JVC

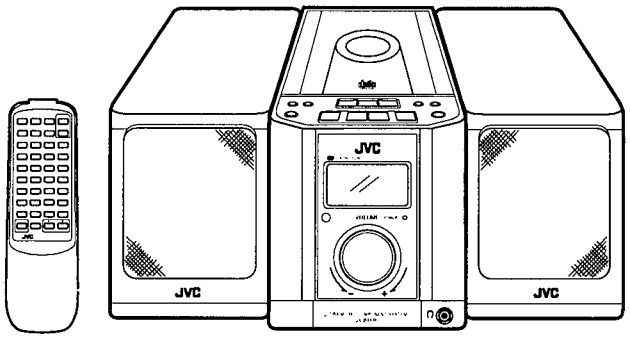
SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

UX-1500RGR B/E/EN/G

COMPACT disc DIGITAL AUDIO

R·D·S EON



Area Suffix	
B	U.K.
E	Continental Europe
EN	North Europe
G	Germany

■ This Service manual have not Instructions and Troubleshooting.These item should be used in conjunction with service manual for UX-2000RGR B/E/EN/G/(Issue No.10004)

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No.10015
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1.Safety Precautions

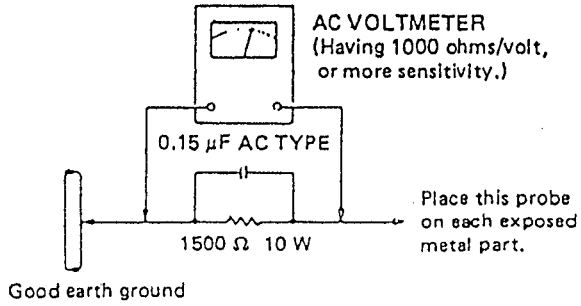
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original 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**

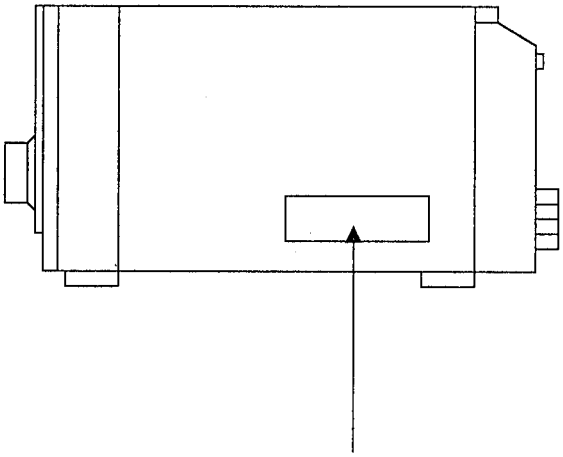
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

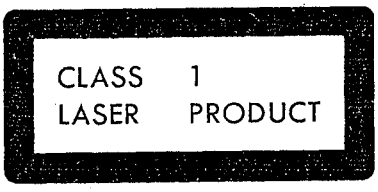
2.Safety Precaution about UX-1500RGR

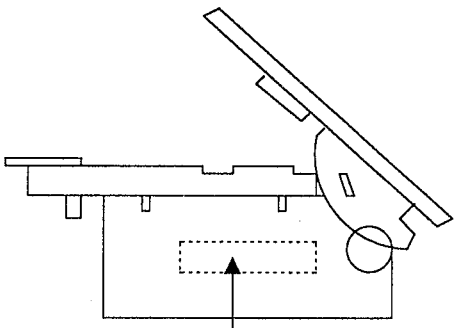
IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

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.

IDENTIFICATION LABEL AND CERTIFICATION LABEL







DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling. (d)	VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

IMPORTANT (In the U. K.)

Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

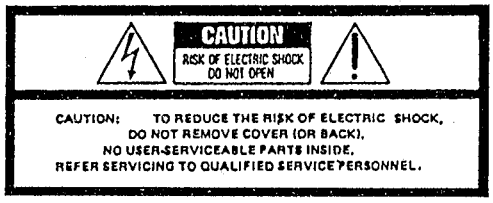
Blue to N (Neutral) or Black
Brown to L (Live) or Red

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT – CONSULT A COMPETENT ELECTRICIAN.



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.

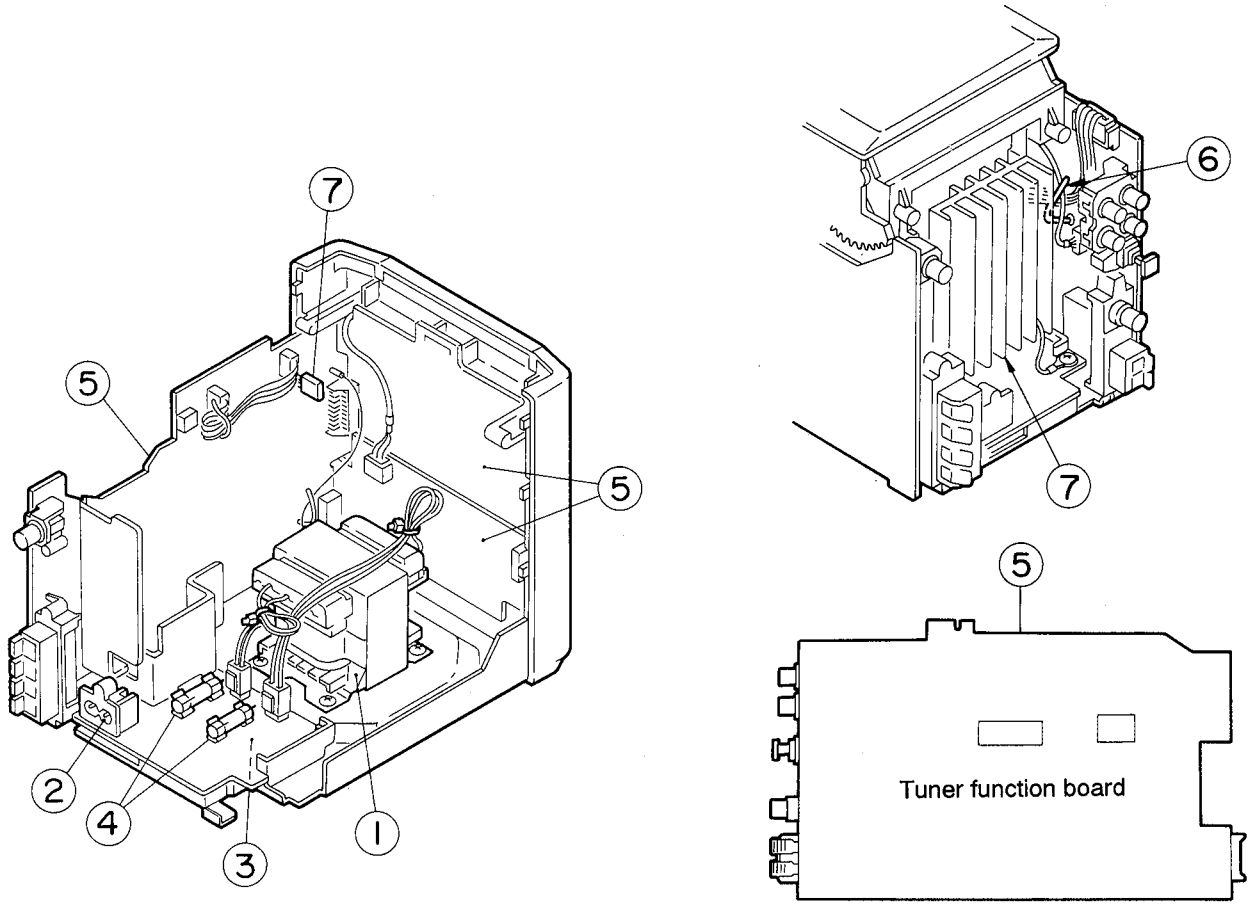
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ Inportant management points regarding safety(Item demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12K
   The torque of the screw driver for the power transformor must be controlled.
2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.
   The AC socket must not float from print circuit board.
   •Marking ····· HJC027
3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
4. Before installation confirm the fuse capacity indication, Ⓢ or mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board	Version
F901	T400mA	T400mA	B/E/EN/G
F902	T6.3A	T6.3A	B/E/EN/G

5. The parts on the pattern side of the printed circuit board must be fixed with spacers or bond.
6. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.
7. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in ( ) must be controled.
   • IC901, IC31, Q9201,R1001, R1002, Heat sink, IC holder(For IC901, IC31), IC Holder +Diode



3.Removal of Main Parts

■ Removing the rear cover and side panel (See Figs, 3-1～3-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.
   • From the bottom face of the body, remove the four screws ② retaining the rear cover.
   • After passing the lock pawls at the speaker terminals through the position in Fig 3 - 1 , remove the rear cover.

2. • Remove the two screws ③ retaining both of the right and left side panels.
   • By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

3. The side fitting should be pulled out upward.

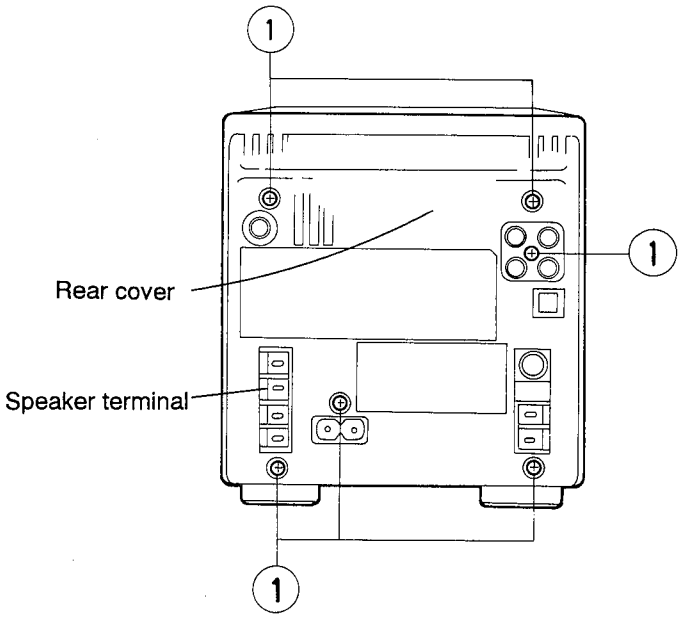


Fig.3-1

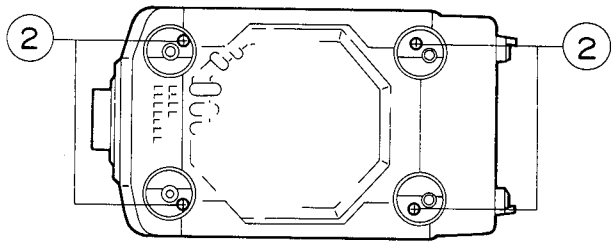


Fig.3-2

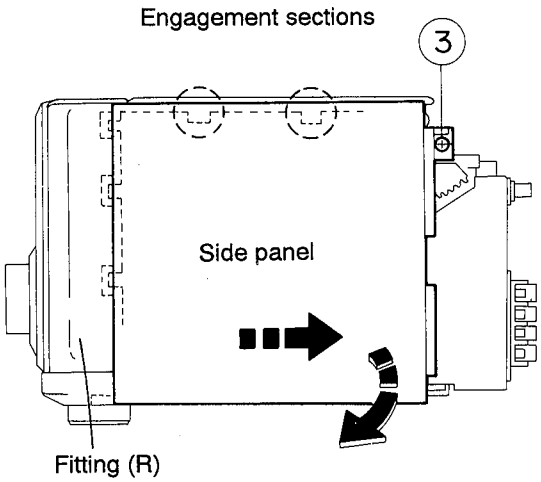


Fig.3-3

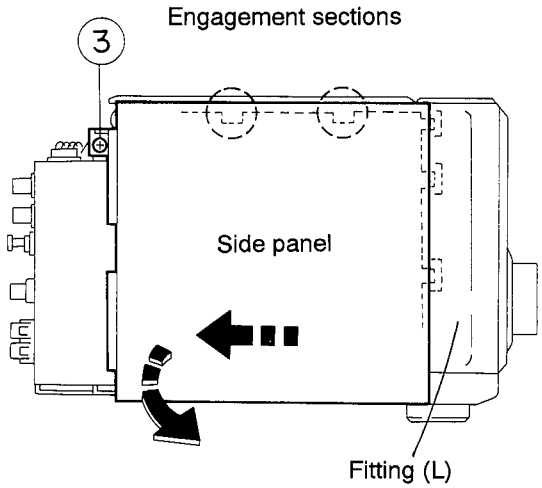


Fig.3-4

■ Removing the CD player assembly

(See Figs, 3-5~3-7)

1. Remove the rear cover from behind the body.

2. Remove the side panels and fittings (L and R).

3. After removing the three screws ④ from behind the body, dismount the heat sink.

4. • From the side of the body, remove the two screws ⑤ retaining the CD player assembly.
   • Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.
   • Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD amplifier P.C. board.
   • Remove the connector wire from the connector CN301 on the main board.

5. Remove the CD player while pulling it out toward the rear side.
   Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

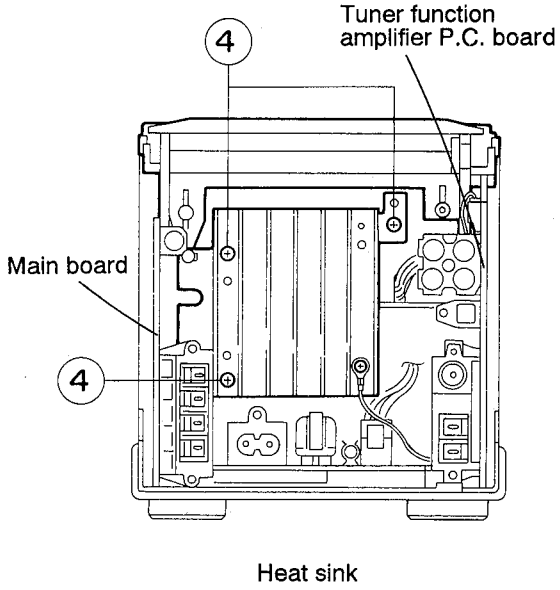


Fig.3-5

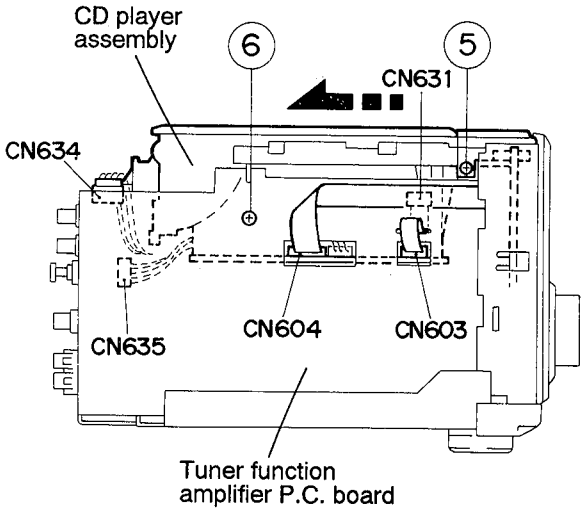


Fig.3-6

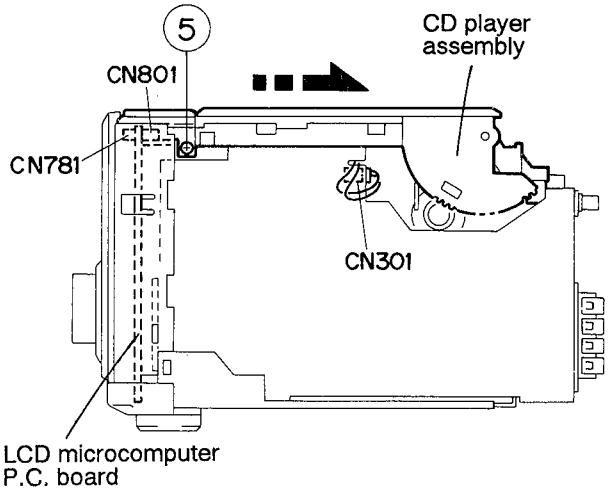


Fig.3-7

■ Removing the CD player section

(See Figs, 3-8～3-13)

1. Remove the CD player assembly.

2. Removing the CD amplifier assembly
   - Remove the two screws ⑦ retaining the shield.
   - Remove the remaining two screws retaining the CD amplifier P.C. board.
   - Remove the card wire from the connector CN602 on the CD amplifier P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.

3. Removing the CD mechanism assembly
   - Remove the four screws ⑧ retaining the CD motor drive P.C. board.

4. Removing the CD motor drive P.C. board
   - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
   - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.

5. Removing the CD door assembly
   - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.

6. Removing the operation switch P.C. board
   - Remove the top panel while expanding the right and left side pawls outward.
   - Remove the operation switch P.C. board upward.

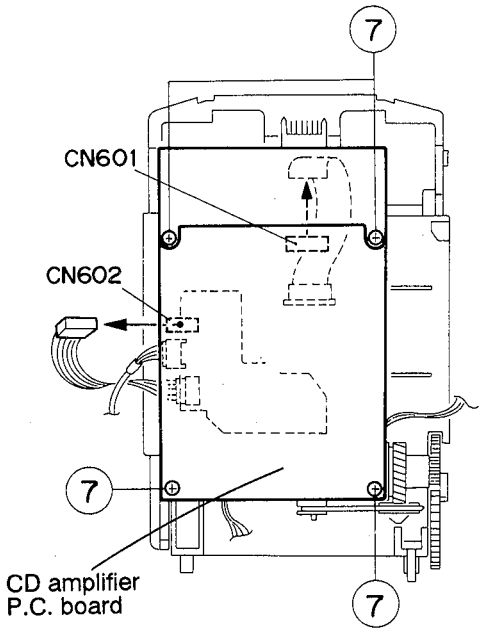


Fig.3-8

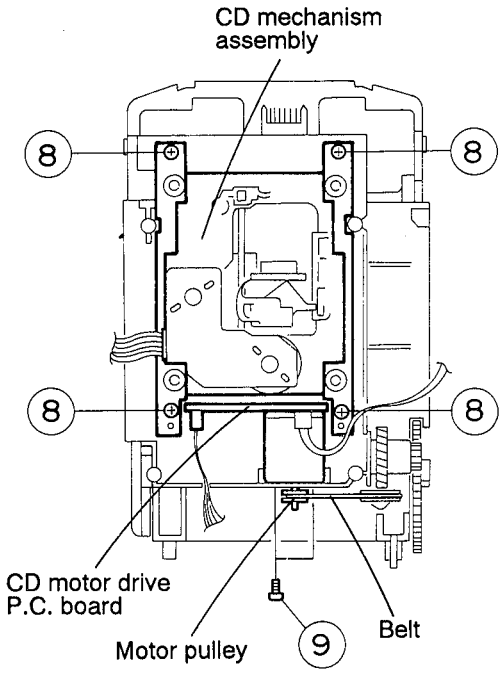


Fig.3-9

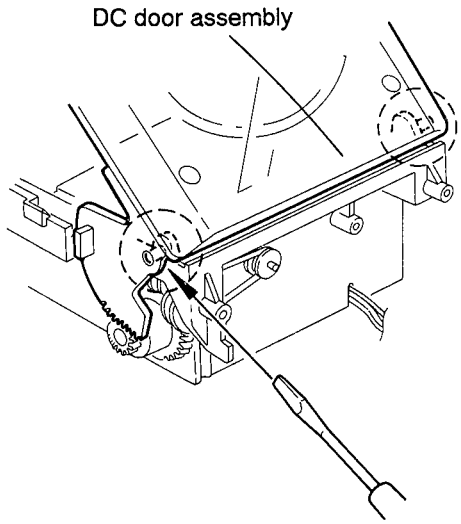


Fig.3-10

■ Removing the tuner function amplifier P.C. board (See Figs, 3-14~3-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

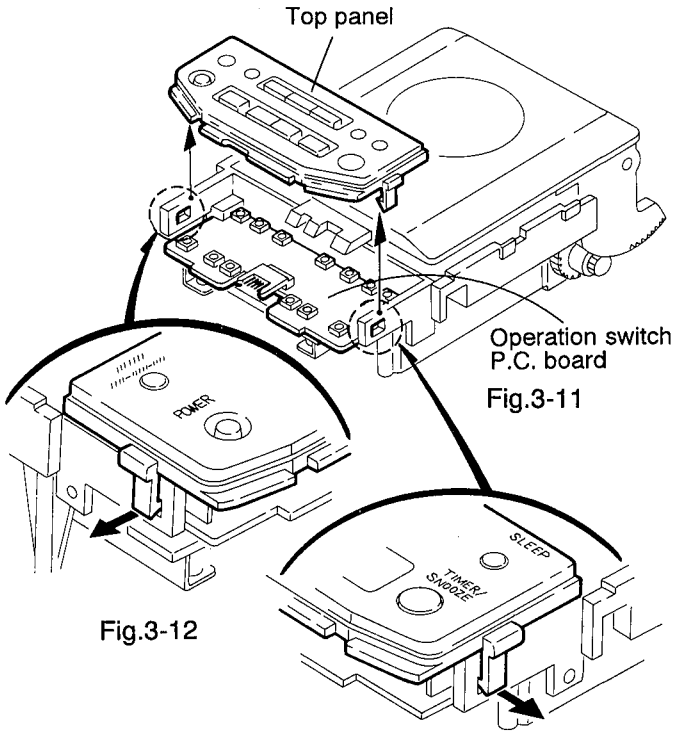


Fig.3-11

Fig.3-12

Fig.3-13

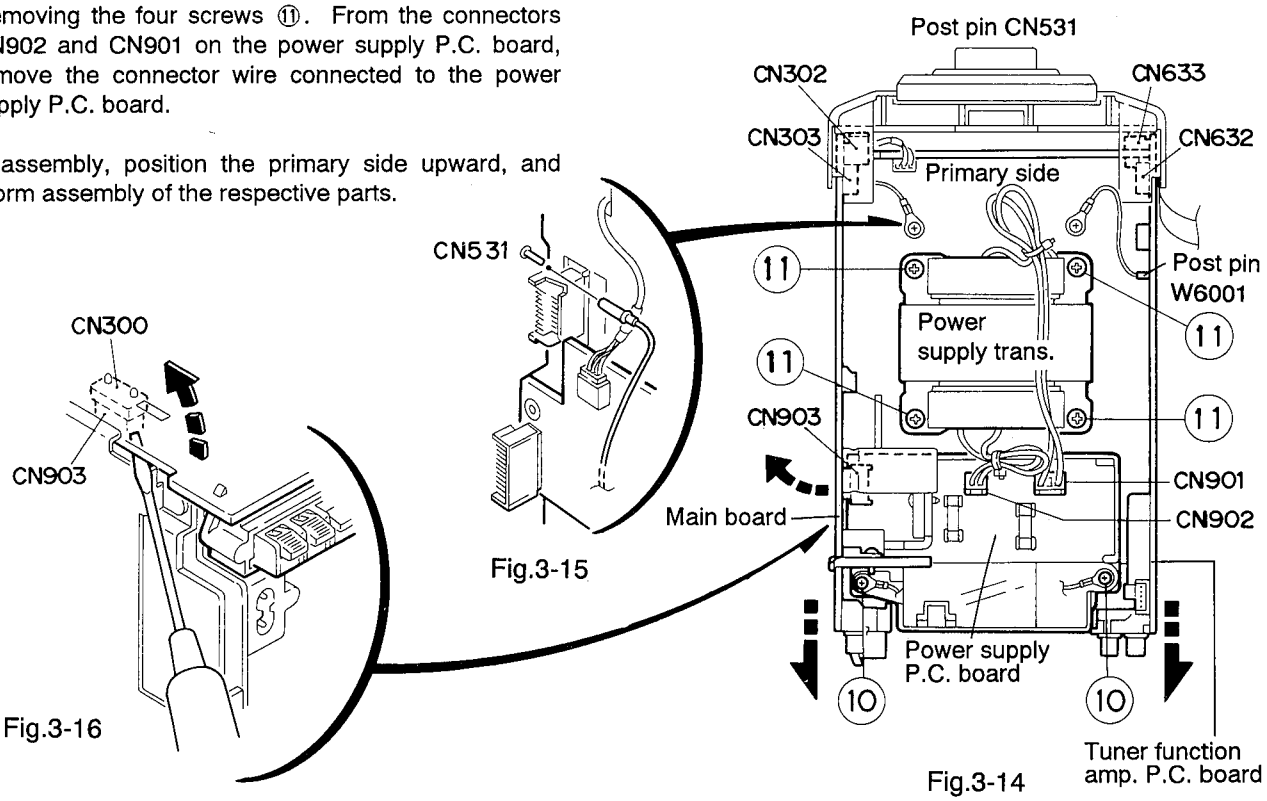


Fig.3-15

Fig.3-16

Fig.3-14

■ Removing the front assembly

(See Figs, 3-17~3-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escussion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the LCD microcomputer P.C. board from the CD player assembly at the same time.

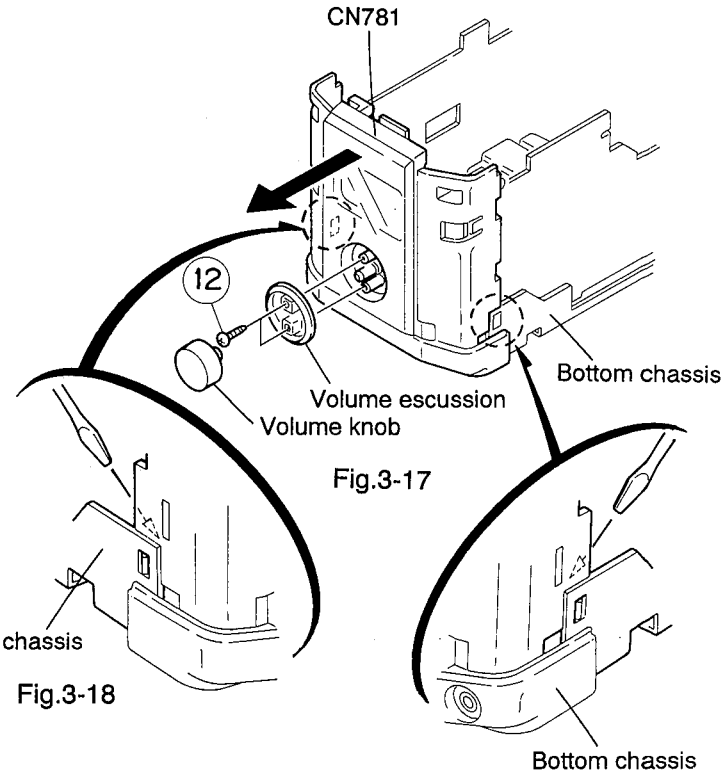


Fig.3-17

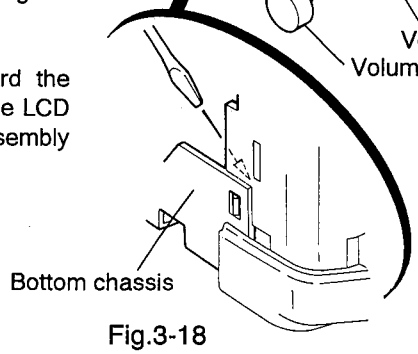


Fig.3-18

Fig.3-19

■ Removing the tuner switch EL driver P.C. board and microcomputer P.C. board (See Figs, 3-20 and 3-21)

1. • While expanding the engagement sections ⓐ and ⓑ with the front cabinet, remove the tuner switch EL driver P.C. board.
   • Remove the connector wire from the connector CN503 connected to the LCD microcomputer P.C. board.

2. • Remove the one screws ⑬.
   • While expanding the engagement sections ⓒ and ⓓ with the front cabinet to outside, remove the LCD microcomputer assembly.

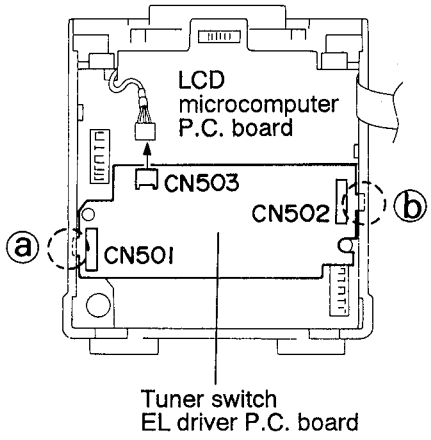


Fig.3-20

● Assembly method

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.

2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.

3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assembly the main board on the bottom chassis.

4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the LCD microcomputer P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.

5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the LCD microcomputer P.C. board of the front assembly.

6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner swtich EL driver P.C. board of the front assembly and CN761 on the LCD microcomputer P.C. board.

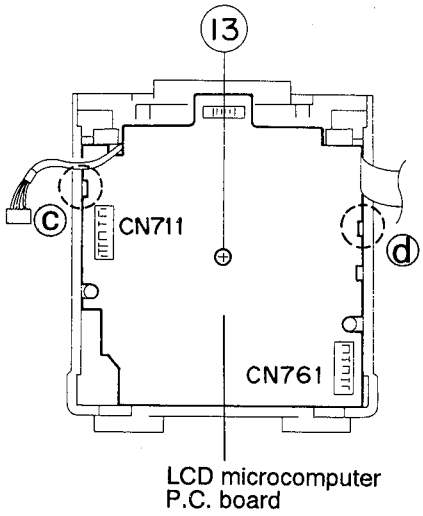


Fig.3-21

4.Main Adjustment

■ Test Instruments reqired for adjustment

1. Low frequency oscillator
   (Frequency range: 50Hz to 20kHz)
   (Output : 0 dBs across 600 Ω terminating resistor)
2. Attenuator(Impedance : 600 Ω)
3. Test disc : CTS-1000(Audio)
   : CTS – 1000 & CRG – 1211S(Optical Control)
4. Extension cord : EXTUX1000-JIG
5. Electronic voltmeter
6. Distortion meter
7. Jitter meter : NJM631
8. TE offset meter : LTM9055

■ Measuring conditions (Amplifier section)

Supply voltage ····· AC230V (50Hz)

Reference output level :Speaker
0 dBs (0.775V) / 4 Ω
: Headphone
– 10dBs (0.245V)/ 32 Ω
:Line out
300mV(– 8.2dBs)/ 47k Ω

Standard test frequency
: 1kHz unless otherwise specified

Reference input level·····AUX – 8dBs

Output for measuring, unless otherwise specified
: at speaker terminal J3003(Dummy load :4 Ω

Posture of test····· Horizontal

● Standard position of function switches

Function switch ·····to AUX

Active hyper-bass prop switch ····· to off

● Standard position of volume control

Bass treble ····· to center / flat position

Main volume adjust ····· 0 dBs output position

● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connect ed when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output terminal and the lead wires of dummy load shall be as thick as possible.

■ Measuring condition (Tuner section)

Rating source ····· DC 12V
Power source to tuner : DC5.3V

Ference output····· Speaker : 60mW(0.49 V / 4 Ω)
Headphone : 0.066mV/ 32 Ω

AM·modulation ·····400Hz, 30%

FM modulation ·····400Hz deviation 22.5kHz

● Standard position of switches and controllers

Function switch ·····to RADIO

Mode switch ·····to STEREO

Bass ·····0 center position

Treble ·····0 center position

Active hyper-bass prop switch·····to off

● Tuner input position

LW / MW : Standard loop antenna

FM : Hot TP1(Extention terminal)
: GND TP2 Extention terminal)

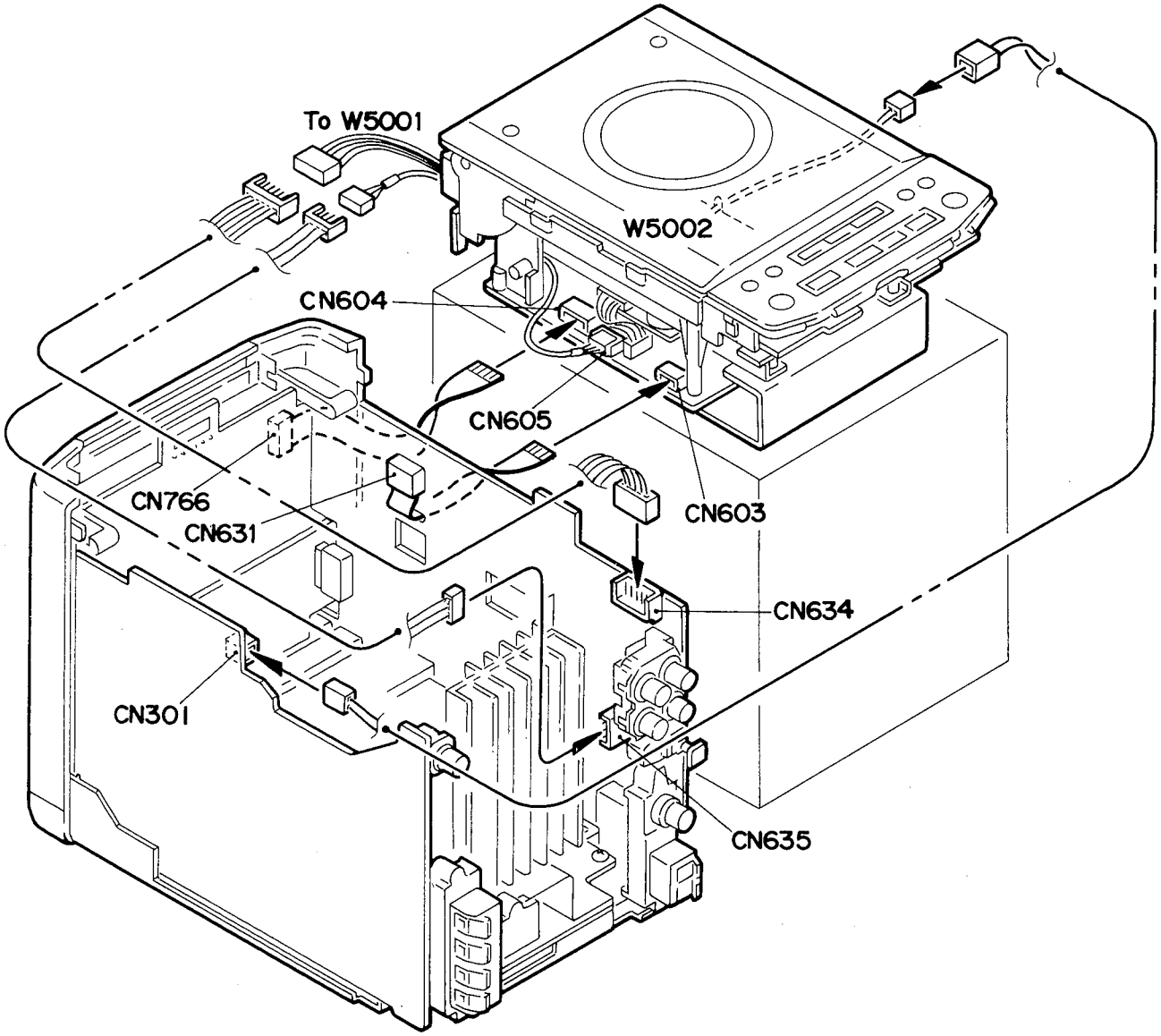
● Arrangment of loop antenna

When measuring keep the loop antenna away from the set more than 20cm .In case a test item is affected by small noise (Ex. Quieting sensitivity more than 30cm is necessary.)

● Remarks for alignment

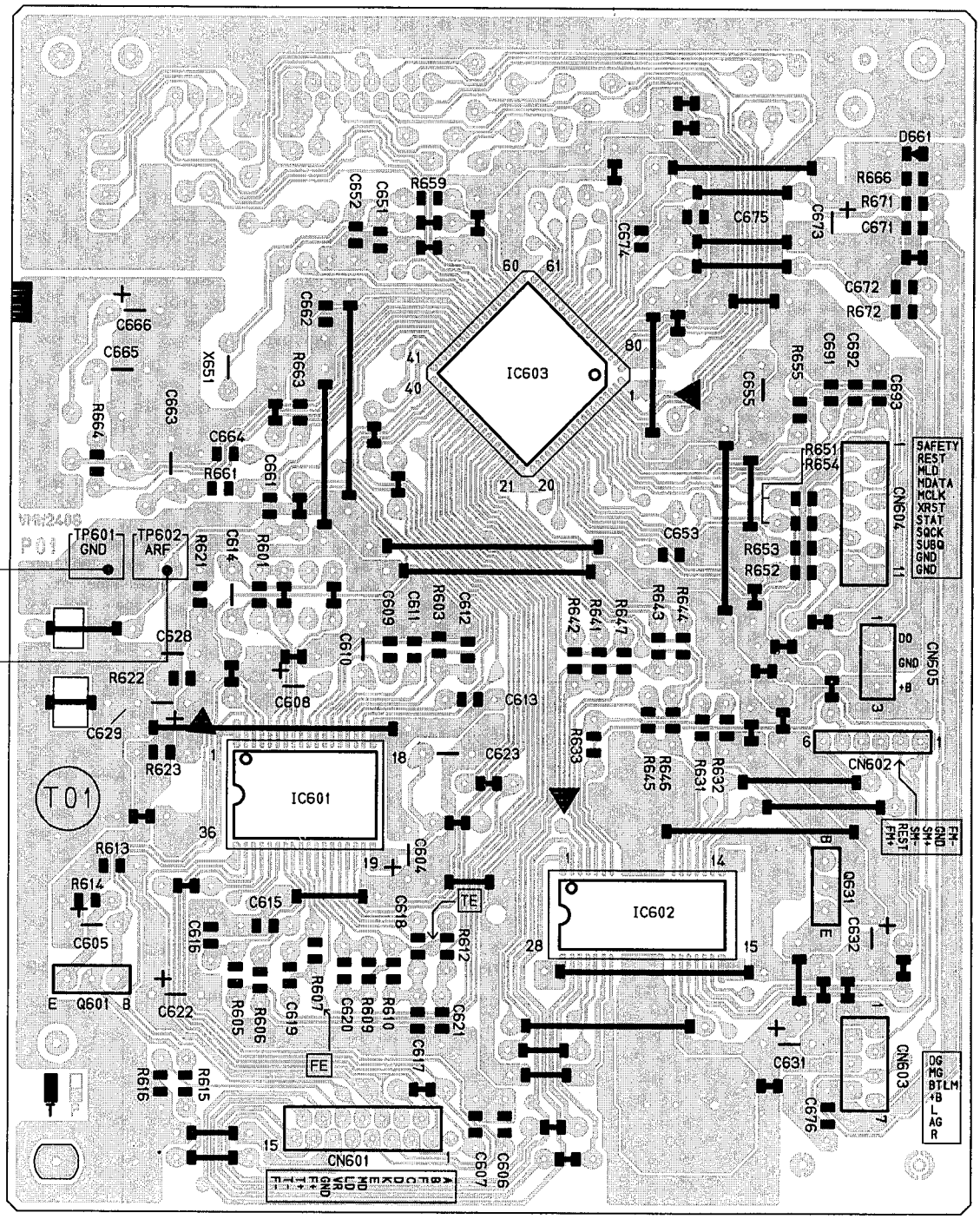
1. Connect 30 pF capacitor and 33 k Ω resistor to the output terminal of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input terminal in series.
2. Set the output level of the IF sweeper as low as adjustable.
3. IF alignment is not necessory for both AM and FM MPX alignment is not necessory either. All IFTs and MPX coil are non-adjusting type.

■ How to Connect the Extention Cord (EXTUX1000-JIG)

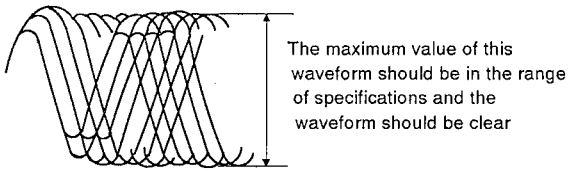


■ Arrangement Checking Test Point

(CD Amplifier board)



■ CD section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	•Measuring instrument : Jitter meter •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less	–
2. RF level (eye pattern) check	•Measuring instrument :Oscilloscope •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000	Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within 1.1V ± 0.2V. Eye-pattern waveform  	within 1.1V ± 0.2V.	–
3. Outer most area check	•Test disc :CTS-1000	Select "Track 26 "on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		–
4. Pickup unit movement check (From the outer area to the inner area	•Test disc :CTS-1000	Allow the pickup to skip over from the disc's outer most area to " Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	–

5.Wiring Connections

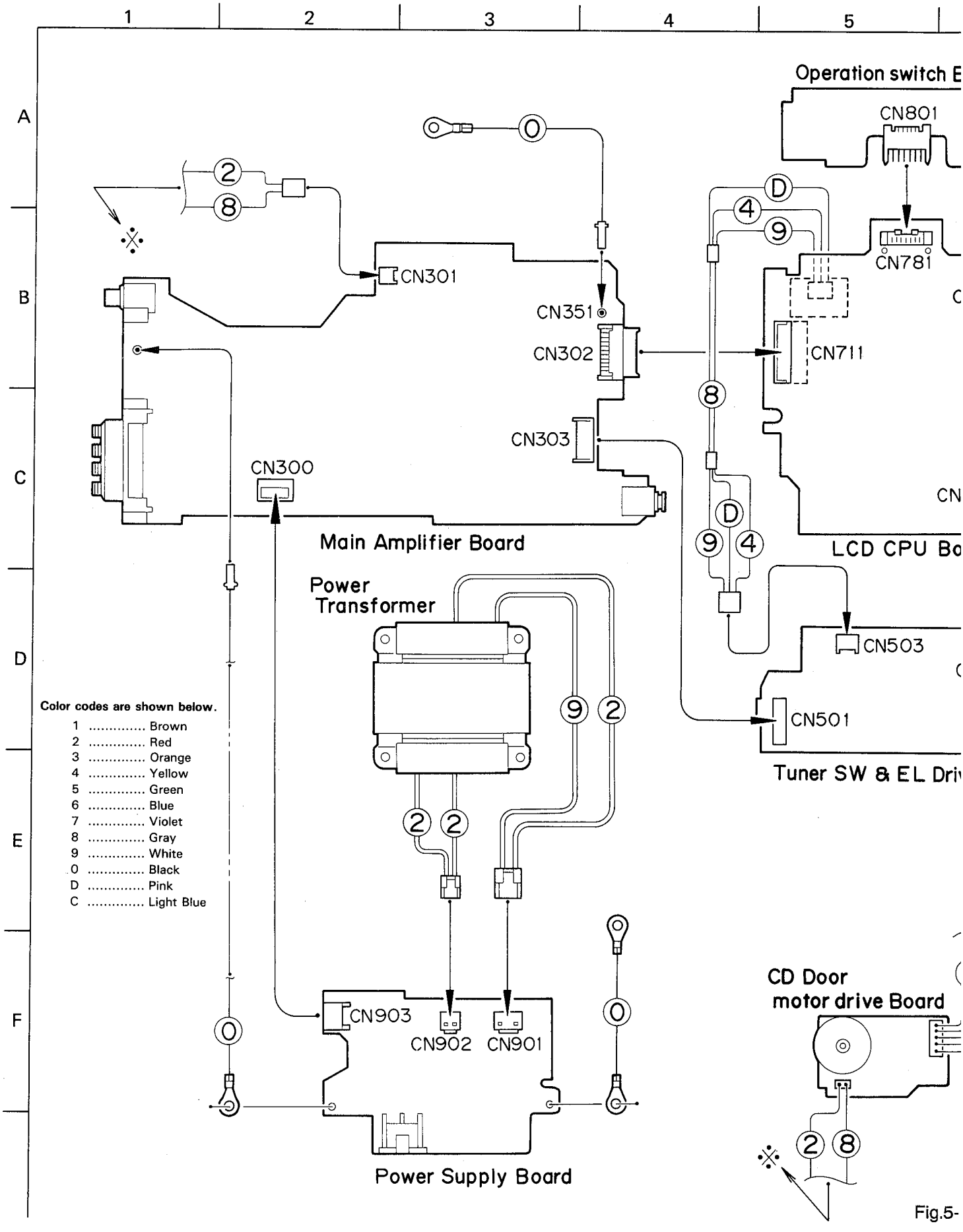
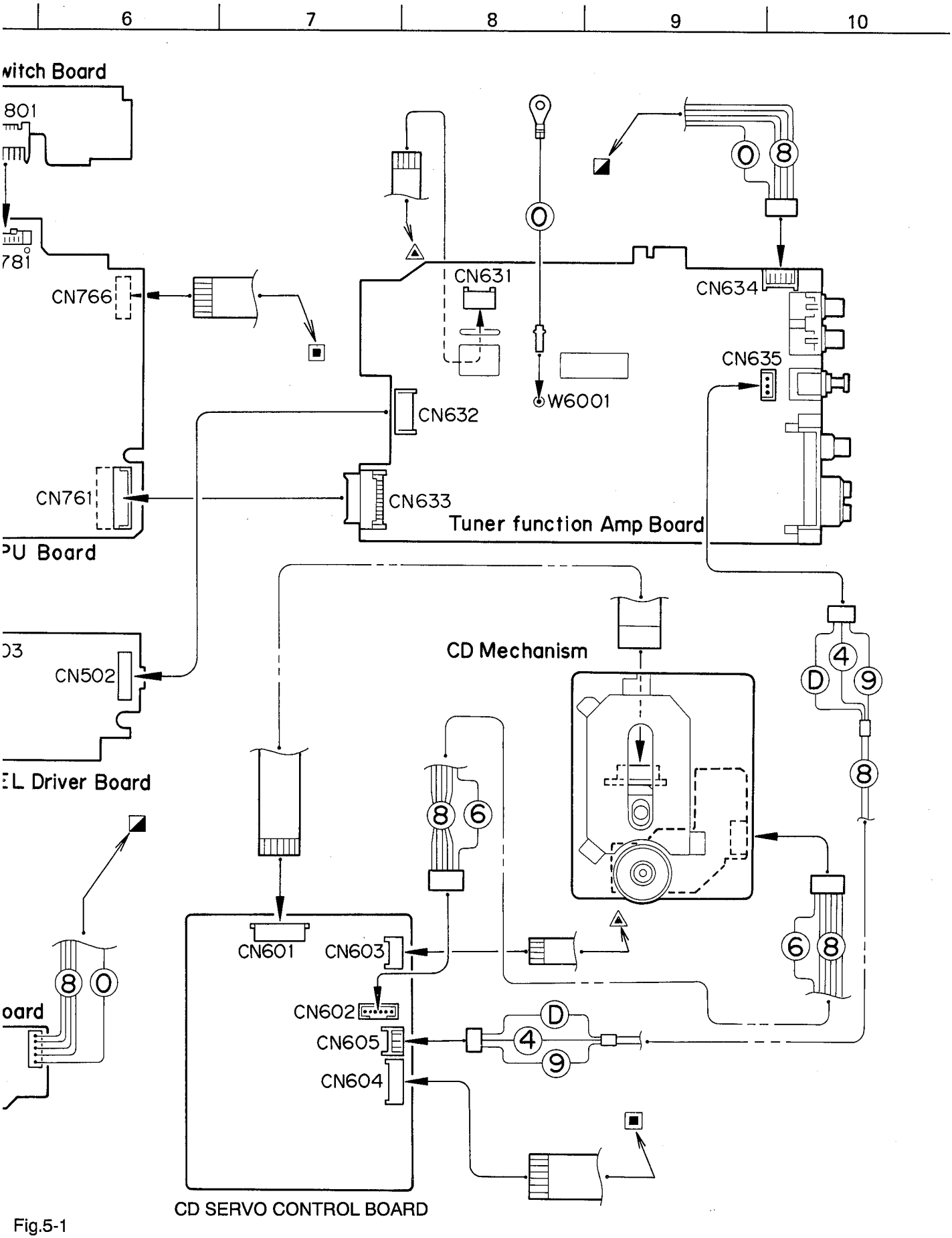


Fig.5-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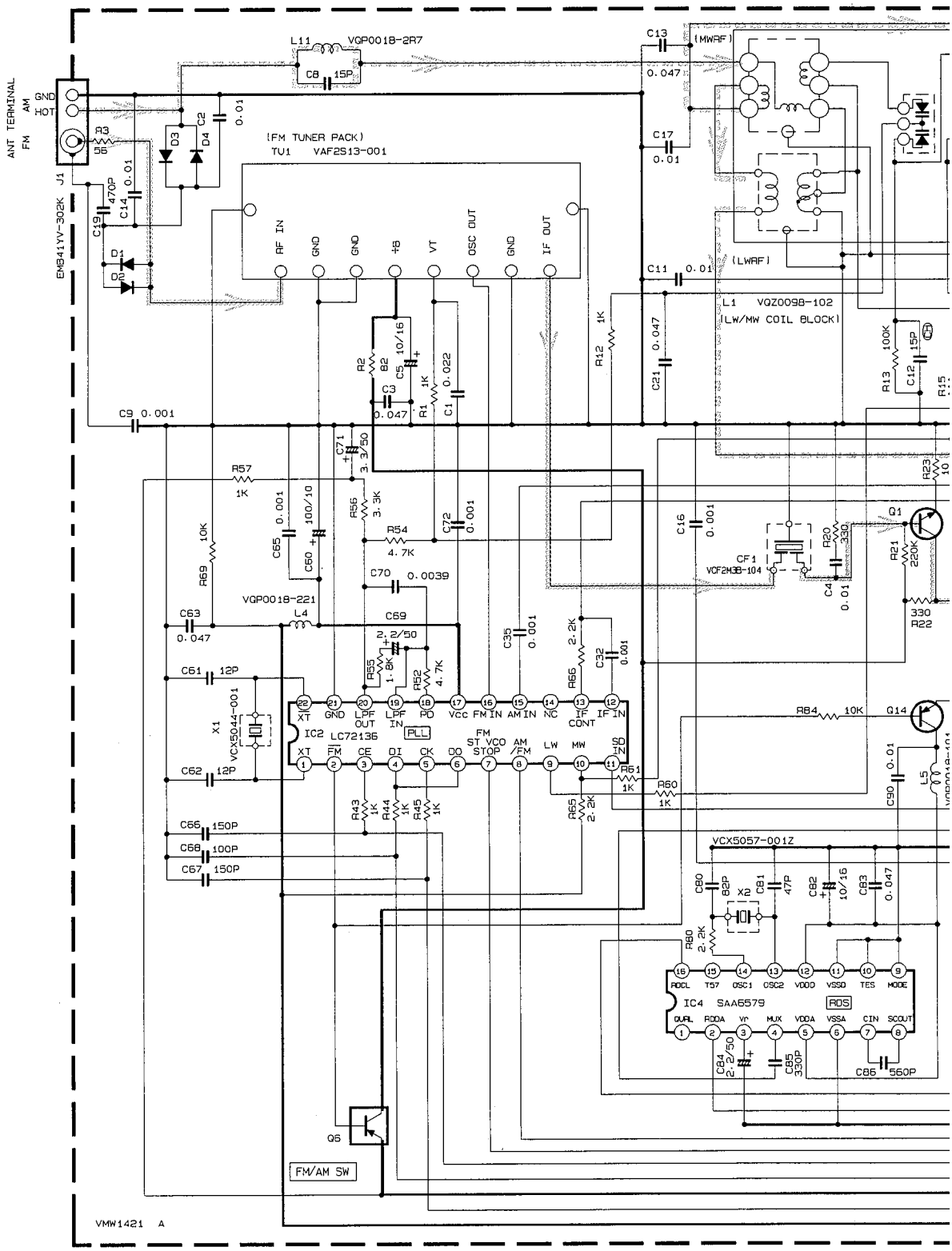
9
10
witch Board
801
781
CN766
CN631
CN634
CN635
W6001
CN632
CN761
CN633
Tuner function Amp Board
PU Board
03
CN502
CD Mechanism
L Driver Board
CN601
CN603
CN602
CN605
CN604
oard
CD SERVO CONTROL BOARD

Fig.5-1

6.Standard Schematic Diagram

■ Tuner Circuit : Drawing No.VDH9292-005TW



	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	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	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	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	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	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.5	2.6	2.5	2.5	5.1	0	2.5	2.5	0	0	0	5.1	2.5	2.5	2.5	2.5								

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

Note : VDH9292005TW

6 7 8 9 10

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.

Q1	2SC2668(O)	Q3.4	KTC3199(GL)-T
Q2.6	DTA114YKA-X	Q7.8.14	2SA1037K(R)T146

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

9. LAST NO. R75 C91
BLANK NO.
R 4~9.11.14.17~19.28.32.33 40.41.46.47.49~51.53.58.59 62~64.67.68.70~75.77~79.81.85~90
C 6.7.10.15.18.20.22~29. 38.48.54.56~59.64.73~79.87.88

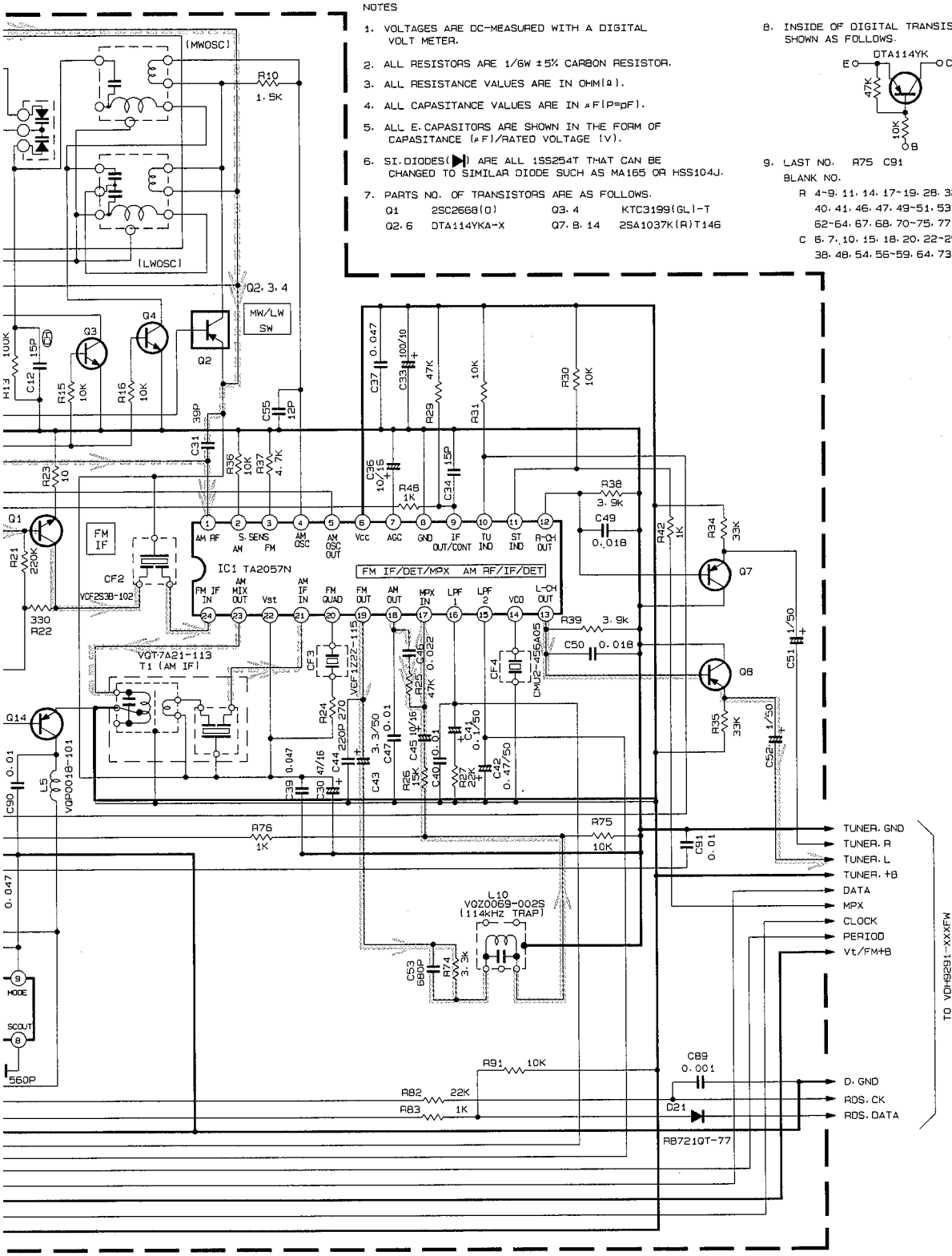
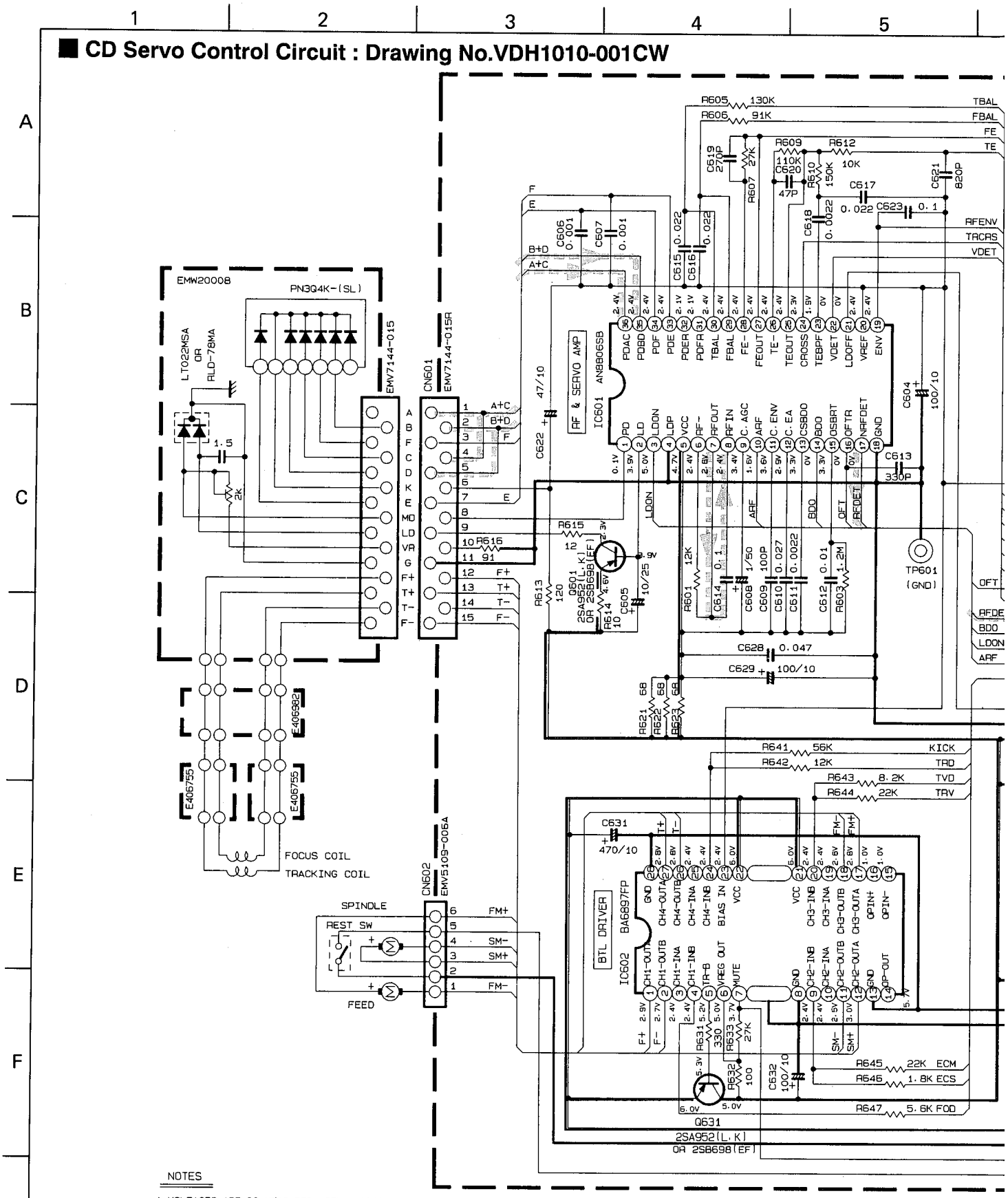


Fig.6-1

Tr NO.	Q1			Q5			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
87.5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
522KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1
Tr NO.	Q2			Q3			Q4			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7	5.2	5.2	4.7
144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1	5.2	1.0	8.7

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

■ CD Servo Control Circuit : Drawing No.VDH1010-001CW



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).

Note : VDH1010001CW

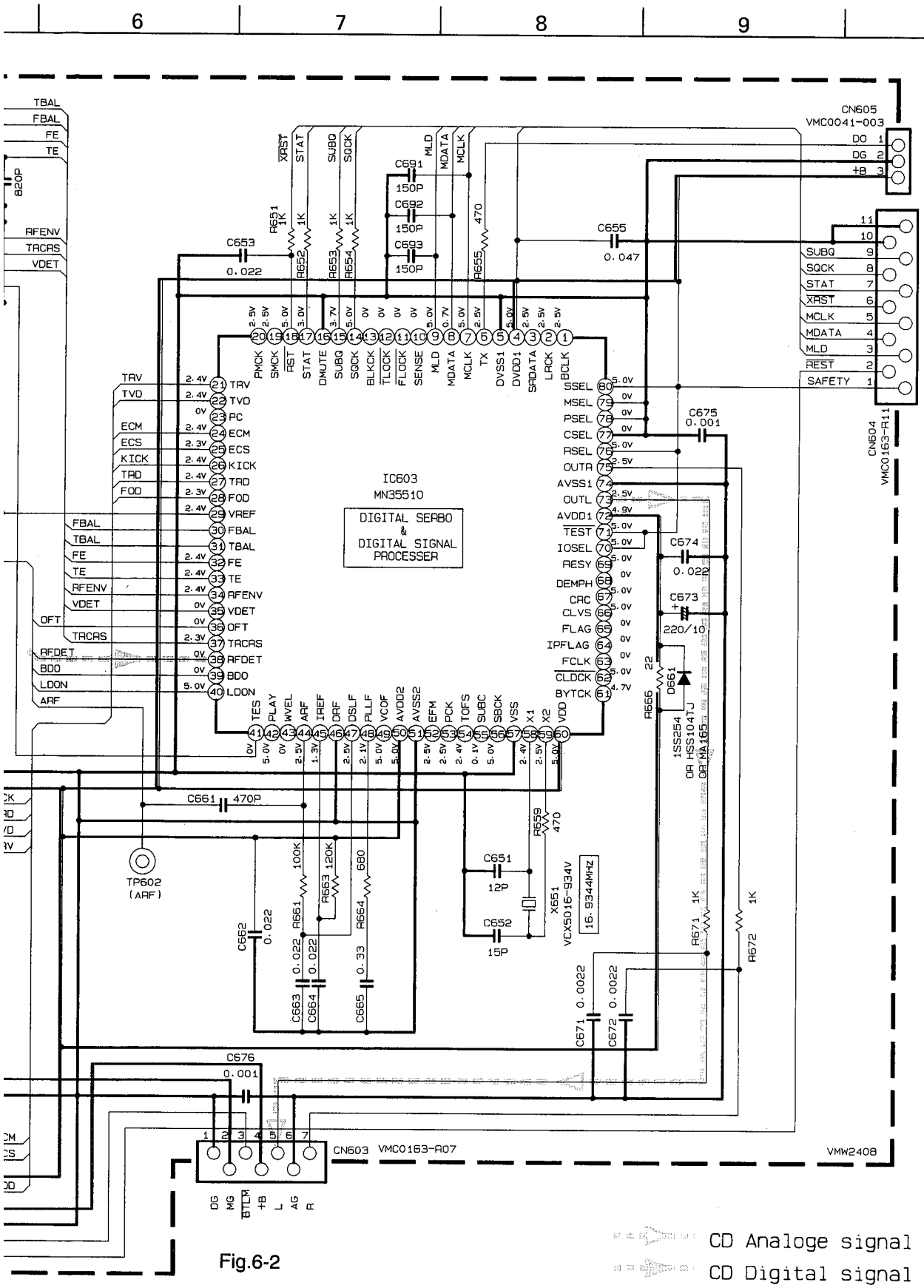
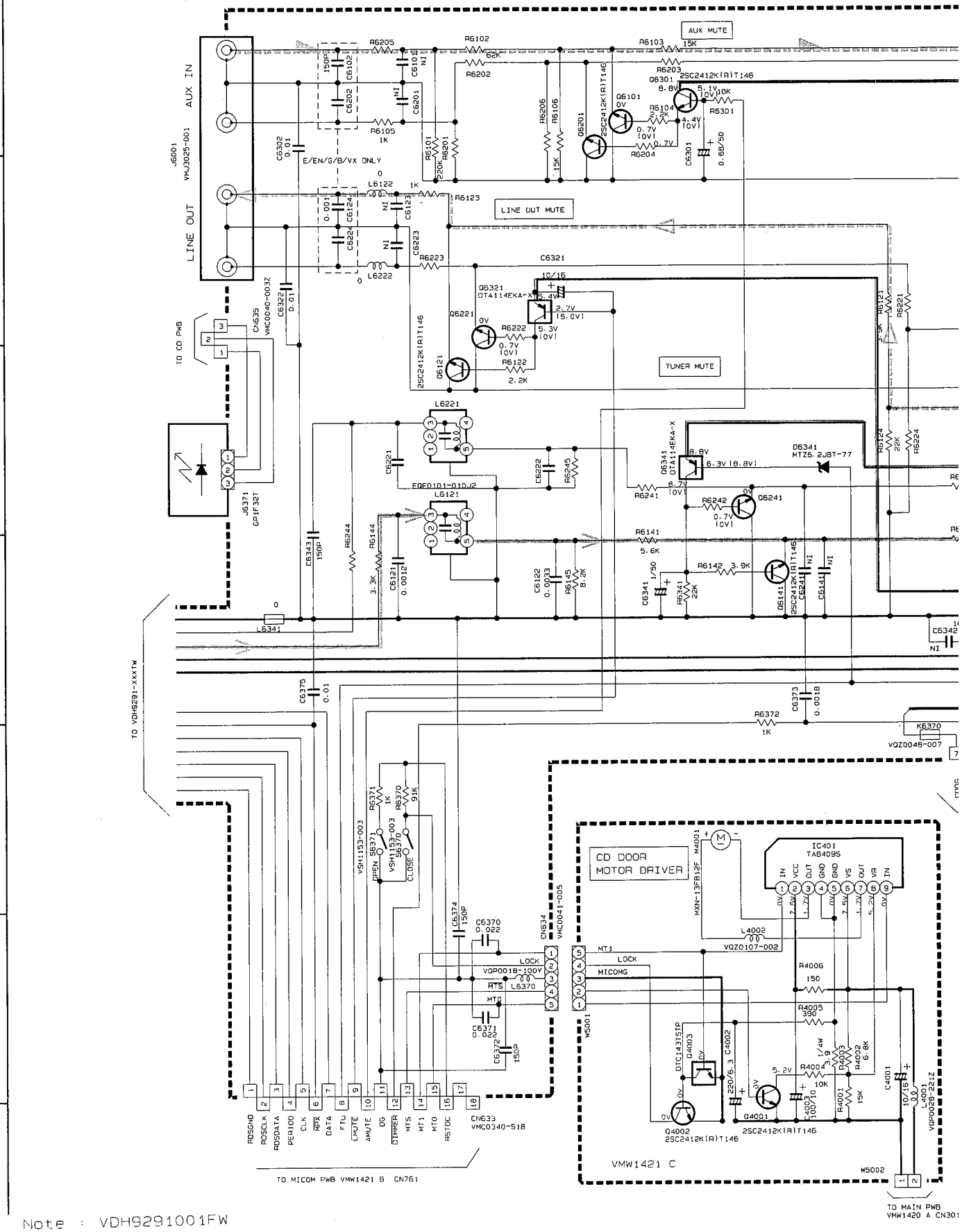

6
7
8
9
10
IC603
MN35510
DIGITAL SERBO
&
DIGITAL SIGNAL
PROCESSER
CN605
VMC0041-003
CN604
VMC0163-R11
CN603 VMC0163-A07
VMW2408
TP602
(ARF)
X651
VCX5016-934V
16.9344MHz
D661
1SS254
OR HSS104TJ
OR MA165
C651 12P
C652 15P
C653 0.022
C655 0.047
C661 470P
C662 0.022
C663 0.022
C664 0.022
C665 0.33
C671 0.0022
C672 0.0022
C673 220/10
C674 0.022
C675 0.001
C676 0.001
C691 150P
C692 150P
C693 150P
R651 1K
R652 1K
R653 1K
R654 1K
R655 470
R659 470
R661 100K
R663 120K
R664 680
R666 22
R671 1K
R672 1K
CD Analoge signal
CD Digital signal
+B Line

Fig.6-2

■ Function Amplifier Circuit : Drawing No.VDH9291-001FW



Note : VDH9291001FW

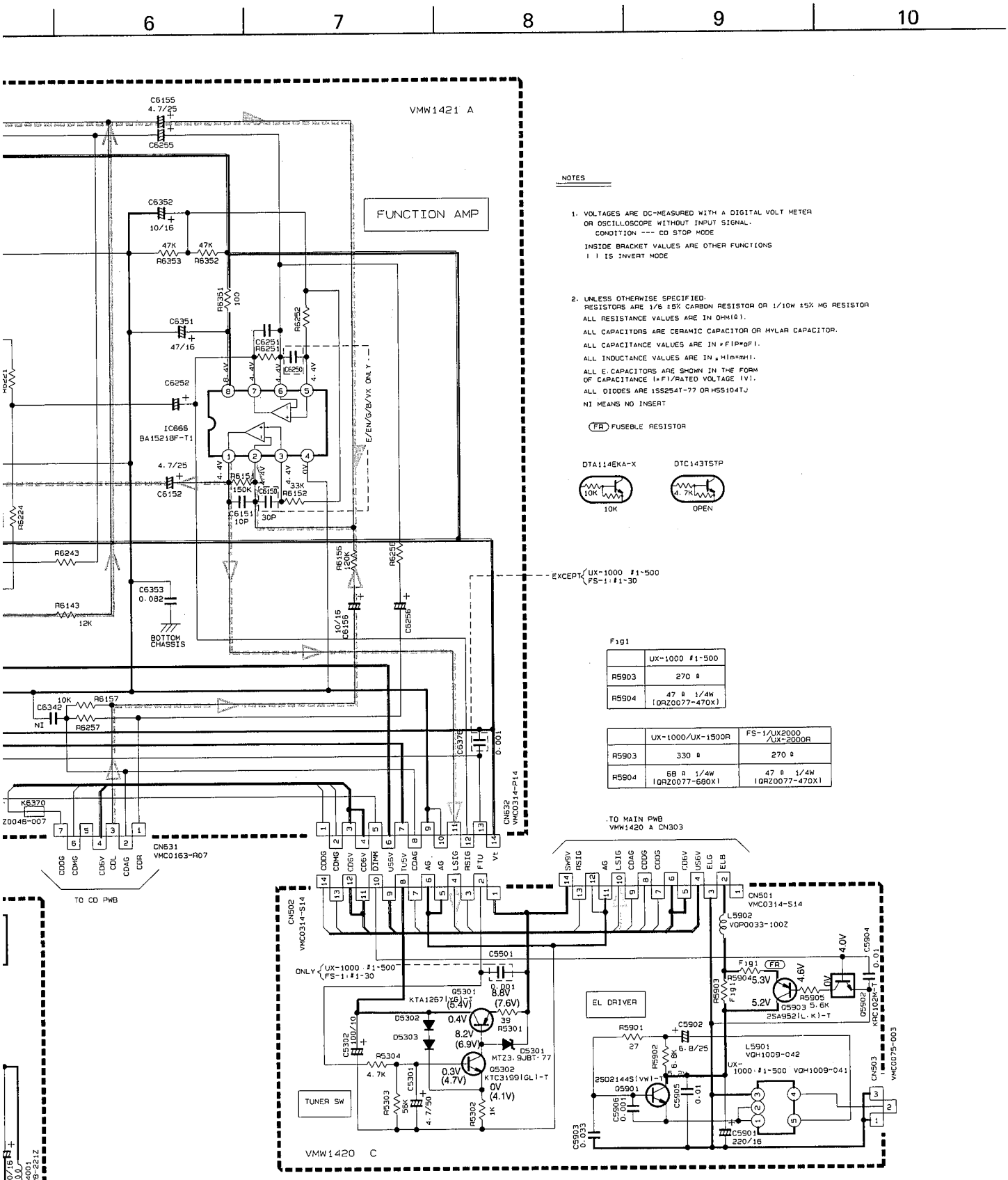
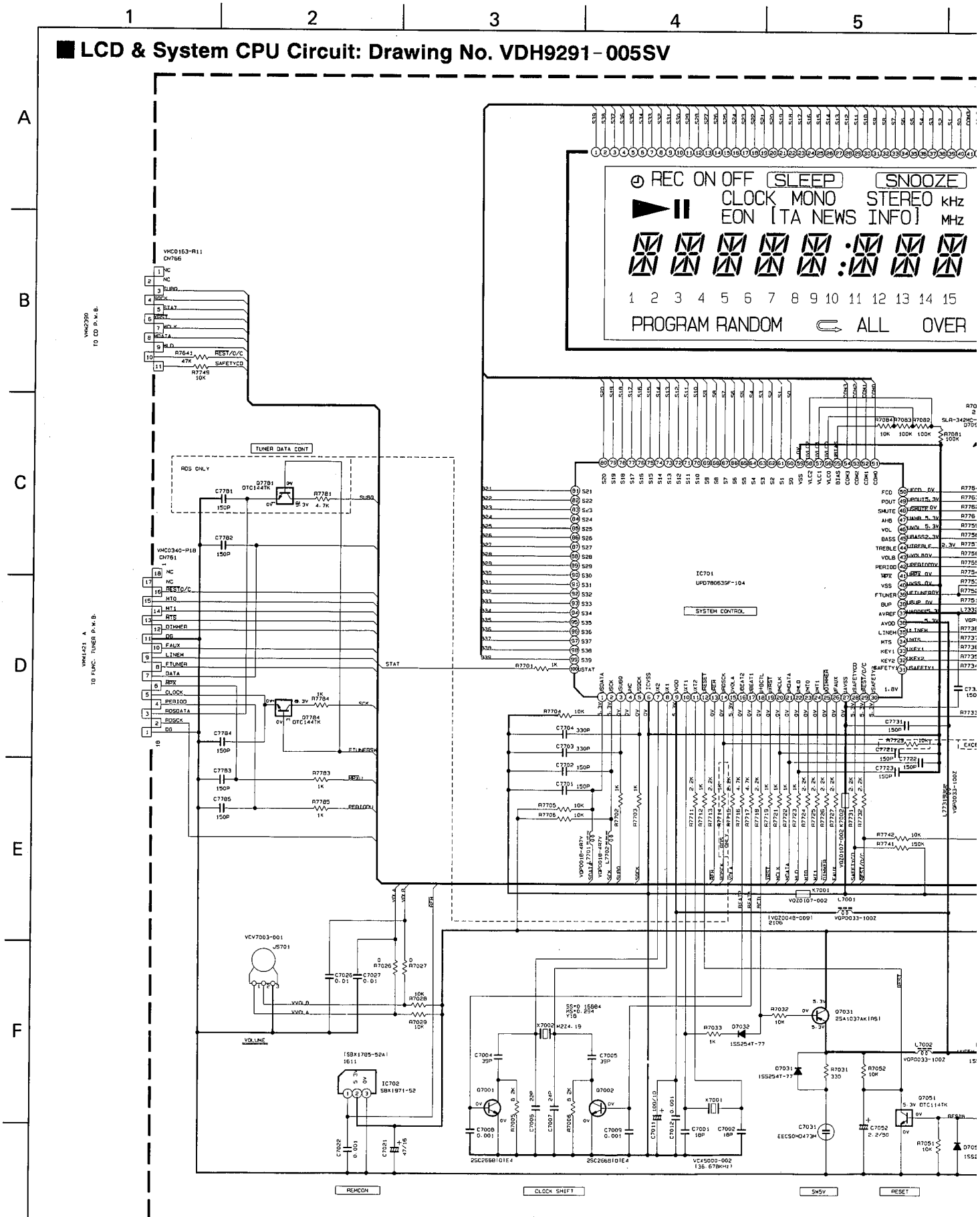


Fig.6-3

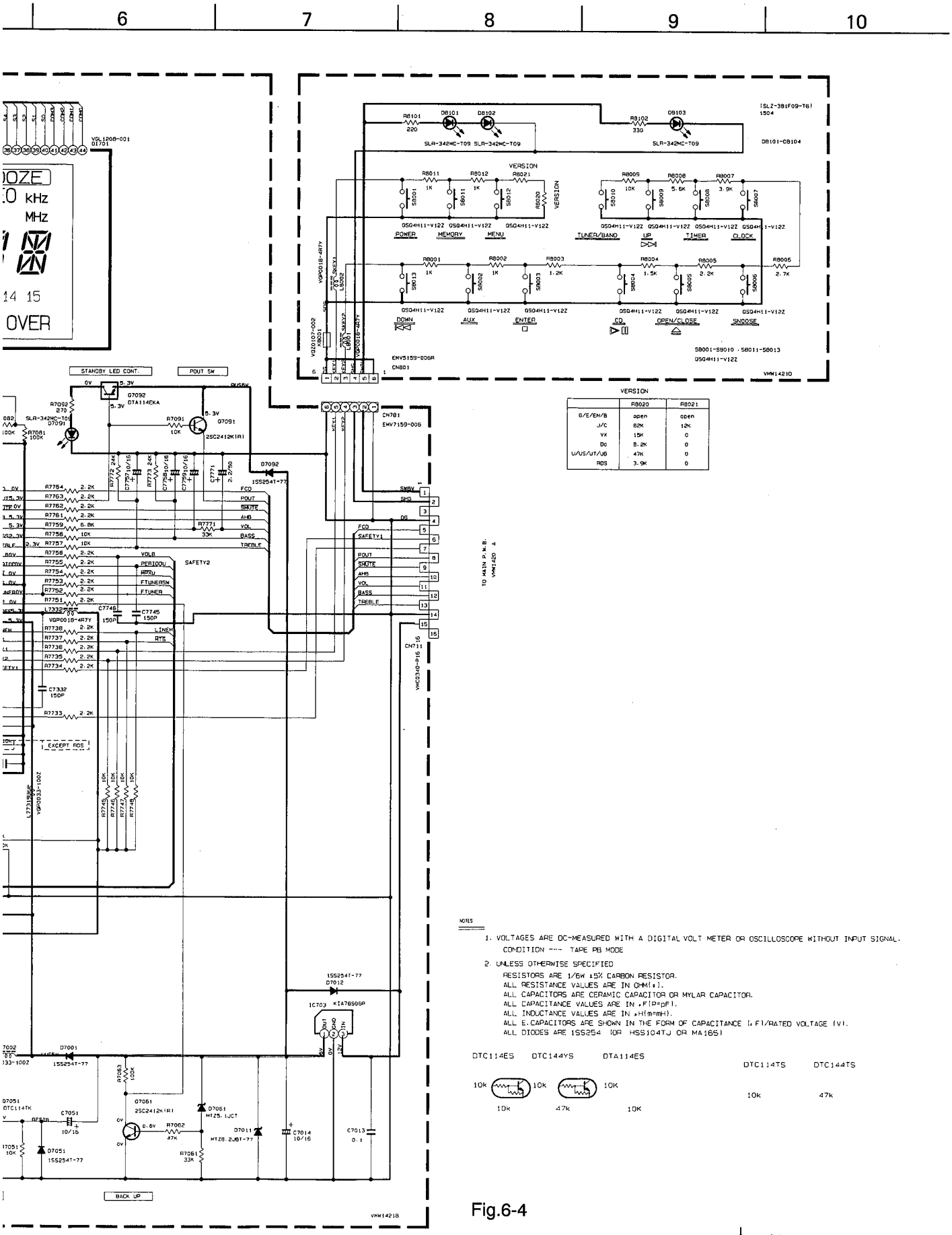
CD Analogue Signal
FM Radio Signal
AUX IN Signal VDH9291-001FW
+ B line

-- Dom/E/EN/G/VX/U/US/UB/UT/J/C --
UX-1000 · FS-1
UX-2000 · FS-1000
UX-2000R · FS-2000
UX-1500R

LCD & System CPU Circuit: Drawing No. VDH9291-005SV



Note : VDH9291005SV



VERSION	R8020	R8021
G/E/EN/B	open	open
J/C	82K	12K
VX	15K	0
Do	8.2K	0
U/US/UT/UB	47K	0
ROS	3.9K	0

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(±).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(=pF).
   ALL INDUCTANCE VALUES ARE IN μH(=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254 (OR HSS104TJ OR MA165)

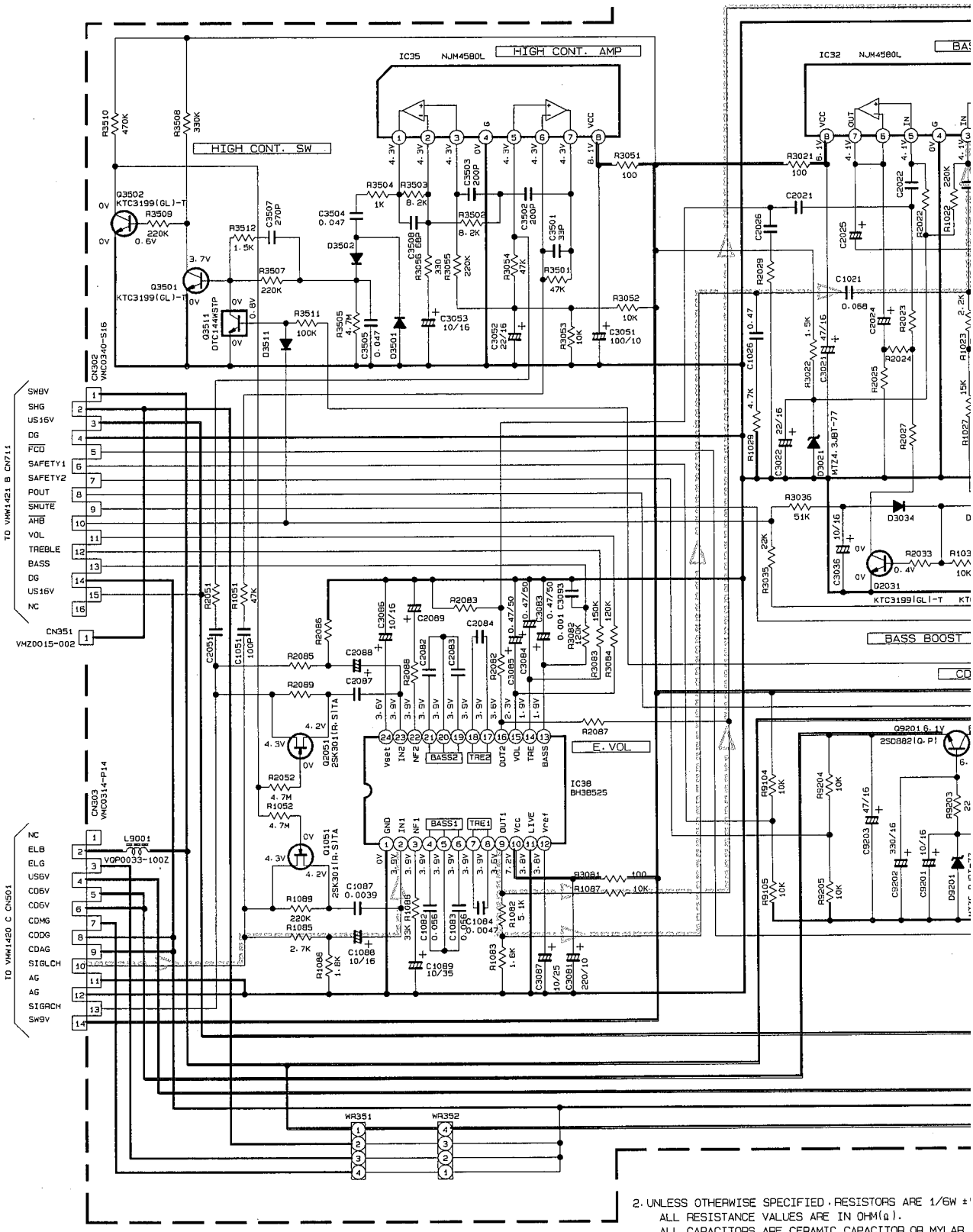
DTC114ES DTC144YS DTA114ES DTC114TS DTC144TS

10k 10k 10k 10k 10k 47k 10k

Fig.6-4

+B Line

■ Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-008AW

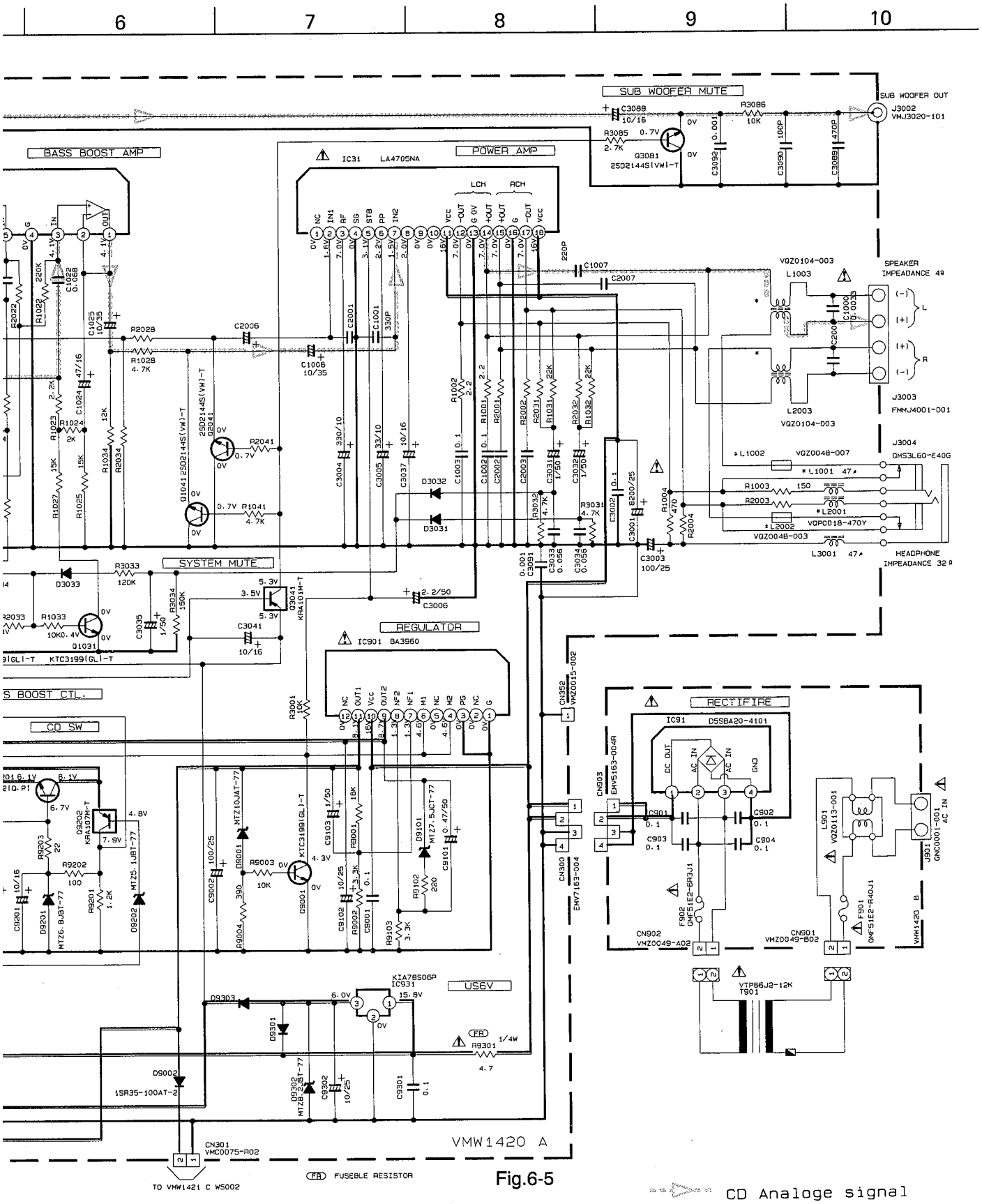


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION — FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR
   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 CAPA
   ALL DIODES ARE HSS104TJ OR 1SS254T-77

Note : VDH9291008AW



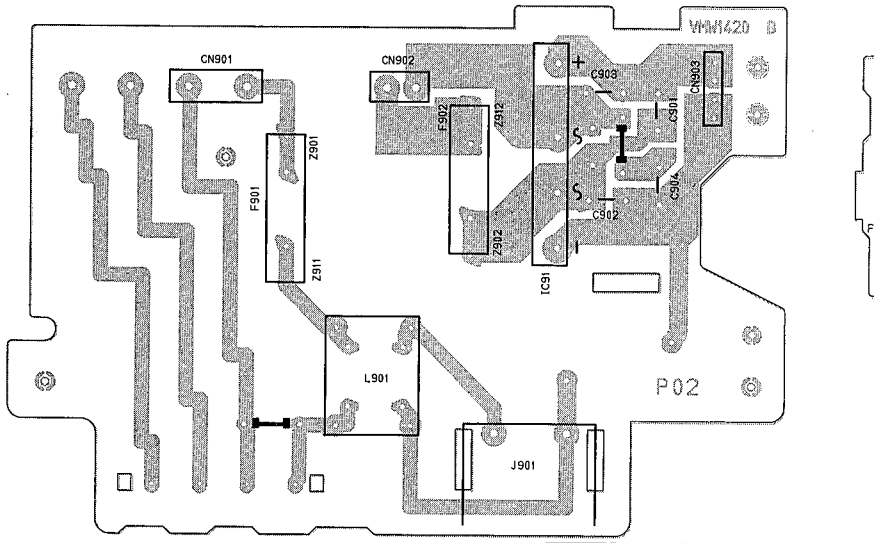
RE 1/6W ±5% CARBON RESISTOR.

OR MYLAR CAPACITOR.
:).
|.
3M OF CAPACITANCE (μF)/RATED VOLTAGE (V).
T-77

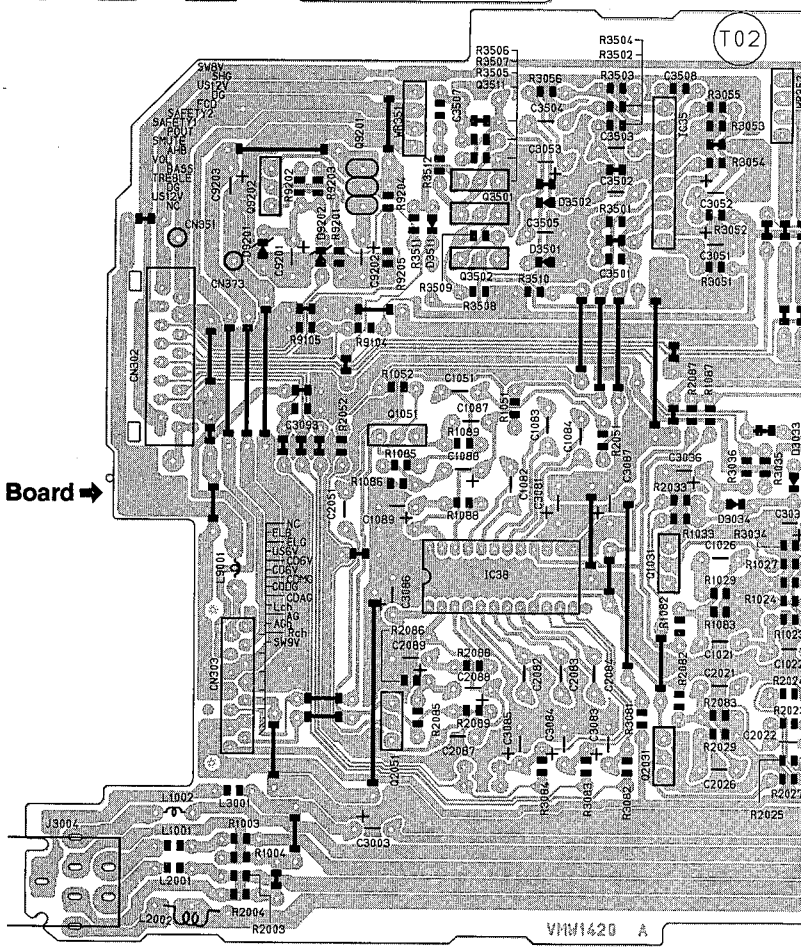
7.Location of P.C.Board Parts

■ Main Amplifier Board: Block No. 01

● Power Supply Board ➡

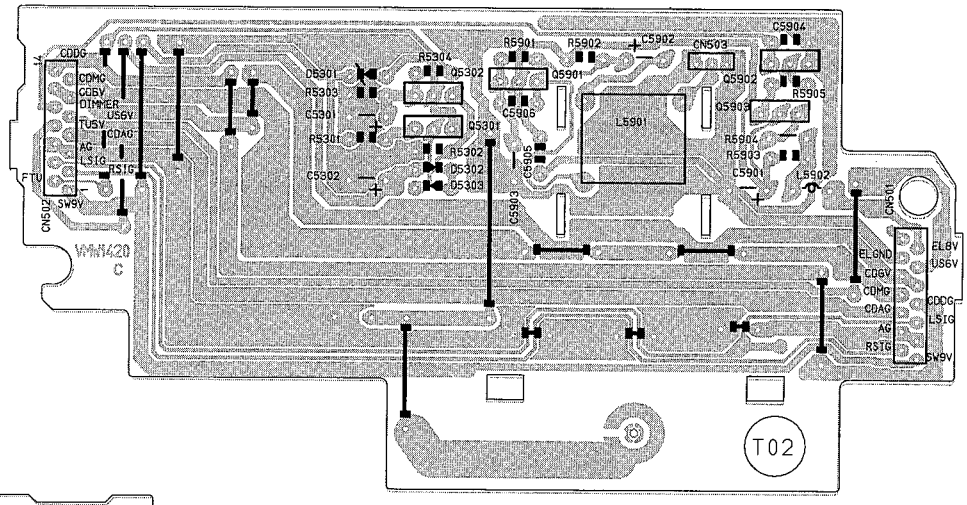


● Power Amplifier Board ➡



F

6 7 8 9 10



← ●Tuner Switch & EL Drive Board

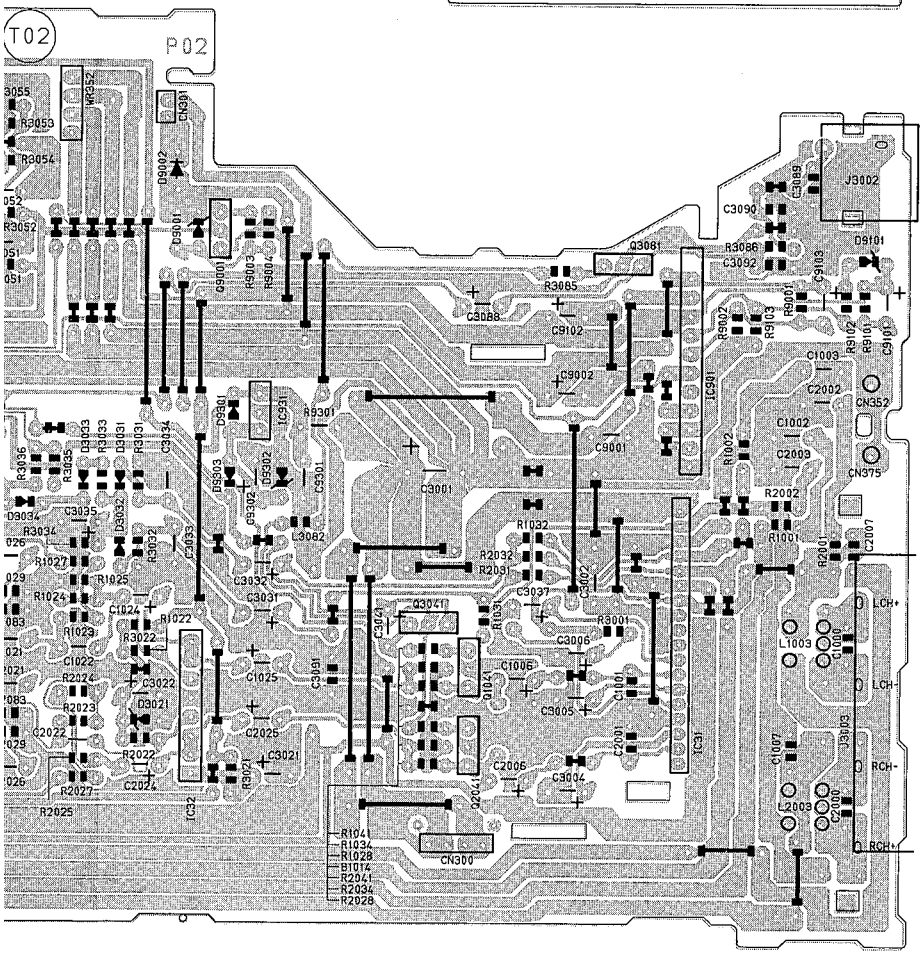


Fig.7-1

■ Tuner & System CPU Board: Block No. 02

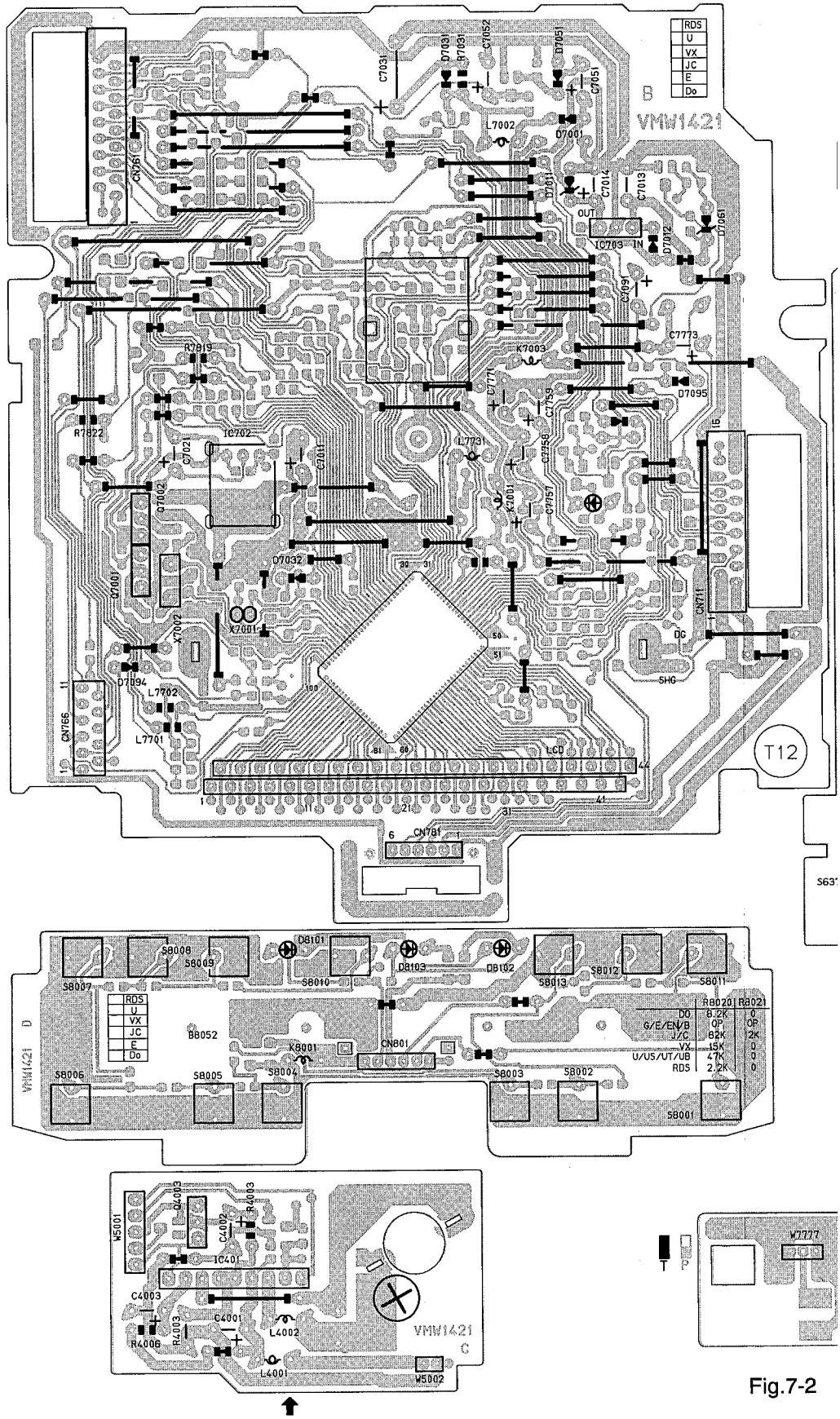
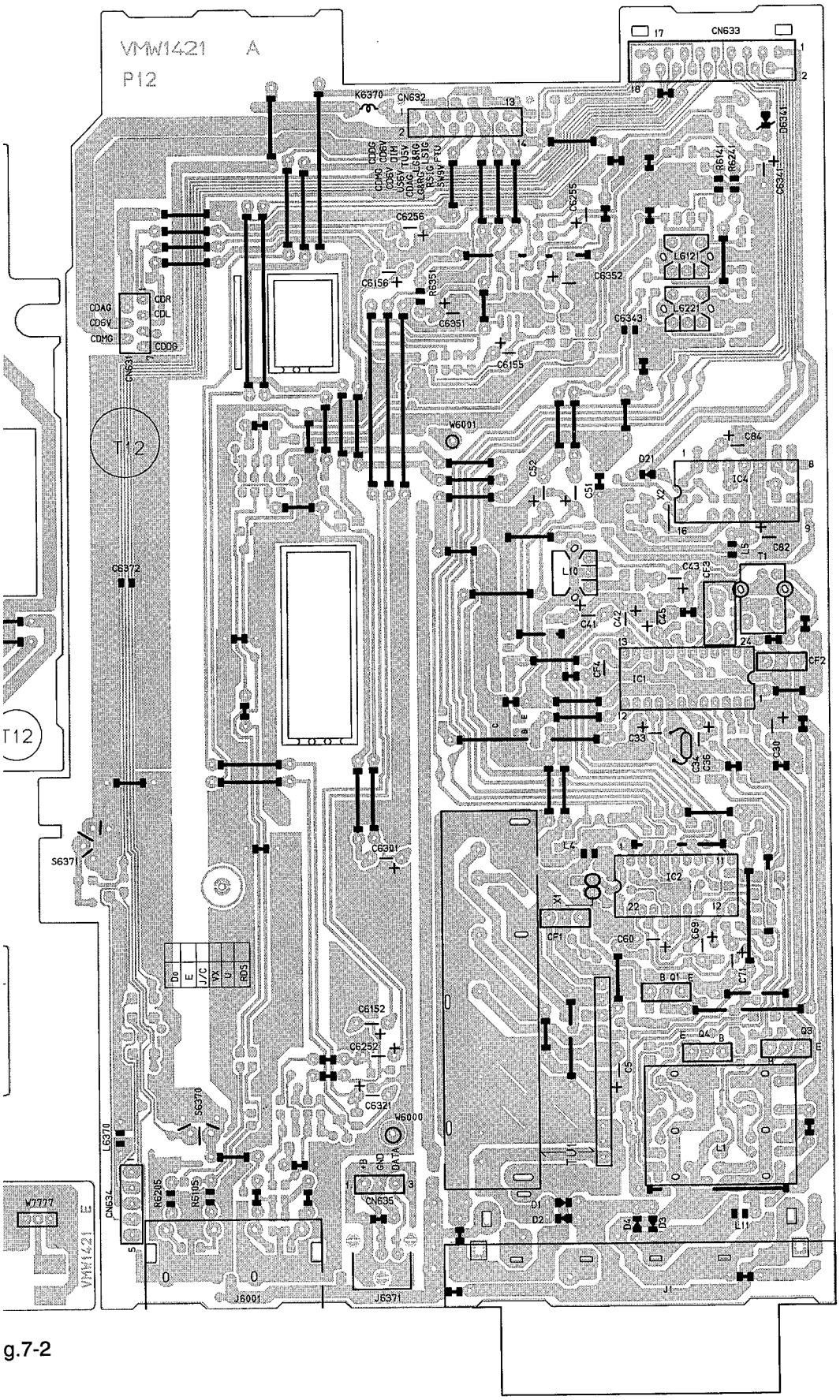


Fig.7-2

6 7 8 9 10



← ● Tuner Function Board

■ CD Servo Control Board : Block No. 03

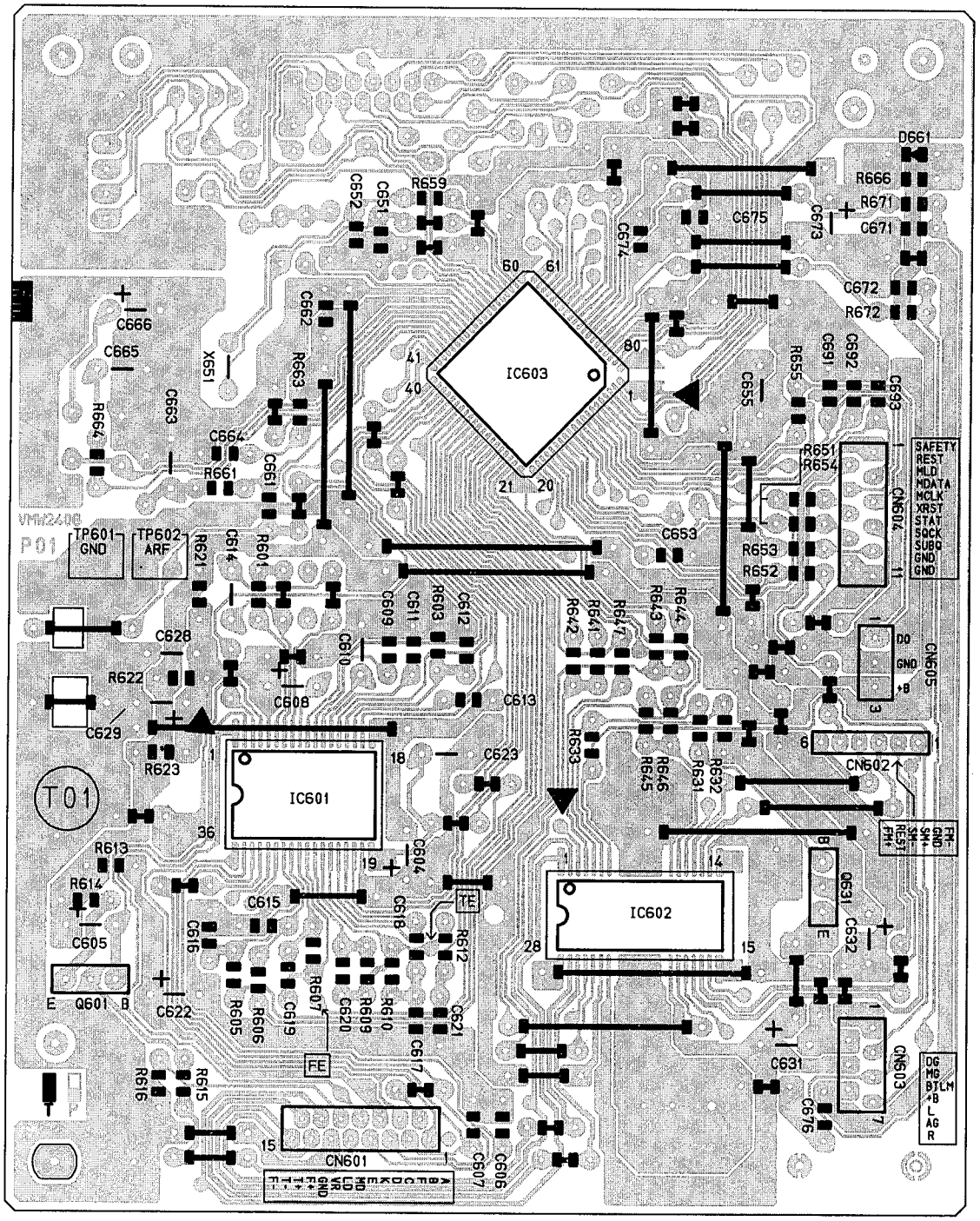
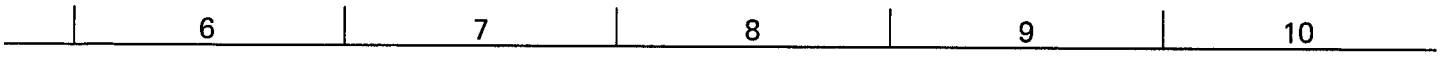


Fig.7-3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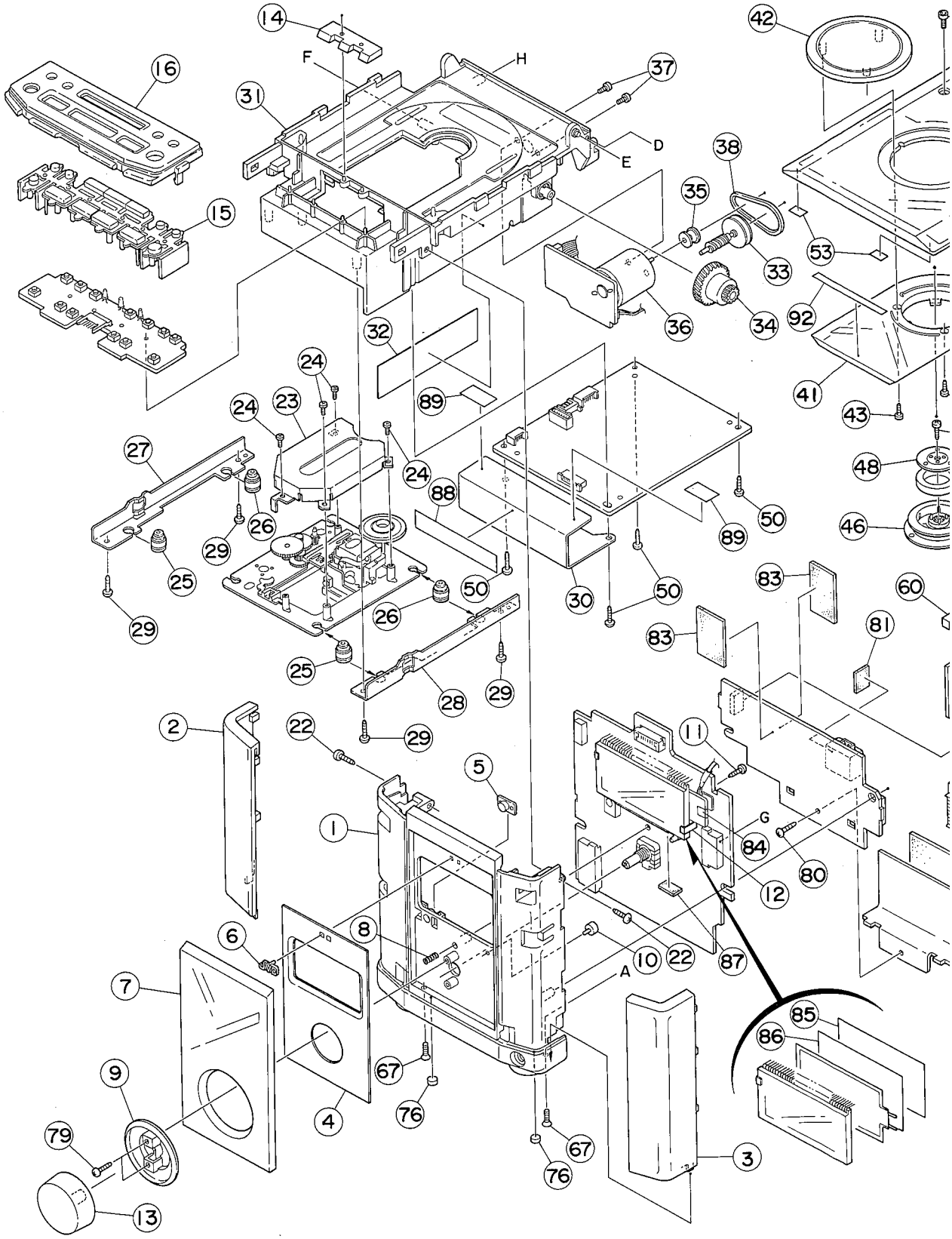
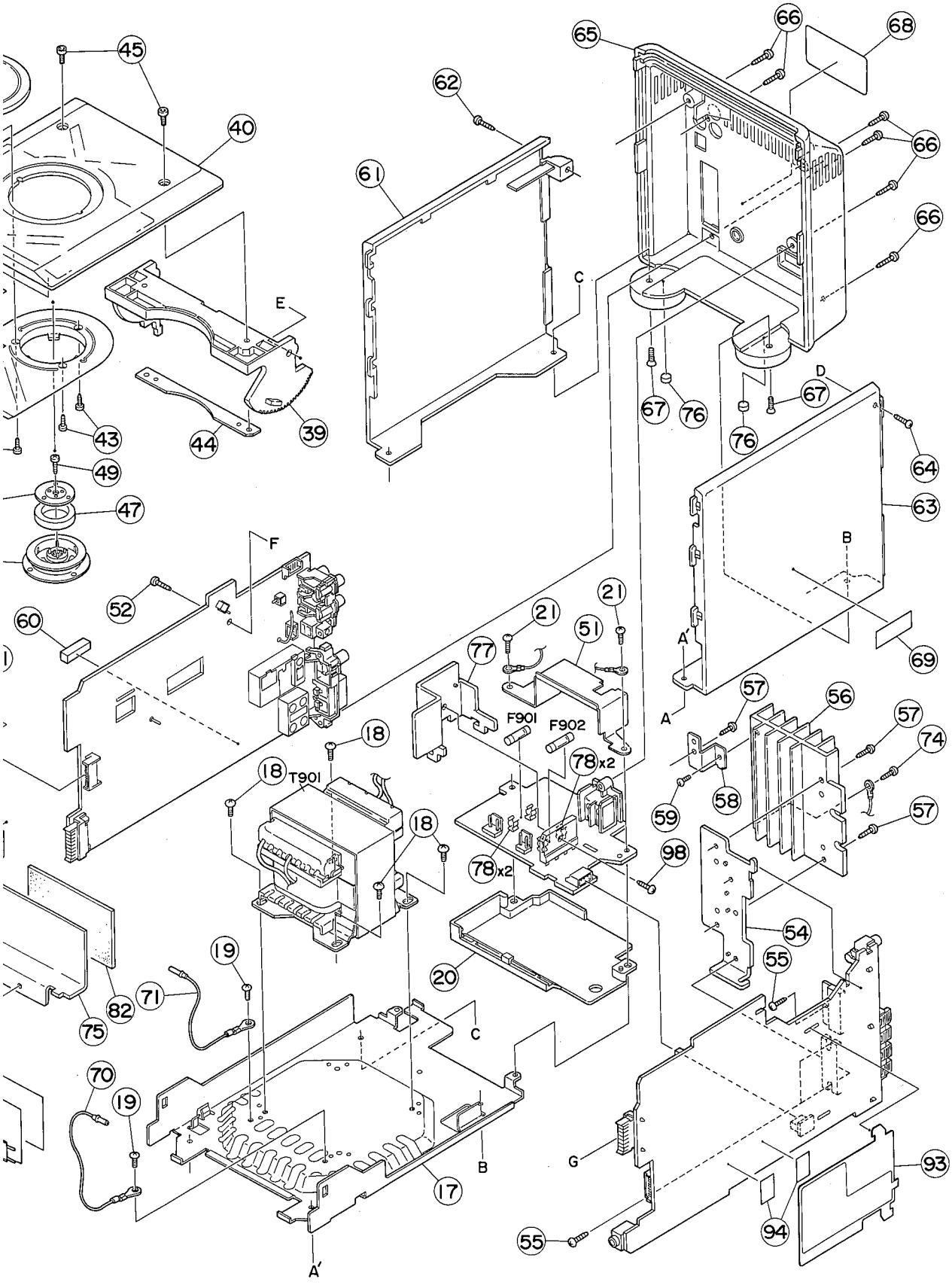
8.Analytic Drawing and Parts List

■ **Enclosure Assembly Section: Block No. M1**



6	7	8	9	10


45
40
62
61
65
66
68
66
66
C
E
43
44
39
49
47
67
76
76
67
D
64
63
B
F
52
60
21
21
51
77
A'
69
57
56
57
74
A
F901
F902
18
18
T901
78x2
58
59
57
18
78x2
98
54
55
20
19
71
82
75
C
70
19
17
B
G
93
55
94
A'

■ Enclosure Assembly Parts List

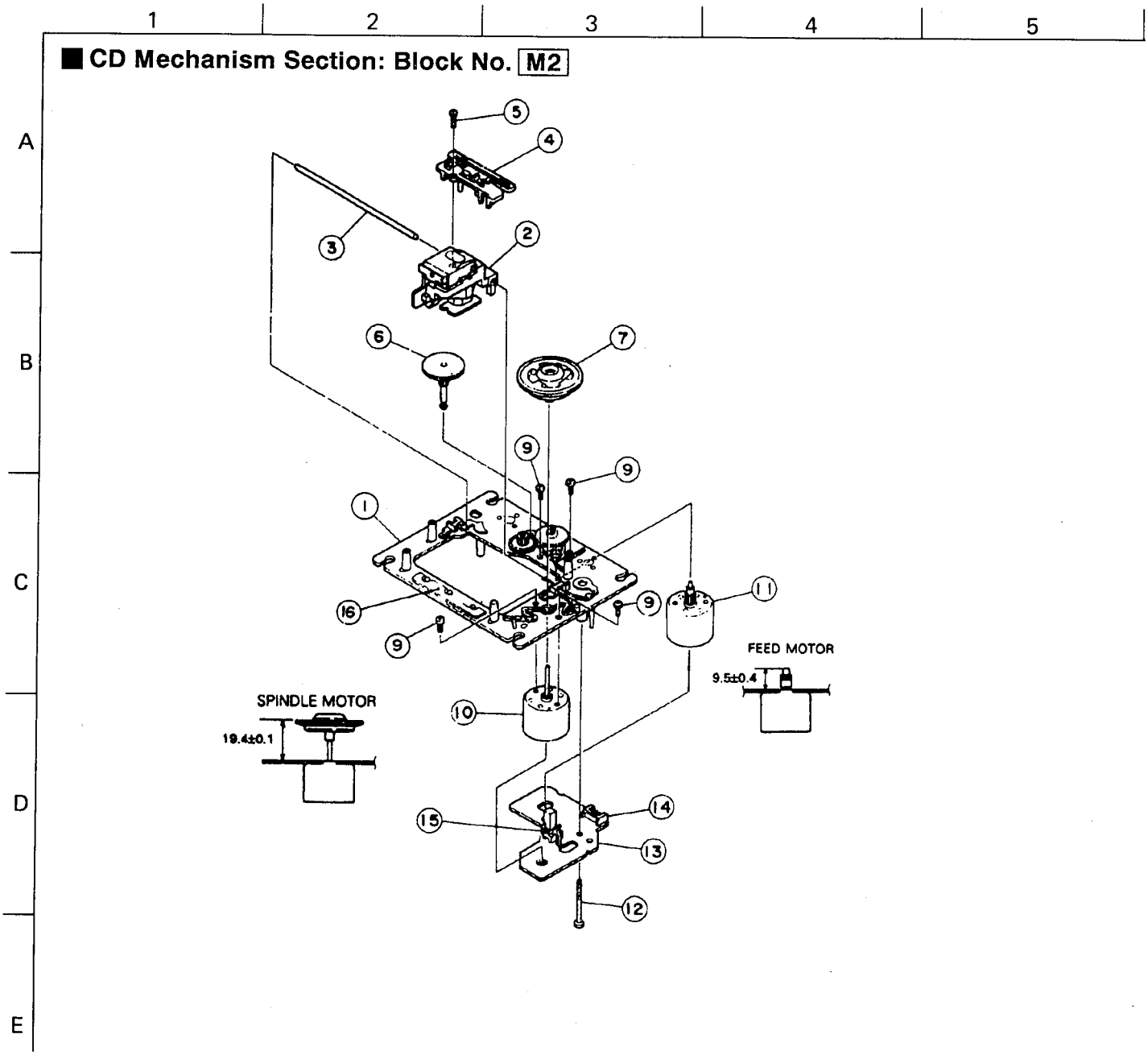
BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1426-009	FRONT PANEL		1		
	2	VJE3006-002SC	FITTING(L)		1		
	3	VJE3007-002SC	FITTING(R)		1		
	4	VJD5492-005	PLATE		1		
	5	E408131-001	REMOTE LENS		1		
	6	E406971-221	JVC MARK		1		
	7	VJK3699-002	FRONT LENS		1		
	8	VKW3001-321	COMP. SPRING		1		
	9	VJD5491-002	VOL ESCUTCHEON		1		
	10	VJK4493-001SC	LENS(STANDBY)		1		
	11	SBSF3012Z	SCREW	PWB + FRONT	1		
	12	VYH3944-002	LCD HOLDER		1		
	13	VXL4448-002SC	VOLUME KNOB		1		
	14	VJK4490-001SC	LED LENS		1		
	15	VXP3807-002SC	BUTTON		1		
	16	VJD2470-003	TOP PANEL		1		
	17	VKL1444-001	BOTTOM SHASSIS		1		
	18	SBST4006Z	SCREW	FOR TRANS	4		
	19	SBST3004Z	SCREW	FOR BOTTOM SHAS	2		
	20	VYH3939-001SC	AC HOLDER		1		
	21	SBST3008Z	SCREW	AC PWB+BARRIER	2		
	22	SBSF3012Z	SCREW		2		
	23	VJD5410-005	PICK COVER		1		
	24	SDSF2006M	SCREW		4		
	25	E75609-001	INSULATOR		2		
	26	E75609-002	INSULATOR		2		
	27	VYH8089-001	CD MECHA HOLDER		1		
	28	VYH8089-002	CD MECHA HOLDER		1		
	29	SBSF3012Z	SCREW	CD MECHA HOLDER	4		
	30	VMA4692-002	SHIELD		1		
	31	VJD1210-002	CD CASE		1		
	32	E406709-001	LASER CAUTION		1		
	33	VYH8090-001SC	GEAR 1		1		
	34	VYH8091-002SC	GEAR 2		1		
	35	VYH7699-001	PULLEY		1		
	36	MXN-13FB12F	DC MOTOR ASS'Y		1		
	37	SPSP3004Z	SCREW		2		
	38	VKB3000-170	BELT		1		
	39	VJE3014-001SC	CD DOOR		1		
	40	VJE3011-001	CD DOOR LENS		1		
	41	VJK3701-001SC	ILLUMI LENS		1		
	42	VJD5489-005	ORNAMENT		1		
	43	SDSF2006M	SCREW	FOR ILLUMI LENS	3		
	44	VJD5490-001SC	STOPPER		1		
	45	VKZ4765-001	S.BOLT(DIN)		2		
	46	VYH3726-001SS	CLAMPER		1		
	47	VYH7313-003	MAGNET		1		
	48	VYH7677-201	YOKE		1		
	49	SDSF2606Z	SCREW	FOR CLAMPER	1		
	50	SBSF3012Z	SCREW	CD CASE + CD PW	4		
	51	VMA4701-001	BARRIER		1		
	52	SBSF3012Z	SCREW	FOR TUNER PWB	1		
	53	VYSS1R1-108	SPACER	FOR DOOR LENS	2		
	54	VYH8093-001	IC HOLDER		1		
	55	SBSF3010Z	SCREW	FOR IC HOLDER	3		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	56	VMH3017-001	HEAT SINK		1		
	57	SBSF3012Z	SCREW	H.SINK+IC HOL,C	3		
	58	VYH8107-001	BRACKET	FOR H.SINK	1		
	59	SBST3008Z	SCREW	H.SINK+BRACKET	1		
	60	VYSH104-047	SPACER	FOR TUNER PWB	1		
	61	VJD2471-002SC	SIDE PANEL(L)		1		
	62	SBSF3012Z	SCREW	SIDE PANEL(L)	1		
	63	VJD2472-002SC	SIDE PANEL(R)		1		
	64	SBSF3012Z	SCREW	SIDE PANEL(R)	1		
	65	VJG1430-002SC	REAR COVER		1		
	66	SBSF3012Z	SCREW	REAR COVER	6		
	67	SSST3010Z	SCREW	BOTTOM	4		
	68	VYN9301-C002	NAME PLATE		1	B	
		VYN9301-C008	NAME PLATE		1	G	
		VYN9301-C005	NAME PLATE		1	E,EN	
	70	VWE240-12NTSA	LUG WIRE	FOR BOTTOM SHAS	1		
	71	VWE240-10NTSA	LUG WIRE	FOR BOTTOM SHAS	1		
	72	E70891-001	CLASS 1 LABEL		1		
	74	SBSF3012Z	SCREW	H.SINK + WIRE	1		
	75	VMA4706-002	SHIELD		1		
	76	VJF4055-001	FOOT		4		
	77	VYH8094-002SC	HEAT SINK		1		
	78	EMG7331-003Z	FUSE CLIP	F901,F902	4		
	79	SBSF3012Z	SCREW	FOR VOL ESCUTC	2		
	80	SBSF3010Z	SCREW	FOR LCD PWB	1		
	81	VYSR102-062	SPACER	FOR LCD PWB	1		
	82	VYSR102-063	SPACER	FOR LCD SHIELD	1		
	83	VYSR102-066	SPACER	FOR LCD PWB	2		
	84	PU59915-105	SPACER	FOR EL	1		
	85	VYSS1R1-109	SPACER	FOR EL	1		
	86	VYSS1R1-110	SPACER	FOR EL	1		
	87	VYSS1R5-080	SPACER	FOR LCD	1		
	88	VYSA1R4-050	SPACER	FOR SHIELD	1		
	89	VYSA1R6-021	SPACER	FOR SHIELD	2		
	92	VYST1R1-003	SPACER	FOR ILLMI LENS	1		
	93	VMA4702-002	SHIELD	FOR MAIN PWB	1		
	94	PU59915-105	SPACER	FOR MAIN PWB	1		
	98	SBSF3010Z	SCREW	FOR HEAT SINK	1		
⚠	F 901	QMF51E2-R40SBS	FUSE	PRI	1		
⚠	F 902	QMF51E2-6R3J1	FUSE	SEC	1		
⚠	T 901	VTP66J2-12K	POWER TRANS		1		

■ CD Mechanism Section: Block No. M2



■ CD Mechanism Parts List

BLOCK NO. M2MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	BASE ASS'Y		1		
	2	OPTIMA-6S	PIC-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

9.Electrical Parts List

■ Main Amplifier Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
⚠	C 901	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 902	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 903	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 904	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	CN300	EMV7163-004	CONNECTOR		
	CN301	VMC0075-R02	CONNECTOR	CD DOOR	
	CN302	VMC0340-S16	CONNECTOR	MICOM	
	CN303	VMC0314-P14	CONNECTOR	EL/TU/CONN	
	CN351	VMZ0015-002	POST PIN	SHARSHI EARTH	
	CN352	VMZ0015-002	POST PIN	SHARSHI EARTH	
	CN371	VMZ0015-011	STYLE PIN	WR352 WIRE CLAM	
	CN373	VMZ0015-011	STYLE PIN	CN351 S WIRE CL	
	CN375	VMZ0015-011	STYLE PIN	CN352 WIRE CLAM	
	CN501	VMC0314-S14	CONNECTOR		
	CN502	VMC0301-S14	CONNECTOR		
	CN503	VMC0075-003	CONNECTOR		
	CN901	VMZ0049-B02	CONNECTOR	PRI	
	CN902	VMZ0049-A02	CONNECTOR	SEC	
	CN903	EMV5163-004R	CONNECTOR	MAIN	
	C1000	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
	C1001	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C1002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C1003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C1006	QTE1V06-106Z	E.CAPACITOR		
	C1007	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C1021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C1022	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C1024	QTE1C06-476Z	E CAP. SILMIC		
	C1025	QTE1V06-106Z	E.CAPACITOR		
	C1026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
	C1051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C1084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C1087	EFZ0101-392S	P.P.CAPACITOR		
	C1088	QTE1V06-106Z	E.CAPACITOR		
	C1089	QTE1V06-106Z	E.CAPACITOR	VOL IC GAIN +4D	
	C2000	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
	C2001	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C2002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C2003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C2006	QTE1V06-106Z	E.CAPACITOR		
	C2007	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C2021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C2022	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C2024	QTE1C06-476Z	E CAP. SILMIC		
	C2025	QTE1V06-106Z	E.CAPACITOR		
	C2026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
	C2051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C2084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C2087	EFZ0101-392S	P.P.CAPACITOR		
	C2088	QTE1V06-106Z	E.CAPACITOR		
	C2089	QTE1V06-106Z	E.CAPACITOR	VOL IC GAIN +4D	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C3001	QETM1EM-828	E.CAPACITOR	8200MF 20% 25V	
	C3002	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C3003	QET41EM-107	E CAPACITOR	100MF 20% 25V	
	C3004	EETC1AM-337ZE	E.CAPACITOR		
	C3005	QETC1AM-336ZN	E CAPACITOR	33MF 20% 10V	
	C3006	QETC1HM-225ZM	E CAPACITOR	2.2MF 20% 50V	
	C3021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C3022	QTE1C06-226Z	E CAP. SILMIC		
	C3031	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C3032	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C3033	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
	C3034	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
	C3035	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3036	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3037	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3041	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C3051	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C3052	QET41CM-226	E CAPACITOR	22MF 20% 16V	
	C3053	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3081	QET41AM-227	E CAPACITOR	220MF 20% 10V	
	C3083	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3084	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3085	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3086	EETB1CM-106E	E.CAPACITOR		
	C3087	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3088	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C3089	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C3090	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C3091	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C3092	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C3093	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C3501	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C3502	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3503	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3504	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3505	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3507	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C3508	QCS11HJ-680	C.CAPACITOR	68PF 5% 50V	
	C5301	QET41HM-475	E CAPACITOR	TU SW	
	C5302	QET41AM-107	E CAPACITOR	TU SW	
	C5901	QET41CM-227	E CAPACITOR	220MF 20% 16V	
	C5902	QER61EM-685Z	E.CAPACITOR	6.8MF 20% 25V	
	C5903	QFLC1HJ-333ZM	M.CAPACITOR	.033MF 5% 50V	
	C5904	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C5905	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C5906	QCBB1HK-102Y	C.CAPACITOR	-10 KISEIHATUSI	
	C9001	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C9002	QET41EM-107	E CAPACITOR	100MF 20% 25V	
	C9101	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C9102	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C9103	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C9201	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C9202	QETC1CM-337ZM	E CAPACITOR	330MF 20% 16V	
	C9203	QET41CM-476	E CAPACITOR	47MF 20% 16V	
	C9301	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C9302	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	D3021	MTZ4.3JB	ZENER DIODE		
	D3031	1SS133	SI DIODE		
	D3032	1SS133	SI DIODE		
	D3033	1SS133	SI DIODE		
	D3034	1SS133	SI DIODE		
	D3501	1SS133	SI DIODE		
	D3502	1SS133	SI DIODE		
	D3511	RB721Q	DIODE		
	D5301	MTZ3.9JB	ZENER DIODE	TU SW	
	D5302	1SS133	SI DIODE	TU SW	
	D5303	1SS133	SI DIODE	TU SW	
	D9001	MTZ10JAT-77	ZENER DIODE		
	D9002	1SR35-100A-T2	SI DIODE	STANDBY MOTOR	
	D9101	MA4075(M)	ZENER DIODE		
	D9201	MTZ6.8JB	ZENER DIODE		
	D9202	MTZ5.1JB	ZENER DIODE		
	D9301	1SS133	SI DIODE		
	D9302	MTZ8.2JB	ZENER DIODE		
	D9303	1SS133	SI DIODE		
⚠	IC 31	LA4705NA	IC	POWER AMP	
	IC 32	NJM4580LD	IC	AHB AMP	
	IC 35	NJM4580L	IC		
	IC 38	BH3852S	IC	E VOL	
⚠	IC 91	D5SBA20-4101	SI DIODE		
⚠	IC901	BA3960	IC	REG	
⚠	IC931	KIA78S06P-T	IC		
⚠	J 901	QNC0001-001	AC SOCKET 8TYPE		
	J3002	VMJ3020-101	1PIN PINJ BLACK	SUB WOOFER	
	J3003	FMMJ4001-001	SPK TERMINAL	SPEAKER	
	J3004	QMS3L60-E40G	3.5 JACK		
	L 901	VQZ0113-001	INDUCTOR		
	L1001	VQP0018-470	INDUCTOR		
	L1002	VQZ0048-007	INDUCTOR		
	L1003	VQZ0104-003	INDUCTOR		
	L2001	VQP0018-470	INDUCTOR		
	L2002	VQZ0048-003	INDUCTOR		
	L2003	VQZ0104-003	INDUCTOR		
	L3001	VQP0018-470	INDUCTOR		
	L5901	VQH1009-042	OSC.COIL		
	L5902	VQP0033-100Z	INDUCTOR		
	L9001	VQP0033-100Z	INDUCTOR	EL&MICON NOISE	
	Q1031	KTC3199(GL)-T	TRANSISTOR		
	Q1041	2SD2144S(VW)	TRANSISTOR		
	Q1051	2SK301(P,Q)	TRANSISTOR		
	Q2031	KTC3199(GL)-T	TRANSISTOR		
	Q2041	2SD2144S(VW)	TRANSISTOR		
	Q2051	2SK301(P,Q)	TRANSISTOR		
	Q3041	KRA101M-T	TRANSISTOY		
	Q3081	2SD2144S(VW)	TRANSISTOR	BASS MUTE	
	Q3501	KTC3199(GL)-T	TRANSISTOR		
	Q3502	KTC3199(GL)-T	TRANSISTOR		
	Q3511	DTC144WSTP	TRANSISTOR		
	Q5301	KTA1267(YG)-T	TRANSISTOR	TU SW	
	Q5302	KTC3199(GL)-T	TRANSISTOR	TU SW	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q5901	2SD2144S(VW)	TRANSISTOR		
	Q5902	KRC102M-T	D.TRANSISTOR	FOR DIMMER	
	Q5903	2SA952(L,K)	TRANSISTOR		
	Q9001	KTC3199(GL)-T	TRANSISTOR		
	Q9201	2SD882(P,Q)	TRANSISTOR		
	Q9202	KRA107M-T	TRANSISTOR		
	R1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R1003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R1022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R1023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R1024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R1025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R1027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R1028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R1029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R1031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R1034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R1041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R1051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R1052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R1082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
	R1083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
	R1085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R1086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R1087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R1088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
	R1089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R2001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R2002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R2004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R2022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R2023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R2024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R2025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R2027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R2028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R2032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R2034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R2041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R2052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R2082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
	R2083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
	R2085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R2086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R2087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R2088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
	R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3052	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3053	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3054	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R3055	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3056	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R3086	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3501	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R3502	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R3503	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R3504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R3505	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R3507	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3508	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R3509	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3510	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R3511	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R3512	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R5301	QRD161J-390	CARBON RESISTOR	TU SW	
	R5302	QRD161J-102	CARBON RESISTOR	TU SW	
	R5303	QRD161J-563	CARBON RESISTOR	TU SW	
	R5304	QRD161J-472	CARBON RESISTOR	TU SW	
	R5901	QRD161J-270	CARBON RESISTOR	27 5% 1/6W	
	R5902	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R5903	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R5904	QRZ0077-470	F RESISTOR	47 1/0W	
	R5905	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R9001	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R9002	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9003	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9004	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R9102	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R9103	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9104	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9105	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9201	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R9202	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R9203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R9204	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9205	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
⚠	R9301	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	

■Tuner & System CPU Board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BL701	ESPR10005	EL PANEL(BLUE)	LCD BACK LIGHT	
	C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 5	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 8	NCS21HJ-150AY	C.CAPACITOR	15PF 5% 50V	
	C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 12	NCT21CH-150AY	C CAPACITOR	15PF +50:-10% 1	
	C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 17	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 19	NCB21HK-471AY	C CAPACITOR	470PF 10% 50V	
	C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 31	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 34	NCS21HJ-150AY	C.CAPACITOR	15PF 5% 50V	
	C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	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	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 45	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
	C 55	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 60	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 66	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 67	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 69	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V	
	C 71	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 80	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 81	NCS21HJ-470AY	C CAPACITOR	47PF 5% 50V	
	C 82	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 83	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 84	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 85	NCB21HK-331AY	C CAPACITOR	330PF 10% 50V	
	C 86	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
	C 89	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 90	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	CF 1	VCF2M3B-104	CERAMIC FILTER	FM IF	
	CF 2	VCF2S3B-102	C FILTER	FM IF	
	CF 3	VCF1Z2Z-115Z	CERAMIC FILTER		
	CF 4	CMU2-456A05	CERA LOCK		
	CN631	VMC0163-R07	CONNECTOR		
	CN632	VMC0314-P14	CONNECTOR		
	CN633	VMC0340-S18	CONNECTOR		
	CN634	VMC0041-005	CONNECTOR		
	CN635	VMC0040-003	CONNECTOR		
	CN711	VMC0340-P16	CONNECTOR	TO MAIN	
	CN761	VMC0340-P18	CONNECTOR	TO FUNC.TUNER	
	CN766	VMC0163-R11	CONNECTOR	TO CD	
	CN781	EMV7159-006	CONNECTOR BTOB	TO SW	
	CN801	EMV5159-006R	B TO B CONNECTO	TO MICOM	
	C4001	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C4002	QETCOJM-227ZN	E CAPACITOR	220MF 20% 6.3V	
	C4003	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C6102	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C6121	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6122	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6124	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6150	NCS21HJ-300AY	C CAPACITOR	30PF 5% 50V	
	C6151	NCS21HJ-100AY	C.CAPACITOR	10PF 5% 50V	
	C6152	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6155	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6156	QTE1C03-106Z	E.CAPACITOR		
	C6202	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C6221	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6222	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6224	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6250	NCS21HJ-300AY	C CAPACITOR	30PF 5% 50V	
	C6251	NCS21HJ-100AY	C.CAPACITOR	10PF 5% 50V	
	C6252	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6255	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6256	QTE1C03-106Z	E.CAPACITOR		
	C6301	QER61HM-684ZM	E.CAPACITOR	.68MF 20% 50V	
	C6302	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6321	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C6322	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6341	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C6343	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C6351	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C6352	QTE1V06-106Z	E.CAPACITOR		
	C6353	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V	
	C6370	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C6371	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C6372	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C6373	NCB21HK-182AY	C CAPACITOR	1800PF 10% 50V	
	C6374	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C6375	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6376	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7001	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	
	C7002	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	
	C7004	NCS21HJ-360AY	C CAPACITOR	36PF 5% 50V	
	C7005	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C7006	NCS21HJ-200AY	C CAPACITOR	20PF 5% 50V	
	C7007	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
	C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7011	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7013	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C7014	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C7021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7026	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7027	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7031	EECS0HD473H	E.D.L. CAPA.		
	C7051	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C7052	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7081	NCB21HK-102AY	C CAPACITOR	MICOM NOISE	
	C7091	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7702	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7704	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C7719	NCS21HJ-271AY	C CAPACITOR	MICOM NOISE	
	C7721	NCS21HJ-271AY	C CAPACITOR	MICOM NOISE	
	C7722	NCS21HJ-271AY	C CAPACITOR	MICOM NOISE	
	C7723	NCS21HJ-271AY	C CAPACITOR	MICOM NOISE	
	C7731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7757	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7758	QER61HM-335ZM	E.CAPACITOR	3.3MF 20% 50V	
	C7759	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7771	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C7773	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C7783	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7787	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 3	1SS133	SI DIODE		
	D 4	1SS133	SI DIODE		
	D 21	RB721Q	DIODE		
	DI701	VGL1208-001S	L.C.D.		
	D6341	MTZ6.2JB	ZENER DIODE		
	D7001	1SS133	SI DIODE	US5V	
	D7011	MTZ8.2JB	ZENER DIODE		
	D7012	1SS133	SI DIODE		
	D7031	1SS133	SI DIODE	BACK UP	
	D7032	1SS133	SI DIODE	XKILL	
	D7051	1SS133	SI DIODE	RESET	
	D7061	MTZ5.1JC	ZENER DIODE	BACK UP	
	D7091	SLR-342VC-T09	LED RED H8.9MM	STANDBY LED	
	D7092	1SS133	SI DIODE		
	D7094	1SS133	SI DIODE		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D7095	1SS133	SI DIODE		
	D8101	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
	D8102	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
	D8103	SLZ-481C09-T6	LED	CD DOOR	
	IC 1	TA2057N	IC		
	IC 2	LC72136	IC		
	IC 4	SAA6579	IC		
	IC401	TA8409S	IC		
	IC666	BA15218F	IC	FUNCTION	
	IC701	UPD78063GF-111	IC	SYSTEM MICON	
	IC702	SBX1971-52	RM.RECIVER		
	IC703	KIA78S06P-T	IC		
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
	JS701	VCV7003-001	ROTARY ENCODER		
	J6001	VMJ3025-001	4PIN JACK ASSY		
	J6371	GP1F32T	OPTICAL JACK		
	K6370	VQZ0048-007	INDUCTOR		
	K7001	VQZ0107-002	INDUCTOR	VSS	
	K7003	VQZ0107-002	INDUCTOR		
	K8001	VQZ0107-002	INDUCTOR		
	L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
	L 4	VQP0018-221	INDUCTOR		
	L 5	VQP0018-101	INDUCTOR		
	L 10	VQZ0069-002S	TRAP COIL	114KHZ TRAP	
	L 11	VQP0018-2R7	INDUCTOR		
	L4001	VQP0028-221Z	INDUCTOR		
	L4002	VQZ0107-002	INDUCTOR		
	L6121	EQF0101-010	FILTER		
	L6221	EQF0101-010	FILTER		
	L6370	VQP0018-100	INDUCTOR		
	L7002	VQP0033-100Z	INDUCTOR	SW5V	
	L7332	VQP0018-4R7	INDUCTOR	AVREF	
	L7701	VQP0018-4R7	INDUCTOR	SDATA	
	L7702	VQP0018-4R7	INDUCTOR	SCK	
	L7731	VQP0033-100Z	INDUCTOR	AVDD	
	Q 1	2SC2668(O)	TRANSISTOR		
	Q 2	DTA114YKA-X	TRANSISTOR		
	Q 3	KTC3199(GL)-T	TRANSISTOR		
	Q 4	KTC3199(GL)-T	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037K(R)	TRANSISTOR		
	Q 8	2SA1037K(R)	TRANSISTOR		
	Q 14	2SA1037K(R)	TRANSISTOR		
	Q4001	2SC2412KK1	TRANSISTOR		
	Q4002	2SC2412KK1	TRANSISTOR		
	Q4003	DTC143TS	TRANSISTOR		
	Q6101	2SC2412KK1	TRANSISTOR		
	Q6121	2SC2412KK1	TRANSISTOR		
	Q6141	2SC2412KK1	TRANSISTOR		
	Q6201	2SC2412KK1	TRANSISTOR		
	Q6221	2SC2412KK1	TRANSISTOR		
	Q6241	2SC2412KK1	TRANSISTOR		
	Q6301	2SC2412KK1	TRANSISTOR		
	Q6321	DTA114EKA-X	TRANSISTOR		
	Q6341	DTA114EKA-X	TRANSISTOR		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q7001	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7002	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7031	2SA1037AK(RS)-X	HIP TRANSISTOR	SW5V	
	Q7051	DTC114TK-T146	TRANSISTOR	RESET	
	Q7061	2SC2412KK1	TRANSISTOR	BACK UP	
	Q7091	2SC2412KK1	TRANSISTOR	POUT SW	
	Q7092	2SA1037AK(RS)-X	HIP TRANSISTOR	STANDBY LED CON	
	Q7784	DTC144TKA-X	TRANSISTOR	TUNER DATA CONT	
	R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
	R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 76	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 80	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 82	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 83	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 84	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 91	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4001	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R4002	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
	R4003	QRD14CJ-3R9S	UNF.C.RESISTOR	3.9 5% 1/4W	
	R4004	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4005	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R4006	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R6101	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6102	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6103	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6104	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6105	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R6106	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6121	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6122	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6123	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6141	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R6142	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R6143	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6144	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6145	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6151	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6152	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6156	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6157	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6201	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6202	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6203	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6204	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6205	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R6206	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6221	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6222	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6223	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6224	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6241	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R6242	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6243	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6244	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6245	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6251	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6252	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6256	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6257	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6341	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6351	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R6352	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6353	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6370	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
	R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7028	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7029	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7031	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7084	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7091	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7092	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R7093	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7095	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7096	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7097	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7706	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7714	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7736	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7737	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7738	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R7742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7745	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7746	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7747	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7749	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7751	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7752	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7753	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7755	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7756	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7757	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7758	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7759	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7761	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7762	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7763	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7764	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7771	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7772	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7773	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7774	NRSA02J-0RONY	MG RESISTOR	5% 1/10W	
	R7775	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7781	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7783	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7784	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7785	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7819	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
	R7821	NRSA02J-102NY	MG RESISTOR	MICOM NOISE	
	R7822	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
	R7823	NRSA02J-102NY	MG RESISTOR	FOR B7854	
	R8001	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8003	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R8009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8020	NRSA02J-222NY	MG RESISTOR	VERSION	
	R8021	NRSA02J-0RONY	MG RESISTOR	VERSION	
	R8101	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R8102	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	S6370	VSH1153-002	SWITCH		
	S6371	VSH1153-002	SWITCH		
	S8001	QSQ4H11-V12Z	TACT SWITCH		
	S8002	QSQ4H11-V12Z	TACT SWITCH		
	S8003	QSQ4H11-V12Z	TACT SWITCH		
	S8004	QSQ4H11-V12Z	TACT SWITCH		
	S8005	QSQ4H11-V12Z	TACT SWITCH		
	S8006	QSQ4H11-V12Z	TACT SWITCH		
	S8007	QSQ4H11-V12Z	TACT SWITCH		
	S8008	QSQ4H11-V12Z	TACT SWITCH		
	S8009	QSQ4H11-V12Z	TACT SWITCH		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S8010	QSQ4H11-V12Z	TACT SWITCH		
	S8011	QSQ4H11-V12Z	TACT SWITCH		
	S8012	QSQ4H11-V12Z	TACT SWITCH		
	S8013	QSQ4H11-V12Z	TACT SWITCH		
	T 1	VQT7A21-113	IFT		
	TU 1	VAF2S13-001	FRONT END	FM TU	
	W6000	VMZ0015-005	POST PIN		
	W6001	VMZ0015-002	POST PIN		
	X 1	VCX5044-001	CRYSTAL		
	X 2	VCX5057-001	CRYSTAL		
	X7001	VCX5000-002	CRYSTAL	CLOCK	
	X7002	M2Z4.19	CERA LOCK	MAIN CLOCK	

■ CD Servo Control Board

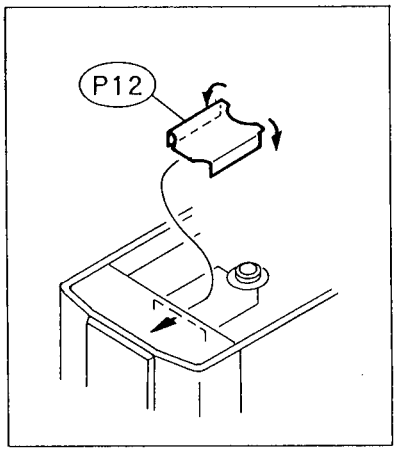
BLOCK NO. 03

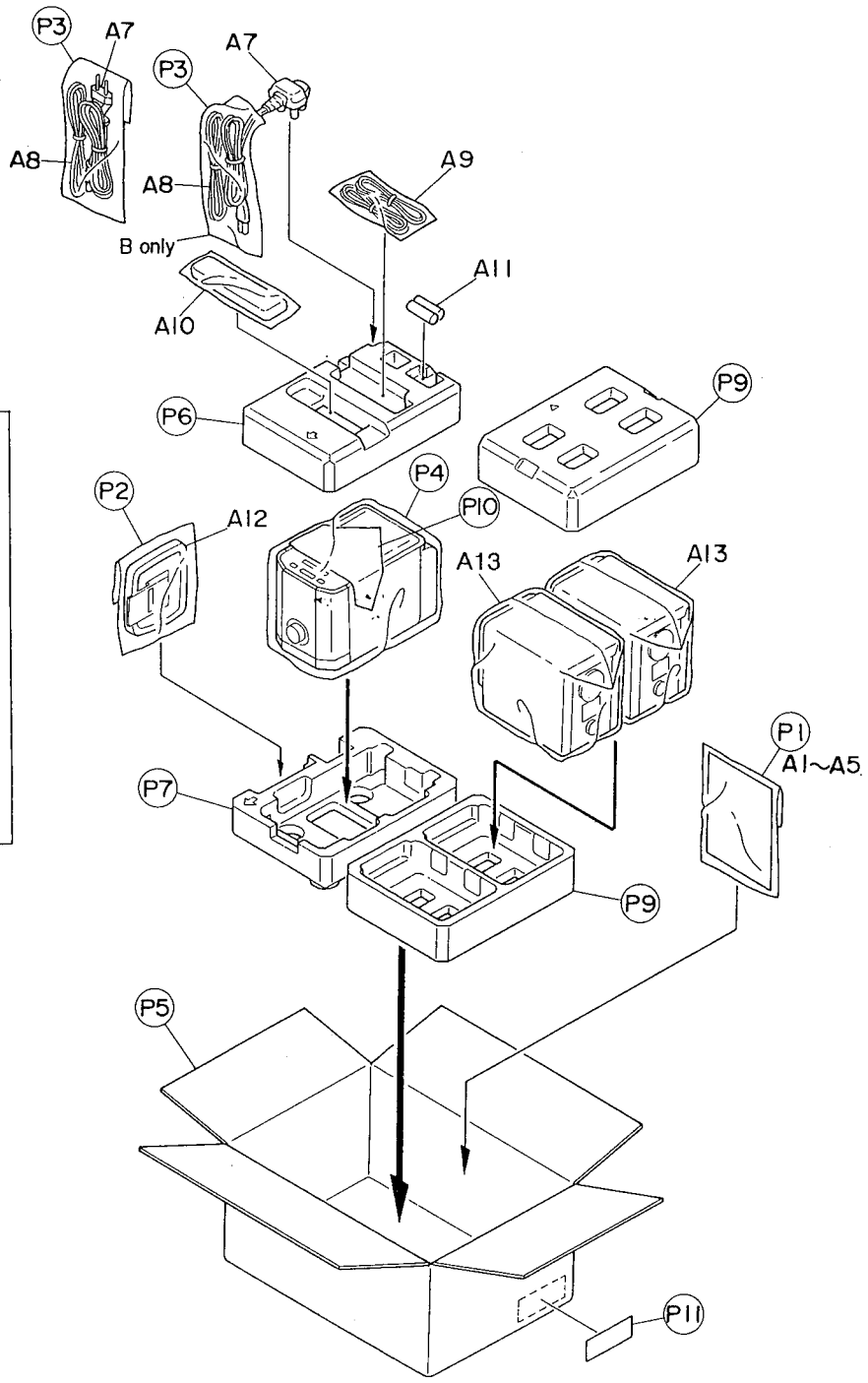
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
	C 605	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
	C 606	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 607	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 608	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 609	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 610	QFLC1HJ-273ZM	M.CAPACITOR	.027MF 5% 50V	
	C 611	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 612	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 613	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 614	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C 615	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 616	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 617	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 618	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 619	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 620	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
	C 621	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 622	QET41AM-476	E.CAPACITOR	47MF 20% 10V	
	C 623	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C 628	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 629	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 631	QET41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 632	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
	C 651	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 652	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 653	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 655	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 661	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 662	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 663	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
	C 664	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
	C 671	QCXB1CM-152Y	C.CAPACITOR	1500PF 20% 16V	
	C 672	QCXB1CM-152Y	C.CAPACITOR	1500PF 20% 16V	
	C 673	QTE1C05-227	E CAPACITOR		
	C 674	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 675	QCBB1HK-102Y	C.CAPACITOR	AG-DG	
	C 676	QCBB1HK-102Y	C.CAPACITOR	AG-DG	
	C 691	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	C 692	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	C 693	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	CN601	EMV7144-015R	15PIN CONNECTOR	TO RF	
	CN603	VMC0163-R07	CONNECTOR	TO AUDIO	
	CN604	VMC0163-R11	CONNECTOR	TO MICON	
	CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
	D 661	1SS133	SI DIODE		
	IC601	AN8806SB	IC	RF AMP	
⚠	IC602	BA6897FP	IC	DRIVER	
	IC603	MN35510	IC	1CHIP PROCESSER	
	Q 601	2SA952(L,K)	TRANSISTOR		
	Q 631	2SA952(L,K)	TRANSISTOR		
	R 601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
	R 605	QRD167J-134	C.RESISTOR	130K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
	R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 609	QRD161J-114	C.RESISTOR	110K 5% 1/6W	
	R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
	R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
	R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
	R 621	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 622	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 623	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 631	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

10.Packing





■ Packing Parts List

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
	P 2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
	P 3	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
	P 4	VPE3020-018	POLY BAG		1		
	P 5	VPC9301-C002	CARTON		1		
	P 6	VPH1695-001	CUSHION	DECK:FRONT	1		
	P 7	VPH1695-002	CUSHION	DECK:REAR	1		
	P 9	VPH2481-001	SPK CUSHION		2		
	P 10	VPK3001-012	SHEET		1		
	P 11	----------	CARTON LABEL	4975769135330	1		
	P 12	VPK4236-010	SPACER		1		

■ Accessories

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9292-271C	INSTRUCTIONS		1	EN	
		VNN9292-671C	INSTRUCTIONS		1	B	
		VNN9292-251C	INSTRUCTIONS		1	E	
		VNN9292-261C	INSTRUCTIONS		1	E,EN,G	
	A 2	BT-54003-1	WARRANTY CARD		1	B	
		BT-54006-1	WARRATY CARD		1	G	
	A 3	BT-20066A	SERBICE NIT LIS		1	B	
	A 4	VNA1001-029	USER CARD		1	B	
	A 5	E43486-340B	SAFETY SHEET		1	B	
	A 7	QMP5520-183BS	POWER CORD		1	B	
		QMP39F0-183	POWER CORD		1	E,EN,G	
	A 8	EWP503-001	ANT.WIRE	FM ANT.	1		
	A 9	VMP0133-001	SPK.CORD(2PCS)		1		
	A 10	VGR0055-401	REMOCON UNIT	RM-RXU2000RGR	1		
	A 11	R6SPTT-2STSA	BATTERY	FOR REMOCON	1		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
	A 13	UX1000K-SPBOX	SPEAKER		2		
	SVP 1	VYTB430	SARAN NET ASSY	SERVICE PARTS	2		
	SVP 2	VGS0801-010	SPEAKER	SERVICE PARTS	2		

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