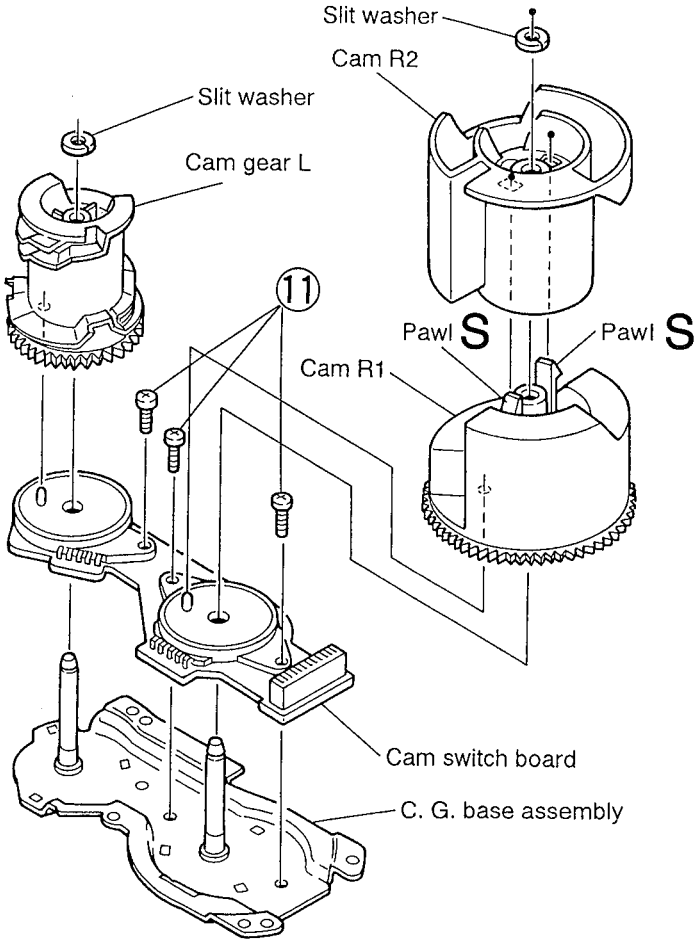


Fig.5-57

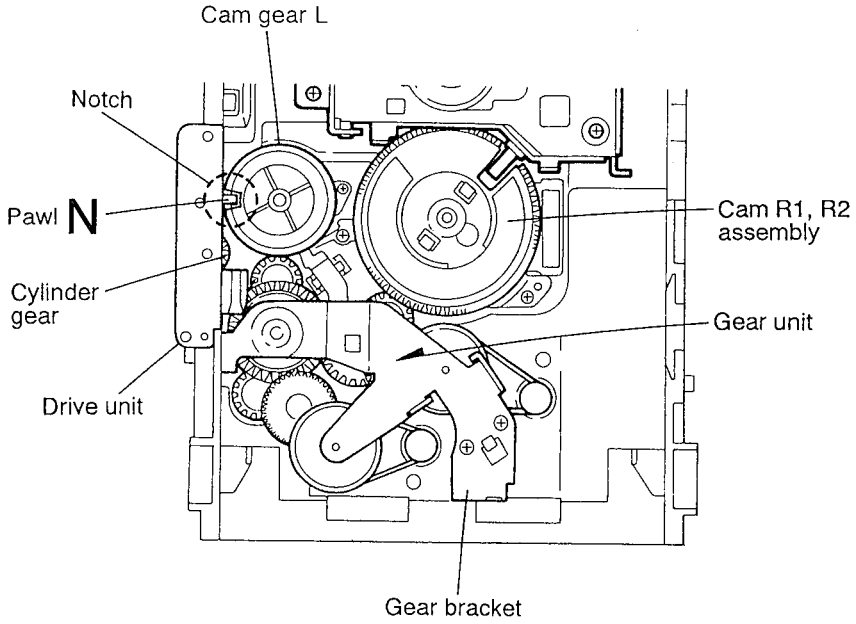


Fig.5-58

6.Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator
   This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz~20kHz.
2. Attenuator impedance: 600 Ω
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow flutter
7. Test tape
   VTT 712: Tape speed and running unevenness (3kHz)
   VTT 724: Reference level (1kHz)
   TMT 7036: Head angle (10kHz), playback frequency characteristics (1kHz) and dubbing frequency characteristics (63, 1 and 10kHz)
   Because of frequency - mixed tape with 63, 1, 10 and 14kHz (250nWb/m - 24dB), use this tape together with a filter.
8. Blank tape
   TAPE Ⅰ: AC-225
   TAPE Ⅱ: AC-514
9. Torque gauge: For play and back tension
   FWD (TW2111A), REV (TW2121A) and
   FF/REW (TW2231A)

■ Measurement Conditions

Power supply voltage.....AC230V(50Hz)
Reference output·····Speaker: 0.775V/3 Ω
Headphone: 0.245V/32 Ω
Reference frequency and input level · 1kHz, AUX: - 8dBs
Input for confirming recording and playback characteristics ·····AUX: - 28dBs
Measurement output terminal·····Speaker CN192
※ Load resistance ·····3 Ω

● Radio input signal

AM modulation frequency ·····400Hz
Modulation factor·····30%
FM modulation frequency ·····400Hz
Frequency displacement·····22.5kHz

● Standard measurement positions of volume

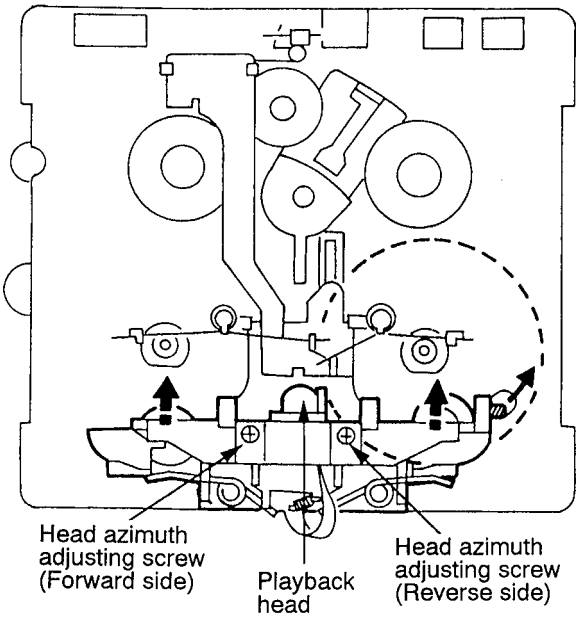
Sound mode ····· Flat position
Super-bas ····· Off
Up and down adjustment of volume·····VOL. 23

Precautions for Measurement

1. Apply 30pF and 33kΩ to the IF sweeper output side and 0.082μF and 100kΩ 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 carefully.
7. In the case of BTL connection amp., 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.
8. For connecting a dummy resistor when measuring the output, use the wire with a greater core size.
9. Whenever any mixed tape is used, use the band pass filter (DV-12).

《Arrangement of Adjusting Positions》

● **Cassette mechanism section (Mechanism A section)**



● **Cassette mechanism section (Back side)**

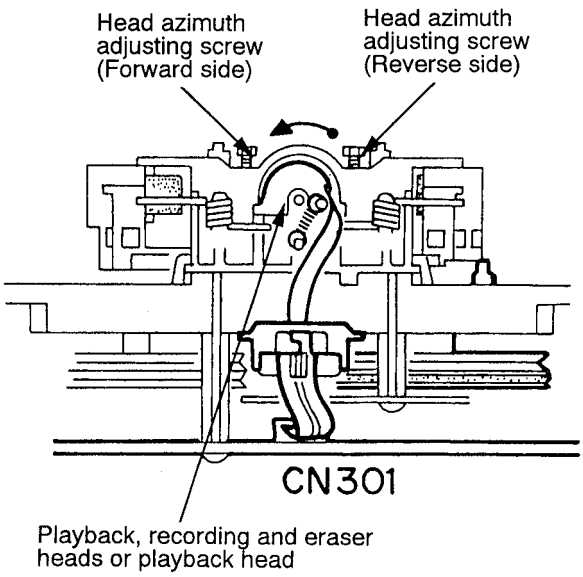


Fig.6-1

■ **Cassette Mechanism Unit Section**

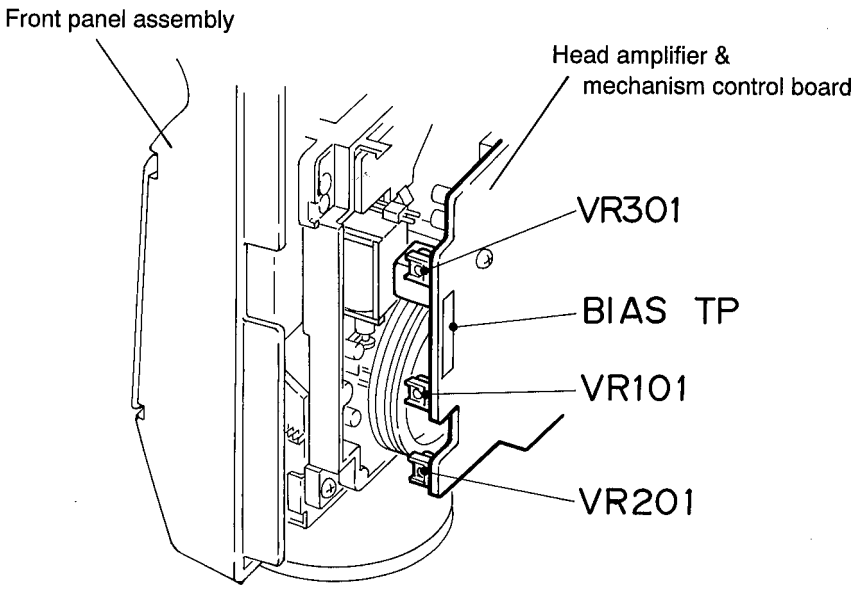


Fig.6-2

■ Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Confirmation of head angle	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) : Headphone terminal	① Play back the test tape TMT7036 (10kHz). ② With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half a turn. ③ In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape : VTT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Headphone terminal	《Constant speed》 Adjust VR301 so that the frequency counter reading becomes 3,010Hz ± 15Hz when playing back the test tape VTT712 (3kHz) with the playback mechanism or playback and recording mechanism after ending forward winding of the tape.	Tape speed of decks (A and B) : 3,010Hz ± 15Hz	VR301

■ Reference Values for Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Double tape speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	① After setting to the double speed motor, confirm that the frequency counter reading becomes 4,800 +400/-300Hz when the test tape VTT712 (3kHz) has been played back with the playback mechanism.	4,800 +400/-300Hz	Playback mechanism side
Difference between the forward and reverse speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	6.0Hz or less	Both the playback and recording & playback mechanisms
Difference between the playback mechanism and recording and playback mechanism speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	6.0Hz or less	Both the playback and recording & playback mechanisms
Wow & flutter	Test tape : TMT7036 (10kHz) Measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of wow & flutter should be 0.25% or less (WRMS).	0.25% or less (WRMS)	Both the playback and recording & playback mechanisms

■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	• Mode: Forward or reverse mode • Recording mode • Test tape : AC-514 and AC-225 Measurement output terminal : Both recording and headphone terminals	① With the recording and playback mechanism, load the test tapes (AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ), and set the mechanism to the recording and pausing conditions in advance. ② After connecting 100 Ω in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. ③ After resetting the [PAUSE] mode, start recording. At this time, adjust VR101 for LcH and VR201 for RcH so that the recording bias current values become 4.0 μA(TYP Ⅰ)and 4.20 μA(TYP Ⅱ).	AC-225 : 4.20 μA AC-514 : 4.0 μA	LcH :VR101 RcH :VR201
Adjustment of recording and playback frequency characteristics	Reference frequency : 1kHz and 10kHz (REF.: -20DB) Test tape : TYPⅡ: AC-514 Measurement input terminal : OSC IN	① With the recording and playback mechanism, load the test tape (AC-514 to TYP Ⅱ) ,and set the mechanism to the recording and pausing conditions in advance. ② While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and play back the test tape. ③ While recording and playing back the test tape in TYP Ⅱ ,adjust VR101 for LcH and VR 201 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB ± 2dB.	Output deviation between 1kHz and 10kHz : -1dB± 2dB	LcH :VR101 RcH :VR201

■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Recording bias frequency	• Recording and playback side forward or reverse • Test tape : TYPⅡ: AC-514 • Measurement terminal: BIAS TP on P.C. board	① While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. ② With the recording and playback mechanism, load the test tape (AC-514 to TYP Ⅱ), and set the mechanism to the recording and pausing conditions in advance. ③ Confirm that the BIAS TP frequency on the P.C. board is 100kHz ± 6kHz.	100kHz ± 6kHz	
Eraser current (Reference value)	• Recording and playback side forward or reverse • Recording mode • Test tape : AC-514 and AC-225 Measurement terminal: Both of the eraser head	① With the recording and playback mechanism, load the test tapes (AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ), and set the mechanism to the recording and pausing conditions in advance. ② After setting to the recording conditions, connect 1W in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminals.	TYP Ⅱ : 120mA TYP Ⅰ : 75mA	

7.Out Line of Main IC

■ IC701 : μ PD78044FGF-055 (System CPU) Port Map Table

Pin No.	Port Name	I/O	Function
1	7G	O	FL Grid 7
2	6G	O	FL Grid 6
3	5G	O	FL Grid 5
4	4G	O	FL Grid 4
5	3G	O	FL Grid 3
6	2G	O	FL Grid 2
7	1G	O	FL Grid 1
8	VDD	–	+ 5V
9	SCK	O	Serial Clock (PLL, SLC, Vol, C3)
10	SDATA	I/O	Serial data (PLL, SLC, Vol, C3)
11	$\overline{\text{F. AUX}}$	O	AUX Mute
12	$\overline{\text{LED TAPE}}$	O	LED TAPE
13	STTA	O	Strobe Tape Control
14	SQCK	O	Sub Code Clock
15	NC		Non connection
16	SUBQ/RDA	I	Sub Code Data/RDS Data
17	$\overline{\text{REST}}$	I	System Reset
18	A REEL	I	Tape A mechanism runing detection
19	B REEL	I	Tape B mechanism runing detection
20	AVss	–	AD Ground
21	REST/REQ	I	Reset Switch/Changer Request
22	SAFETY	I	Trouble Detection
23	TAPE3	I	
24	TAPE2	I	
25	TAPE3	I	
26	KEY3	I	
27	KEY2	I	
28	KEY1	I	
29	AVdd	–	AD + 5V
30	AVREF	–	AD REF + 5V
31	XT1	I	Sub Clock 32.768kHz
32	XT2	O	
33	Vss	–	Ground
34	X1	I	Main Clock 4.19MHz
35	X2	O	
36	BEAT	O	Main Clock Shift
37	MS	I	Music Scan
38	$\overline{\text{MPX}}$	I	Stereo Detect
39	$\overline{\text{+ BCTL}}$	O	5V Switch
40	MLCK	O	

Pin No.	Port Name	I/O	Function
41	$\overline{\text{XRST}}$	O	
42	MLD	O	
43	MDATA	O	
44	STCH	O	Strobe Changer Control
45	STATUS	I	CD STATUS (PO) /RDS CLK (INT)
46	POUT	O	Power on/off
47	REM	I	Remote Control
48	Vss	–	Ground
49	$\overline{\text{SMUTE}}$	O	System Mute
50	F.CD	O	Function CD
51	F.TU	O	Function CD
52	Vdd	–	+ 5V
53	VOL –	I	Volume Encoder Input (–)
54	VOL +	I	Volume Encoder Input (+)
55	SPK	O	Speaker Relay on/off
56	PROTECT	I	Protector Input
57	BUP	I	Buck up Detect
58	LATCH	O	Volume IC Strobe
59	PERIOD	O	Tuner PLL Strobe
60	S1	O	FL Segment 1
61	S2	O	FL Segment 2
62	S3	O	FL Segment 3
63	S4	O	FL Segment 4
64	S5	O	FL Segment 5
65	S6	O	FL Segment 6
66	S7	O	FL Segment 7
67	S8	O	FL Segment 8
68	S9	O	FL Segment 9
69	S10	O	FL Segment 10
70	S11	O	FL Segment 11
71	VLOAD	–	
72	S12	O	FL Segment 12
73	S13	O	FL Segment 13
74	S14	O	FL Segment 14
75	S15	O	FL Segment 15
76	S16	O	FL Segment 16
77	11G	O	FL Grid 11
78	10G	O	FL Grid 10
79	9G	O	FL Grid 9
80	8G	O	FL Grid 8

8.Wiring Connections

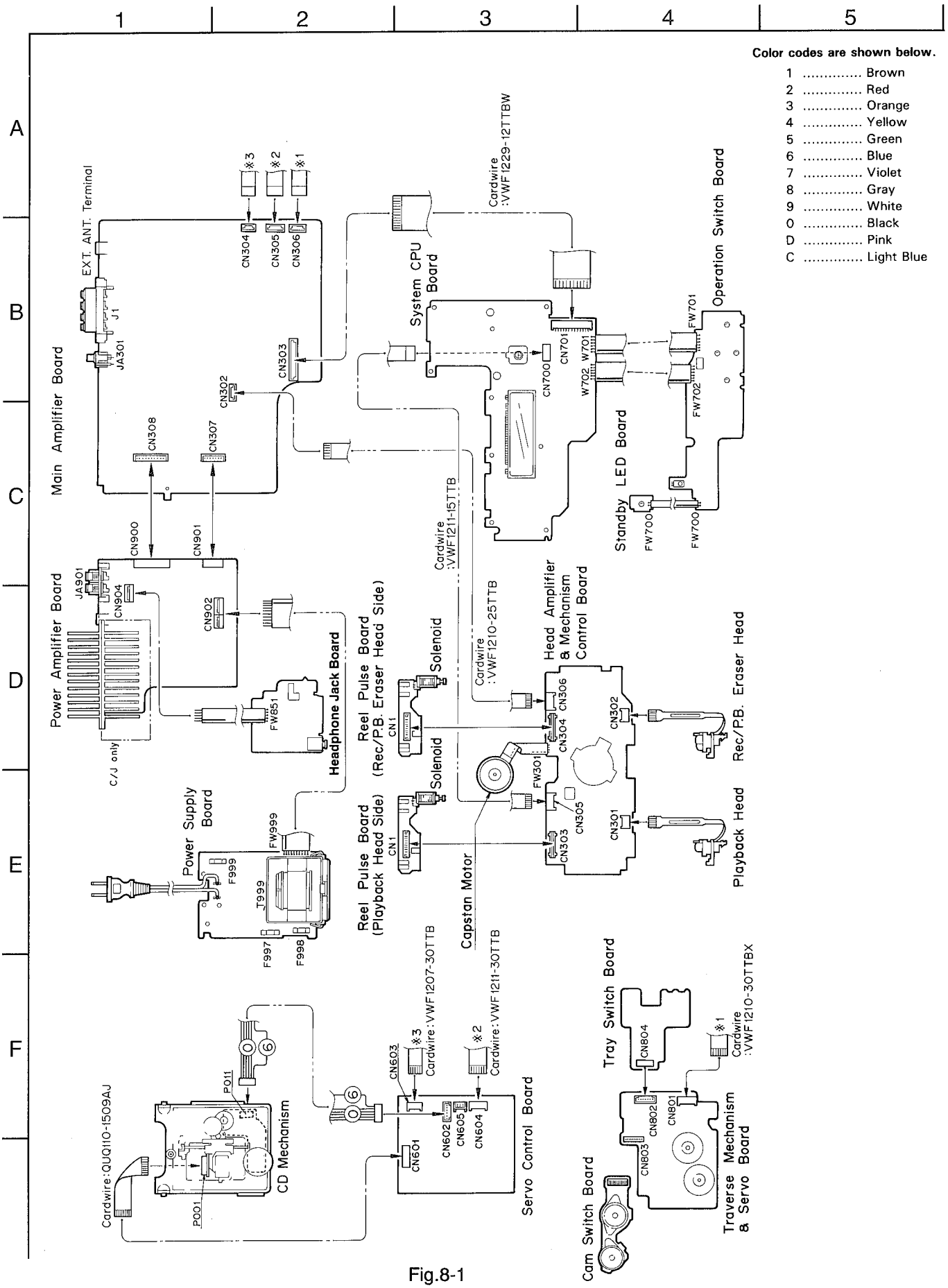
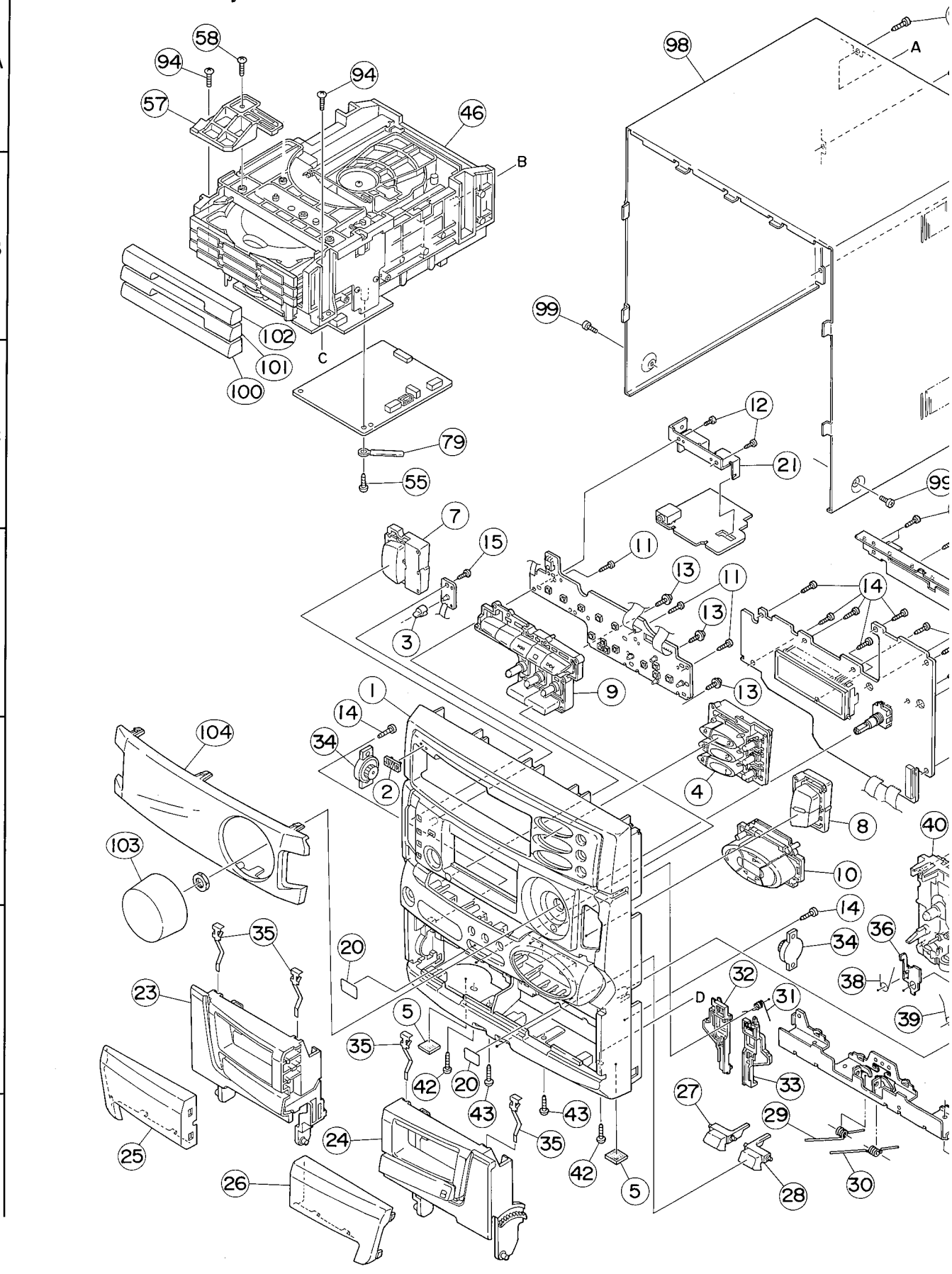


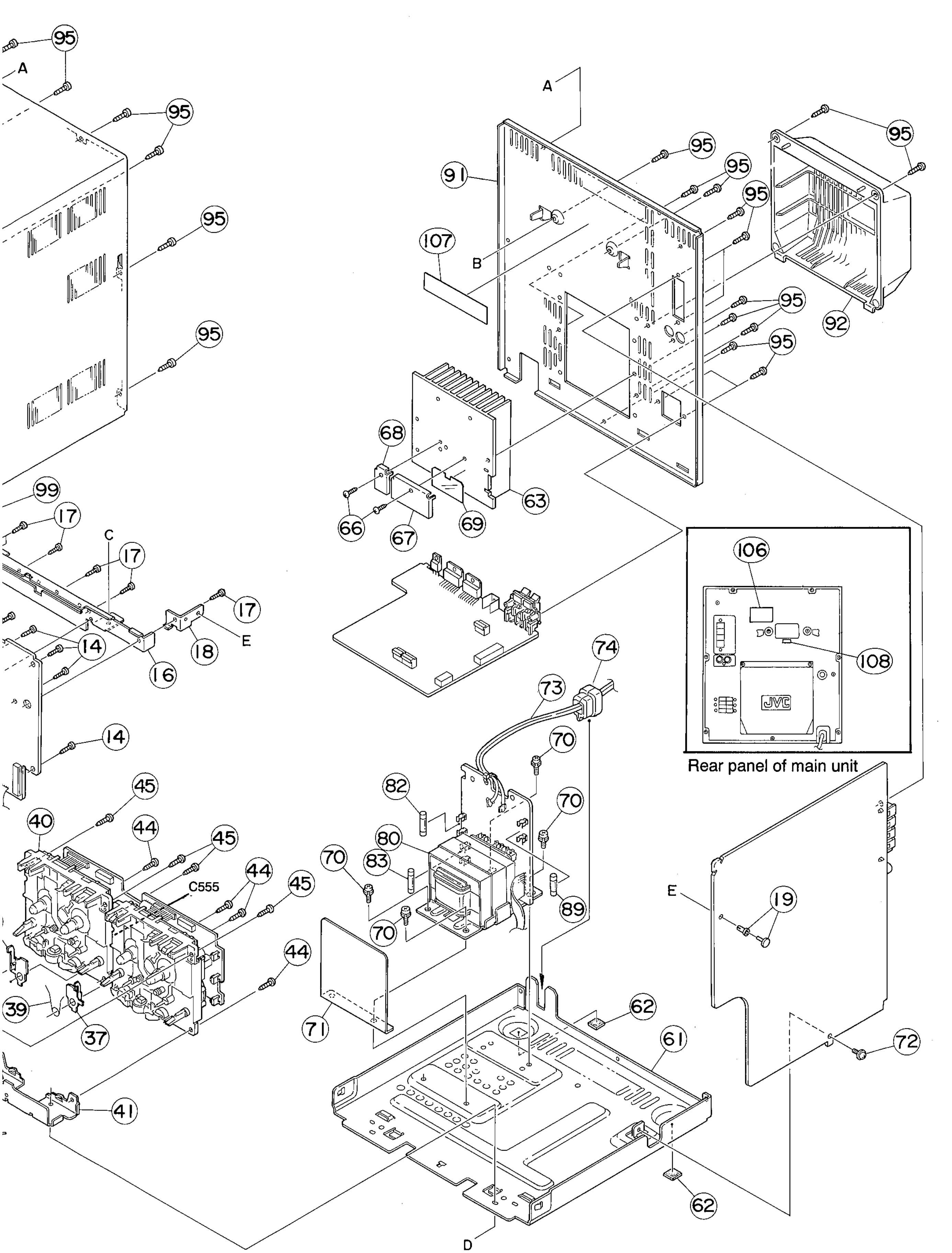
Fig.8-1

9.Analytic Drawing and Parts List

■ Enclosure Assembly Part : Block No. M1



	6	7	8	9	10


95
A
B
91
107
92
68
63
66
67
69
99
17
C
14
16
18
E
106
108
JVC
Rear panel of main unit
74
73
70
82
80
83
89
40
44
45
C555
19
71
62
61
72
39
37
41
D

■ Enclosure Assembly Parts List

BLOCK NO. M1MM

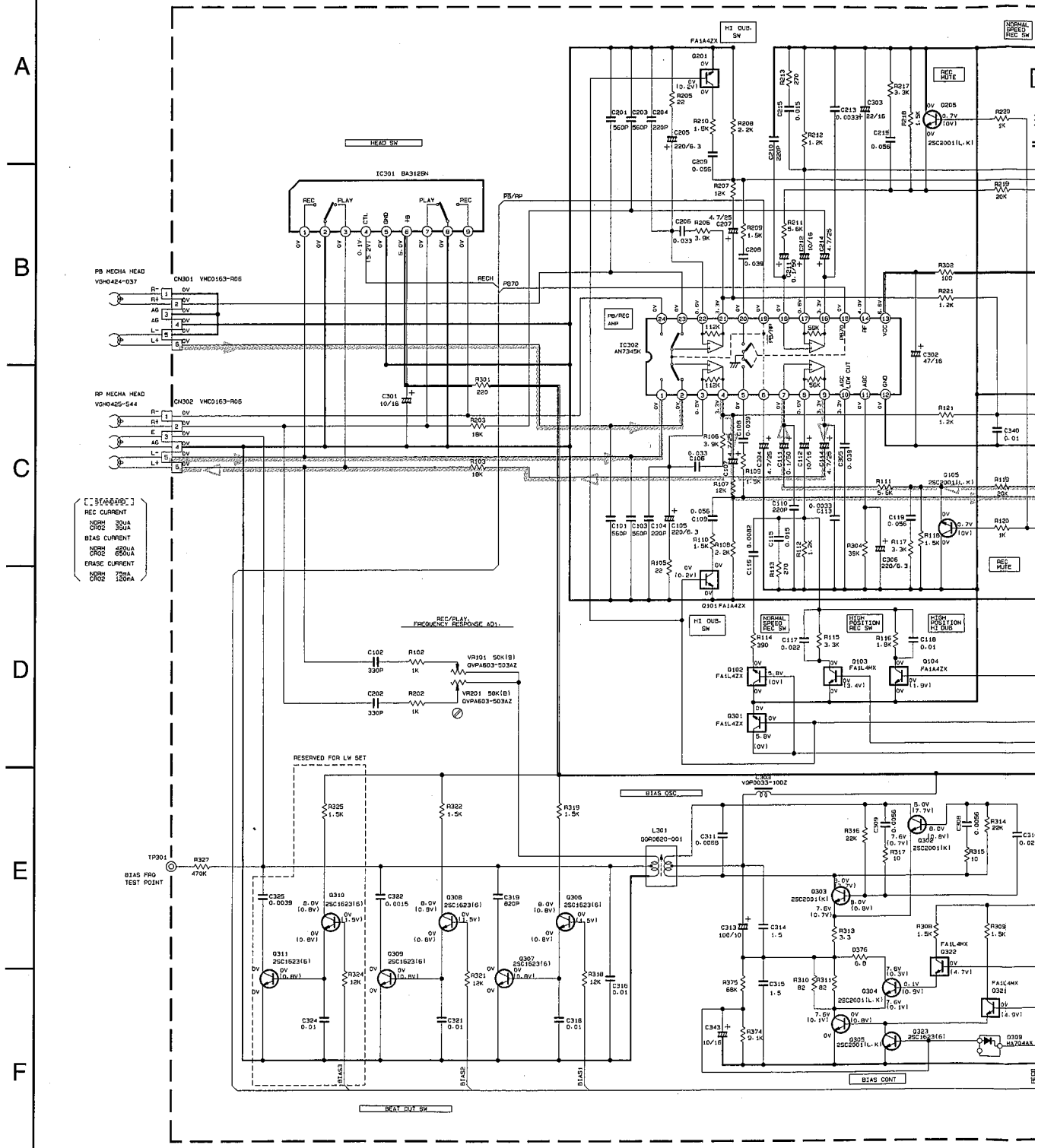
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	FMJC1015-002	FRONT PANEL		1		
	2	E406971-001SM	JVC MARK		1		
	3	FMJK4013-001	STANDEBY INDICA		1		
	4	FMXP2009-001	CD BOTTON		1		
	5	E75896-001	SPACER		2		
	7	FMXP2004-006	POWER BUTTON		1		
	8	FMXP3017-002	SOUND BUTTON		1		
	9	FMXP2003-001	CONTROL BUTTON		1		
	10	FMXP2010-00A	FUN.BUTT.ASSY		1		
	11	SDSF2608Z	SCREW		3		
	12	SDSF2610Z	TAPPING SCREW		2		
	13	GBSF2608Z	SCREW		3		
	14	SDSF2608Z	SCREW		11		
	15	SDSF2608Z	SCREW		1		
	16	E309495-002SM	STAY BKT		1		
	17	SDSF2608Z	SCREW		6		
	18	FMKL4011-001	BRACKET		1		
	19	FMYH4004-001	PLASTIC RIVET		1		
	20	E69777-003	REF PLATE		2		
	21	FMKL4014-001	PHONE BRACKET		1		
	23	FMJT2004-001	CASS HOLDER(L)		1		
	24	FMJT2004-002	CASS HOLDER(R)		1		
	25	FMJK2003-001	CASS LENS(L)		1		
	26	FMJK2003-002	CASS LENS(R)		1		
	27	FMXP3018-001	EJECT BUTTON(A)		1		
	28	FMXP3019-001	EJECT BUTTON(B)		1		
	29	FMKW4009-001	HOLDER SPRING A		1		
	30	FMKW4010-001	HOLDER SPRING B		1		
	31	FMKW4011-001	SPRING		1		
	32	FMKS3002-001	EJECT LEVER (A)		1		
	33	FMKS3003-001	EJECT LEVER (B)		1		
	34	VYH7779-00B	DUMPER ASS'Y		2		
	35	VKY4180-001	CASSETTE SPRING		4		
	36	FMKL4012-003	EJECT SAFETY(A)		1		
	37	FMKL4013-001	EJECT SAFETY(B)		1		
	38	FMKW4007-001	SPRING (A)		1		
	39	FMKW4008-001	SPRING (B)		1		
	40	----------	C. MECHA ASS'Y		1		
	41	FMKL2002-001	HOLDER BRACKET		1		
	42	SBSG3010Z	T.SCREW		2		
	43	SBSG3010Z	T.SCREW		2		
	44	SBSG3010Z	T.SCREW		4		
	45	SBSF3010Z	SCREW		4		
	46	---------	CHANGER MECHA A		1		
	55	SBSF3008Z	SCREW		1		
	57	E309662-001	DISC STOPPER		1		
	58	SBSF3008Z	SCREW		1		
	61	FMKL1004-002	CHASSIS BASE		1		
	62	E75896-006	FELT SPACER		2		
	63	FMMH3005-001	HEAT SINK		1		
	66	SBSG3014CC	SCREW		2		
	67	FMKL4007-001	BRACKET		1		
	68	FMKL4015-001	BRACKET		1		
	69	FMPK4003-001	MICA SHEET		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	70	E65389-002	SPECIAL SCREW		4		
	71	FMMA4003-001	TRANS.SHIELD		1		
	72	GBST3006Z	SCREW		1		
	73	QMP5530-0085BS	POWER CORD		1	B	
		QMP39E0-200	POWER CORD		1	E,EN,G	
	74	QHS3771-108BS	CORD STOPPER		1	B	
		QHS3771-108	CORD STOPPER		1	E,EN,G	
	79	VKZ4001-110	WIRE HOLDER		1		
	80	FMTP66M8-65A	POWER TRANS	T999	1		
	82	QMF51E2-1R25	FUSE	F997	1		
	83	QMF51E2-1R25	FUSE	F998	1		
	89	QMF51E2-R80SBS	FUSE	F999	1		
	91	FMJC1016-011	REAR PANEL		1		
	92	E207356-001SM	REAR COVER		1		
	94	SBSG3008Z	T.SCREW		2		
	95	E73273-003	SPECIAL SCREW		20		
	98	FMJC1013-005	METAL COVER		1		
	99	SDSG3006M	T.SCREW		2		
	100	FMJD2003-001	CD FITTING		1		
	101	FMJD2003-002	CD FITTING		1		
	102	FMJD2003-003	CD FITTING		1		
	103	FMXL3001-001	M.VOL KNOB		1		
	104	FMJK2004-001	WINDOW SCREEN		1		
	106	E70891-001	CLASS 1 LABEL		1		
	107	E406709-001	LASER CAUTION		1		
	108	E408919-001	BEAB LABEL		1	B	
		FMND4008-001	SEMKO LABEL		1	E,EN,G	
	C 555	QCS11HJ-331	C.CAPACITOR	PF +50:-10%	1		

10.Standard Schematic Diagrams

■ Head Amplifier & Mechanism Control Circuit : Drawing No.VDH1033-001PV



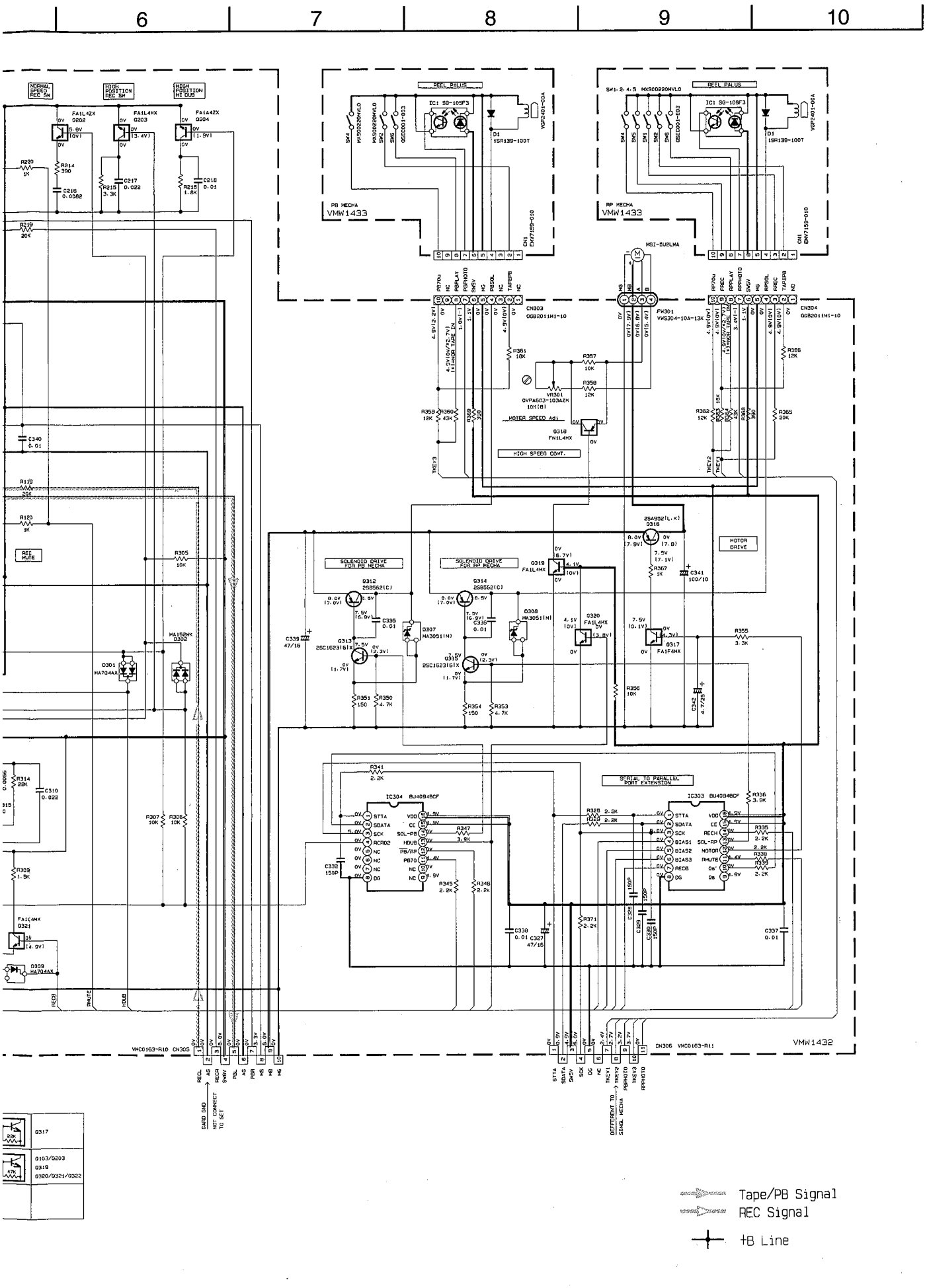
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. ( ) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED
   - ALL RESISTANCE VALUES ARE IN OHM(Ω).
   - ALL CAPACITORS ARE CERAMIC CAPACITOR
   - ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   - ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   - ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   - PP PLYPROPYLENE CAPACITOR

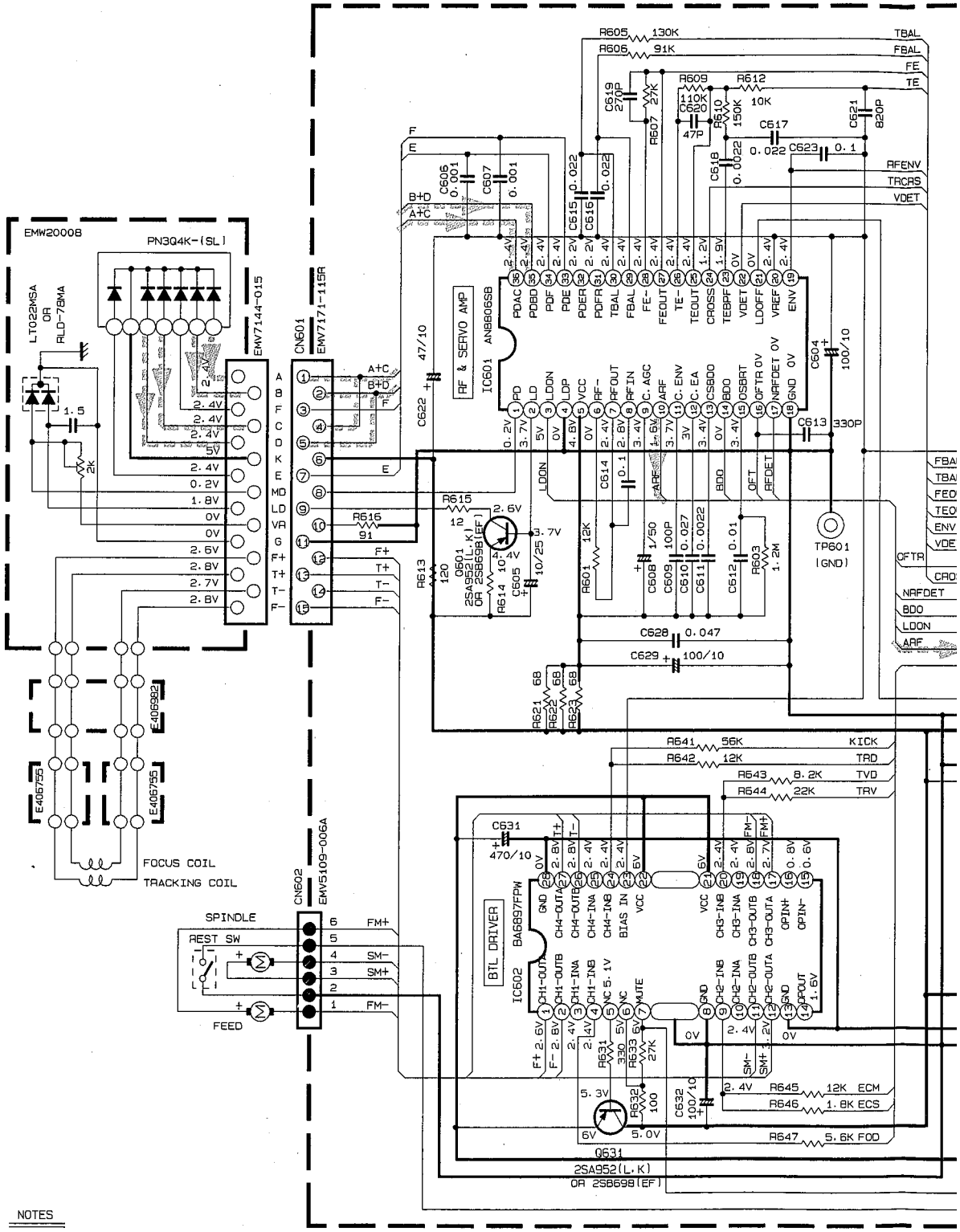
TABLE 1. DIGITAL TR LIST

PART NO	CONSTRUCTION	REF. NO			
FN1L4M	47K 47K	Q318	FA1F4M	22K 22K	Q317
FA1A4Z	10K	Q101/Q201 Q104/Q204	FA1L4M	47K 47K	Q103/Q203 Q319 Q320/Q321
FA1L4Z	47K	Q102/Q202 Q301			

Note : VDH1033O1pv(/s/G)


6
7
8
9
10
NORMAL SPEED REC SW
HIGH POSITION REC SW
HIGH POSITION HI DUB
REEL PULSE
PB MECHA VMW1433
RP MECHA VMW1433
MSI-5U2LWA
HIGH SPEED CONT.
MOTOR SPEED ADJ
MOTOR DRIVE
SOLENOID DRIVE FOR PB MECHA
SOLENOID DRIVE FOR RP MECHA
SERIAL TO PARALLEL PORT EXTENSION
REF HUE
IC304 BU4094BCF
IC303 BU4094BCF
VMW1432
Tape/PB Signal
REC Signal
+B Line

■ CD Servo Control Circuit : Drawing No.FMDH9002-001CW



NOTES

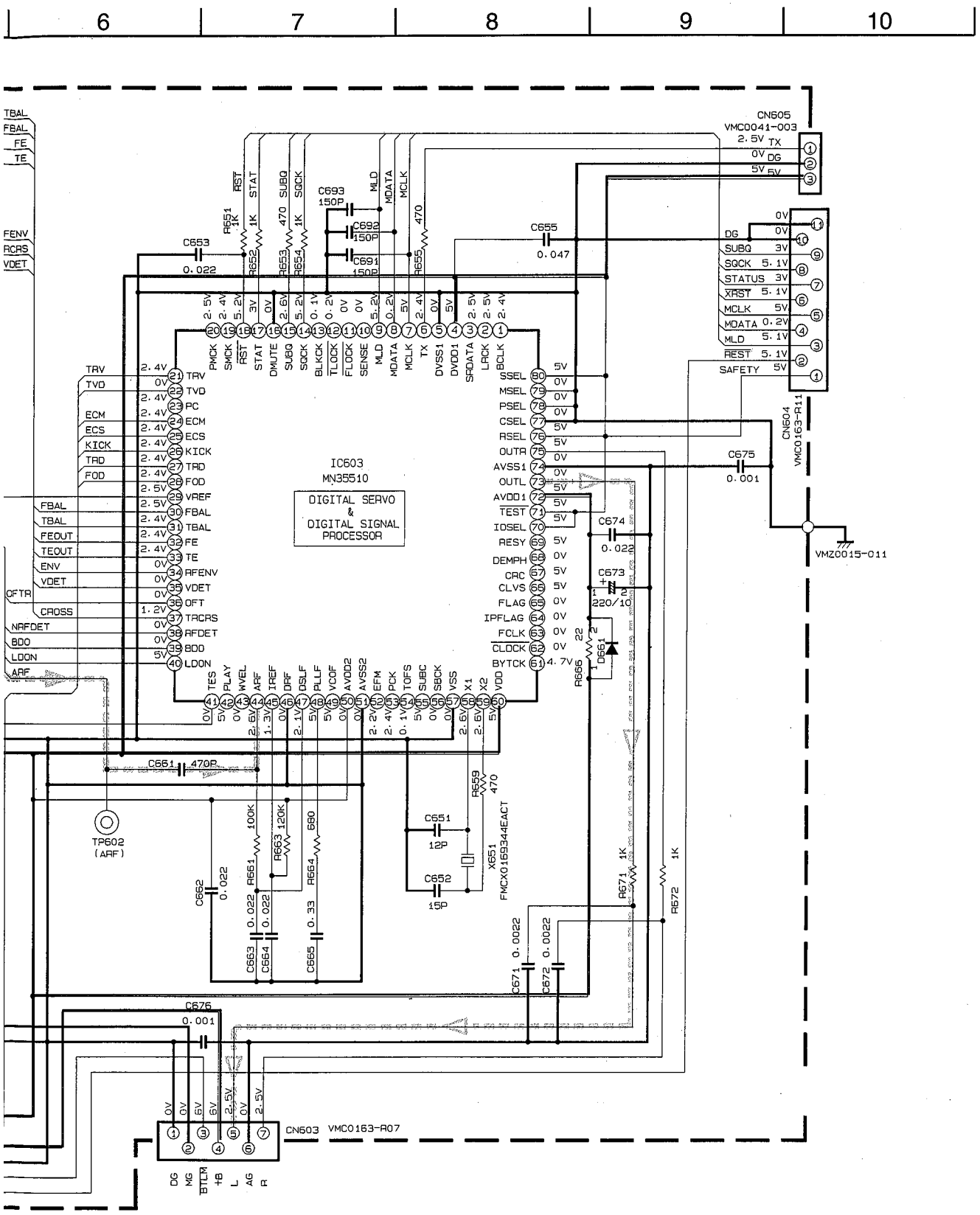
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

CD Digital signal

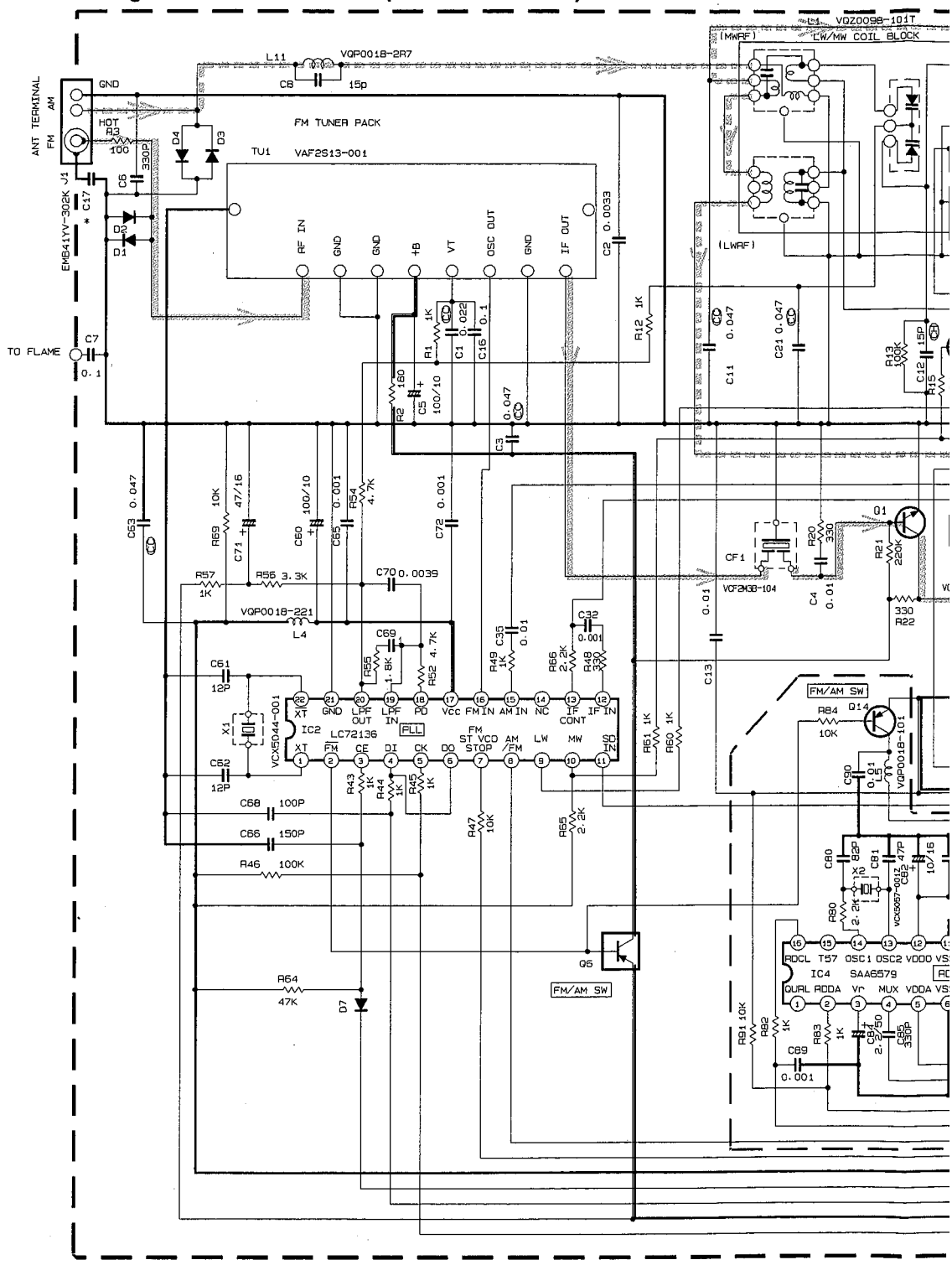
CD Analogue signal

+B Line

Note : FMDH9002001CW(/s/g/)


6
7
8
9
10
IC603
MN35510
DIGITAL SERVO
&
DIGITAL SIGNAL
PROCESSOR
CN605
VMC0041-003
CN604
VMC0163-R11
CN603
VMC0163-R07
VMZ0015-011
TP602
(ARF)
X651
FMCX0169344EACT
C693 150P
C692 150P
C691 150P
C655 0.047
C653 0.022
C675 0.001
C674 0.022
C673 220/10
C661 470P
C662 0.022
C663 0.022
C664 0.022
C665 0.33
C671 0.0022
C672 0.0022
C676 0.001
C551 12P
C652 15P
R651 1K
R652 1K
R653 470
R654 1K
R655 470
R659 470
R661 100K
R663 120K
R664 680
R665 22
R671 1K
R672 1K
D661
TBAL
FBAL
FE
TE
FENV
RCRS
VDET
OFTR
CROSS
NRFDET
BDO
LDON
ARF
TRV
TVD
ECM
ECS
KICK
TRD
FOD
VREF
FEOUT
TEOUT
RFENV
VDET
OFT
TRCRS
RFDET
BDO
LDON
PMCK
SMCK
RST
STAT
DMUTE
SUBQ
SQCK
BLKCK
TLOCK
FLOCK
SENSE
MLD
MDATA
MCLK
TX
DVSS1
DVDD1
SRDATA
LRCK
BCLK
SSEL
MSEL
PSEL
CSEL
RSEL
OUTR
AVSS1
OUTL
AVDD1
TEST
IDSEL
RESY
DEMPH
CRC
CLVS
FLAG
IPFLAG
FCLK
CLOCK
BYTCK
TES
PLAY
WVEL
ARF
IREF
DRF
DSLF
PLLF
VCOF
AVDD2
AVSS2
EFM
PCK
TOFS
SUBC
SBCK
VSS
X1
X2
VDD
REST
SAFETY
DG
SUBQ
SQCK
STATUS
XRST
MCLK
MDATA
MLD
SAFETY
DG
MG
BTLM
+B
L
AG
R

■ Tuner Circuit : Drawing No.FMDH9002-005TW (B/E/EN/G Version)



* MARK

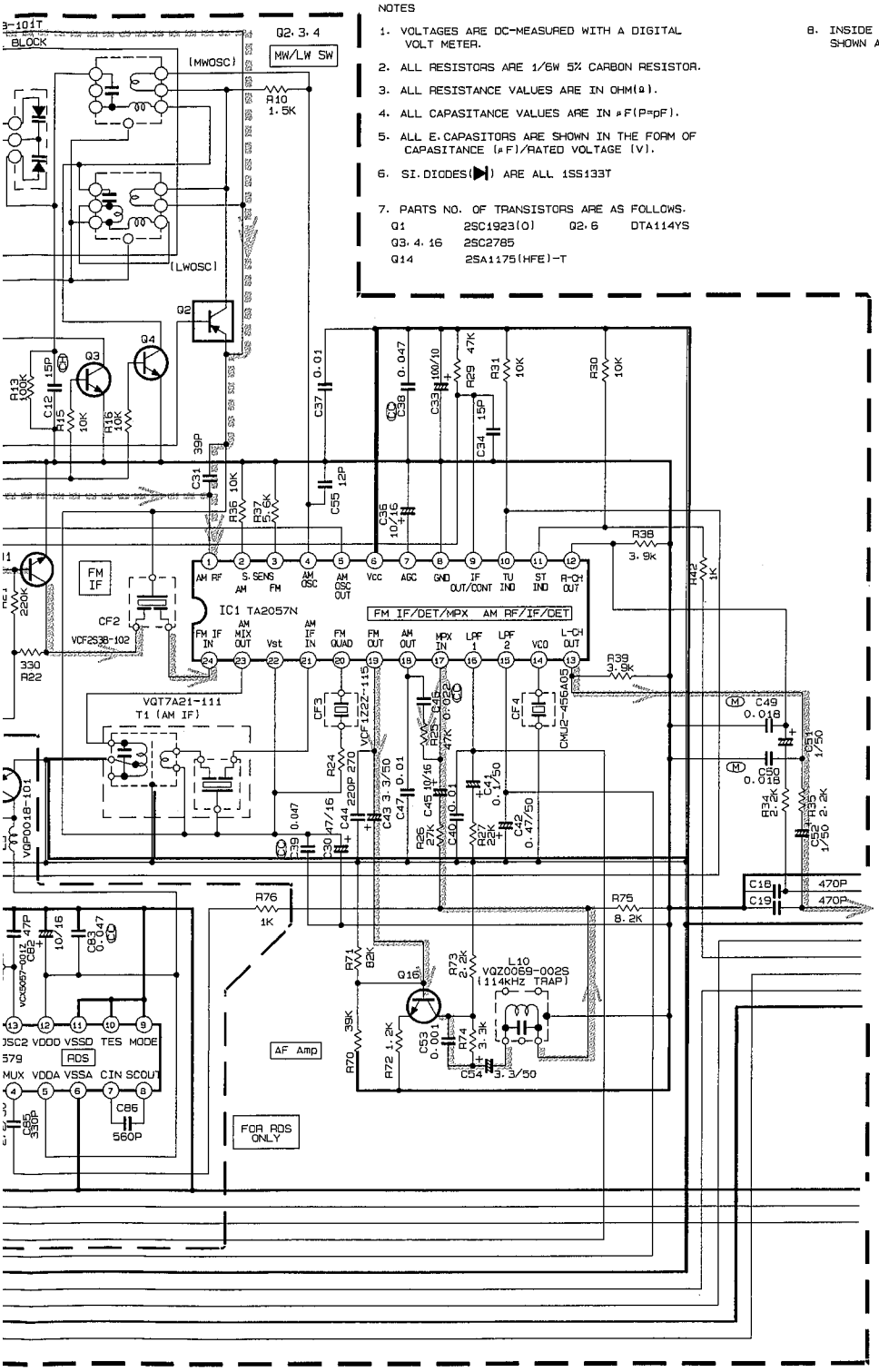
LOC. \ MODEL	CA-D301T CA-D351TR	CA-D401T CA-D451TR	CA-D501T CA-D551TR
C17	0.01	0.001	0.001

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.2	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.6	3.8	3.8	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.2	0	0	1.0	1.0	4.5	4.1	3.9	1.4	0	1.2	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.8	2.2	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.7	0	0	4.9	4.9	4.9	3.8	3.8	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Tr NO
PIN NO
FM 87.5MHz N
AM 522KHz NO
Tr NO
PIN NO
AM 522KHz NO
AM 144KHz NO

Note : FMDH9002005TW(/s/g)

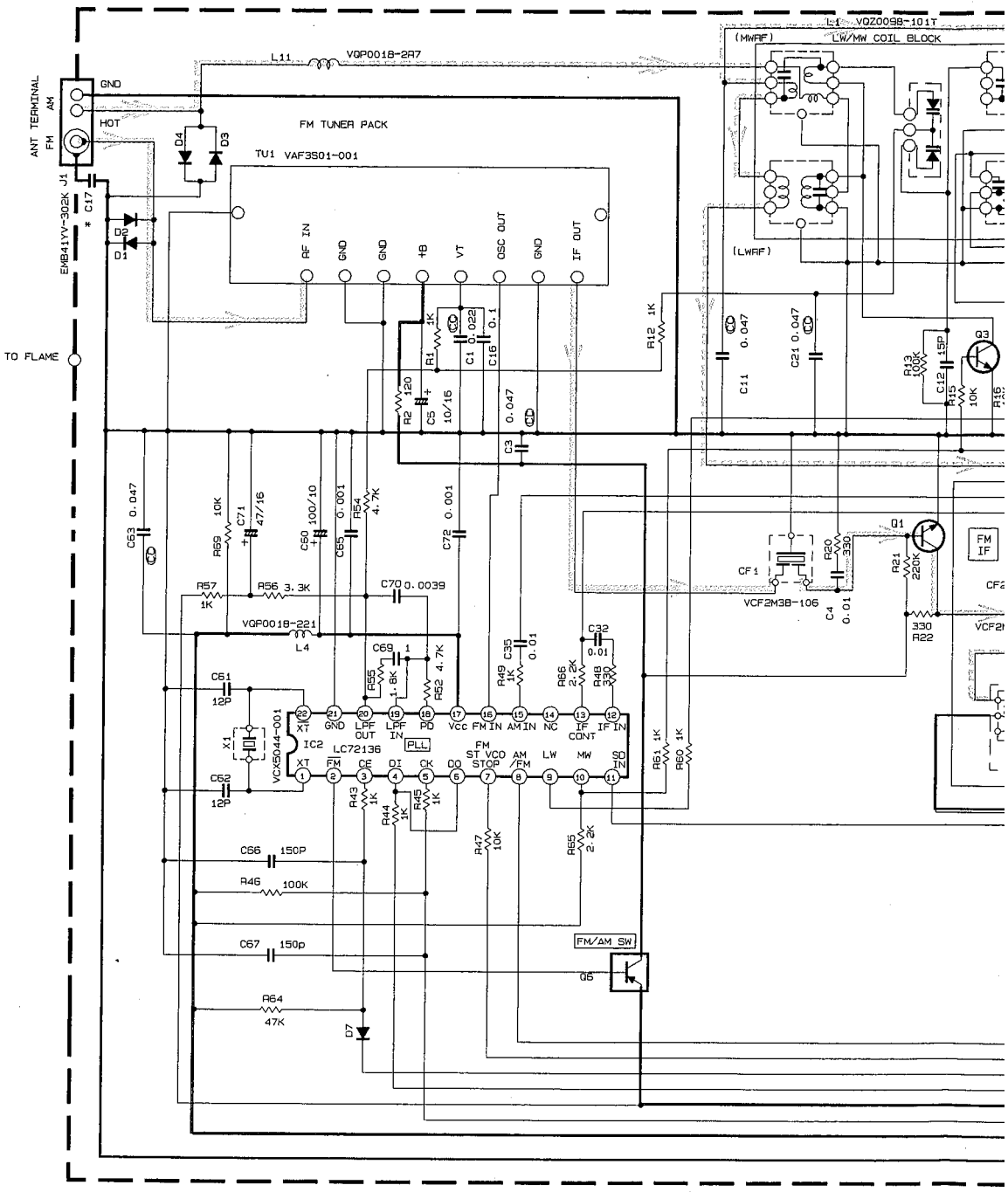
6 7 8 9 10



Tr NO.	Q1			Q5			Q16		
PIN NO.	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	8.3	0.8	9.8	9.7	0	1.0	3.5	1.6
AM 522KHz NO SIGNAL	0	0	0	9.8	0	9.7	1.0	3.5	1.6
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

FM Radio signal
MW Radio signal
LW Radio signal
+B Line

■ Tuner Circuit : Drawing No.FMDH9002-012TW (VX Version)



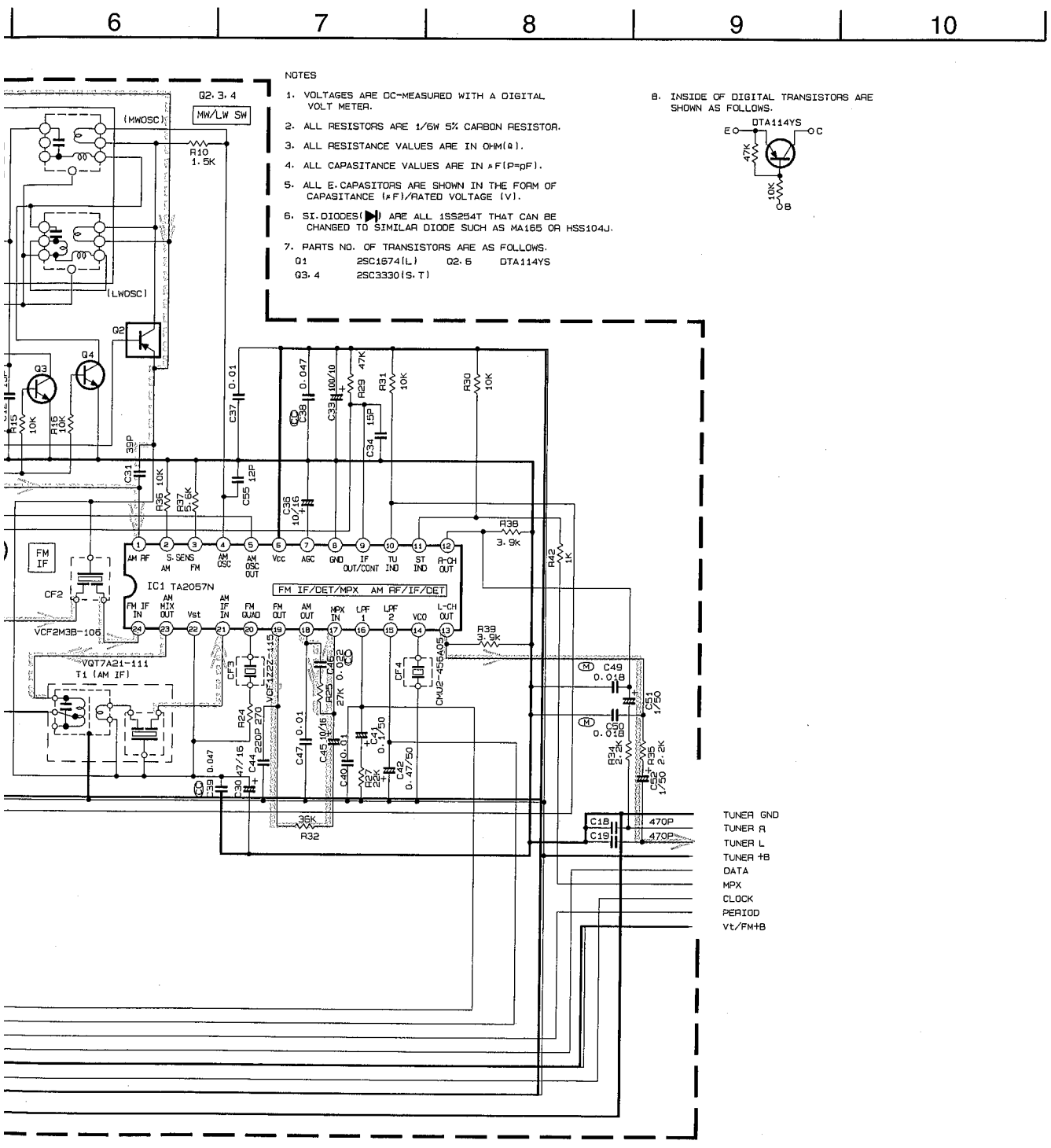
	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.2	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.6	3.8	3.8	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.2	0	0	1.0	1.0	4.5	4.1	3.9	1.4	0	1.2	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.8	2.2	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.7	0	0	4.9	4.9	4.9	3.8	3.8	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Tr NO.	
PIN NO.	
FM 87.5MHz NO SIGNAL	
AM 522KHz NO SIGNAL	
Tr NO.	
PIN NO.	
AM 522KHz NO SIGNAL	
AM 144KHz NO SIGNAL	

* MARK

LOC. \ MODEL	CA-D301T	CA-D401T
C17	0.01	0.001

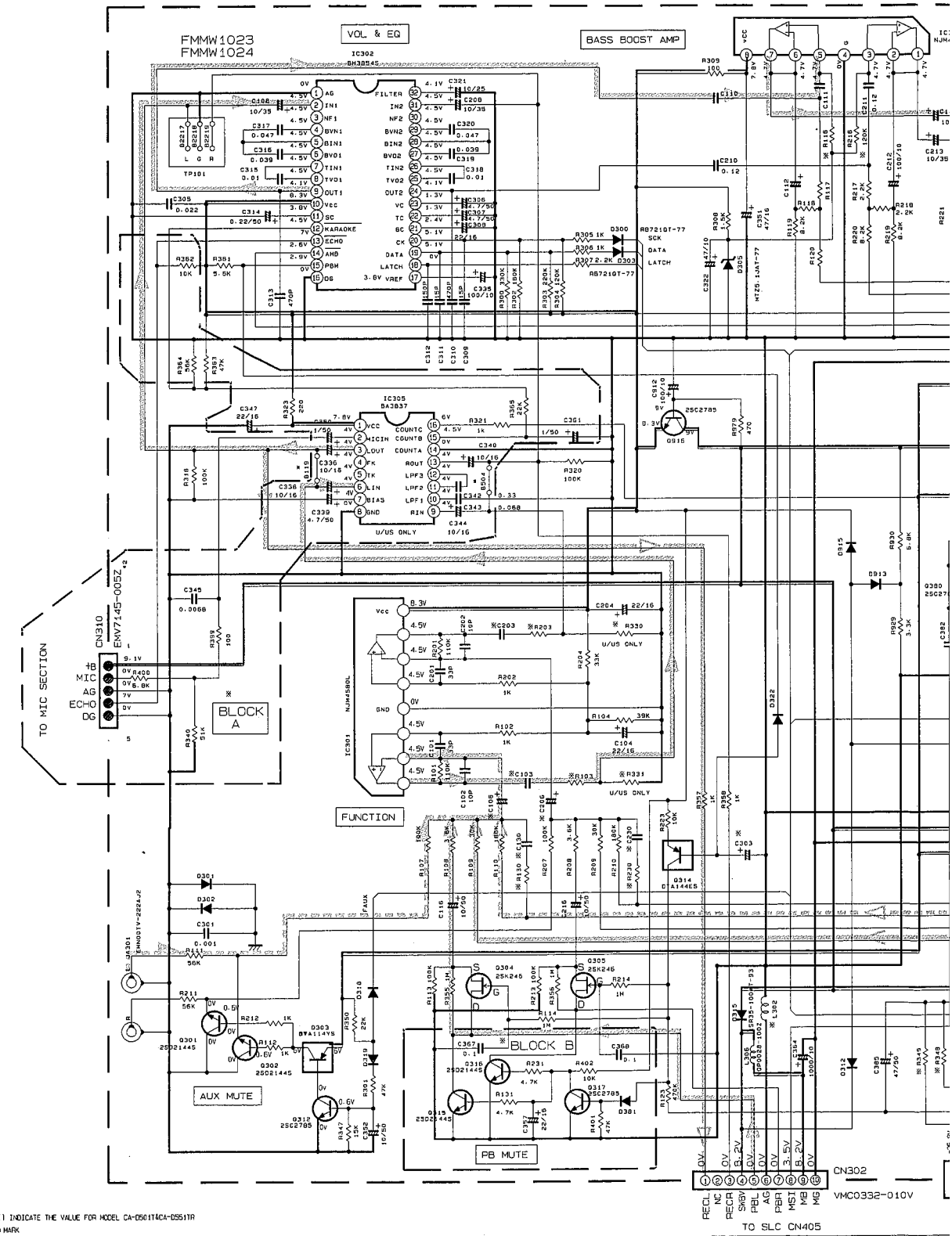
Note : FMDH9002012TW(/s/g)



NO.	Q1			Q6					
NO.	E	C	B	E	C	B	E	C	B
NO SIGNAL	0	8.3	0.8	9.8	9.7	0			
NO SIGNAL	0	0	0	9.8	0	9.7			
NO.	Q2			Q3			Q4		
NO.	E	C	B	E	C	B	E	C	B
NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

FM Radio signal
AM Radio signal
LW Radio signal
+B Line

■ Fuction & Bass Boost Amplifier / Regulator Circuit : Drawing No.FMDH9003-006AV (1/3)

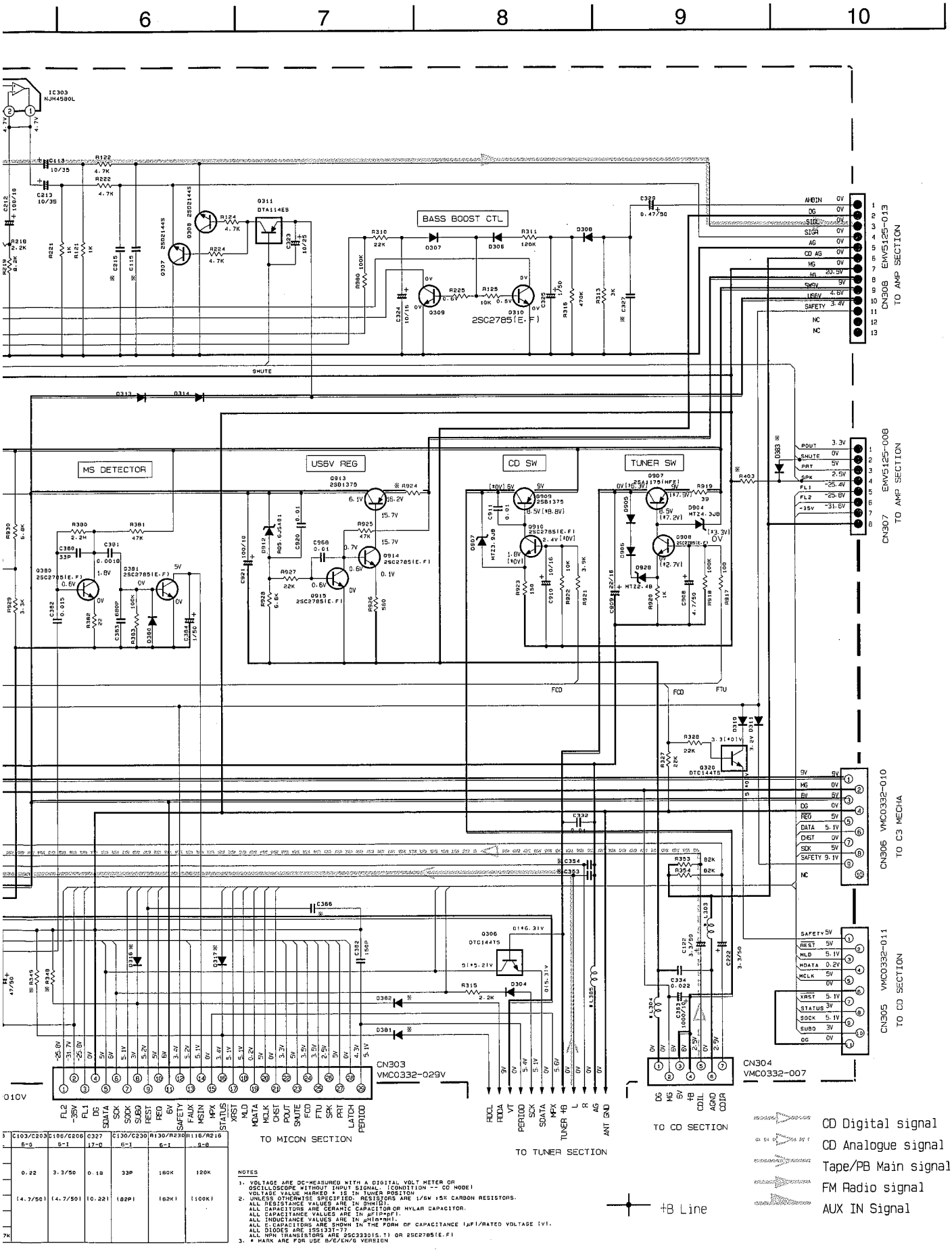


(1) INDICATE THE VALUE FOR MODEL CA-D501T&CA-D551TR

* MARK

MODEL	LOC / VER	L302 9-H	L303/L304 18-K/17-L	L305 17-L	BLOCK A/BLOCK B 3-G	B119/B504 5-E	D318/D317 12-K	D303 19-F	D381/D382 14-L	C366 K-12	C303 8-I	C115/C215 11-C	C353/C354 17-J	R349 10-L	R403 18-E	R924 14-E	R330/R331 7-G	R103/R203 6-H	R348 10-L	C103/C203 6-G	C1
CA-D401T	J, C	B163	B106/B105	B107	--	USE	B103/B104	--	--	150P	2.2/50	--	470P	--	--	B153	--	100	--	0.22 (4.7/50)	3
	U, UB, UR, US, UT	B163	B106/B105	B107	USE	--	B103/B104	1SS133T-77	--	150P	--	--	470P	--	560	22 F.RES (1/4W)	5.6K (2.4K)	22K (10K)	--		
	B, E, EN, G	VQZ0048-009	VQZ0048-009	VQZ0048-009	--	USE	B103/B104	--	--	--	2.2/50	--	--	--	--	22 F.RES (1/4W)	--	100	--		
(CA-D501T)	A	B163	B106/B105	B107	--	USE	B103/B104	--	--	150P	2.2/50	--	470P	--	--	22 F.RES (1/4W)	--	100	--		
	VX	B163	B106/B105	VQZ0048-009	--	USE	B103/B104	--	--	--	2.2/50	--	--	--	--	22 F.RES (1/4W)	--	100	--		
MX-D451TR (CA-D551TR)	B, E, EN, G	VQZ0048-009	VQZ0048-009	VQZ0048-009	--	USE	RB721QT-77	--	RB721QT-77	--	2.2/50	330P	--	10K	--	22 F.RES (1/4W)	--	100	4.7K		

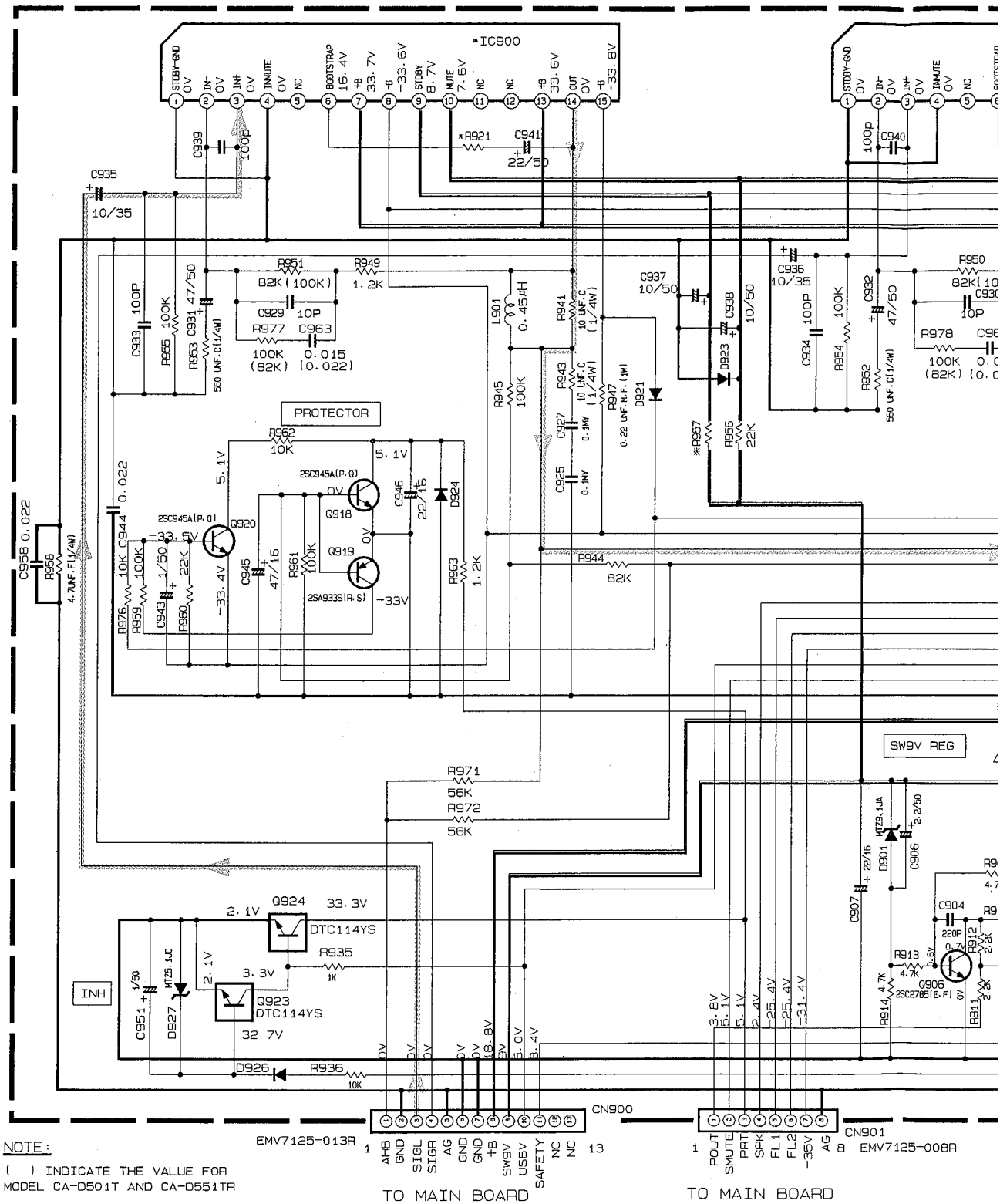
Note : FMDH9003006AV(/s/g) .003



C103/C203	C106/C206	C327	C130/C230	R130/R230	R116/R216
6-9	8-I	17-D	6-I	6-I	9-B
0.22	3.3/50	0.18	33P	180K	120K
(4.7/50)	(4.7/50)	(0.22)	(82P)	(62K)	(100K)

NOTES
1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. (CONDITION -- CD MODE)
   VOLTAGE VALUE MARKED * IS IN TUNER POSITION.
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTORS.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133T-77
   ALL NPN TRANSISTORS ARE 2SC3330(S,T) OR 2SC2785(E,F)
3. * MARK ARE FOR USE B/E/EN/G VERSION

■ Power Amplifier & Regulator Circuit : Drawing No.FMDH9003-006AV (2/3)

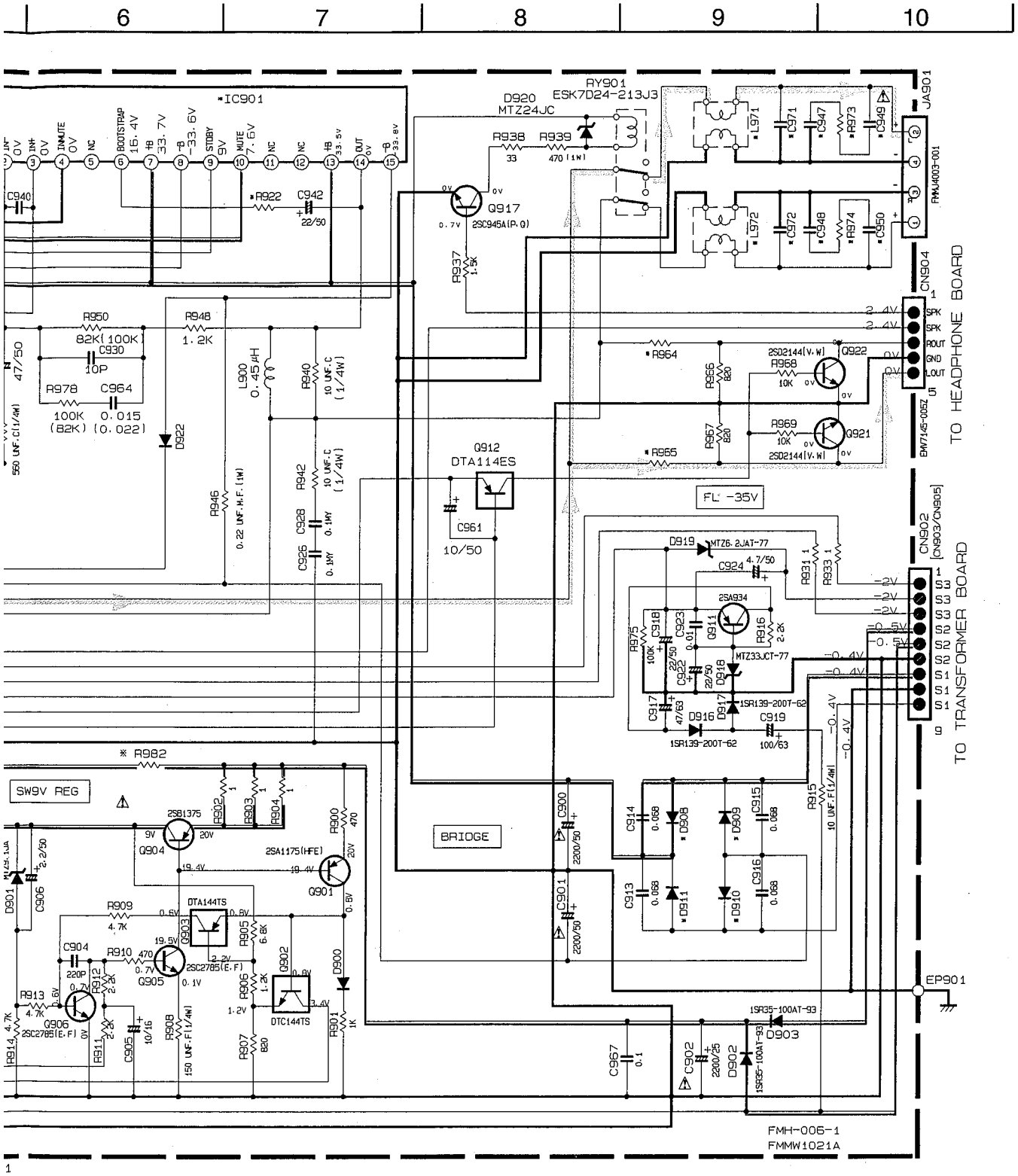


NOTE:

( ) INDICATE THE VALUE FOR MODEL CA-D501T AND CA-D551TR

※MARK

VERSION	C947/948/949/950 18-B	C971/C972 18-B	D908/909/910/911 18-H	IC900/901 6-B/13-B	L971/972 17-B	R921/922 6-C/13-C	R957 9-E	R964/965 17-D	R982 12-H	R973/R974 19-B
B, E, EN, G	0.022	0.0027	1N5401TM	TDA7295	VQZ0104-003	B125/126	1K	680	B120	4.7
U, UB, UP, UR US, UT, A, VX	—	—	1N5401TM	TDA7295	—	B125/126	1K	680	B120	—
J, C	—	—	10E2-FD	TDA7294	—	2.2K	10K	680 F.RES(1/4W)	22 F.RES (1/4W)	—



NOTES

1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133T-77 TYPE
   (PP) POLYPROPYLENE CAPACITOR
   (M) 50V ± 5% MYLAR CAPACITOR OR 50V ± 5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR: IT WOULD BE A SHORT.
   FOR CAPACITOR: IT WOULD BE AN OPEN.

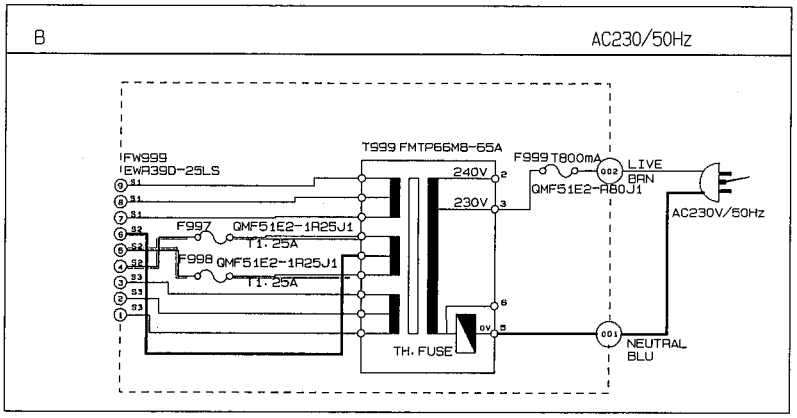
Main PB Signal

+B Line

■ Power Transformer Circuit : Drawing No.FMDH9003-006AV (3/3)

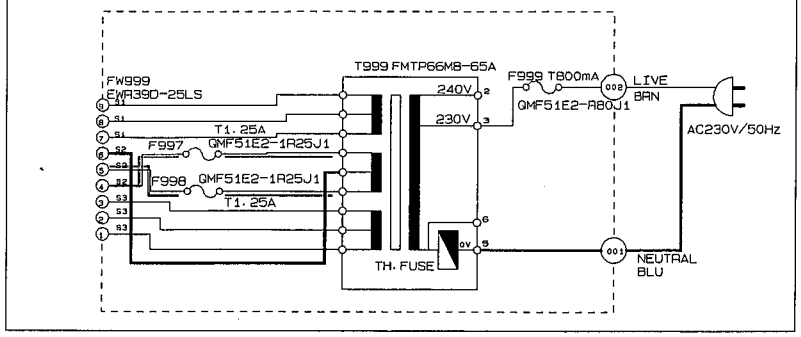
POWER SUPPLY BLOCK

B AC230/50Hz



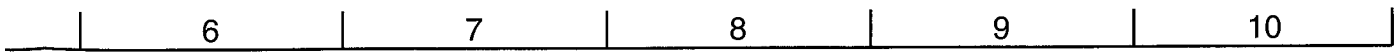
POWER SUPPLY BLOCK

E/EN/G/VX AC230/50Hz



+B Line

Note : FMDH9003006AV(/s/g)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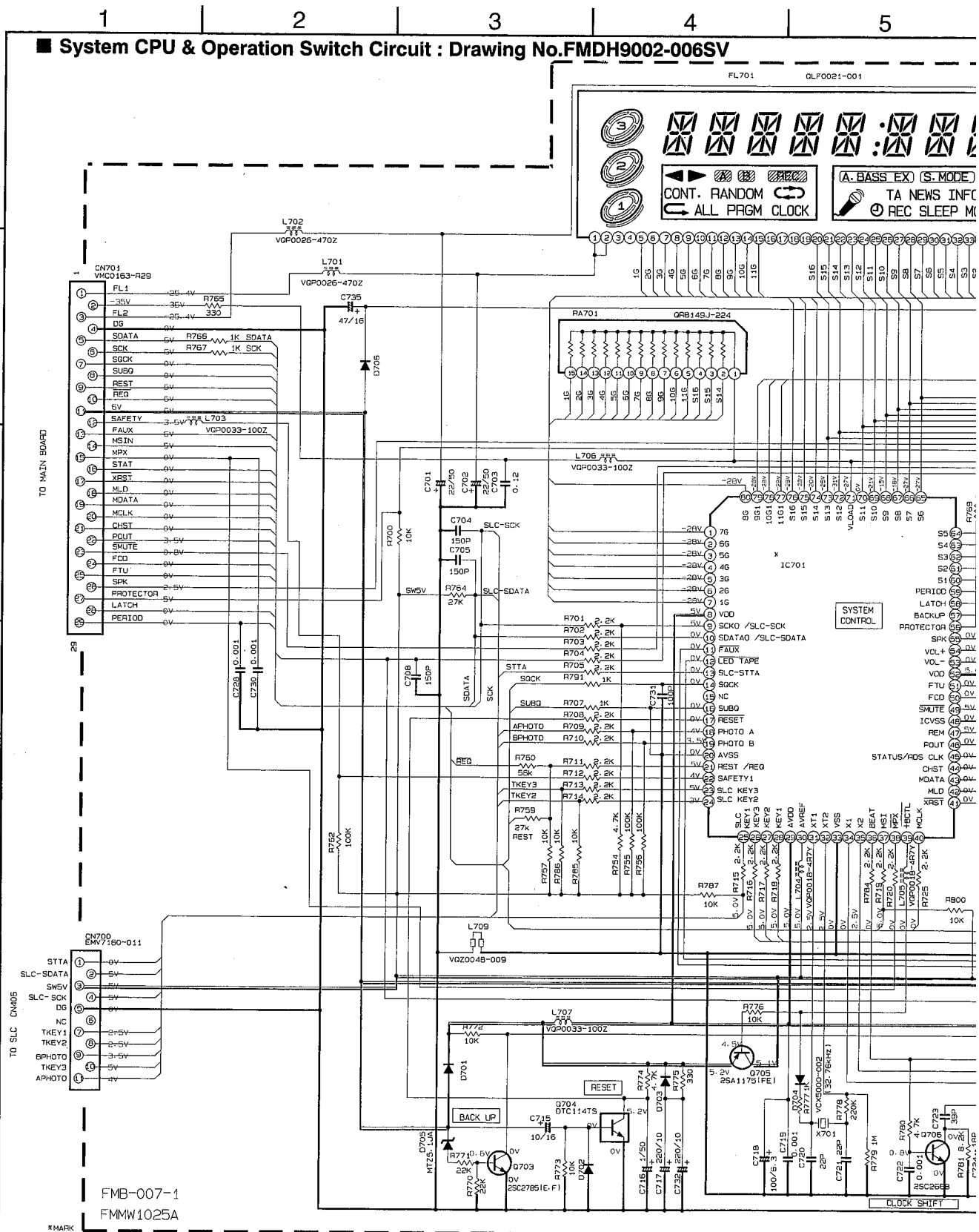
■ System CPU & Operation Switch Circuit : Drawing No.FMDH9002-006SV

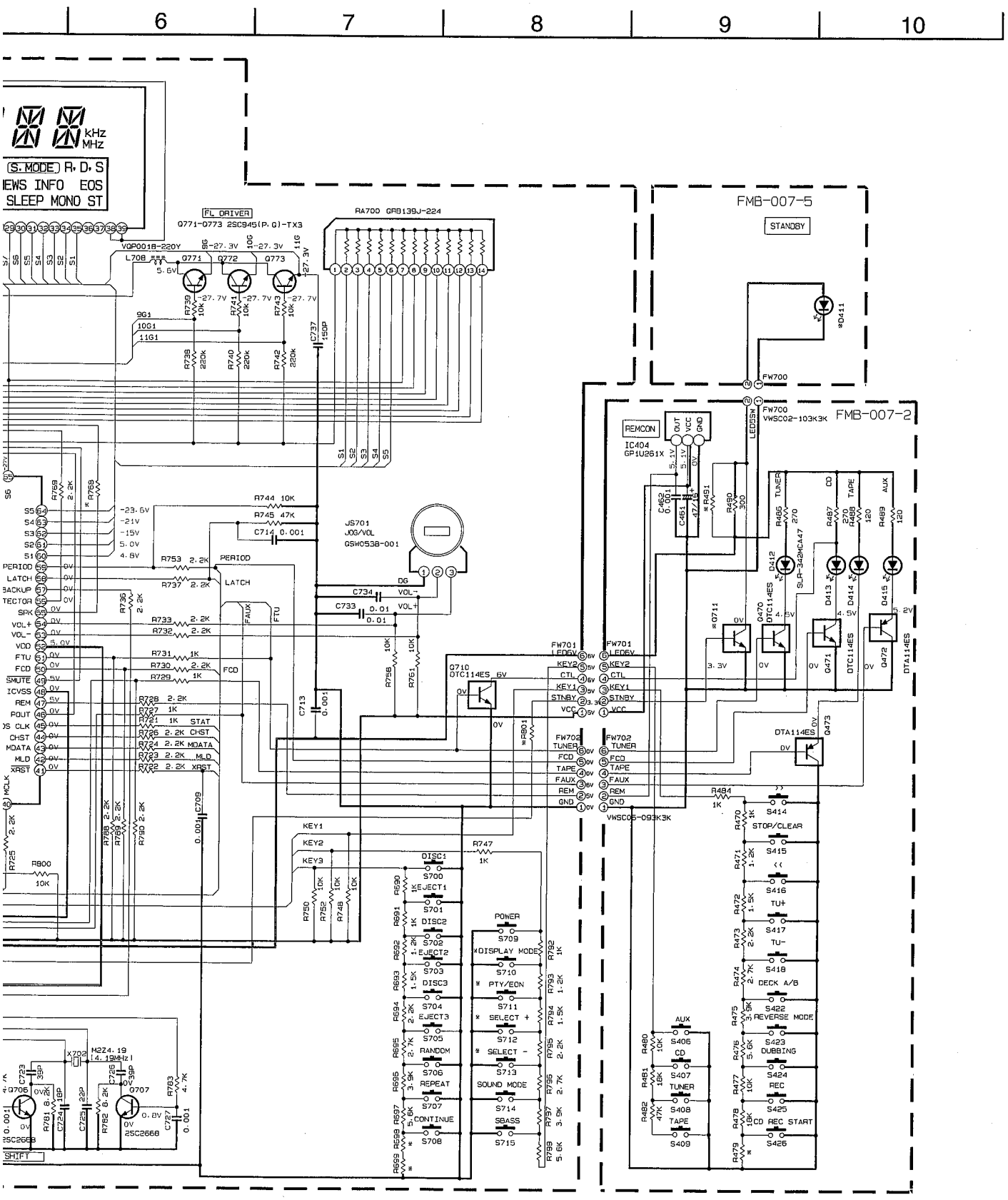


*MARK

MODEL	VERSIONS	R479 19-M	R698 15-L	R699 15-M	S710/711/712/713 16-K	R491 18-F	R801 15-H	Q411 19-C	Q711 18-G	R768 11-F
CA-D301T	J. C	47K	--	---	---	---	8134	SLR-342VCA47	DTC-114ES	2.2K
	U. UB. UP. US. UT.	--	--	---	---	300	47K	SLA-380LT-TB	2SD2144S	56
CA-D401T	UR	--	--	75K	--	300	47K	SLA-380LT-TB	2SD2144S	56
	B. E. EN. G	47K	75K	8129	--	300	47K	SLA-380LT-TB	2SD2144S	2.2K
CA-D501T	A	--	8133	10K	--	300	47K	SLA-380LT-TB	2SD2144S	2.2K
	VX	--	18K	10K	--	300	47K	SLA-380LT-TB	2SD2144S	2.2K
MX-D451TR CA-D551TR	B. E. EN. G	47K	18K	10K	USE	300	47K	SLA-380LT-TB	2SD2144S	2.2K

MODEL	IC701 10-F
MX-D301T U/UB/UP UR/US/UT	UPD78044FGF-067
OTHERS	UPD78044FGF-055

Note : FMDH9002006SV(/s/g)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- TAPE PB MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133

+B Line

■ CD Traverse Mechanism Control Circuit : Drawing No.FMDH9002-006MW

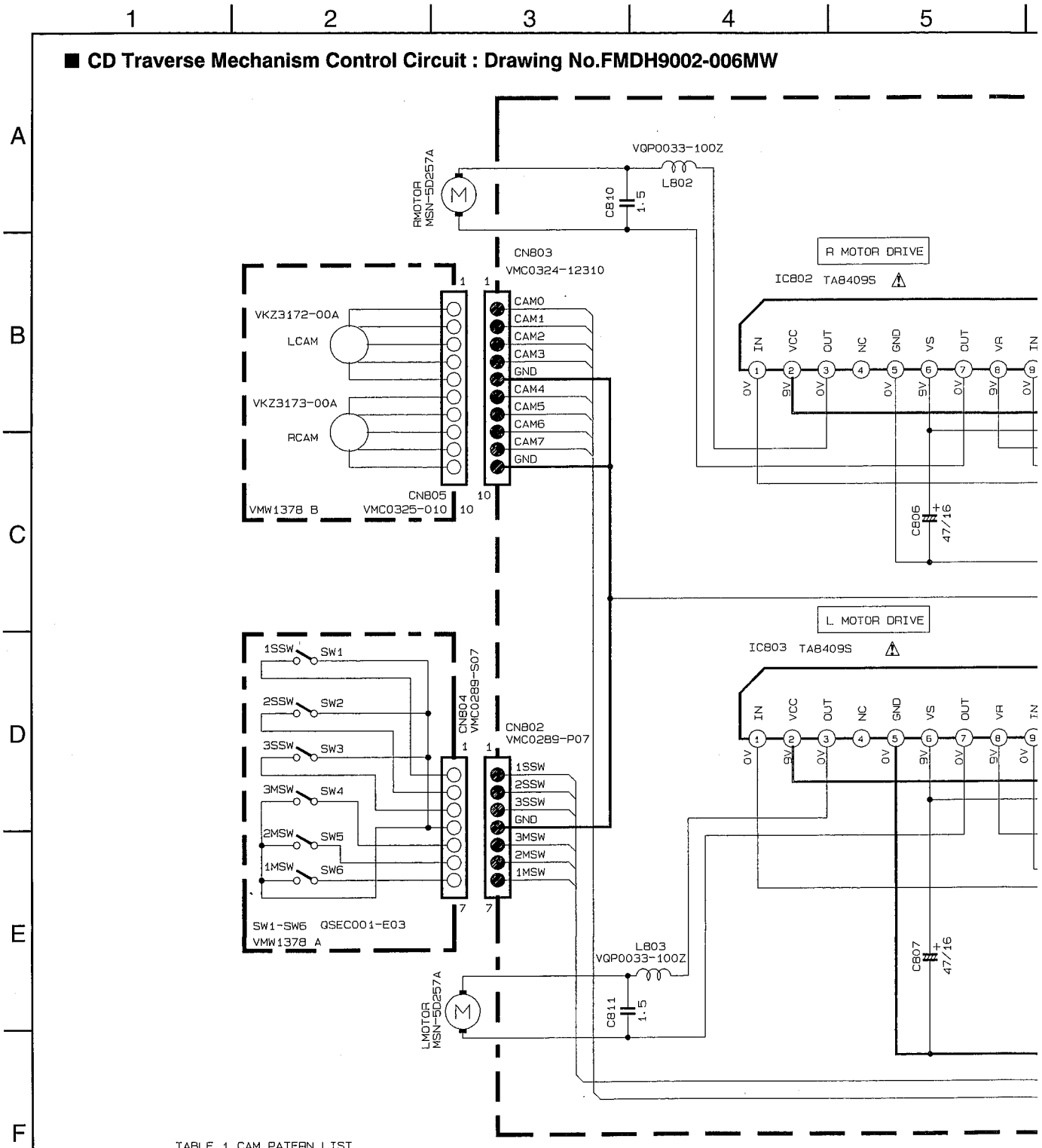


TABLE 1 CAM PATERN LIST

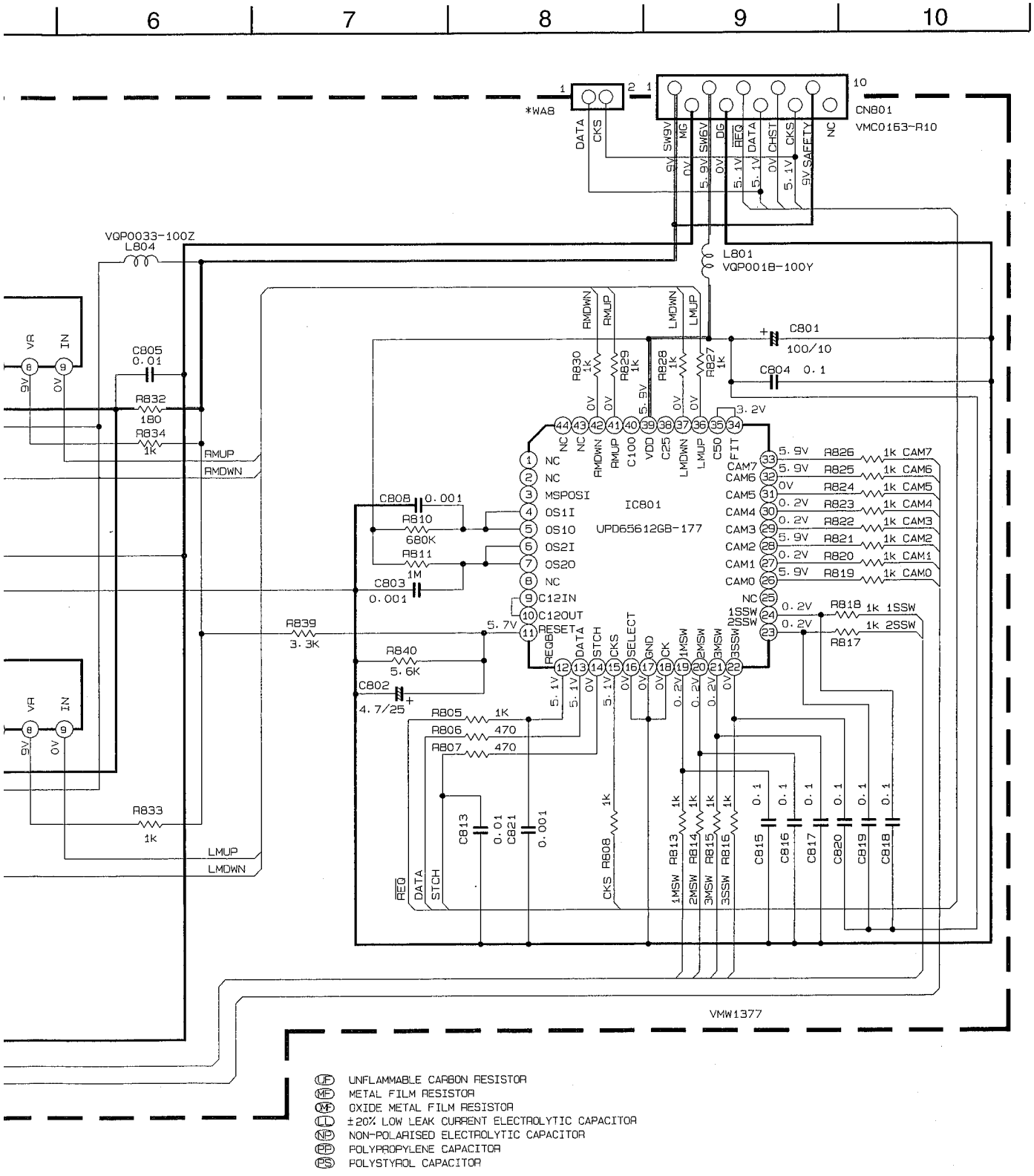
CAM NO. / POSITION	LCAM 0	1	2	3	COM	RCAM 4	5	6	7	POSITION
MAIN TRAY1	0	1	1	1	0	1	1	1	0	EMERGENCY
SUB TRAY1	0	0	1	1	0	1	1	0	0	TRAY1 STAND-BY
CAMR 1	0	1	0	1	0	1	0	1	0	TRAY1 CHACKING
MAIN TRAY2	1	0	0	1	0	1	0	0	1	TRAY2 STAND-BY
SUB TRAY2	1	1	1	0	0	0	1	1	1	TRAY2 CHACKING
CAMR 2	1	0	1	0	0	0	1	0	1	TRAY3 STAND-BY
MAIN TRAY3	1	1	0	0	0	0	0	1	1	TRAY3 CHACKING
SUB TRAY3	1	0	0	0	0					
OFF	1	1	1	1	0	1	1	1	1	OFF

0=0V
1=5V

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- DISC 1 CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM

Note : FMDH9002006MW(/s/g)



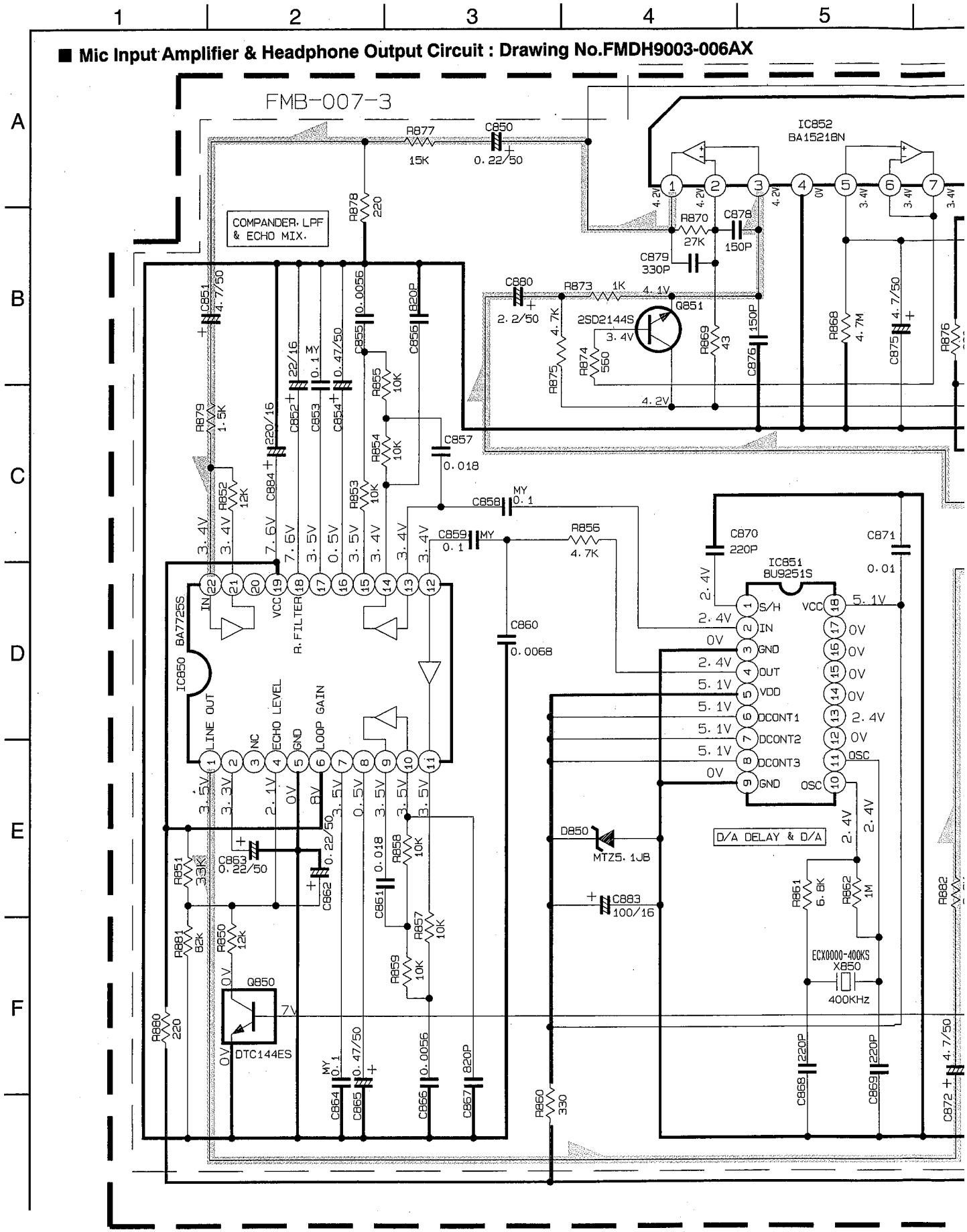
(UF) UNFLAMMABLE CARBON RESISTOR
(MF) METAL FILM RESISTOR
(MO) OXIDE METAL FILM RESISTOR
(LL) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
(NP) NON-POLARISED ELECTROLYTIC CAPACITOR
(PP) POLYPROPYLENE CAPACITOR
(PS) POLYSTYROL CAPACITOR

A DIGITAL VOLT METER
SIGNAL.
MODE

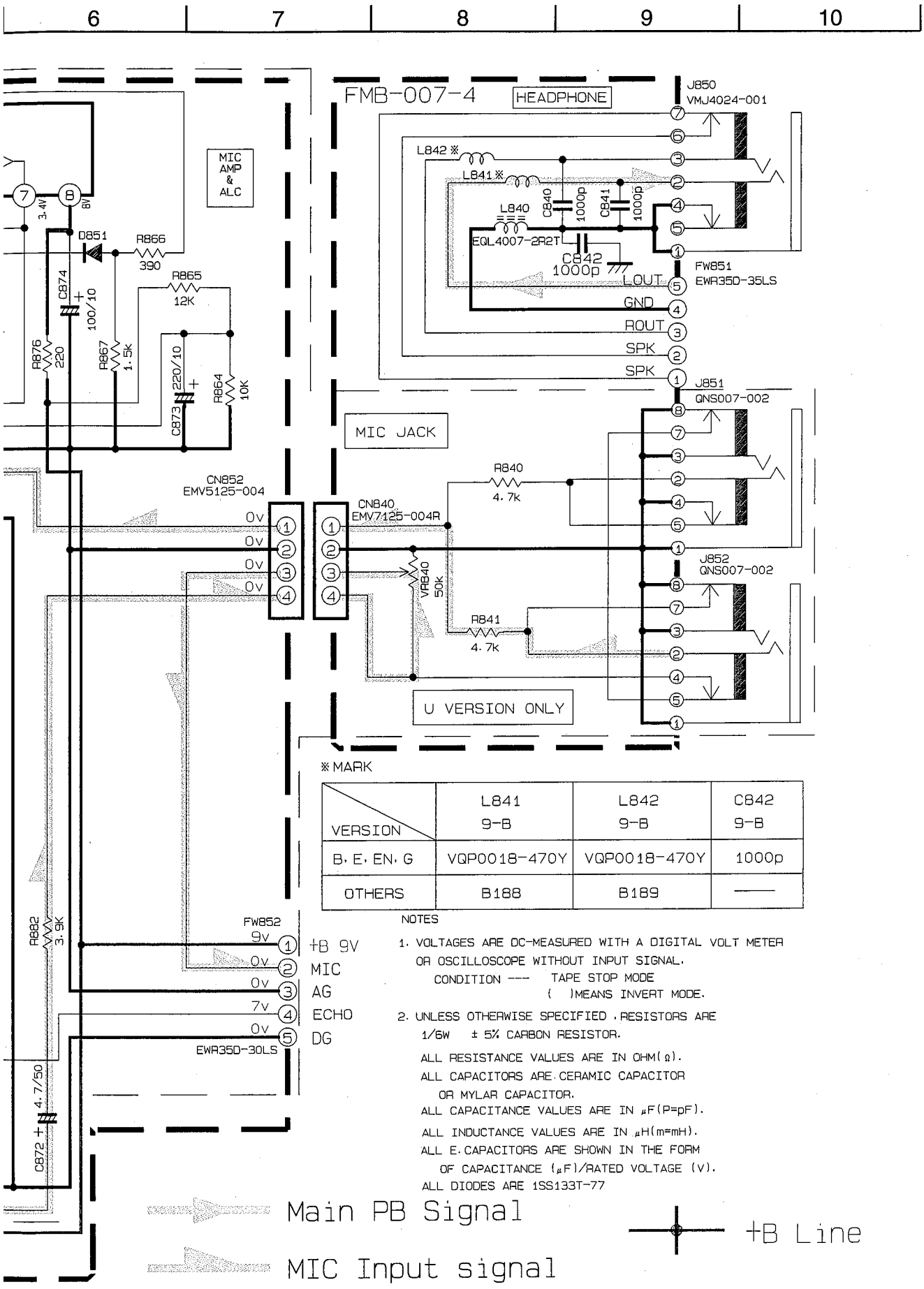
ISTORS ARE 1/6W ±5% CARBON RESISTOR.
OHM(Ω).
PACITOR OR MYLAR CAPACITOR.
μF(P=pF).
μH(m=mH).
THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

+B Line

■ Mic Input Amplifier & Headphone Output Circuit : Drawing No.FMDH9003-006AX



Note : FMDH900306AX(/s/g)



※MARK

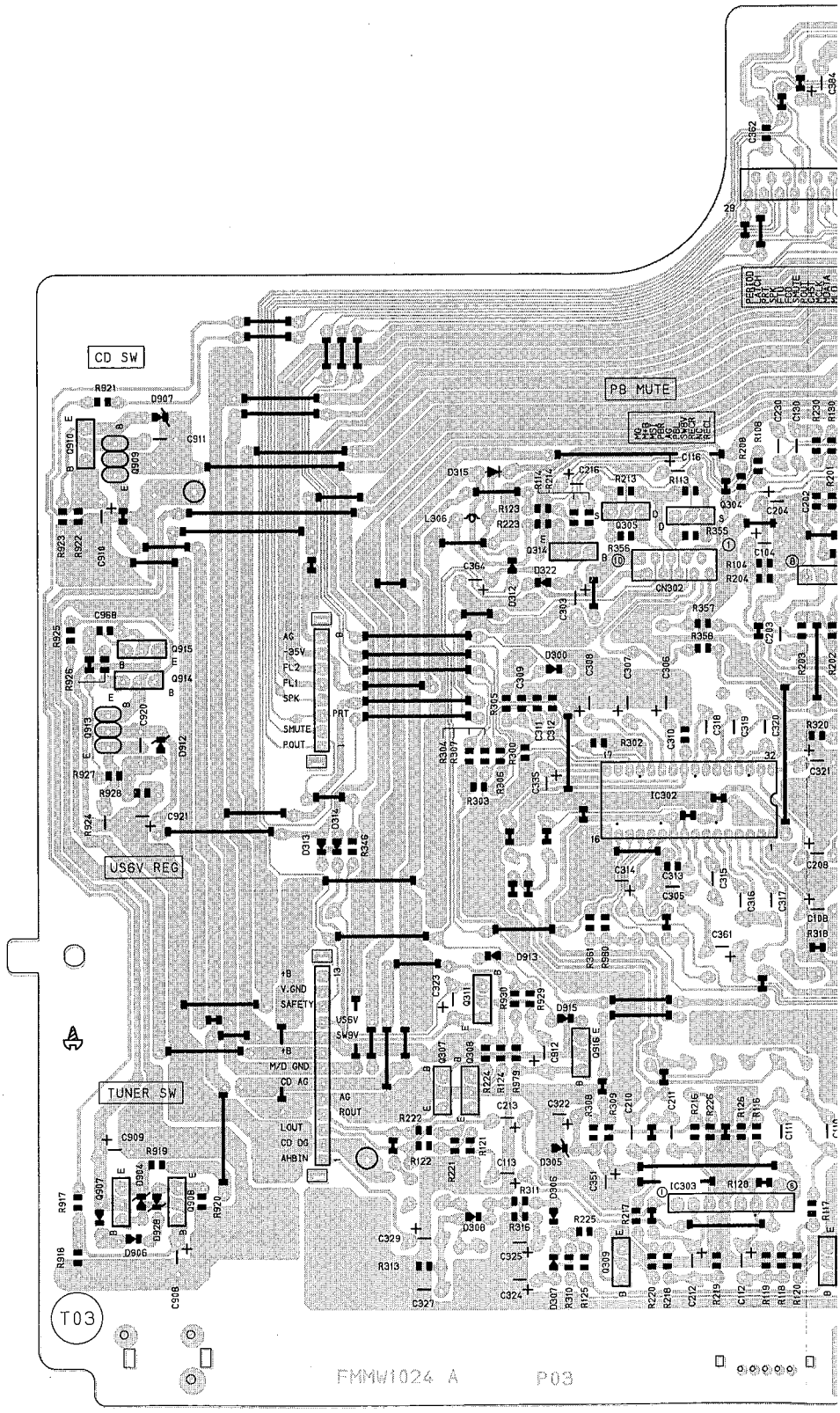
VERSION	L841 9-B	L842 9-B	C842 9-B
B. E. EN. G	VQP0018-470Y	VQP0018-470Y	1000p
OTHERS	B188	B189	——

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- TAPE STOP MODE
   ( )MEANS INVERT MODE.
2. UNLESS OTHERWISE SPECIFIED , RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133T-77

11.Location of P.C.Board Parts

■ **Main Amplifier Board : Block No.** 01



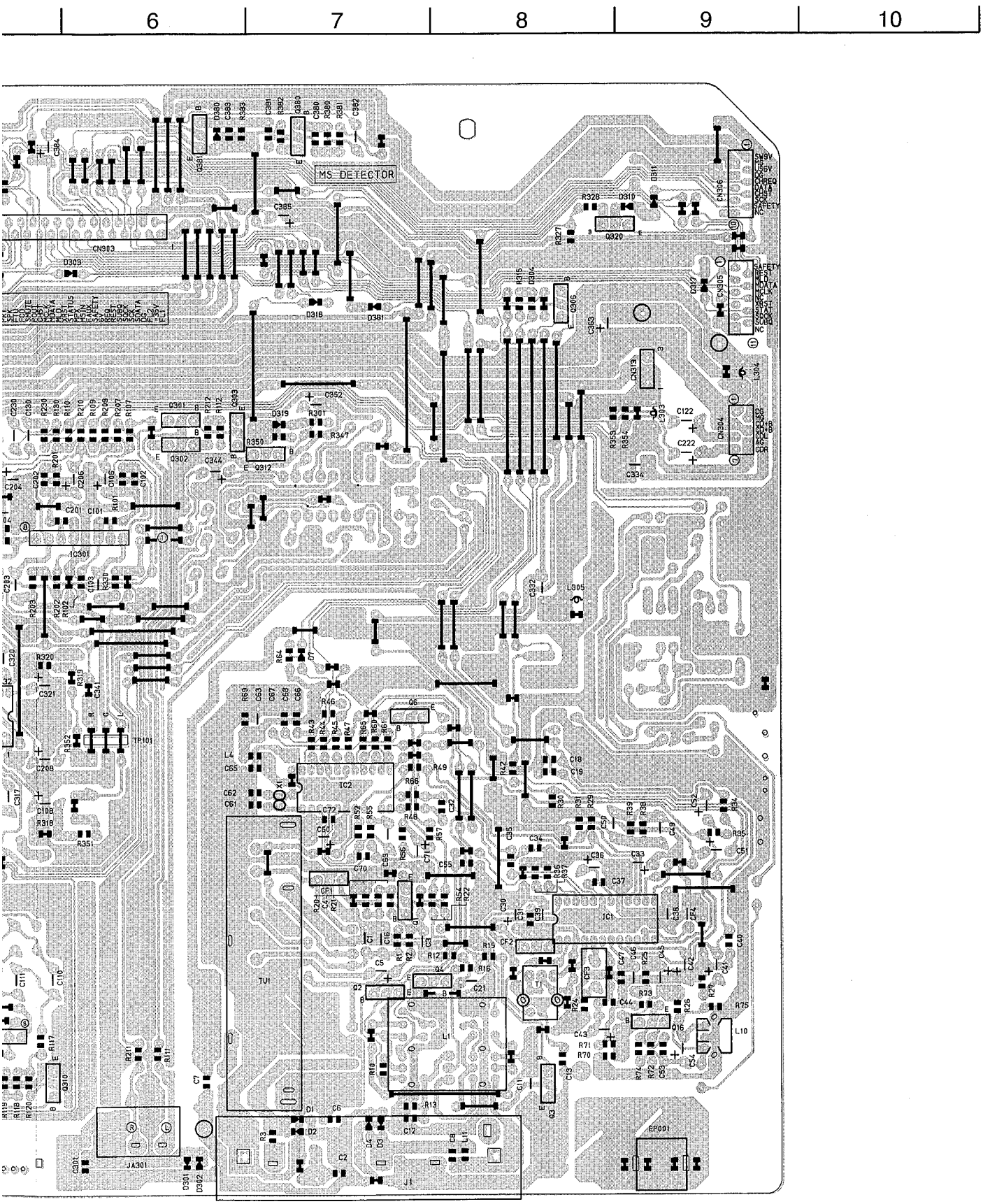
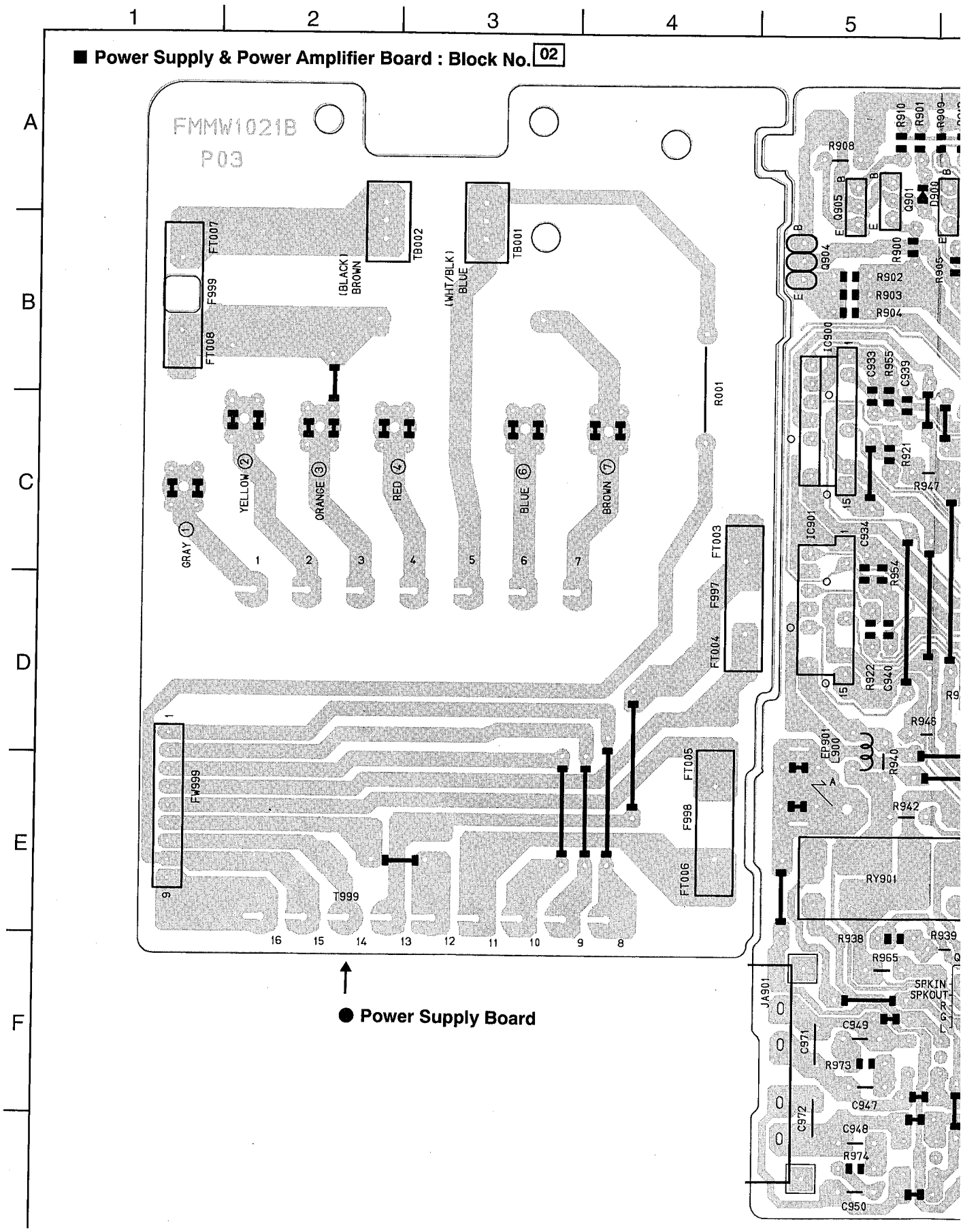


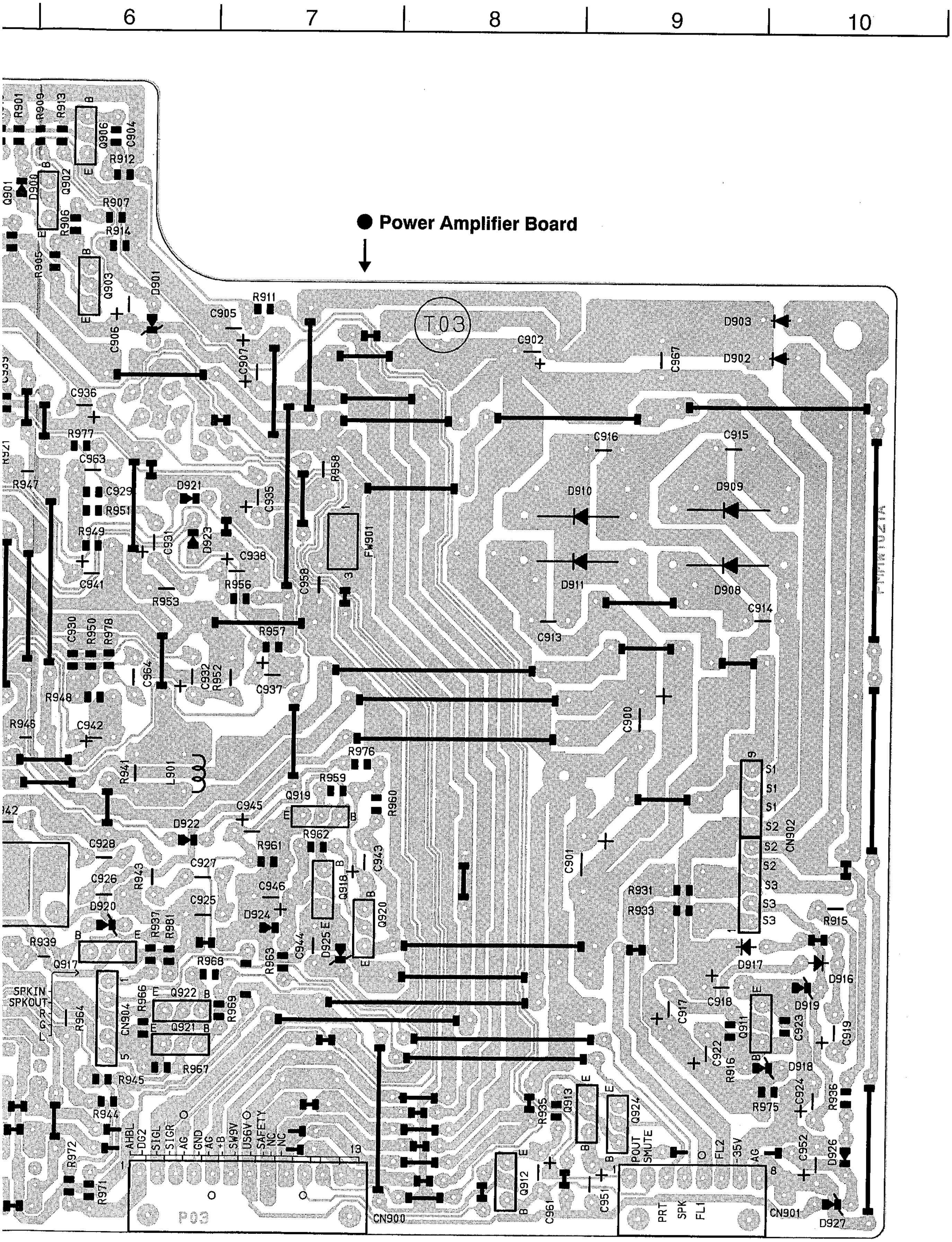
Fig.11-1

■ **Power Supply & Power Amplifier Board : Block No. 02**



● **Power Supply Board**

Fig


6
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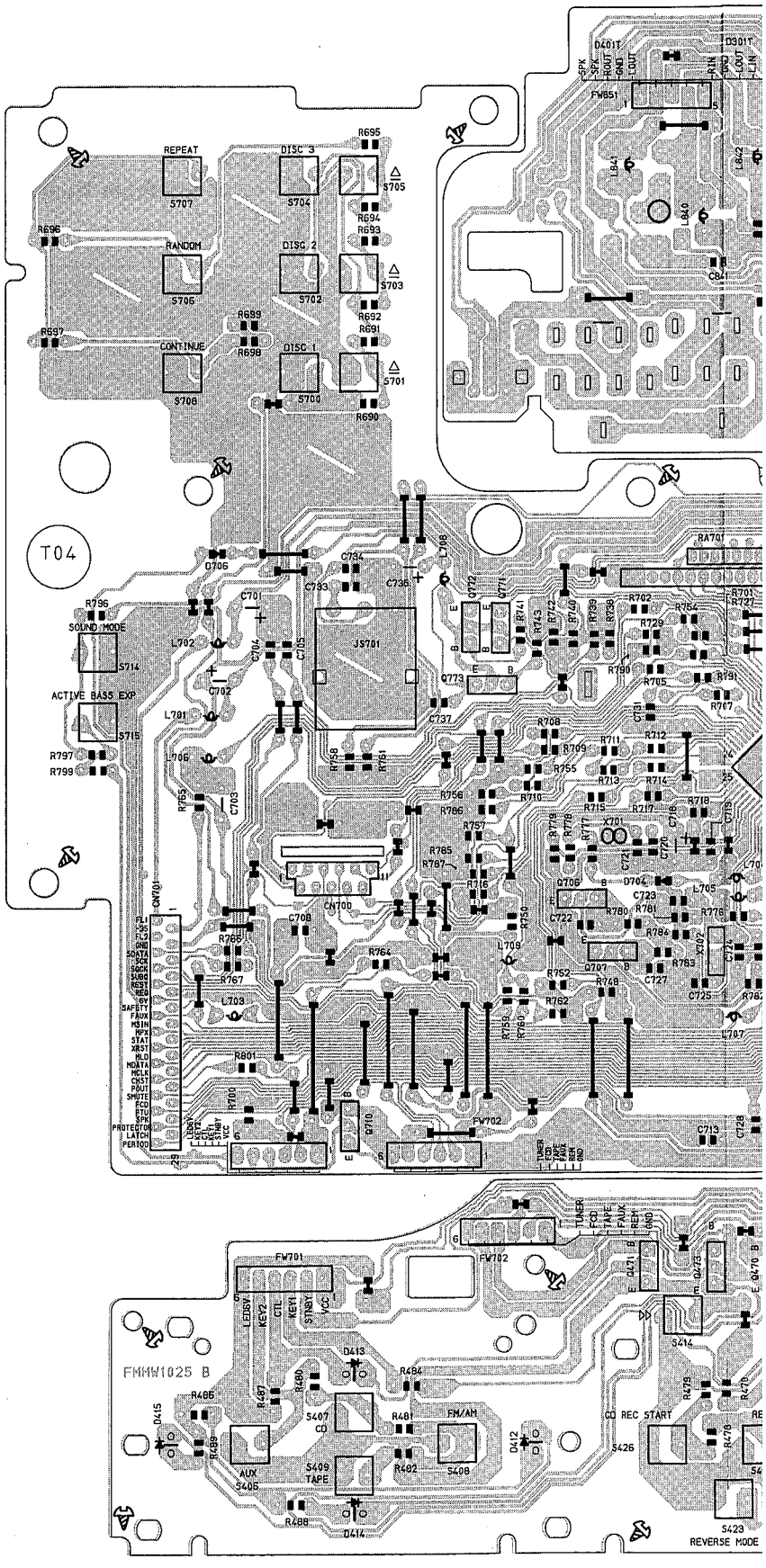
Power Amplifier Board
T03
CN900
CN901
CN902
CN904
P03
FW901
L901

Fig.11-2

■ System CPU & Operation Switch Board : Block No. 03

● System CPU Board →



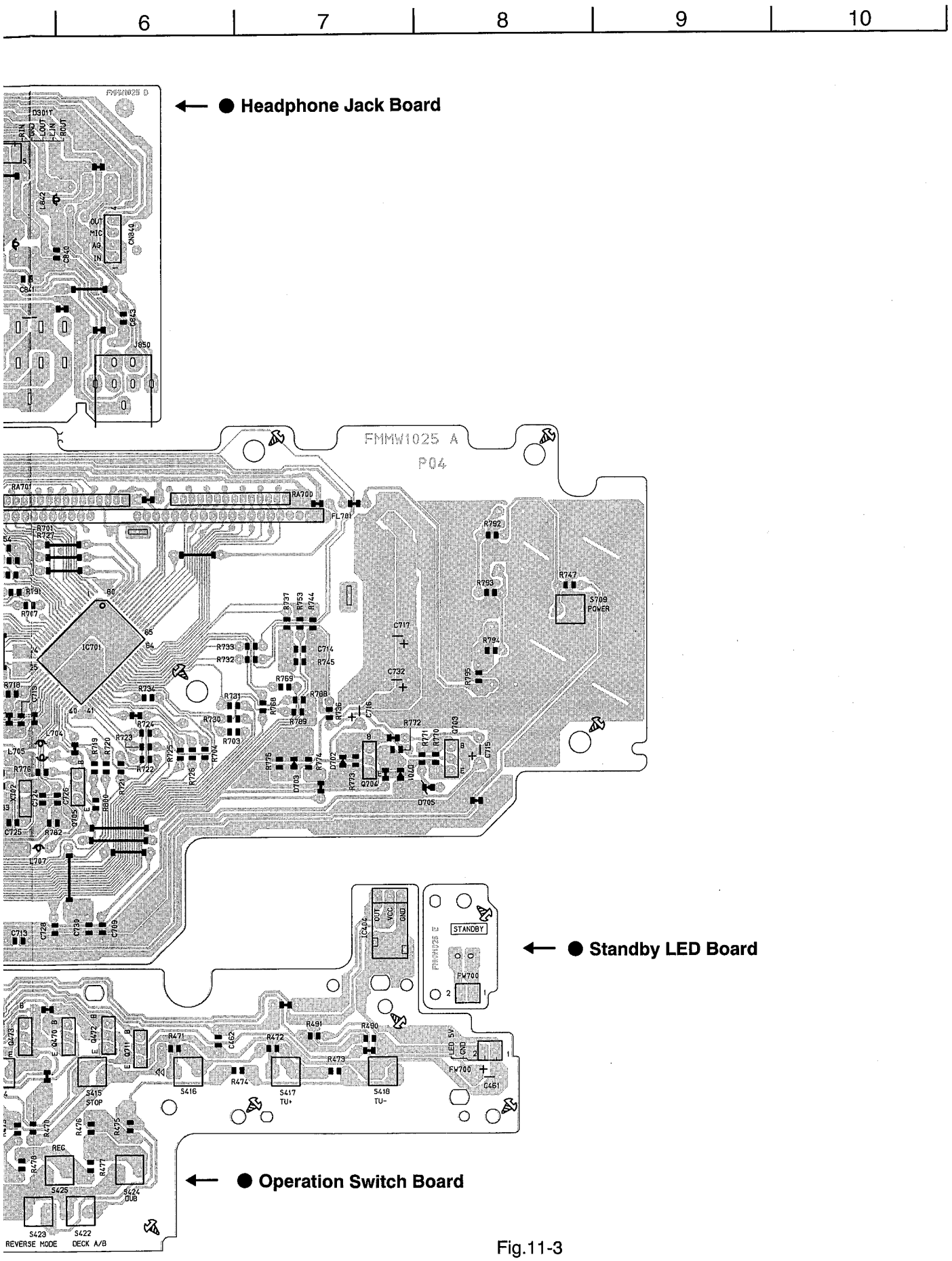

6
7
8
9
10
● Headphone Jack Board
FMMW1025 A
P04
● Standby LED Board
● Operation Switch Board
IC701
S709
POWER
S415
STOP
S416
S417
TU+
S418
TU-
S423
REVERSE MODE
S422
DECK A/B
S424
DUB
S425
REC
STANDBY

Fig.11-3

■ Main Amplifier Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 2	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
	C 3	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 4	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 5	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 6	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 7	QCFB1HZ-104Y	C.CAPACITOR	.10MF +80:-20%	
	C 8	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 11	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 12	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 13	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 16	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 17	QCBB1HK-102Y	C.CAPACITOR	.010MF 20% 16V	
	C 18	QCBB1HK-471Y	C.CAPACITOR	C.CAPACITOR	
	C 19	QCBB1HK-471Y	C.CAPACITOR	C.CAPACITOR	
	C 21	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 31	QCS31HJ-390Z	C.CAPACITOR	39PF 5% 50V	
	C 32	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 34	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 35	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 37	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 38	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 39	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 40	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 41	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 42	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 43	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 44	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C 45	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 46	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 47	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 49	QFLC1HJ-183ZM	M CAPACITOR	.018MF 5% 50V	
	C 50	QFLC1HJ-183ZM	M CAPACITOR	.018MF 5% 50V	
	C 51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 53	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 54	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 55	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 60	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 61	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 62	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 63	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 65	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 66	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 68	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 69	QFV41HJ-105	TF.CAPACITOR	1.0MF 5% 50V	
	C 70	QCXB1CM-392Y	C.CAPACITOR	3900PF 20% 16V	
	C 71	QET41CM-476	E CAPACITOR	47MF 20% 16V	
	C 72	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 80	QCBB1HK-820Y	C CAPACITOR	82PF 10% 50V	
	C 81	QCSB1HJ-470	C CAPACITOR	47PF 5% 50V	
	C 82	EETC1CM-106ZJC	E CAPACITOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 83	QCC31EM-473ZV	C CAPACITOR	.047MF 20% 25V	
	C 84	QETC1HM-225ZM	E CAPACITOR	2.2MF 20% 50V	
	C 85	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 86	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C 89	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 90	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 101	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 102	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 103	QFV71HJ-474ZM	E CAPACITOR	.47MF 5% 50V	
	C 104	EETB1CM-226E	E.CAPACITOR		
	C 106	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 108	QTE1V06-106Z	E.CAPACITOR		
	C 110	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V	
	C 111	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V	
	C 112	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 113	QTE1V06-106Z	E.CAPACITOR		
	C 115	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 116	QETC1HM-106ZN	E.CAPACITOR	10MF 20% 50V	
	C 122	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 130	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 201	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 202	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 203	QFV41HJ-224ZM	E CAPACITOR	.22MF 5% 50V	
	C 204	EETB1CM-226E	E.CAPACITOR		
	C 206	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 208	QTE1V06-106Z	E.CAPACITOR		
	C 210	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V	
	C 211	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V	
	C 212	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 213	QTE1V06-106Z	E.CAPACITOR		
	C 215	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 216	QETC1HM-106ZN	E.CAPACITOR	10MF 20% 50V	
	C 222	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 230	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 301	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 303	QETC1HM-225ZN	E.CAPACITOR	1.2MF 20% 50V	
	C 305	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 306	EETB1HM-475E	E.CAPACITOR		
	C 307	EETB1HM-475E	E.CAPACITOR		
	C 308	EETB1CM-226E	E.CAPACITOR		
	C 309	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 310	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 311	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 312	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 313	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 314	QETC1HM-224Z	E.CAPACITOR	.22MF 20% 50V	
	C 315	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
	C 316	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
	C 317	QFLC1HJ-473ZM	M CAPACITOR	.047MF 5% 50V	
	C 318	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
	C 319	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
	C 320	QFLC1HJ-473ZM	M CAPACITOR	.047MF 5% 50V	
	C 321	EETB1EM-106E	E.CAPACITOR		
	C 322	EETB1AM-476E	E.CAPACITOR		
	C 323	QET41EM-106	E CAPACITOR	10MF 20% 25V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 324	EETC1CM-106ZJC	E.CAPACITOR		
	C 325	EETB1HM-105E	E.CAPACITOR		
	C 327	QFV71HJ-184ZM	M.M.CAPACITOR	.18MF 5% 50V	
	C 329	QETB1HM-474N	E.CAPACITOR	.47MF 20% 50V	
	C 332	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
	C 334	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 335	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 351	EETB1CM-476	E.CAPACITOR		
	C 352	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C 362	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 363	QET41AM-108	E CAPACITOR	1000MF 20% 10V	
	C 364	QET41AM-108	E CAPACITOR	1000MF 20% 10V	
	C 380	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 381	QCXB1CM-182Y	C.CAPACITOR	1800PF 20% 16V	
	C 382	QFLC1HJ-153ZM	M CAPACITOR	.015MF 5% 50V	
	C 383	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	C 384	EETB1HM-105E	E.CAPACITOR		
	C 385	QETC1HM-476ZM	E.CAPACITOR	47MF 20% 50V	
	C 908	EETB1HM-475E	E.CAPACITOR		
	C 909	EETB1CM-226E	E.CAPACITOR		
	C 910	EETC1CM-106ZJC	E.CAPACITOR		
	C 911	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
	C 912	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 920	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
	C 921	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 968	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	CF 1	VCF2M3B-104	CERAMIC FILTER		
	CF 2	VCF2S3B-101	CERAMIC FILTER		
	CF 3	VCF1Z2Z-115Z	CERAMIC FILTER		
	CF 4	CMU2-456A05	CERA LOCK		
	CN302	VMC0332-010V	CONNECTOR		
	CN303	VMC0163-029	CONNECTOR		
	CN304	VMC0332-007V	CONNECTOR		
	CN305	VMC0332-011V	CONNECTOR		
	CN306	VMC0332-010V	CONNECTOR		
	CN307	EMV5125-008	CONNECTOR		
	CN308	EMV5125-013	CONNECTOR		
	CN313	EMV7145-003Z	CONNECTOR		
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 3	1SS133	SI DIODE		
	D 4	1SS133	SI DIODE		
	D 7	1SS133	SI DIODE		
	D 300	RB721Q	DIODE		
	D 301	1SS133	SI DIODE		
	D 302	1SS133	SI DIODE		
	D 303	RB721Q	DIODE		
	D 304	1SS133	SI DIODE		
	D 305	MTZ5.1JAT-77	ZENER DIODE		
	D 306	1SS133	SI DIODE		
	D 307	1SS133	SI DIODE		
	D 308	1SS133	SI DIODE		
	D 310	1SS133	SI DIODE		
	D 311	1SS133	SI DIODE		
	D 312	1SS133	SI DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 313	1SS133	SI DIODE		
	D 314	1SS133	SI DIODE		
	D 315	1SR35-100	SI DIODE		
	D 316	RB721Q	DIODE		
	D 317	RB721Q	DIODE		
	D 318	1SS133	SI DIODE		
	D 319	1SS133	SI DIODE		
	D 322	1SS133	SI DIODE		
	D 380	1SS133	SI DIODE		
	D 381	RB721Q	DIODE		
	D 382	RB721Q	DIODE		
	D 904	MTZ4.3JB	ZENER DIODE		
	D 905	1SS133	SI DIODE		
	D 906	1SS133	SI DIODE		
	D 907	MTZ3.9JB	ZENER DIODE		
	D 912	RD5.6JSAB1	ZENER DIODE		
	D 913	1SS133	SI DIODE		
	D 915	1SS133	SI DIODE		
	D 928	MTZ2.4JB	ZENER DIODE		
	EP001	E409182-001SM	GRAND TERMINAL		
	IC 1	TA2057N	IC		
	IC 2	LC72136N	IC		
	IC 4	SAA6579	IC		
	IC301	NJM4580L	IC		
	IC302	BH3854AS	IC		
	IC303	NJM4580L	IC		
	J 1	EMB41YV-302K	ANT TERMINAL		
	JA301	EMN00TV-222AJ2	PIN JACK		
	L 1	VQZ0098-101	COIL BLOCK		
	L 4	VQP0018-221	INDUCTOR		
	L 5	VQP0018-101	INDUCTOR		
	L 10	VQZ0069-002S	TRAP COIL		
	L 11	VQP0018-2R7	INDUCTOR		
	L 302	VQZ0048-009	INDUCTOR		
	L 303	VQZ0048-009	INDUCTOR		
	L 304	VQZ0048-009	INDUCTOR		
	L 305	VQZ0048-009	INDUCTOR		
	L 306	VQP0028-100Z	INDUCTOR		
	PP301	VMZ0015-005	POST PIN		
	PP302	VMZ0015-005	POST PIN		
	Q 1	2SC1923	TRANSISTOR		
	Q 2	DTA114YS	TRANSISTOR		
	Q 3	2SC2785	TRANSISTOR		
	Q 4	2SC2785	TRANSISTOR		
	Q 6	DTA114YS	TRANSISTOR		
	Q 14	2SA1175	TRANSISTOR		
	Q 16	2SC2785	TRANSISTOR		
	Q 301	2SD2144S(VW)	TRANSISTOR		
	Q 302	2SD2144S(VW)	TRANSISTOR		
	Q 303	DTA114YS	TRANSISTOR		
	Q 304	2SK246(GR/BL)	FET		
	Q 305	2SK246(GR/BL)	FET		
	Q 306	DTC144TSTP	TRANSISTOR		
	Q 307	2SD2144S(VW)	TRANSISTOR		
	Q 308	2SD2144S(VW)	TRANSISTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 309	2SC2785	TRANSISTOR		
	Q 310	2SC2785	TRANSISTOR		
	Q 311	DTA114ES	TRANSISTOR		
	Q 312	2SC2785	TRANSISTOR		
	Q 314	DTA144ES	D.TRANSISTOR		
	Q 320	DTC144TSTP	TRANSISTOR		
	Q 380	2SC2785	TRANSISTOR		
	Q 381	2SC2785	TRANSISTOR		
	Q 907	2SA1175	TRANSISTOR		
	Q 908	2SC2785	TRANSISTOR		
	Q 909	2SB1375	TRANSISTOR		
	Q 910	2SC2785	TRANSISTOR		
	Q 913	2SB1375	TRANSISTOR		
	Q 914	2SC2785	TRANSISTOR		
	Q 915	2SC2785	TRANSISTOR		
	Q 916	2SC2785	TRANSISTOR		
	R 1	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 2	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	R 3	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 10	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 12	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 13	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 15	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 16	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 20	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 21	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 22	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 24	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 25	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 26	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 27	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 29	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 30	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 31	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 34	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 35	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 36	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 37	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 38	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 39	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 42	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 43	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 44	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 45	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 46	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 47	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 48	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 49	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 52	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 54	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 55	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 56	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 57	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 60	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 61	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 64	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 65	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 66	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 69	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 70	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 71	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 72	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 73	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 74	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 75	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 76	QRD161J-102	C RESISTOR	1.0K 5% 1/6W	
	R 80	QRD161J-222	C RESISTOR	2.2K 5% 1/6W	
	R 82	QRD161J-102	C RESISTOR	1.0K 5% 1/6W	
	R 83	QRD161J-102	C RESISTOR	1.0K 5% 1/6W	
	R 84	QRD161J-103	C RESISTOR	10K 5% 1/6W	
	R 91	QRD161J-103	C RESISTOR	10K 5% 1/6W	
	R 101	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
	R 102	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 103	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 104	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 107	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 108	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
	R 109	QRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
	R 110	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 111	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 112	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 113	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 114	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 116	QRD161J-124	CARBON RESISTOR	100K 5% 1/6W	
	R 117	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 118	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 119	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 120	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 121	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 122	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 123	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R 124	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 125	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 130	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 201	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
	R 202	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 203	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 204	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 207	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 208	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
	R 209	QRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
	R 210	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 211	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 212	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 213	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 214	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 216	QRD161J-124	CARBON RESISTOR	100K 5% 1/6W	
	R 217	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 218	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 219	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 220	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 221	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 222	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 223	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 224	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 225	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 230	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 300	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 301	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 302	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 303	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 304	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 305	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 306	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 307	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 308	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 309	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 310	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 311	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 313	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
	R 315	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 316	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R 318	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 320	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 327	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 328	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 347	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 348	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 349	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 350	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 353	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 354	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 355	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 356	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 357	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 358	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 361	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 380	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
	R 381	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 382	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 383	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 917	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 918	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 919	QRD161J-390	CARBON RESISTOR	39 5% 1/6W	
	R 920	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 921	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 922	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 923	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 924	QRZ0077-220X	F.RESISTOR	22 1/0W	
	R 925	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 926	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 927	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 928	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 929	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 930	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 979	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 980	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	T 1	VQT7A21-111	IFT		
	TU 1	VAF2S13-001	FRONT END		
	X 1	VCX5044-001	CRYSTAL		
	X 2	VCX5057-001	CRYSTAL		

■ Power Supply & Power Amplifier Board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 900	QETM1HM-228	E CAPACITOR	2200MF 20% 50V	
	C 901	QETM1HM-228	E CAPACITOR	2200MF 20% 50V	
	C 902	QETM1EM-228	E CAPASITOR	2200MF 20% 25V	
	C 904	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C 905	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C 906	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 907	QET41CM-226	E CAPACITOR	22MF 20% 16V	
	C 913	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
	C 914	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
	C 915	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
	C 916	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
	C 917	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C 918	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 919	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
	C 922	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 923	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 924	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C 925	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 926	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 927	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 928	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 929	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 930	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 931	QET41HM-476	E CAPACITOR	47MF 20% 50V	
	C 932	QET41HM-476	E CAPACITOR	47MF 20% 50V	
	C 933	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 934	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 935	QTE1V06-106Z	E.CAPACITOR		
	C 936	QTE1V06-106Z	E.CAPACITOR		
	C 937	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 938	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 939	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 940	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 941	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 942	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 943	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 944	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 945	QET41CM-476	E CAPACITOR	47MF 20% 16V	
	C 946	QET41CM-226	E CAPACITOR	22MF 20% 16V	
	C 947	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 948	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 949	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 950	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 951	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 958	QCF11HP-223	C.CAPACITOR	.022MF +100:-0%	
	C 961	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 963	QFLC1HJ-153ZM	M CAPACITOR	.015MF 5% 50V	
	C 964	QFLC1HJ-153ZM	M CAPACITOR	.022MF 5% 50V	
	C 967	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 971	QCY31HK-272Z	C.CAPACITOR	2700PF 10% 50V	
	C 972	QCY31HK-272Z	C.CAPACITOR	2700PF 10% 50V	
	CN900	EMV7125-013R	CONNECTOR		
	CN901	EMV7125-008R	CONNECTOR		
	CN903	EMV7145-004Z	CONNECTOR		
	CN904	EMV7145-005Z	CONNECTOR		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN905	EMV7145-005Z	CONNECTOR		
	D 900	1SS133	DIODE		
	D 901	MTZ9.1JA	ZENER DIODE		
	D 902	1SR35-100	SI.DIODE		
	D 903	1SR35-100	SI.DIODE		
	D 908	1N5401TM	SI.DIODE		
	D 909	1N5401TM	SI.DIODE		
	D 910	1N5401TM	SI.DIODE		
	D 911	1N5401TM	SI.DIODE		
	D 916	1SR139-200	DIODE		
	D 917	1SR139-200	DIODE		
	D 918	MTZ33JC	ZENER DIODE		
	D 919	MTZ6.2JAT-77	ZENER DIODE		
	D 920	MTZ24JC	ZENER DIODE		
	D 921	1SS133	DIODE		
	D 922	1SS133	DIODE		
	D 923	1SS133	DIODE		
	D 924	1SS133	DIODE		
	D 926	1SS133	DIODE		
	D 927	MTZ5.1JC	ZENER DIODE		
	EP901	E409182-001SM	GRAND TERMINAL		
	FT003	EMG7331-003Z	FUSE CLIP		
	FT004	EMG7331-003Z	FUSE CLIP		
	FT005	EMG7331-003Z	FUSE CLIP		
	FT006	EMG7331-003Z	FUSE CLIP		
	FT007	EMG7331-003Z	FUSE CLIP		
	FT008	EMG7331-003Z	FUSE CLIP		
	FW999	EWR39D-25LS	CORD		
	IC900	TDA7295	IC		
	IC901	TDA7295	IC		
	JA901	FMMJ4003-001	TERMINAL		
	L 900	EQL0011-R45J1	INDUCTOR		
	L 901	EQL0011-R45J1	INDUCTOR		
	L 942	VQZ0104-003	INDUCTOR		
	L 971	VQZ0104-003	INDUCTOR		
	Q 901	2SA1175	TRANSISTOR		
	Q 902	DTC144TSTP	TRANSISTOR		
	Q 903	DTA144TSTP	TRANSISTOR		
	Q 904	2SB1375	TRANSISTOR		
	Q 905	2SC2785	TRANSISTOR		
	Q 906	2SC2785	TRANSISTOR		
	Q 911	2SA934(Q,R)	TRANSISTOR		
	Q 912	DTA114ES	TRANSISTOR		
	Q 917	2SC945A	TRANSISTOR		
	Q 918	2SC945A	TRANSISTOR		
	Q 919	2SA933S(RS)	TRANSISTOR		
	Q 920	2SC945A	TRANSISTOR		
	Q 921	2SD2144S(VW)	TRANSISTOR		
	Q 922	2SD2144S(VW)	TRANSISTOR		
	Q 923	DTC114YSTP	TRANSISTOR		
	Q 924	DTC114YSTP	TRANSISTOR		
	R 900	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 901	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 902	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
	R 903	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 904	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
	R 905	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 906	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 907	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 908	QRZ0077-151X	F.RESISTOR	150 1/0W	
	R 909	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 910	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 911	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 912	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 913	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 914	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 915	QRZ0077-100X	FUSE RESISTOR	10 1/0W	
	R 916	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 931	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
	R 933	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
	R 935	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 936	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 937	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 938	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	R 939	QRG01DJ-471X	OMF RESISTOR	470 5% 1/1W	
	R 940	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
	R 941	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
	R 942	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
	R 943	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
	R 944	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 945	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 946	QRX014J-R22	UNF.MF.RESISTOR	5% 1/1W	
	R 947	QRX014J-R22	UNF.MF.RESISTOR	5% 1/1W	
	R 948	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 949	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 950	QRD161J-823	CARBON RESISTOR	100K 5% 1/6W	
	R 951	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 952	QRD141J-561	UNF.C.RESISTOR	560 5% 1/4W	
	R 953	QRD141J-561	UNF.C.RESISTOR	560 5% 1/4W	
	R 954	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 955	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 956	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 957	QRD161J-102	CARBON RESISTOR	10K 5% 1/6W	
	R 958	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	
	R 959	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 960	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 961	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 962	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 963	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 964	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 965	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 966	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 967	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 968	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 969	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 971	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 972	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 973	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 974	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 975	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 976	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 977	QRD161J-104	CARBON RESISTOR	82K 5% 1/6W	
	R 978	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RY901	ESK7D24-213R	RELAY		
	TB001	EMZ4001-002Z	TAB		
	TB002	EMZ4001-002Z	TAB		

■ System CPU & Operation Switch Board

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 461	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 462	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 701	QEK51HM-226	E.CAPACITOR	22MF 20% 50V	
	C 702	QEK51HM-226	E.CAPACITOR	22MF 20% 50V	
	C 703	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V	
	C 704	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 705	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 708	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 709	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 713	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 714	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 715	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 716	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 717	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
	C 718	QEK60JM-107ZM	E.CAPACITOR	100MF 20% 6.3V	
	C 719	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 720	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	C 721	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	C 722	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 723	QCS31HJ-390Z	C.CAPACITOR	39PF 5% 50V	
	C 724	QCS11HJ-180	C.CAPACITOR	18PF 5% 50V	
	C 725	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	C 726	QCS31HJ-390Z	C.CAPACITOR	39PF 5% 50V	
	C 727	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 728	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 730	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 731	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 732	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
	C 733	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 734	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 735	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 737	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 840	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 841	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 842	QCGB1HK-102	C.CAPACITOR	1000PF 10% 50V	
	CN700	EMV7160-011	CONNECTOR		
	CN701	VMC0163-R29	CONNECTOR		
	D 411	SLA-380LT	LED		
	D 412	SLR-342MCA47	LED		
	D 413	SLR-342MCA47	LED		
	D 414	SLR-342MCA47	LED		
	D 415	SLR-342MCA47	LED		
	D 701	1SS133	SI DIODE		
	D 702	1SS133	SI DIODE		
	D 703	1SS133	SI DIODE		
	D 704	1SS133	SI DIODE		
	D 705	MTZ5.1JAT-77	ZENER DIODE		
	D 706	1SS133	SI DIODE		
	FL701	QLF0021-001	FL TUBE		
	FW700	VWSC02-103K3K	TM FLAT		
	FW701	VWSC06-093K3K	EF FLAT WIRE		
	FW702	VWSC06-093K3K	EF FLAT WIRE		
	IC404	GP1U261X	IR DETECT UNIT		
	IC701	UPD78044FGF-055	IC		
	J 850	VMJ4024-001	JACK	HEAD PHONE	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	JS701	QSW0538-001	ROTARY ENCODER		
	L 701	VQP0026-470Z	INDUCTOR		
	L 702	VQP0026-470Z	INDUCTOR		
	L 703	VQP0033-100Z	INDUCTOR		
	L 704	VQP0018-4R7	INDUCTOR		
	L 705	VQP0018-4R7	INDUCTOR		
	L 706	VQP0033-100Z	INDUCTOR		
	L 707	VQP0033-100Z	INDUCTOR		
	L 708	VQP0018-220	INDUCTOR		
	L 709	VQZ0048-009	INDUCTOR		
	L 840	EQL4007-2R2T	INDUCTOR	HP GND(D401T)	
	L 841	VQP0018-470	INDUCTOR	EMC	
	L 842	VQP0018-470	INDUCTOR	EMC	
	Q 470	DTC114ESTP	TRANSISTOR		
	Q 471	DTC114ESTP	TRANSISTOR		
	Q 472	DTA114ES	TRANSISTOR		
	Q 473	DTA114ES	TRANSISTOR		
	Q 703	2SC2785	TRANSISTOR		
	Q 704	DTC114TSTP	TRANSISTOR		
	Q 705	2SA1175	TRANSISTOR		
	Q 706	2SC2668(O)	TRANSISTOR		
	Q 707	2SC2668(O)	TRANSISTOR		
	Q 710	DTC114ESTP	TRANSISTOR		
	Q 711	2SD2144S(VW)	TRANSISTOR		
	Q 771	2SC945(P,Q)	TRANSISTOR		
	Q 772	2SC945(P,Q)	TRANSISTOR		
	Q 773	2SC945(P,Q)	TRANSISTOR		
	R 470	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 471	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 472	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 473	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 474	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 475	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 476	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 477	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 478	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 479	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 480	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 481	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 482	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 484	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 486	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 487	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 488	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 489	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 490	QRD161J-301	CARBON RESISTOR	300 5% 1/6W	
	R 491	QRD161J-301	CARBON RESISTOR	300 5% 1/6W	
	R 690	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 691	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 692	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 693	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 694	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 695	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 696	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 697	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 698	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W	
	R 699	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 700	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 701	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 702	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 703	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 704	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 705	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 707	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 708	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 709	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 710	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 711	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 712	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 713	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 714	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 715	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 716	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 717	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 718	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 719	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 720	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 721	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 722	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 723	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 724	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 725	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 726	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 727	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 728	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 729	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 730	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 731	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 732	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 733	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 736	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 737	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 738	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 739	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 740	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 741	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 742	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 743	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 744	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 745	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 747	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 748	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 750	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 752	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 753	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 754	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 755	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 756	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 757	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 758	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	

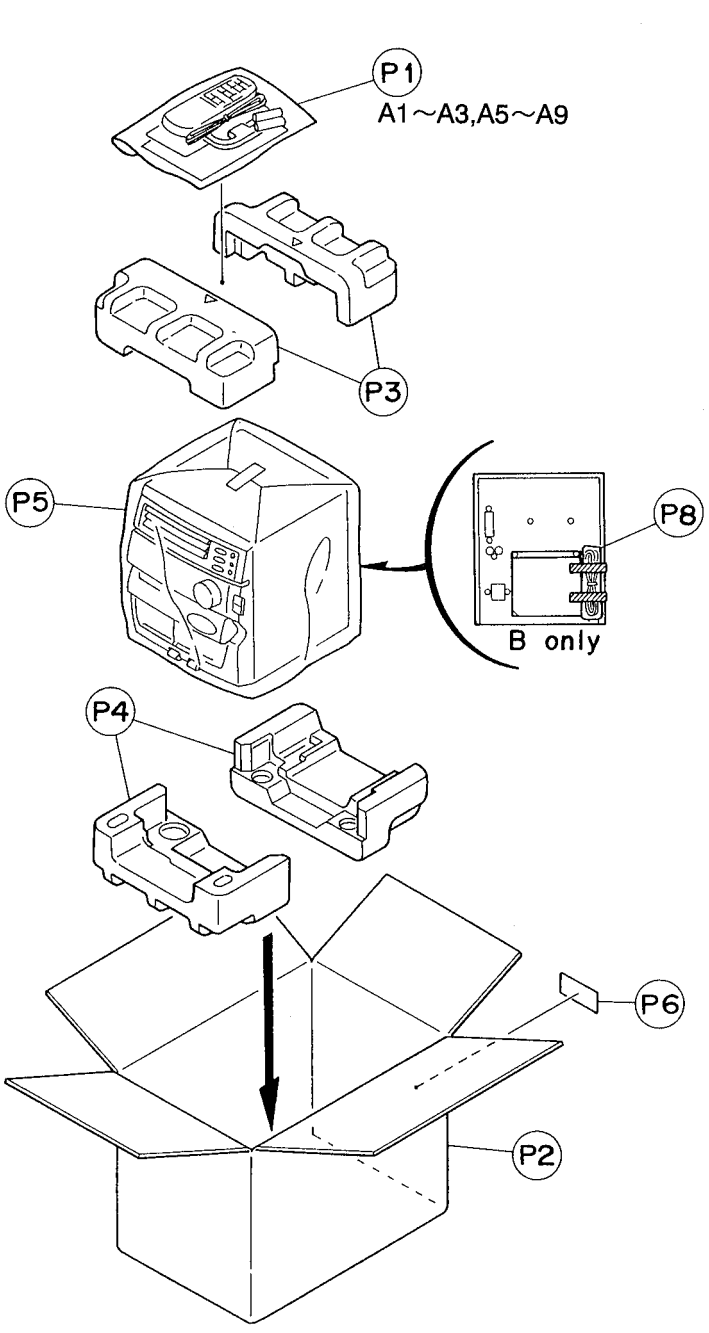
BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 759	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 760	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 761	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 762	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 764	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 765	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 766	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 767	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 768	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 769	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 770	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 771	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 772	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 773	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 774	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 775	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 776	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 777	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 778	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 779	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 780	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 781	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 782	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 783	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 784	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 785	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 786	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 787	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 788	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 789	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 790	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 791	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 792	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 793	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 794	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 795	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 796	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 797	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 799	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 800	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 801	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RA700	QRB139J-224	NET RESISTOR	220K 5% 1/3W	
	RA701	QRB149J-224	R.NETWORK	220K 5% 1/4W	
	S 406	QSQ1A11-V04Z	TACT SWITCH		
	S 407	QSQ1A11-V04Z	TACT SWITCH		
	S 408	QSQ1A11-V04Z	TACT SWITCH		
	S 409	QSQ1A11-V04Z	TACT SWITCH		
	S 414	QSQ1A11-V04Z	TACT SWITCH		
	S 415	QSQ1A11-V04Z	TACT SWITCH		
	S 416	QSQ1A11-V04Z	TACT SWITCH		
	S 417	QSQ1A11-V04Z	TACT SWITCH		
	S 418	QSQ1A11-V04Z	TACT SWITCH		
	S 422	QSQ1A11-V04Z	TACT SWITCH		
	S 423	QSQ1A11-V04Z	TACT SWITCH		
	S 424	QSQ1A11-V04Z	TACT SWITCH		

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S 425	QSQ1A11-V04Z	TACT SWITCH		
	S 426	QSQ1A11-V04Z	TACT SWITCH		
	S 700	QSQ1A11-V04Z	TACT SWITCH		
	S 701	QSQ1A11-V04Z	TACT SWITCH		
	S 702	QSQ1A11-V04Z	TACT SWITCH		
	S 703	QSQ1A11-V04Z	TACT SWITCH		
	S 704	QSQ1A11-V04Z	TACT SWITCH		
	S 705	QSQ1A11-V04Z	TACT SWITCH		
	S 706	QSQ1A11-V04Z	TACT SWITCH		
	S 707	QSQ1A11-V04Z	TACT SWITCH		
	S 708	QSQ1A11-V04Z	TACT SWITCH		
	S 709	QSQ1A11-V04Z	TACT SWITCH		
	S 710	QSQ1A11-V04Z	TACT SWITCH		
	S 711	QSQ1A11-V04Z	TACT SWITCH		
	S 712	QSQ1A11-V04Z	TACT SWITCH		
	S 713	QSQ1A11-V04Z	TACT SWITCH		
	S 714	QSQ1A11-V04Z	TACT SWITCH		
	S 715	QSQ1A11-V04Z	TACT SWITCH		
	SP701	VYH7653-001	IC HOLDER		
	X 701	VCX5000-002	CRYSTAL		
	X 702	M2Z4.19	CERA LOCK		

13.Packing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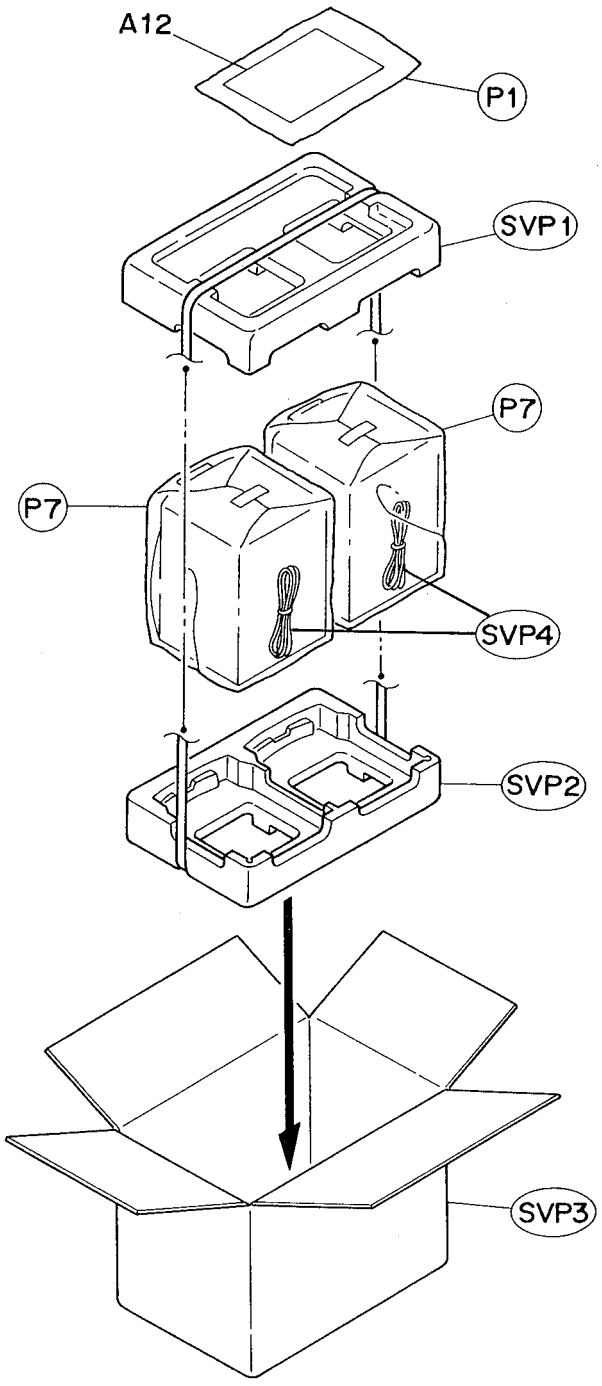
P3
P5
P8
B only
P4
P6
P2


A12
P1
SVP1
P7
P7
SVP4
SVP2
SVP3

■ Packing Parts List

BLOCK NO. M6MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	E309758-002	POLY BAG	FOR INSTRUCTION	2		
	P 2	FMPC9005-001	CARTON ASSY		1		
	P 3	FMPH1013-001	CUSHION UPPER	FOR SET	1		
	P 4	FMPH1014-001	CUSHION BOTTOM	FOR SET	1		
	P 5	E309758-017	POLY BAG	FOR SET	1		
	P 6	----------	COMPUTER LABEL		1		
	P 7	QPGA010-MX401	POLY BAG	FOR SPEAKER	2		
	P 8	QPGA010-01505	POLY BAG	FOR POWER CORD	1	B	
	SVP 1	720-TPD401-00	SPK CUSHION	UPPER	1		
	SVP 2	720-BPD401-00	SPK CUSHION	BOTTOM	1		
	SVP 3	FMPC9005-002	SPK CARTON		1		

■ Packing Parts List

BLOCK NO. M7MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	EQB4001-015	AM LOOP ANT		1		
	A 2	FMUN9016-671M	INSTRUCTIONS		1	B	
		FMUN9016-661M	INSTRUCTIONS		1	E,G	
		FMUN9016-651M	INSTRUCTIONS		1	EN	
	A 3	EWP503-001	ANTENNA WIRE		1		
	A 5	BT-54003-1	WARRANTY CARD		1	B	
		BT-20134	WARRANTY CARD		1	G	
	A 6	BT-20066A	SERVICE NETWORK		1	B	
	A 7	E43486-340A	SAFETY SHEET		1	B	
	A 8	RM-SED40TRU	REMOCON		1		
	A 9	R6SPTT-2ST	BATTERY		1		
	A 12	FMUN9019-681M	INSTRUCTIONS	SPEAKER	1		
	SVP 4	SPD451-SPBOX	SPEAKER ASS'Y		2		

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(No.10057)

Printed in Japan
-H0908-V-