

JVC

SERVICE MANUAL

POWERED WOOFER CD SYSTEM

RV-DP100BK



COMPACT
disc
DIGITAL AUDIO

Area Suffix

B	U.K.
E	Continental Europe
EN	Northern Europe
EV	Eastern Europe
EE	Russian Federation
U	Other Areas
US	Singapore

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Preventing static electricity

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

1.1. Grounding to prevent damage by static electricity

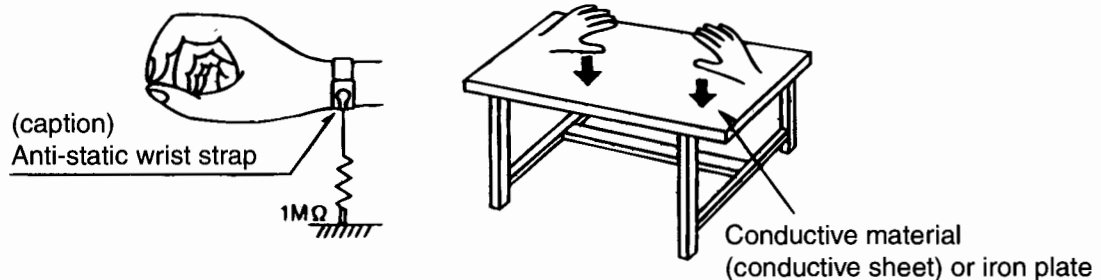
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players. Be careful to use proper grounding in the area where repairs are being performed.

1.1.1. Ground the workbench

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

1.1.2. Ground yourself

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



1.1.3. Handling the optical pickup

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

1.2. Handling the traverse unit (optical pickup)

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

Dismantling and assembling the CD mechanism assembly

1. Notice regarding replacement of optical pickup

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

(Refer to the section regarding anti-static measures.)

1. Do not touch the area around the laser diode and actuator.
2. Do not check the laser diode using a tester, as the diode may easily be destroyed.
3. It is recommended that you use a grounded soldering iron when shorting or removing the laser diode. Recommended soldering iron: HAKKO ESD-compatible product
4. Solder the short-circuit land on the optical pickup unit.

* In accordance with the following steps, solder the short-circuit land properly.

1. Remove the four screws attaching the micon board as shown in Fig1.
(Refer to "Disassembly method", page 2-8.)
2. Raise the micon board as shown in Fig. 2.
3. Prior to disconnecting the card wire from the connector CN601 on the micon board, solder the short-circuit land on the pickup unit.
4. When reassembling, unsolder the short-circuit land on the pickup unit after connecting the card wire.

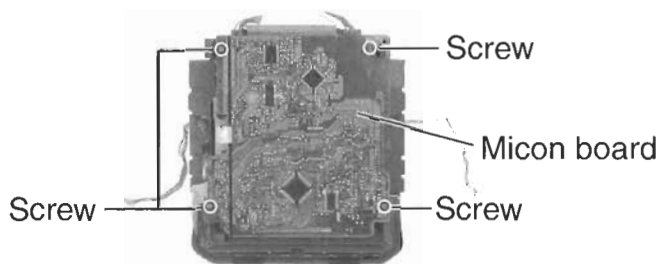


Fig.1

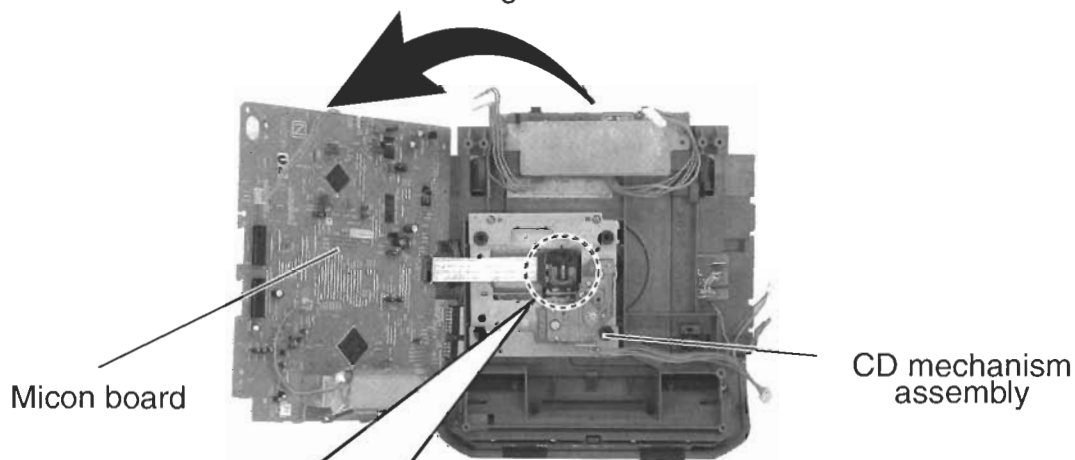
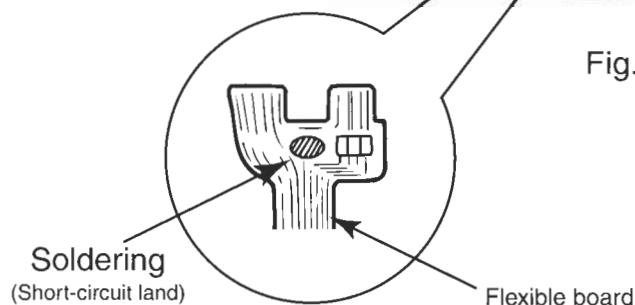


Fig.2



Safety precautions

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

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

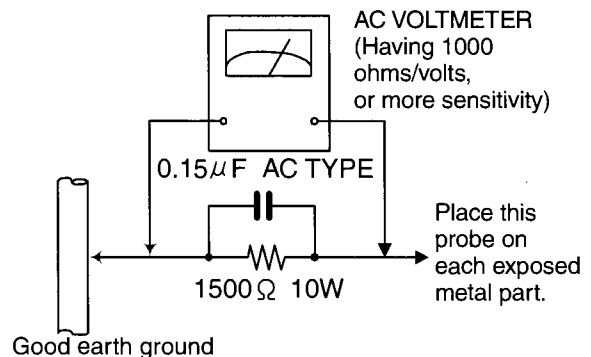
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA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

- Alternate check method

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

Measure the AC voltage across the resistor with the AC voltmeter.

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



Warning

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

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

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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

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

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

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

ADVARSEL : Usynlig laserstrålning ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

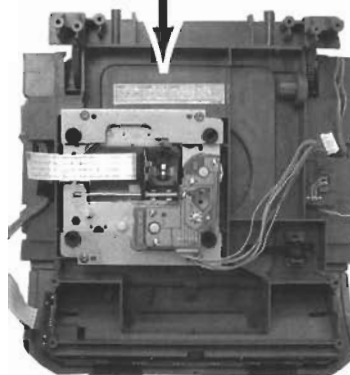
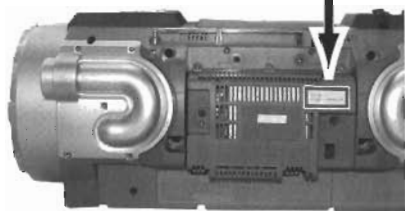
DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)

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

WARNING : Osynlig laserstrålning är denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

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

CLASS 1
LASER PRODUCT



Disassembly method

<How to disassemble>

■ Replacing the fuses..... Described at the end of "Disassembly method".(Page 2-10)

■ Removing the cabinet.....

- 1) Remove the side grilles.
Remove the two screws on the front of each speaker.
- 2) Remove the mixing unit and the scratch & rhythm unit on the upper right and left sides of the body.
- 3) Remove the ten screws attaching the cabinet on the back of the body.
- 4) The front cabinet comes off.

■ Power amplifier board

- 1) After disassembling the cabinet, remove the CD unit and transformer.
- 2) Remove the three screws attaching the power amplifier assembly
(Use an offset screwdriver to remove the screw on the bottom).

<Main Body>

■ Removing the side grilles (See Fig.1)

1. Remove the four screws A attaching the side grille on the left side of the body. Pull out the side grille from the body outward.
2. Remove the side grille on the right side in the same way.

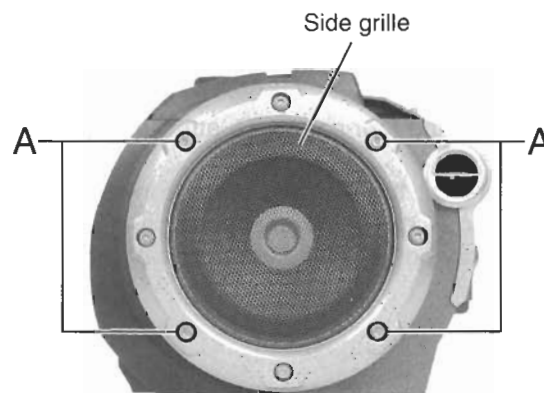


Fig.1

■ Removing the woofer speakers

(See Fig.2)

- Prior to performing the following procedure, remove the right and left side grilles.

※ When disassembling without removing the woofer speaker, remove the two screws B on the front of each speaker.

1. Remove the four screws B attaching the woofer speaker on the left side of the body.
2. Disconnect the harness from the speaker terminal on the back of the woofer speaker.
3. Remove the woofer speaker on the right side in the same way.

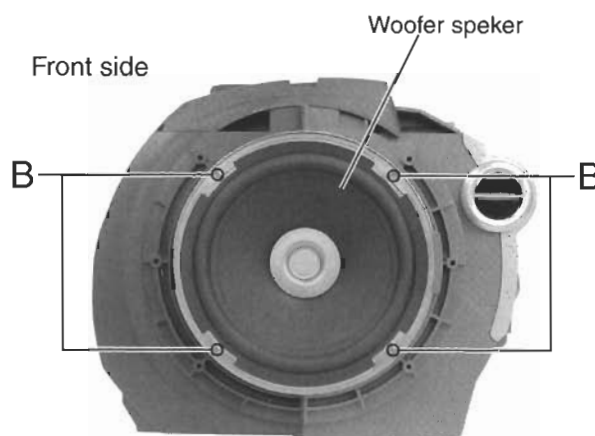


Fig.2

**■Removing the scratch & rhythm unit
(See Fig.3 and 4)**

• Prior to performing the following procedure, remove the left side grilles.

1. Remove the four screws C attaching the scratch & rhythm unit.
2. Disconnect the harness from connector CN924 of the scrstch & rhythm board on the underside of the scratch & rhythm unit.

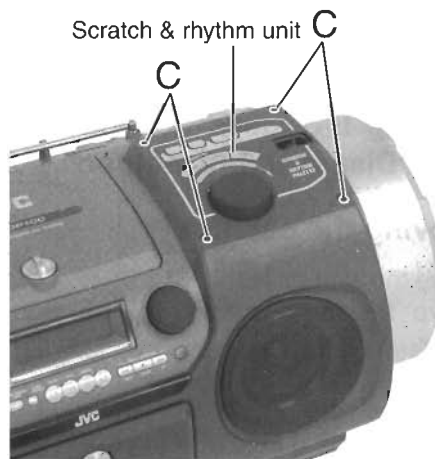


Fig.3

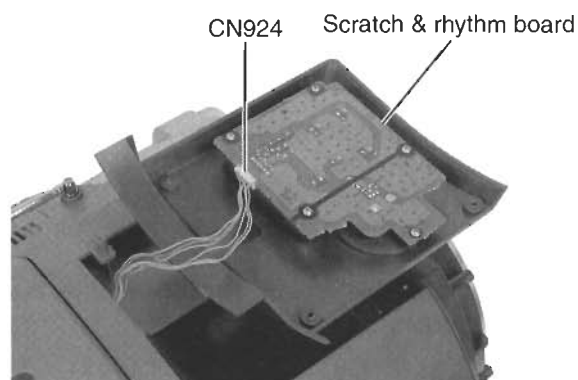


Fig.4

**■Removing the mixing unit
(See Fig.5 and 6)**

• Prior to performing the following procedure, remove the right side grilles.

1. Remove the four screws D attaching the mixing unit.
2. Disconnect the harness from connector CN424 on the mic & guitar volume board and CN923 on the drum key board on the underside of the mixing unit.

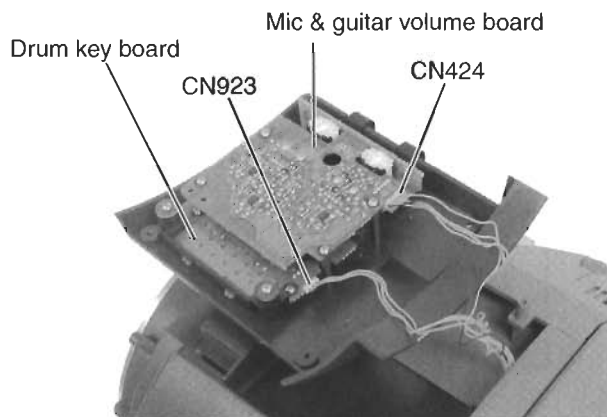


Fig.6

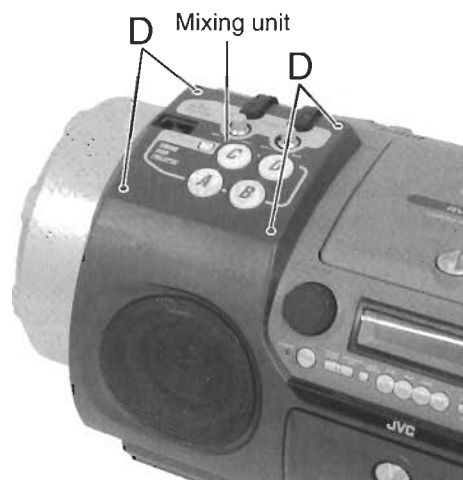


Fig.5

■ Removing the front cabinet and the rear cabinet (See Fig.7 and 8)

- Prior to performing the following procedure, remove the side grilles, the woofer speakers, the scratch & rhythm unit and the mixing unit.

ATTENTION: The front cabinet can be removed on condition that the front two screws B attaching the woofer speakers are removed.

1. Remove the ten screws E attaching the rear cabinet on the back of the body.
2. Remove the front cabinet and the rear cabinet (The speaker terminal inside the front cabinet comes off at the same time).

ATTENTION: When reassembling, make sure that connector CN192 of the rear cabinet is connected to the speaker terminal on the front cabinet.

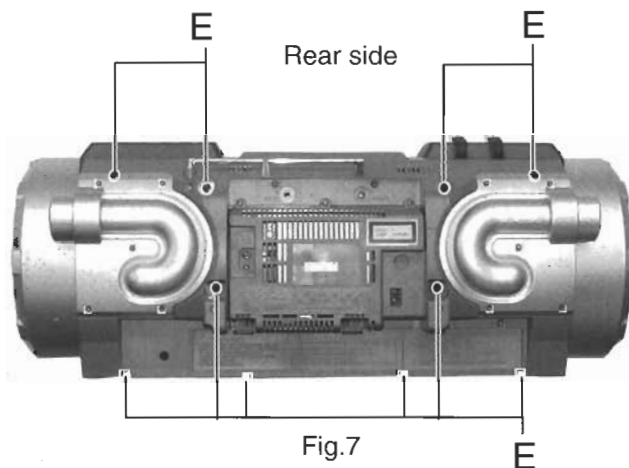


Fig.7

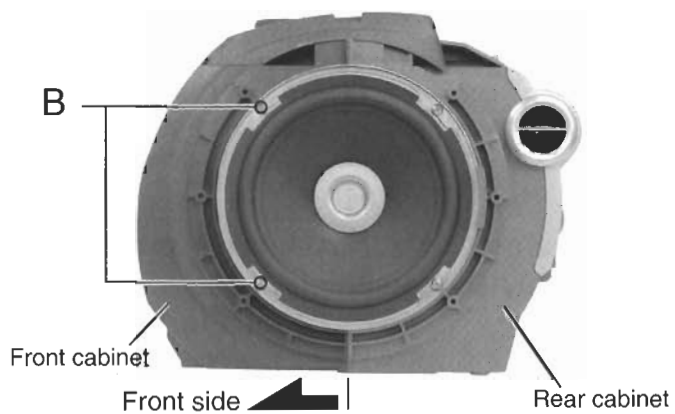


Fig.8

<Rear cabinet>

- Prior to performing the following procedure, remove the front cabinet and the rear cabinet.

■ Removing the CD unit (See Fig.9 to 12)

1. Remove the two screws F attaching the CD unit on the back of the rear cabinet.
2. Disconnect the card wires from connector CN916 on the micon board and CN415 and CN413 on the main switch board in the lower left part of the CD unit.
3. Pull out the CD unit toward the front. The connector CN417 and CN418 of the micon board in the lower rear part of the CD unit are disconnected from the main switch board at the same time.

CAUTION: When reassembling, make sure that connector CN417 and CN418 of the CD unit are connected to connector CN427 and CN428 on the power aboard correctly.

■ Removing the cassette mechanism assembly & head shield.

(See Fig.10 and 11)

1. Disconnect the card wires from connector CN916 on the micon board and CN415 on the main switch board in the lower left part of the CD unit.
2. Remove the four screws G attaching the cassette mechanism assembly & head shield. Detach the cassette mechanism assembly toward the front.

■ Removing the tuner board (See Fig.13)

1. Disconnect the card wire from connector CN1 on the tuner board.
2. Remove the antenna wire from TP1 on the tuner board.
3. Remove the two screws H attaching the tuner board holder.
4. Pull out the tuner board toward the front.

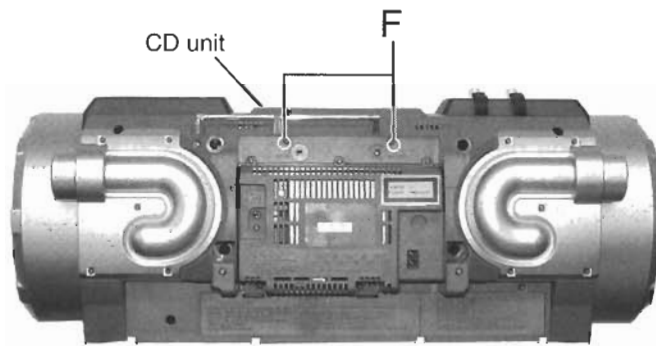


Fig.9

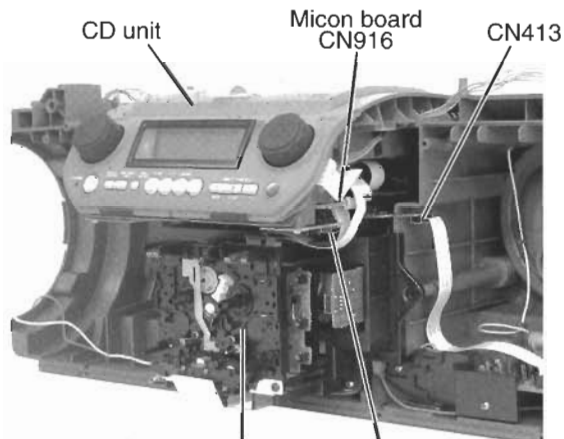


Fig.10

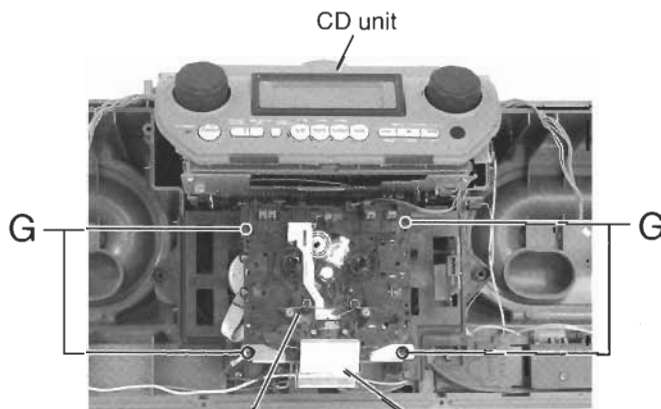


Fig.11

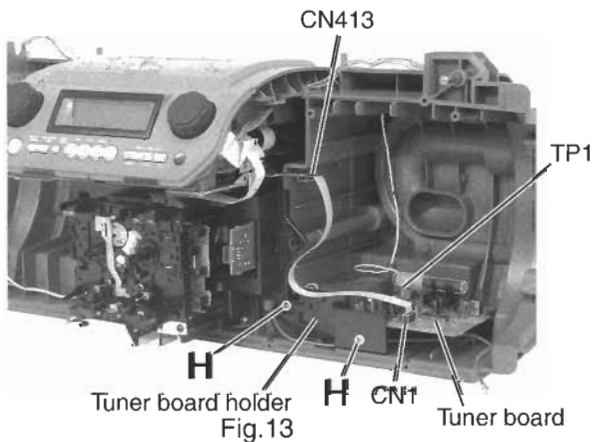


Fig.13

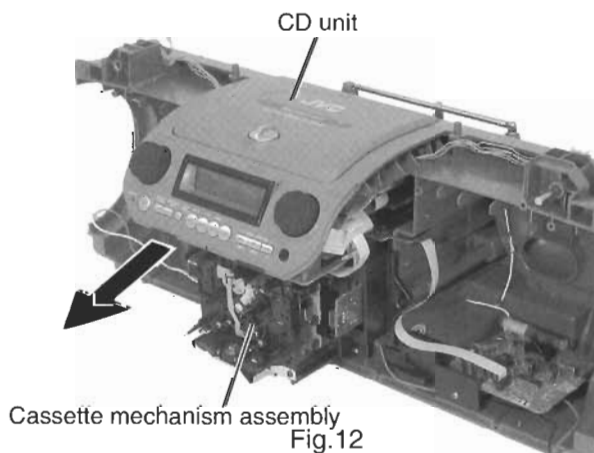
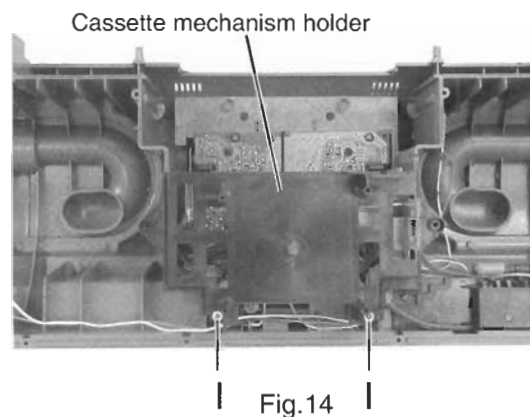


Fig.12

■ Removing the cassette mechanism holder (See Fig.14)

- Prior to performing the following procedure, remove the cassette mechanism.

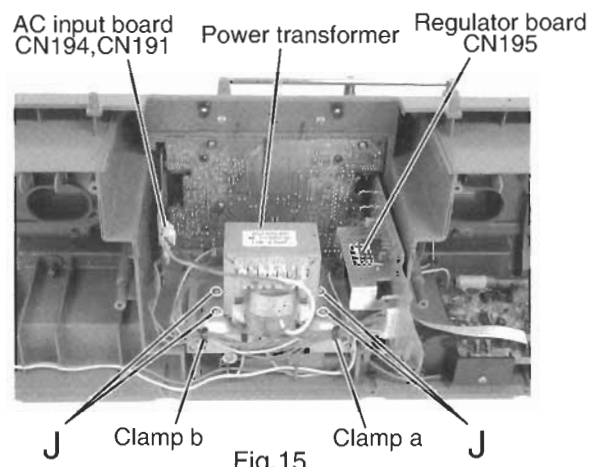
1. Remove the two screws I and the cassette mechanism holder toward the front.



■ Removing the power transformer (See Fig.15 and 16)

- Prior to performing the following procedure, remove the cassette mechanism assembly, the cassette mechanism holder and the CD unit.

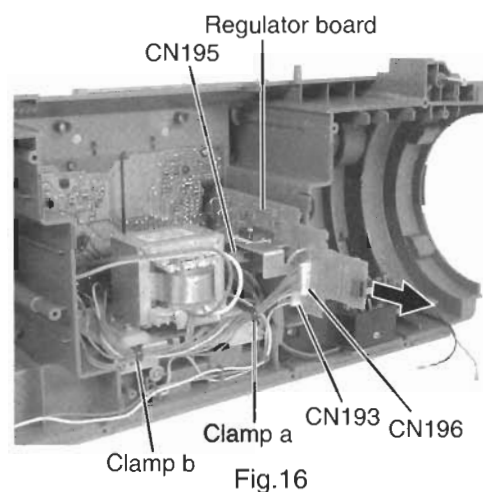
1. Disconnect the harnesses from connector CN194 on the AC input board and CN195 on the regulator board respectively. Release the harness from the clamp marked a.
2. Remove the four screws J attaching the power transformer.



■ Removing the regulator board (See Fig.15, 16 and 17)

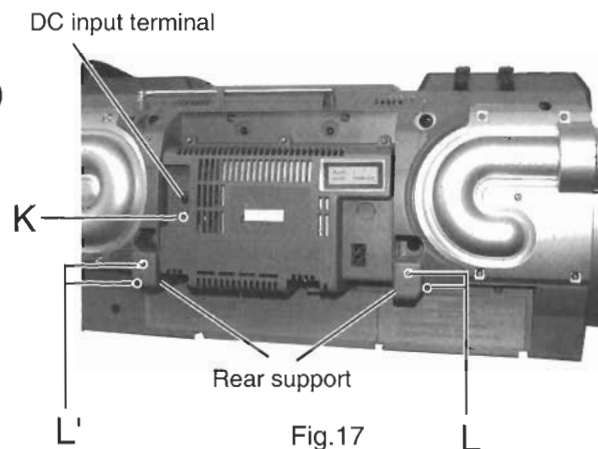
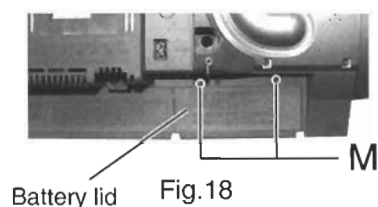
- Prior to performing the following procedure, remove the cassette mechanism assembly, the cassette mechanism holder and the CD unit.

1. Disconnect the harness from connector CN191 on the AC input board. Release the harness from the clamps marked a and b.
2. Disconnect the harness from connector CN193, CN195 and CN196 on the regulator board.
3. Pull out the regulator board from the cabinet slot under the regulator board toward the front.
4. Remove the screw K attaching the DC input terminal on the rear cabinet.



■ Removing the rear support and battery lid (See Fig.17 and 18)

1. Remove the two screws L & L' attaching the rear support.
2. Remove the two screws M attaching the battery lid.



■ Removing the power amplifier board (See Fig.19)

• Prior to performing the following procedure, remove the cassette mechanism assembly, the cassette mechanism holder, the CD unit, the power transformer, the regulator board.

1. Release the harness from the clamps marked a, b and the spacer marked c.
2. Remove the three screws N attaching the power amplifier board.

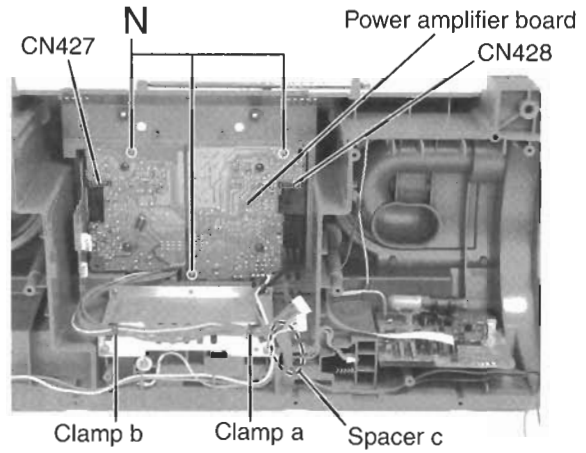


Fig.19

■ Removing the AC input board (See Fig.20)

• Prior to performing the following procedure, remove the cassette mechanism assembly, the cassette mechanism holder, the CD unit, the power transformer, the regulator board and the power amplifier board .

1. Remove the two screws O attaching the AC jack on the AC input board.
2. Remove the screw P attaching the voltage selector on the AC input board. (Only Ver.U/US)

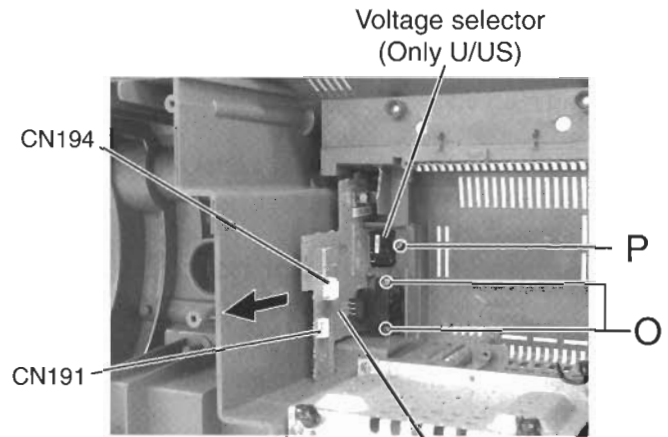


Fig.20 AC input board

■ Removing the battery board 1 and the battery board 2 (See Fig.21)

• Prior to performing the following procedure, remove the cassette mechanism assembly, the cassette mechanism holder and the tuner board holder.

1. Disconnect the harness from connector CN193 of the regulator board. Release the harness from the spacer marked c.
2. Pull out the battery board 1 toward the front.
3. Remove the screw Q and pull out the battery board 2 toward the front.

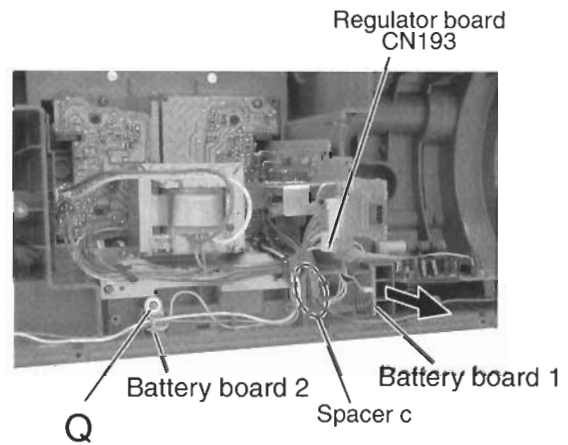


Fig.21

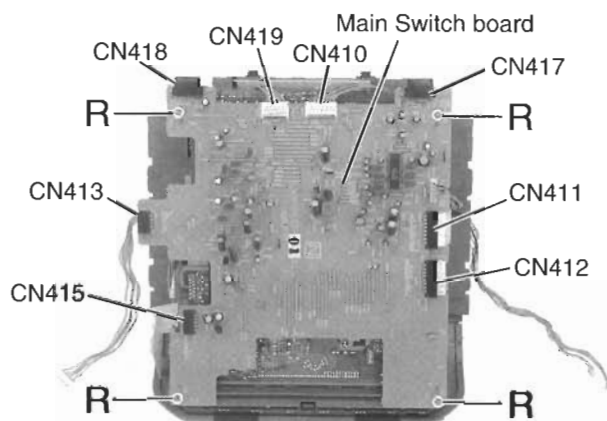
<CD Unit >

- Prior to performing the following procedure, remove the front cabinet, the rear cabinet and the CD unit.

■ Removing the main switch board

(See Fig.22)

1. Disconnect the card wire from connector CN411 and CN412, and the harness from CN419 and CN410 of the main switch board on the underside of the CD unit.
2. Remove the four screw R attaching the main switch board.



CD unit

Fig.22

■ Removing the micon board (See Fig.23)

- Prior to performing the following procedure, remove the main switch board.

CAUTION:

- Prior to disconnecting the card wire from connector CN601 on the micon board, solder the short-circuit land on the pickup unit.
- Disconnecting the card wire extending from the pickup unit may cause damage to the pickup unit.
- When reassembling, unsolder the short-circuit land on the pickup unit after connecting the card wire to connector CN601.
- Fig.25 shows more detail about the short-circuit land.

1. Disconnect the card wires from connector CN601 and CN911 on the micon board.
2. Remove the spacer fixing the harnesses marked d.
3. Remove the four screws S attaching the micon board.
4. Disconnect the harness from connector CN912 and CN602 on under side of the micon board respectively.

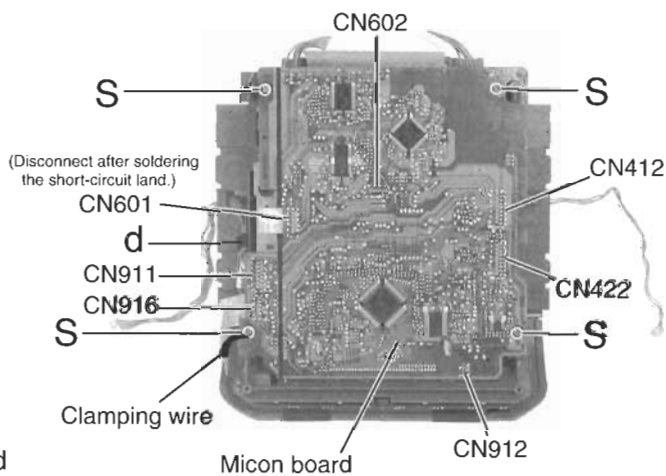


Fig.23

■ Removing the CD door switch board (See Fig.24 and 25)

- Prior to performing the following procedure, remove the main switch board and the micon board.

1. Remove the CD door switch board by pushing the two tabs e inward.

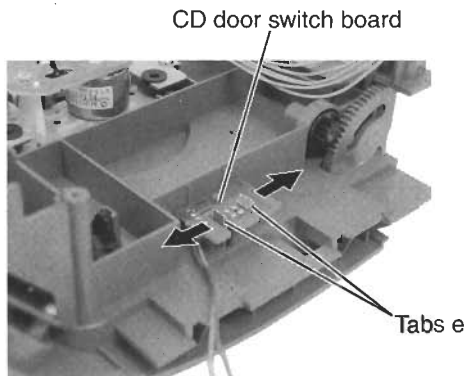


Fig.24

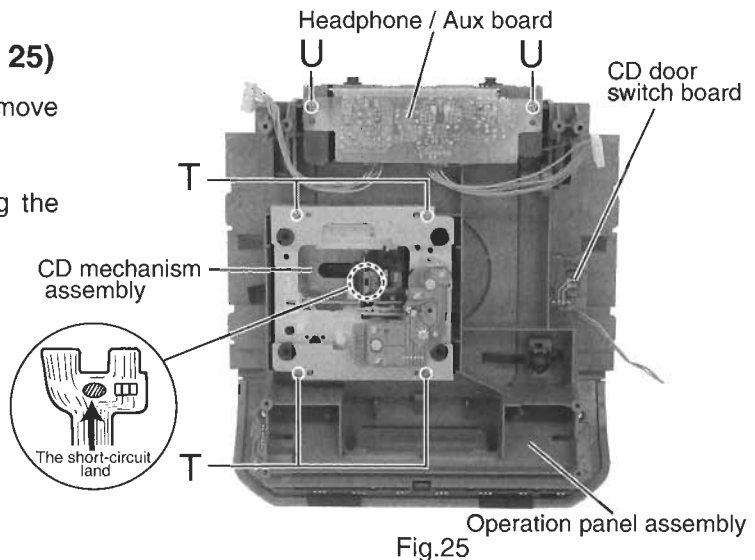


Fig.25

■ Removing the CD mechanism assembly (See Fig.25)

- Prior to performing the following procedure, remove the main switch board and the micon board.

1. Remove the four screws T attaching the CD mechanism holder on the underside of the CD case.
2. Remove the CD mechanism holder and the CD cushion from the CD mechanism assembly respectively.

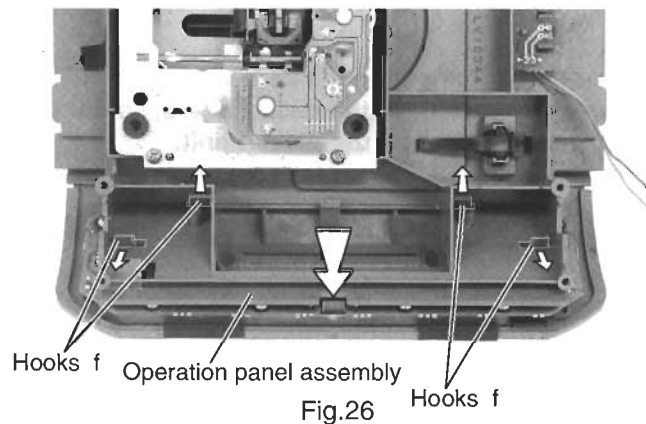


Fig.26

■ Removing the headphone / aux board (See Fig.25)

- Prior to performing the following procedure, remove the main switch board and the micon board.

1. Remove the two screws U attaching the headphone / aux board.

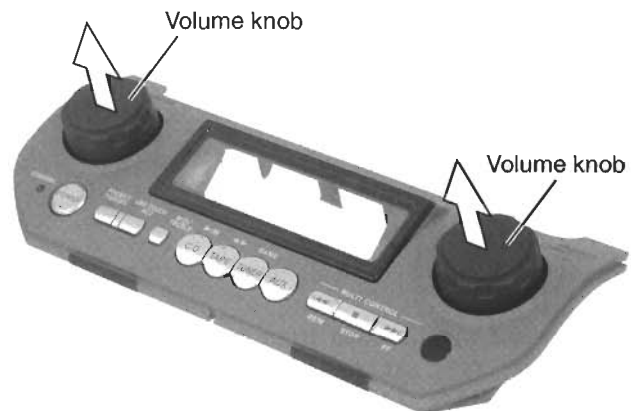


Fig.27

■ Removing the key switch board (See Fig.26 to 28)

- Prior to performing the following procedure, remove the main switch board and the micon board.

1. Extrude the operation panel assembly from the underside of the CD unit toward the front while pushing the four hooks f outward.
2. Pull out the two volume knobs from the operation panel assembly.
3. Remove the eight screws V attaching the key switch board on the reverse side of the operation panel.

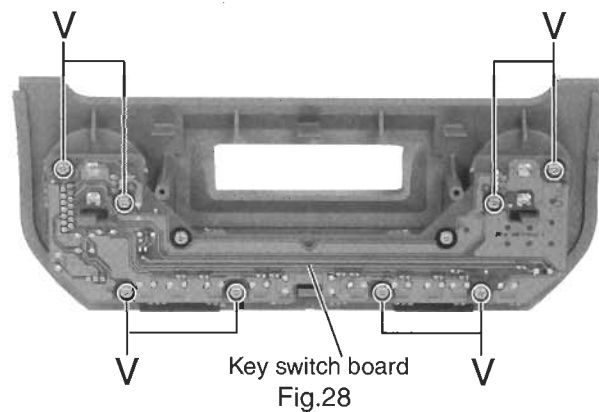


Fig.28

<Scratch & rhythm unit>

- Prior to performing the following procedure, remove the left side grille and the scratch & rhythm unit.

■ Removing the scratch & rhythm board (See Fig.29 and 30)

1. Pull out the S & R jogdial knob.
2. Remove the five screws W attaching the scratch & rhythm board on the reverse side of the scratch & rhythm unit.

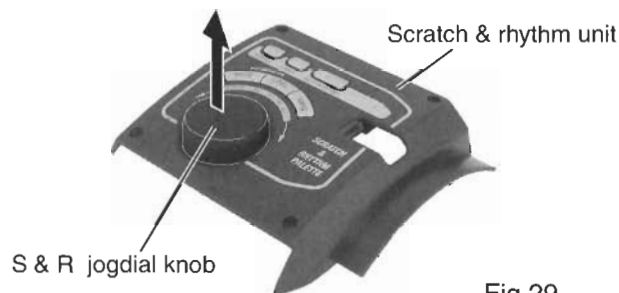


Fig.29

<Mixing unit>

- Prior to performing the following procedure, remove the right side grille and the mixing unit.

■ Removing the mic & guitar volum board / mic / guitar jack board / drum key board (See Fig.31 to 35)

1. Pull out the mic knob and the guitar knob. Remove the covers from the mic jack and the guitar jack.
2. Remove the four screws X attaching the mic & guitar volum board and the three screws Y attaching the bracket on the underside of the mixing unit. Remove the mic & guitar volum board together with the mic / guitar jack board.
3. Disconnect the connector CN951 on the mic & guitar volum board from the mic / guitar jack board.
4. Remove the two snap plates attaching the bracket to the mic / guitar jack board by moving them outward.
5. Remove the five screws Z attaching the drum key board.

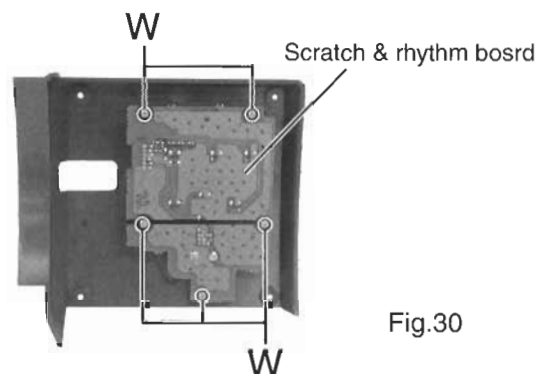


Fig.30

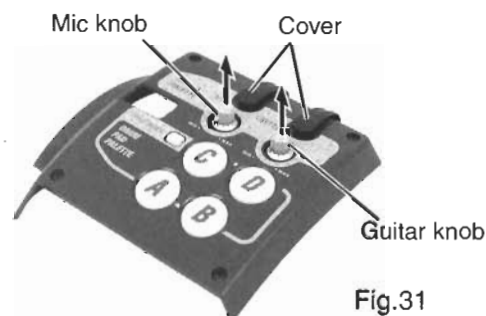


Fig.31

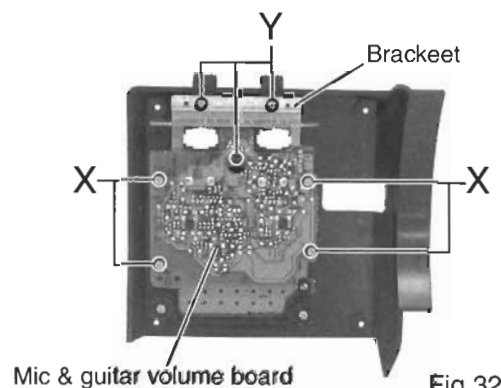


Fig.32

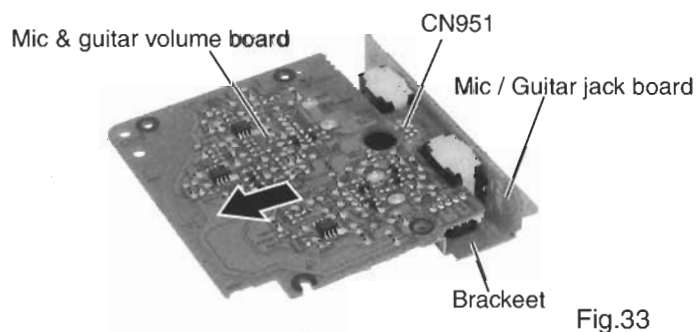


Fig.33

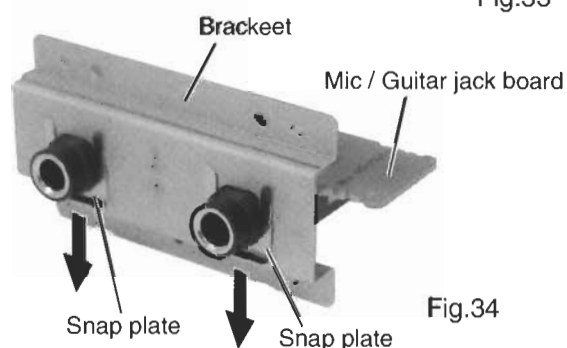


Fig.34

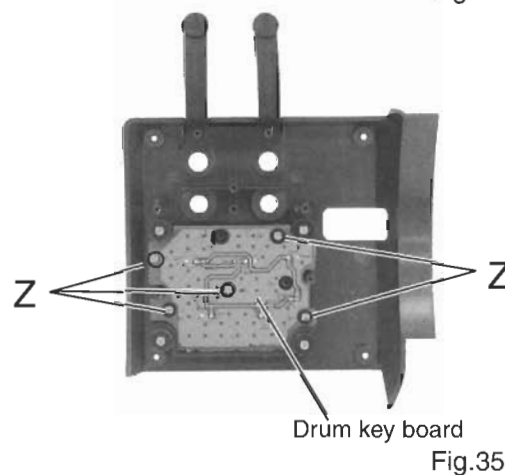


Fig.35

<Front cabinet assembly>

- Prior to performing the following procedure, remove the front cabinet and the rear cabinet.

■ Removing the front speakers

(See Fig.36 and 37)

1. Remove the eight screws A attaching the speaker covers on the inside of the front cabinet.
2. Remove the eight screws B attaching the right and left front speakers.
3. Remove the screw C attaching the speaker terminal.

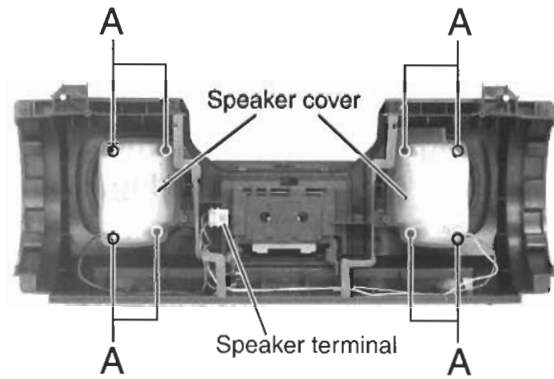


Fig.36

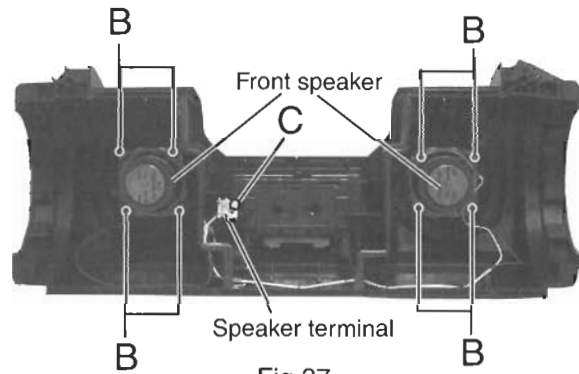


Fig.37

<Replacing a fuse> (See Fig.38 and 39)

CAUTION: It is not necessary to remove the AC input board and the power amplifier board.

1. Remove the battery cover on the back of the body.
2. Remove the five screws D attaching the power amplifier cover on the back of the body.
3. Replace the fuse F1901 of the AC input board and F1902 and F1903 of the regulator board on the back of the body respectively.

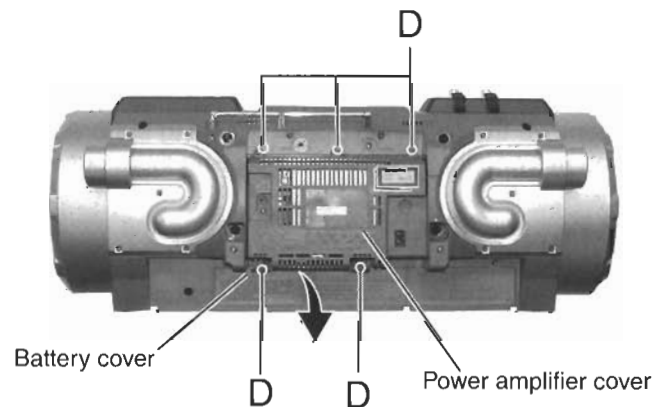


Fig.38

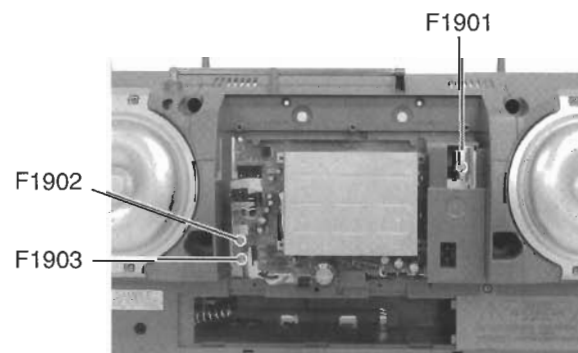


Fig.39

■ Removing the CD pickup unit (See Fig.40)

1. Move the cam gear in the arrow direction "g". Then, the CD pickup unit will be moved in the arrow direction "h".
2. According to the above step, shift the CD pickup unit to the center position.
3. While pressing the stopper retaining the shaft in the arrow direction "i", pull out the shaft in the arrow direction "j".
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit

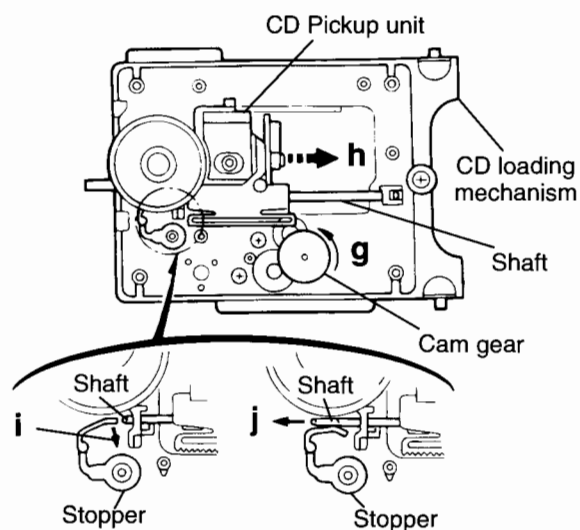


Fig.40

<<Cassette mechanism section>>

■ Removing the playback/recording & eraser head (See Figs. 1 and 2)

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. 1).
2. When the flywheel R is rotated in counterclockwise direction, the playback/recording & eraser head will be turned in counterclockwise direction from the position in Fig. 2 to that in Fig. 3.
3. At this position, disconnect the flexible P.C. board (outgoing from the playback/recording & eraser head) from the connector CN31 on the head amplifier & mechanism control P.C. board.
4. After dismantling the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring a from behind the playback/recording & eraser head.
7. Loosen the reversing azimuth screw retaining the playback /recording & eraser head.
8. Take out the playback/recording & eraser head from the front of the head mount.
9. The playback/recoring & eraser head should also be removed similarly according to Steps 1 ~ 8 above.

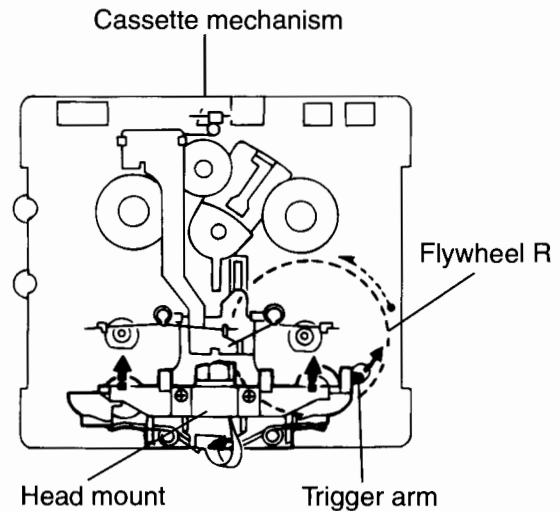


Fig. 1

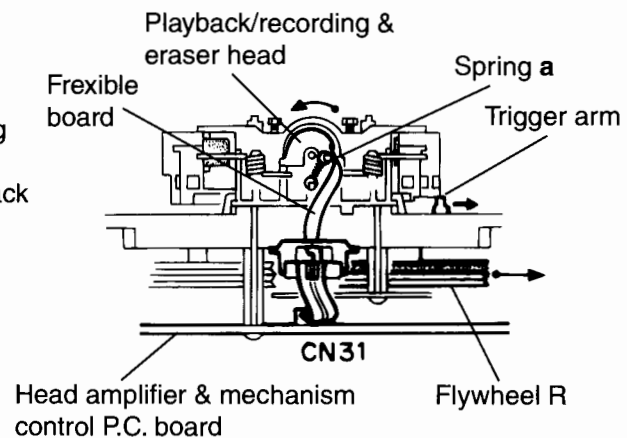


Fig. 2

■ Reassembling the playback/recording & eraser head

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

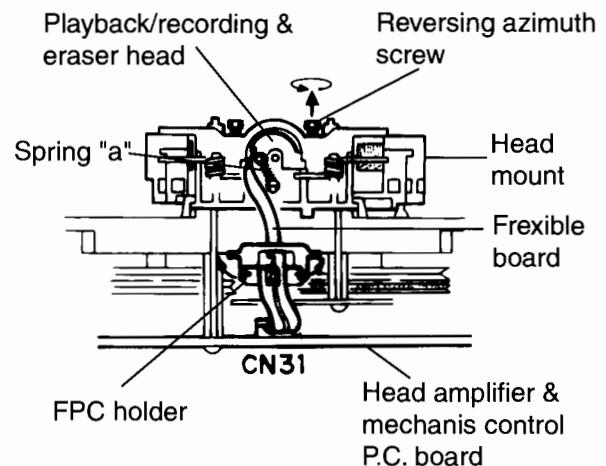
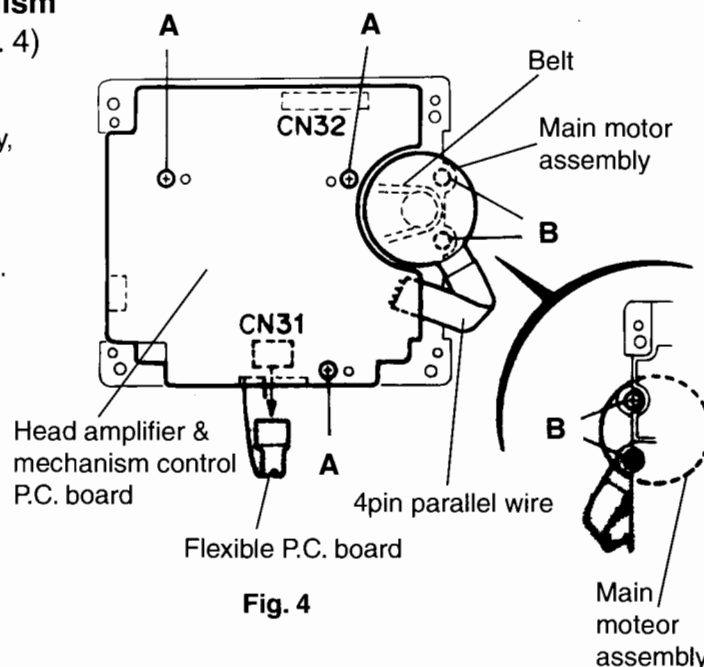


Fig. 3

■ Removing the head amplifier & mechanism control P.C. board (See Fig. 4)

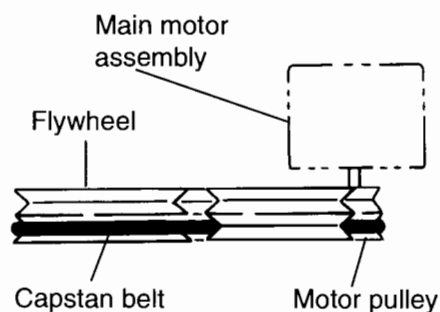
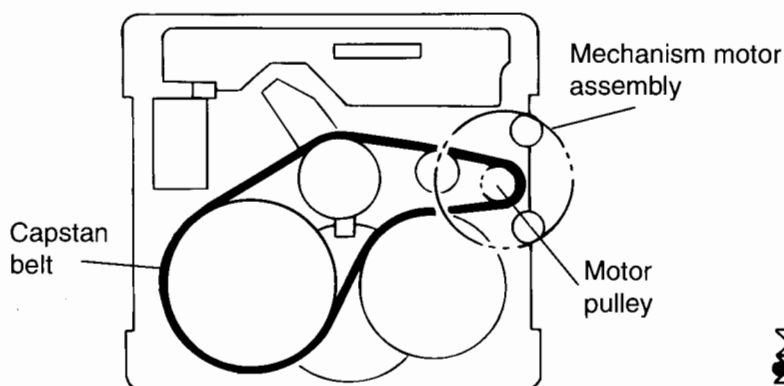
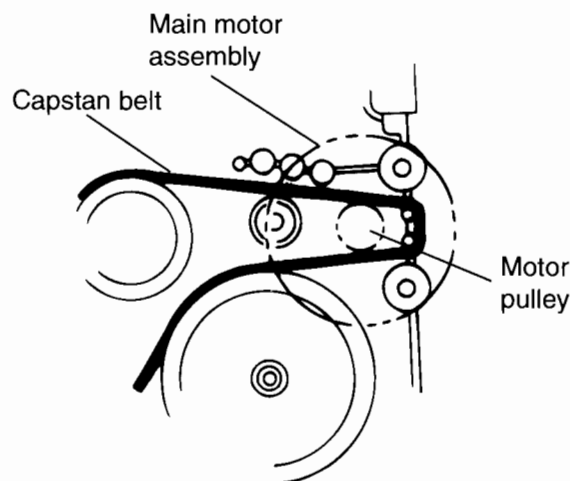
1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly, remove the three screws **A** retaining the head amplifier & mechanism control P.C. board.
3. Disconnect the connector CN32 on the P.C. board including the connector CN 1 on the reel pulse P.C. board.
4. When necessary, remove the 4 pin parallel wire soldered to the main motor.



■ Removing the main motor assembly (See Fig. 4~6)

1. Remove the two screws **B** retaining the main motor assembly (See Fig. 4, 4a).
2. While raising the main motor, remove the capstan belt from the motor pulley (See Fig. 4a).

Caution 1: Be sure to handle the capstan belt so carefully that this belt will not be stained by grease and other foreign matter. Moreover, this belt should be hanged while referring to the capstan belt hanging method in Fig. 5, 6.



■ Removing the flywheel

(See Figs. 7 and 8)

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

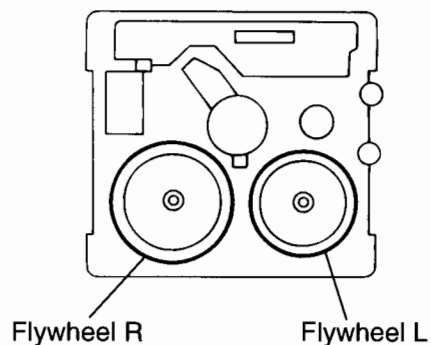


Fig. 8

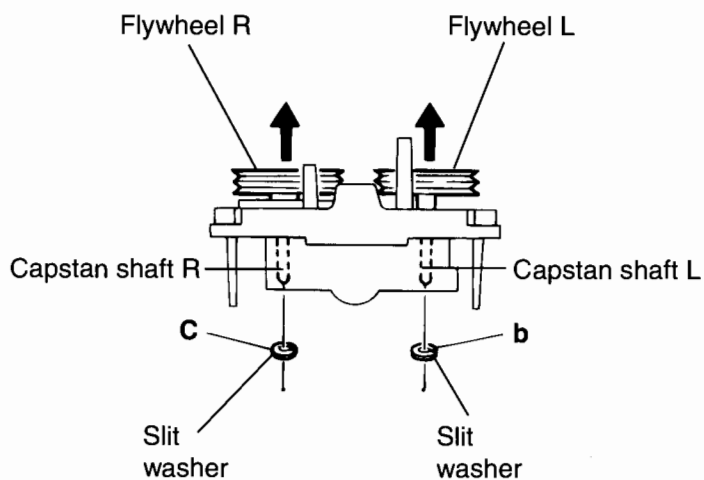


Fig.7

■ Removing the reel pulse P.C. board and solenoid

(See Fig. 9)

1. Remove the five pawls **d~h** and screw **C** retaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pawls **i** and **j** retaining the solenoid.

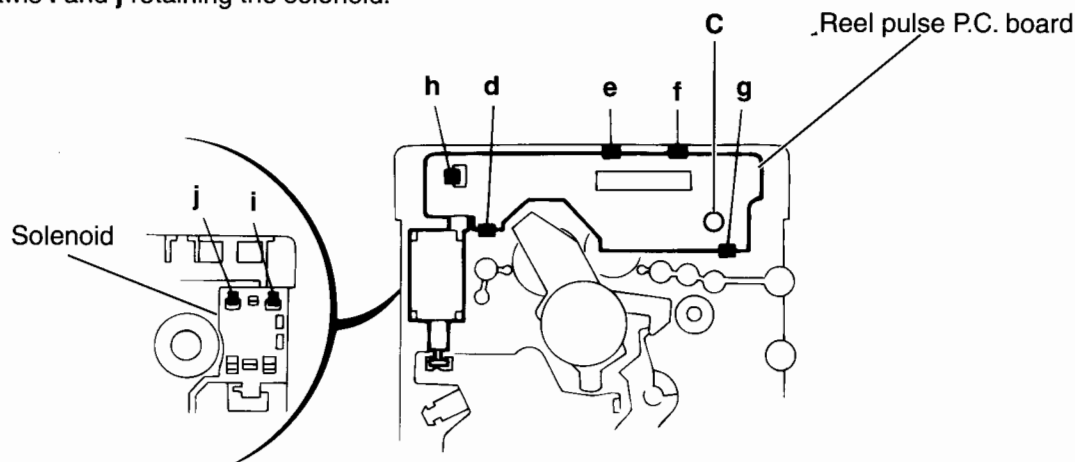


Fig. 9

Adjustment method

■ Measuring devices necessary for adjustment

1. Low-frequency oscillator
It must have the ability to output 600ohm from 0 dBs at an oscillation frequency of 20 Hz—50 Hz.
2. Attenuator impedance: 600ohm
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow and flutter meter
7. Test tapes
VT-712: tape speed and rotational distortion (3 kHz)
VT-724: standard level (1 kHz)
VT-703: head angle adjustment (10 kHz),
or use VT-73
VT-739: reproduction of frequency characteristics
(1 kHz, 63 Hz, 10 kHz)
8. Blank tape
Type I : AC-225 (TDK-AD)
Type II : AC-514 (TDK-SA)
9. Torque gauge: Tension gauge for playback,
fast-forward and rewind.
FWD (TW211A), REW (TW212A)
and FF/REW (TW2231A)

■ Specifications for measurement

Power supply voltage AC 230V (50Hz)
Ver. B/E/EN/EV/EE
AC 110V/127V/230V(50Hz)
Ver. U/US

Standard output Speaker: 0.775V/4ohm
Headphone: 0.245V/32ohm

Standard frequency and input level
..... 1 kHz: AUX: -8 dBs

Input level for reproduction of recording characteristics
..... AUX: -28 dBs

Measuring output terminal Speaker: CN633

Load resistance 4ohm

■ Radio input signal

AM frequency 400 Hz
Degree of modulation in AM band 30%
FM frequency 400 Hz
Frequency deviation in FM band 22.5 kHz

■ Tuner section

Voltage input to the tuner +B: DC 5.7 V
VT: DC 12 V
Standard measuring output 26.1 mV (0.28 V) / 3 ohm
Input locations AM: standard loop antenna
FM: TP1 (hot) and TP2 (GND)

■ Standard settings for measuring volume

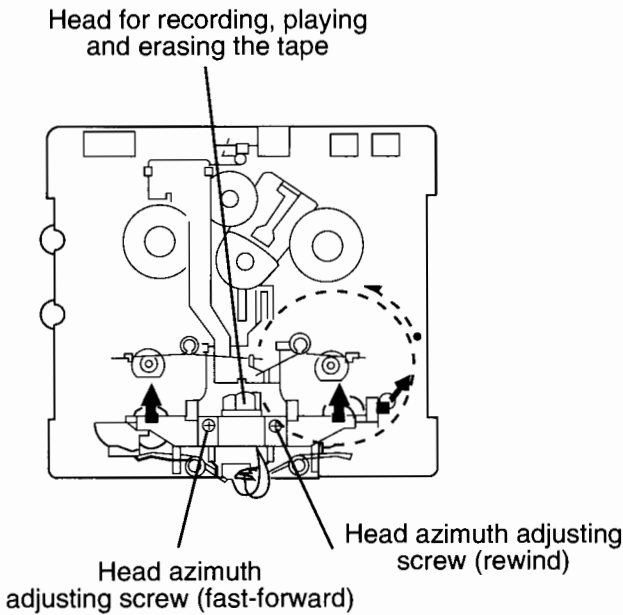
Effective hyper bass BASS1
Volume adjustment VOL. 23
MID / TRE VOL. 0

Precautions for measuring

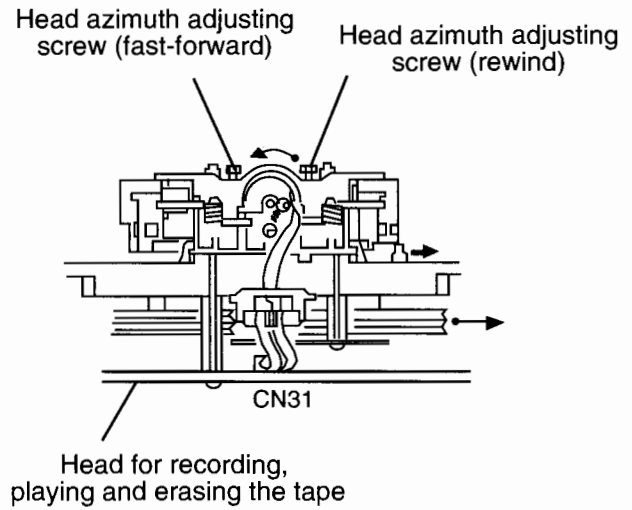
1. Input 30 pF and 33 kohm to the IF sweeper output and 0.082 μ F and 100 kohm to the sweeper input, respectively.
2. Lower the output level of the IF sweeper as much as possible in the adjustable range.
3. The IF sweeper needs no adjustment as it is a fixed component.
4. It is not necessary to perform any kind of adjustment on the MPX, as a ceramic oscillator is used for measuring.
5. FM tracking adjustment is not necessary as a fixed coil is used.
6. The grounding circuit is separate from the input and output. Therefore, be sure to connect to ground carefully when measuring both the input and output voltages simultaneously using 2 channels of the electronic voltmeter.
7. The speaker's minus terminal cannot be connected to ground when using a BTL format amplifier. Therefore, do not connect any type of ground wire to this terminal. The OTL format is used with this system.
8. Use a large wire to connect to the dummy impedance generator when measuring the output.
9. Be sure to use a band pass filter (DV-12) when using mixed tape.

Location of parts to be adjusted

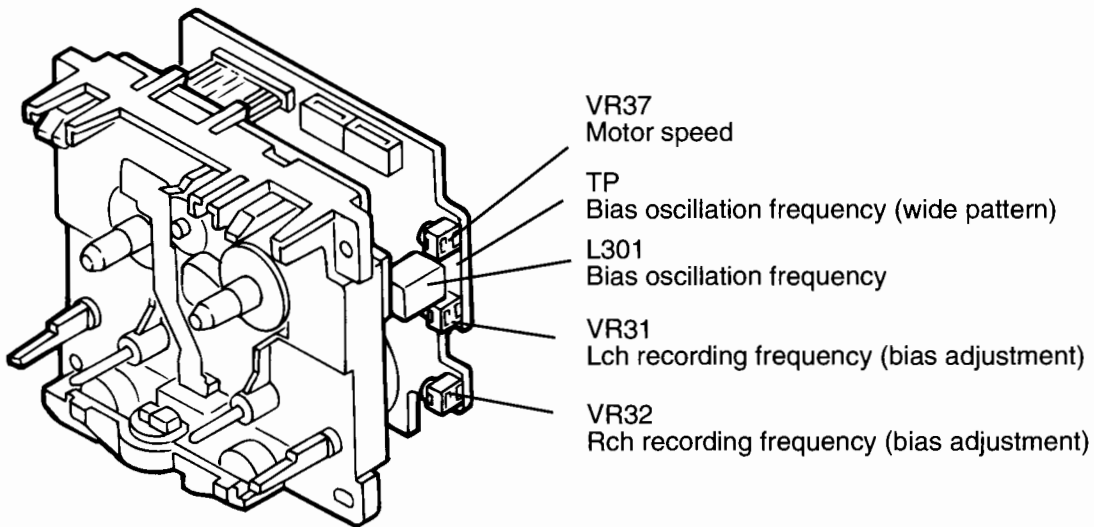
■ Cassette handling mechanism



■ Cassette handling mechanism (reverse side)



■ Location of parts to be adjusted



■ Adjustment of cassette handling mechanism

Items	Condition	Method for adjustment and confirmation	Standard value	Parts to be adjusted
Confirmation of head angle	Test tape: VT-703 (10 kHz) Measuring output terminal: Speaker terminal, speaker (R) (Load resistance: 4ohm), headphone terminal	(1) Play back the VT-703 test tape. (2) Adjust the head azimuth screws so that the tape playback mechanism records the maximum output level in both the fast-forward and rewind direction. (3) In all cases, both the fast-forward and rewind direction should be adjusted using head azimuth screws.	Maximum output	Adjust the head azimuth screws when changing the head.
Confirmation of tape speed	Test tape: VT-712 (3 kHz) Measuring output terminal: Headphone terminal	Adjust VR37 so that the frequency counter records 3,015 Hz \pm 15 Hz when playing back the end of the VT-712 test tape (3 kHz) in the fast-forward direction.	Tape speed of cassette deck: 3,015 Hz \pm 15 Hz	VR37

■ Items to be confirmed and standard values

Items	Condition	Method for adjustment and confirmation	Standard value	Parts to be adjusted
Difference in speed between fast-forward and rewind	Test tape: VT-712 (3 kHz) Measuring output terminal: Speaker terminal, speaker (R) (Load resistance: 4), headphone terminal	The difference between fast-forward and rewind should be less than 60 Hz on the frequency counter when playing back the beginning of the VT-712 test tape (3 kHz) in both directions.	Less than 60 Hz	Should be confirmed when changing the motor.
Wow and flutter	Test tape: VT-712 (3 kHz) Measuring output terminal: Headphone terminal	Wow and flutter should be recorded at less than 0.25% (WRMS) when playing back the VT-712 test tape (3 kHz) in the fast-forward direction.	Less than 0.25% (WRMS)	

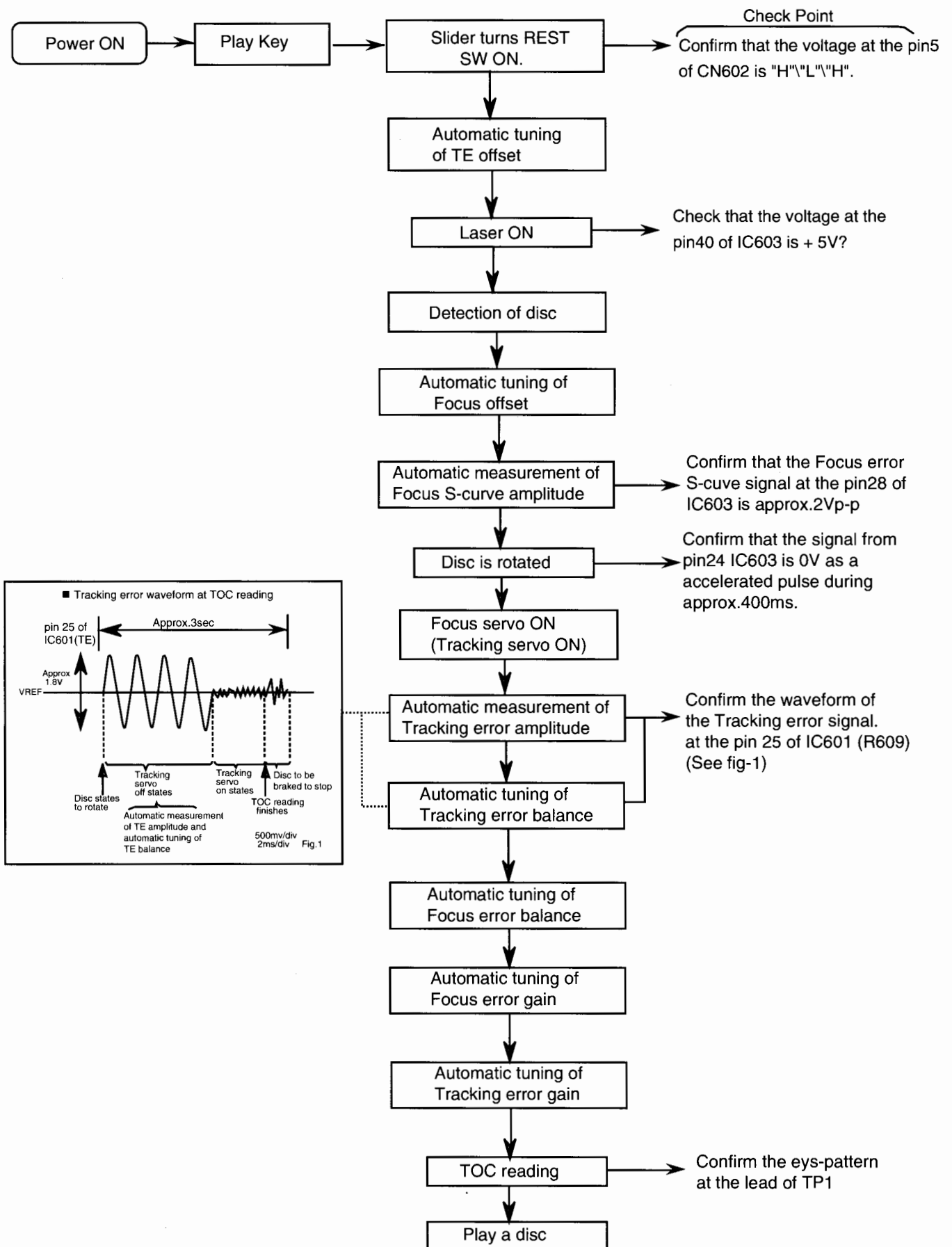
■ Electronic performance

Items	Condition	Method for adjustment and confirmation	Standard value	Parts to be adjusted
Confirmation of output	Measuring output terminal: CN34-5 or 7-terminal preamp base Test tape: VT-724	Confirm that the output from the CN34-5 or 7-terminal preamp base connector is -25 dBs \pm 3 dB when playing back the VT-724 test tape. Reference value: The output from the headphone terminal is -7 dB \pm 4 dB.	Output of CN34-5 terminal: -25 dBs \pm 3 dB Difference between Lch and Rch: within 3 dB	
Confirmation of reproduction of frequency characteristics	Measuring output terminal: Headphone terminal Test tape: VT-739	Confirm that the 10 kHz reproduction level is -1 dB \pm 5 dB compared to the 1 kHz reproduction level when playing back the VT-739 test tape.	Difference between 10 kHz and 1 kHz should be -1 dB \pm 5 dB.	
Recording bias frequency	Fast-forward or rewind direction: Test tape: TYPE II (AC-514) Measuring terminal: Bias TP on the base	Switch the bias (beat cut switch) between 1 and 2 to confirm that the frequency changes. Load the test tape (AC-514 for TYPE II) into the mechanism and preset it to the record-pause mode. Confirm that the bias TP frequency on the base is 100 kHz \pm 6 kHz.	100 kHz \pm 6 kHz	

■ Standard values for confirmation of electronic performance

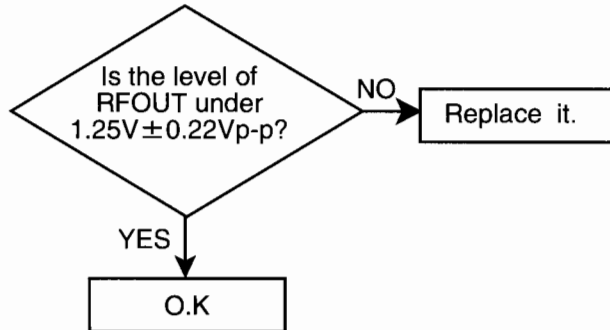
Items	Condition	Method for adjustment and confirmation	Standard value	Parts to be adjusted
Erasing current (standard and reference value)	Fast-forward and rewind direction: <ul style="list-style-type: none"> • Recording mode • AC-514 for TYPE II, AC-225 for TYPE I Measuring terminal: Both erase head terminals	Load the test tape (AC-514 for TYPE II, AC-225 for TYPE I) into the tape playback mechanism and preset it to the record-pause mode. After setting it to the recording mode, send 1 M in series to the erase head and measure the erasing current from both erase head terminals.	TYPE II: 110 mA TYPE I: 75 mA	
Adjustment of reproduction of frequency characteristics	Standard frequencies: 1 kHz and 10 kHz (REF: -20 dB) Test tape: TYPE II: AC-514 Measuring input terminal: OSC IN	Load the test tape (AC-514 for TYPE II, AC-225 for TYPE I) into the tape playback mechanism and preset it to the record-pause mode. Input the standard value of -20 dB and the standard frequencies of 1 kHz and 10 kHz repeatedly to the microphone input from the transmitter in the recording mode. Adjust VR31 for Lch and VR32 for Rch so that the difference in level between 10 kHz and 1 kHz is $-1 \text{ dB} \pm 5 \text{ dB}$. Repeat the above for TYPE I and confirm that the difference in level is $-X \text{ dB} \pm \text{dB}$.	Difference in output between 1 kHz and 10 kHz: $-1 \text{ dB} \pm 5 \text{ dB}$	Lch: VR31 Rch: VR32

Flow of functional operation until TOC read

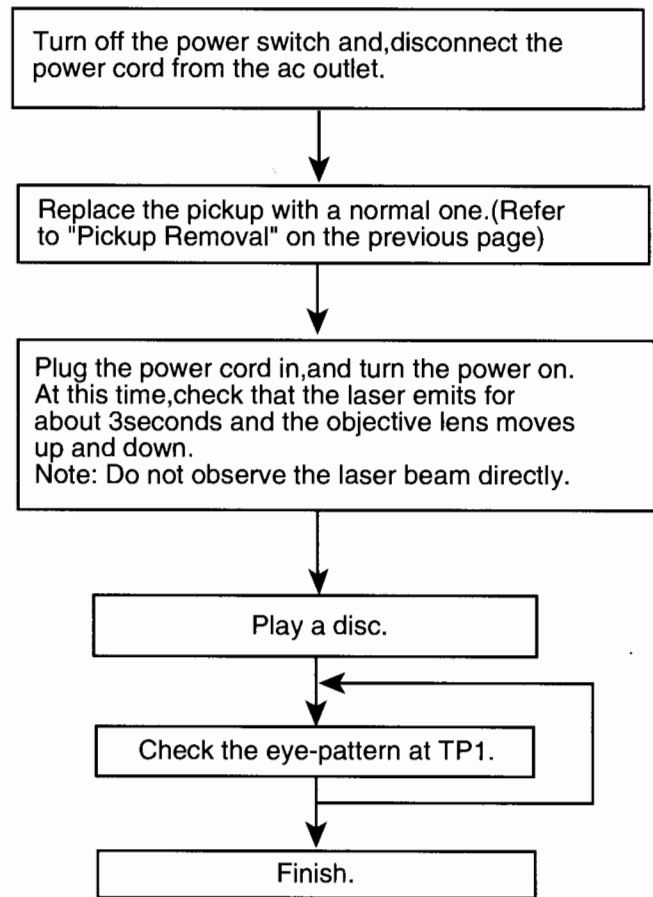


Maintenance of laser pickup

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



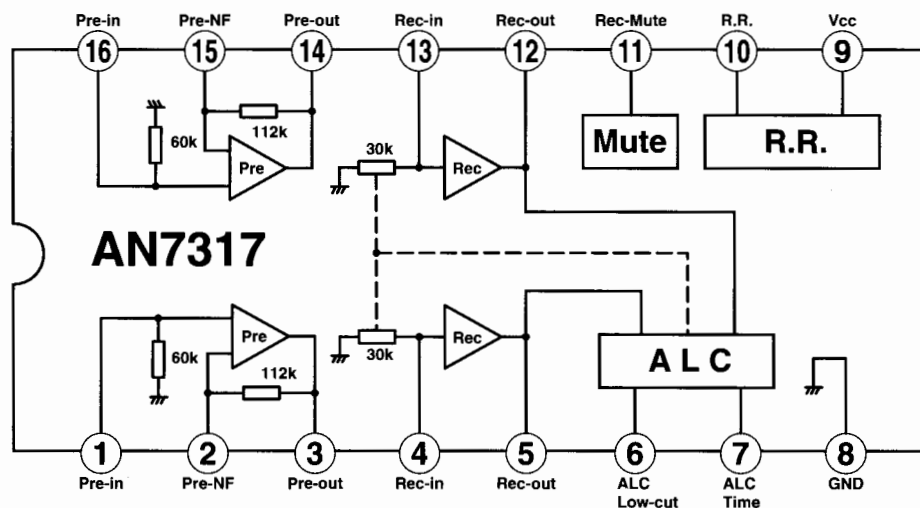
Replacement of laser pickup



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

Description of major ICs

■ AN7317(IC32) : ALC & Pre Amplifier



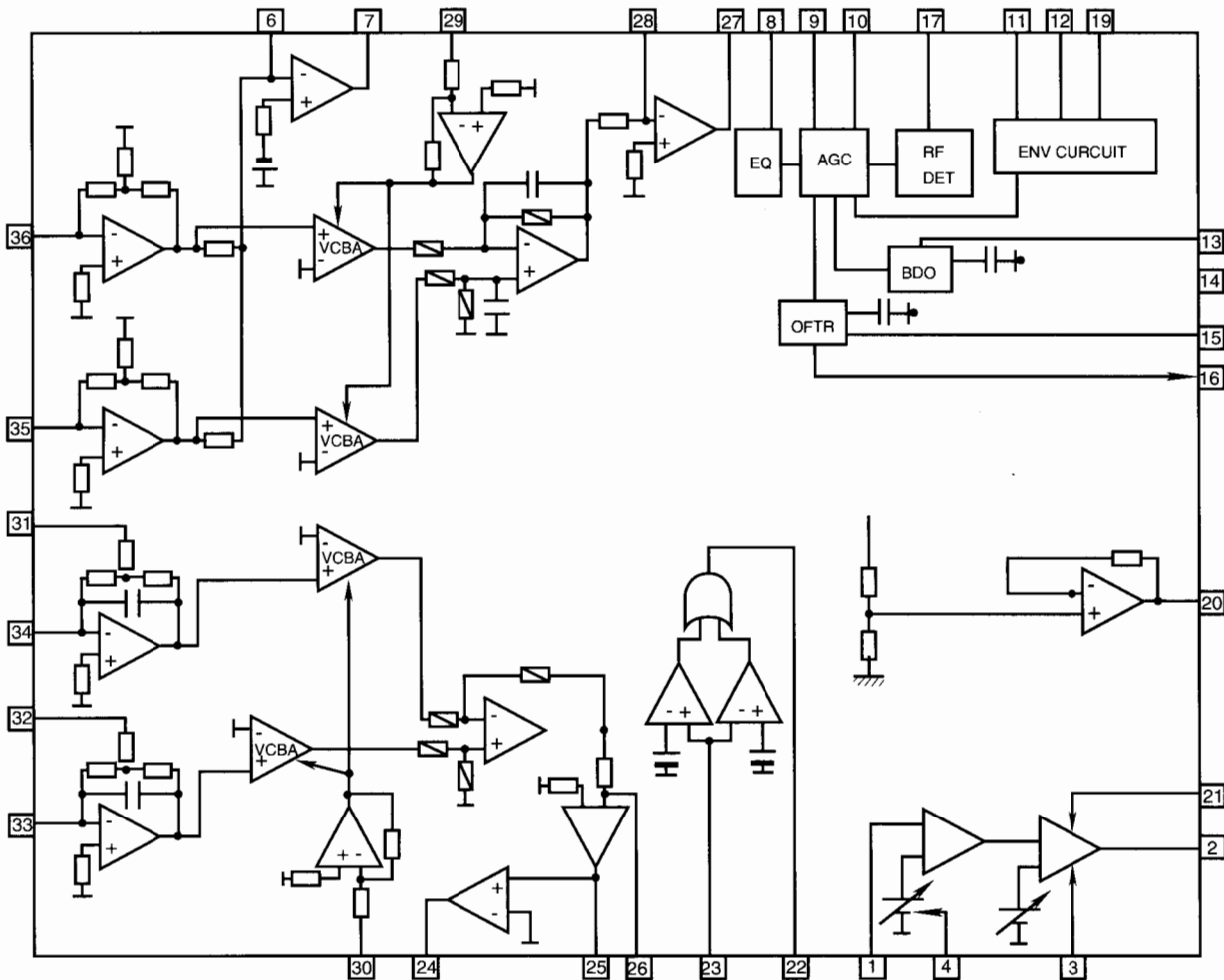
Pin No.	Pin Descriptions
1	Channel 1 Playback Amplifier Input
2	Channel 1 Playback Amplifier Negative Freed back
3	Channel 1 Playback Amplifier Output
4	Channel 1 Record Amplifier Input
5	Channel 1 Record Amplifier Output
6	ALC Low-Cut
7	ALC Time
8	Ground
9	Vcc
10	Ripple Filter
11	Record - Amplifier Mute
12	Channel 2 Record Amplifier Output
13	Channel 2 Record Amplifier Input
14	Channel 2 Playback Amplifier Output
15	Channel 2 Playback Amplifier Negative Freedback
16	Channel 2 Playback Amplifier Input

■AN8806SB-W(IC601) :RF&SERVO AMP

1.Pin layout

PD 1	36 PDAC
LD 2	35 PDBD
LDON 3	34 PDF
LDP 4	33 PDE
VCC 5	32 PDER
RF- 6	31 PDFR
RF OUT 7	30 TBAL
RF IN 8	29 FBAL
C.AGC 9	28 EF-
ARF 10	27 EF OUT
C.ENV 11	26 TE-
C.EA 12	25 TE OUT
CS BDO 13	24 CROSS
BDO 14	23 TE BPF
CS BRT 15	22 VDET
OFTR 16	21 LD OFF
/NRFD 17	20 VREF
GND 18	19 ENV

2.Block diagram



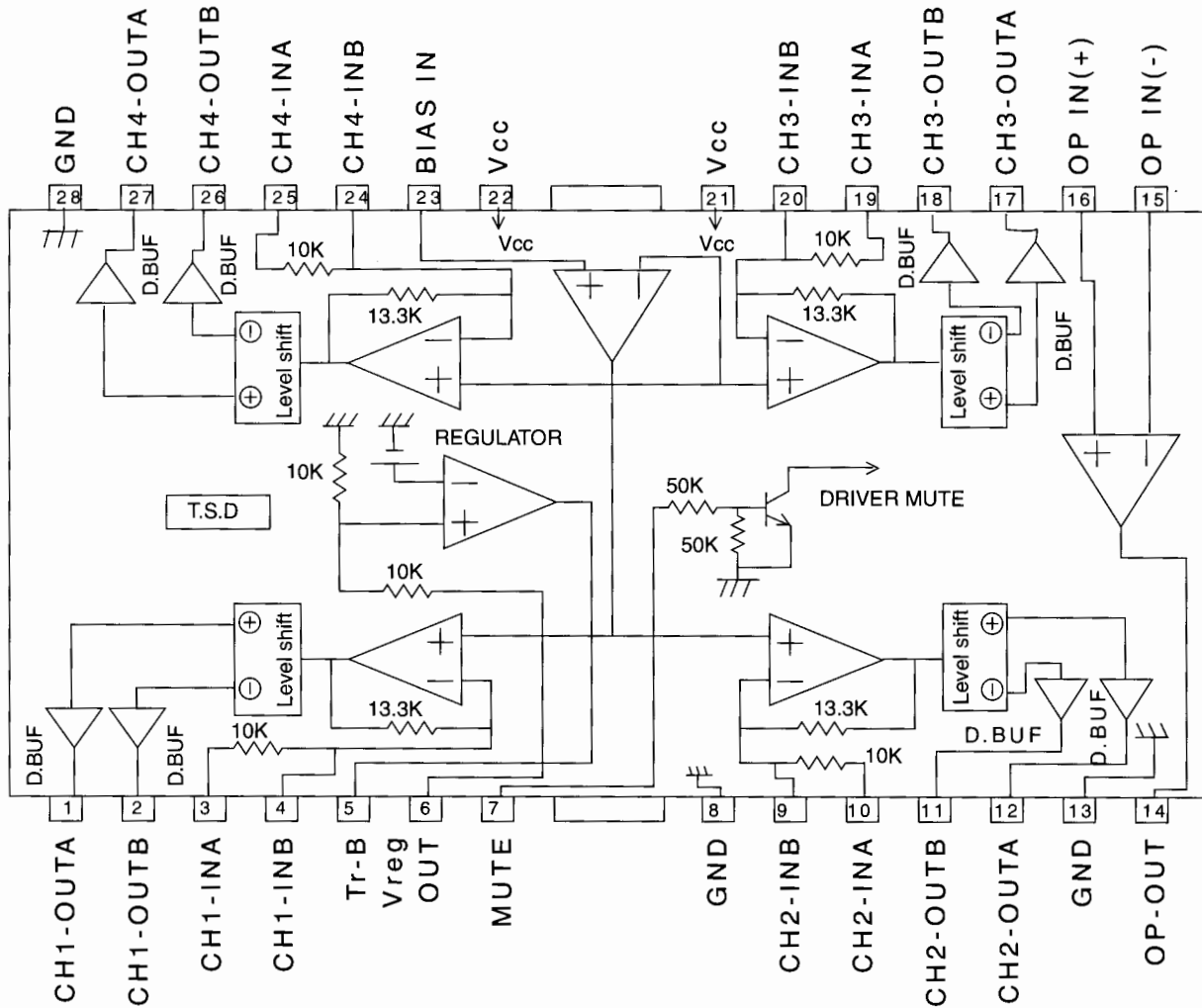
3. Pin function

AN8806SB

Pin No.	symbol	I/O	Function
1	PD	I	APC amp . Input terminal
2	LD	O	APC amp . Output terminal
3	LD ON	I	LD ON/OFF control terminal
4	LDP	--	Connect to GND
5	VCC	--	Power supply
6	RF-	I	RF amp . Reversing input terminal
7	RF OUT	O	RFamp . Output terminal
8	RF IN	I	AGC input terminal
9	C.AGC	I/O	AGC loop filter connection terminal
10	ARF	O	ARF output terminal
11	C.ENV	I/O	RF detection capacity connection terminal
12	C.EA	I/O	HPF-amp capacity connection terminal
13	CS BDO	I/O	Capacity connection terminal for RF discernment side envelope detection
14	BDO	O	BDO output terminal
15	CS BRT	I/O	Capacity connection terminal for RF discernment side envelope detection
16	OFTR	O	OFTR output terminal
17	/NRFDET	O	RFDET output terminal
18	GND	--	Connect to GND
19	ENV	O	3TENV output terminal
20	VREF	O	VREF output terminal
21	LD OFF	--	APC OFF control terminal
22	VDET	O	VDET output terminal
23	TE BPF	I	VDET input terminal
24	CROSS	O	CROSS output terminal
25	TE OUT	O	TE amp . Output terminal
26	TE-	I	FE amp . Reversing input terminal
27	FE OUT	O	FE amp . output terminal
28	FE-	I	FE amp . Reversing input terminal
29	FBAL	I	F.BAL control terminal
30	TBAL	I	T.BAL control terminal
31	PDFR	I/O	I-V amp conversion resistance adjustment terminal
32	PDER	I/O	I-V amp conversion resistance adjustment terminal
33	PDF	I	I-V amp input terminal
34	PDE	I	I-V amp input terminal
35	PD BD	I	I-V amp input terminal
36	PD AC	I	I-V amp input terminal

■ BA6897FP-W(IC602) : 4channel driver

1.Pin layout & Block diagram



T.S.D;Thermal shutdown

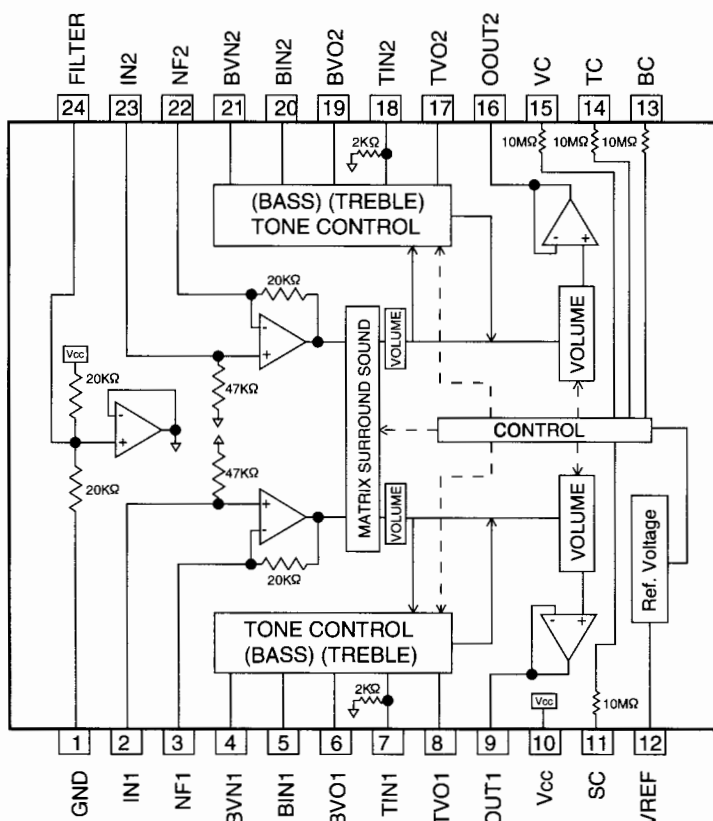
D.BUF:Drive buffer

2.Pin function

Pin NO.	Symbol	Function	Pin NO.	Symbol	Function
1	CH1-OUTA	Driver CH1 - output	15	OP IN(-)	Operation amplifier - input
2	CH1-OUTB	Driver CH1 + output	16	OP IN(+)	Operation amplifier + output
3	CH1-INA	Driver CH1 input	17	CH3-OUTA	Driver CH3 - output
4	CH1-INB	Driver CH1 gain adjustment Input terminal	18	CH3-OUTB	Driver CH3 + output
5	Tr-B	Connect to the base of external Tr	19	CH3-INA	Driver CH3 input
6	Vreg OUT	Fixed voltage output	20	CH3-INB	Driver CH3 gain adjustment Input terminal
7	MUTE	Mute control terminal	21	Vcc	Power supply terminal
8	GND	GND	22	Vcc	Power supply terminal
9	CH2-INB	Driver CH2 gain adjustment Input terminal	23	BAIS IN	Bias amplifier input terminal
10	CH2-INA	Driver CH2 input	24	CH4-INB	Driver CH4 gain adjustment Input terminal
11	CH2-OUTB	Driver CH2 + output	25	CH4-INA	Driver CH4 input
12	CH2-OUTA	Driver CH2 - output	26	CH4-OUTB	Driver CH4 + output
13	GND	Sub-slate GND	27	CH4-OUTA	Driver CH4 - output
14	OPOUT	Operation amplifier output	28	GND	Sub-slate GND

■ BH3852S (IC501) : E.Volume

1. Block diagrams



2. Pin function

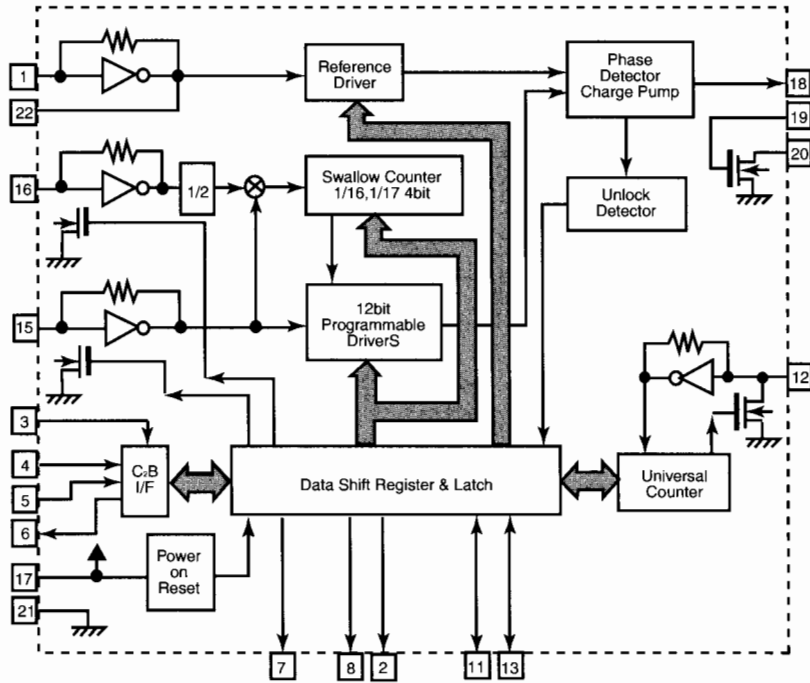
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	GND	-	Connect to GND.	13	BASS	I	Terminal for bass control.
2	IN1	I	Terminal for 1ch volume input.	14	TRE	I	Terminal for treble control.
3	NF1	I	Terminal for gain adjustment of input step AMP.	15	VOL	I	Terminal for volume control.
4~6	BASS1	-	Terminal for connection of 1ch low-frequency filter.	16	OUT2	O	Terminal for 2ch volume output.
7.8	TRE1	-	Terminal for connection of 1ch high-frequency filter.	17.18	TRE2	-	Terminal for connection of 2ch high-frequency filter.
9	OUT1	O	Terminal for 1ch volume output.	19~21	BASS2	-	Terminal for connection of 2ch low-frequency filter.
10	VCC	-	Terminal for power supply.	22	NF2	I	Terminal for gain adjustment of input step AMP.
11	LIVE	-	Terminal for surround control.	23	IN2	I	Terminal for 2ch volume input.
12	VREF	O	Terminal for reference voltage output.	24	VSET	-	Terminal for filter.

■ LC72136N (IC2) : PLL Frequency Synthesizer

1. Pin layout

XT	1	22	XT
FM/AM	2	21	GND
CE	3	20	LPFOUT
DI	4	19	LPFIN
CLOCK	5	18	PD
DO	6	17	VCC
FM/ST/VCO	7	16	FMIN
AM/FM	8	15	AMIN
	9	14	
	10	13	IFCONT
SDIN	11	12	IFIN

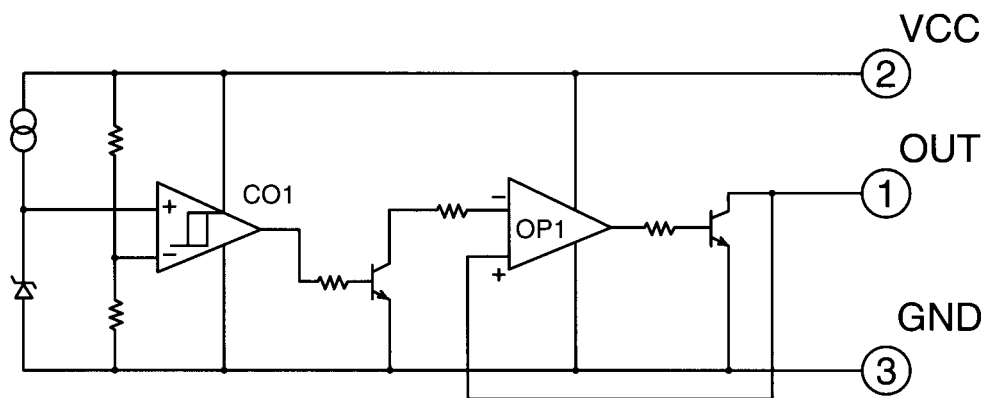
2. Block diagram



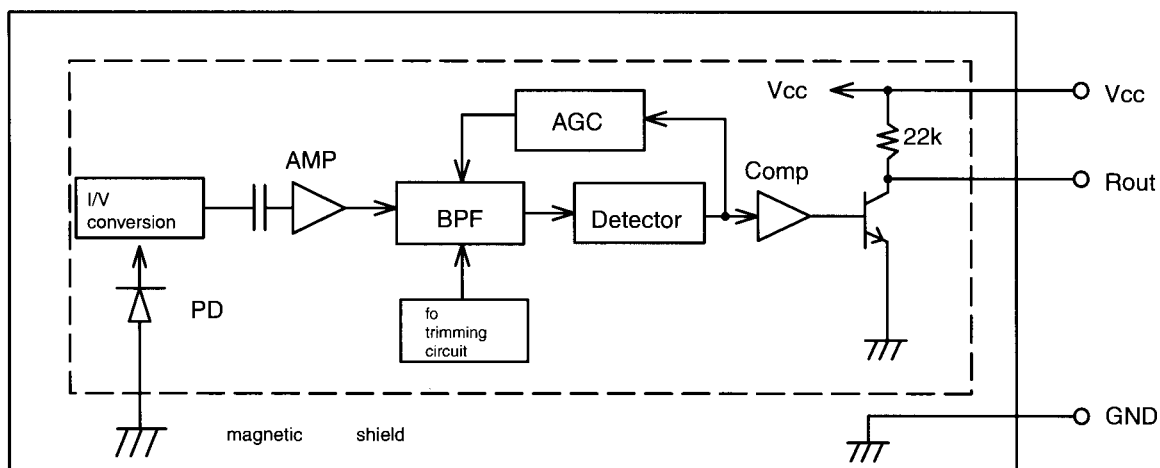
3. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	FM/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power supply(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	AM/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75kHz)

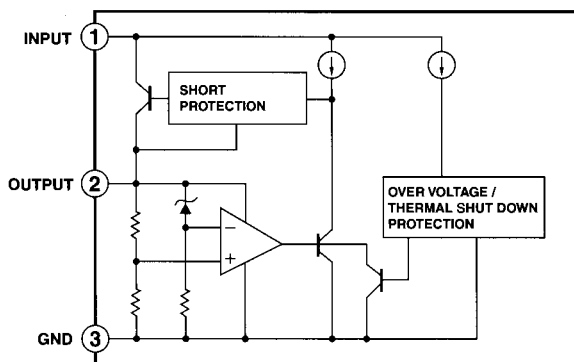
■ IC-PST9131-T(IC902) : Reset



■ RPM6938-SV4(IC251) : Remote Censor

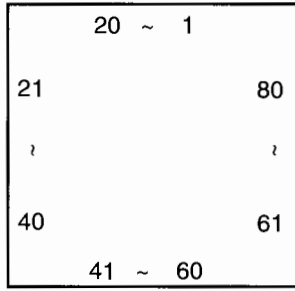


■ TA78DL06S(IC390) : 6VOLTAGE REGULATOR

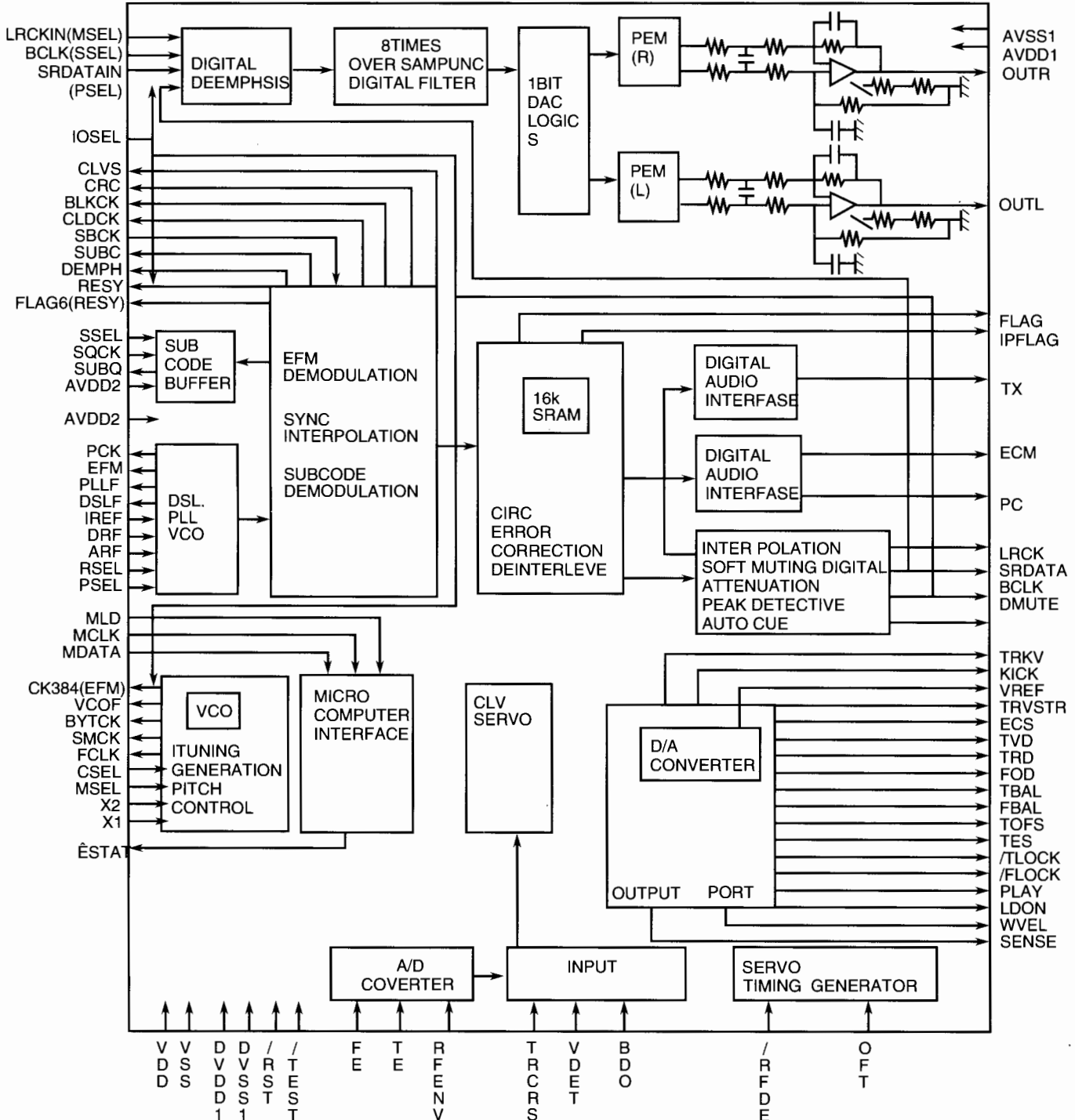


■ MN35510(IC603):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



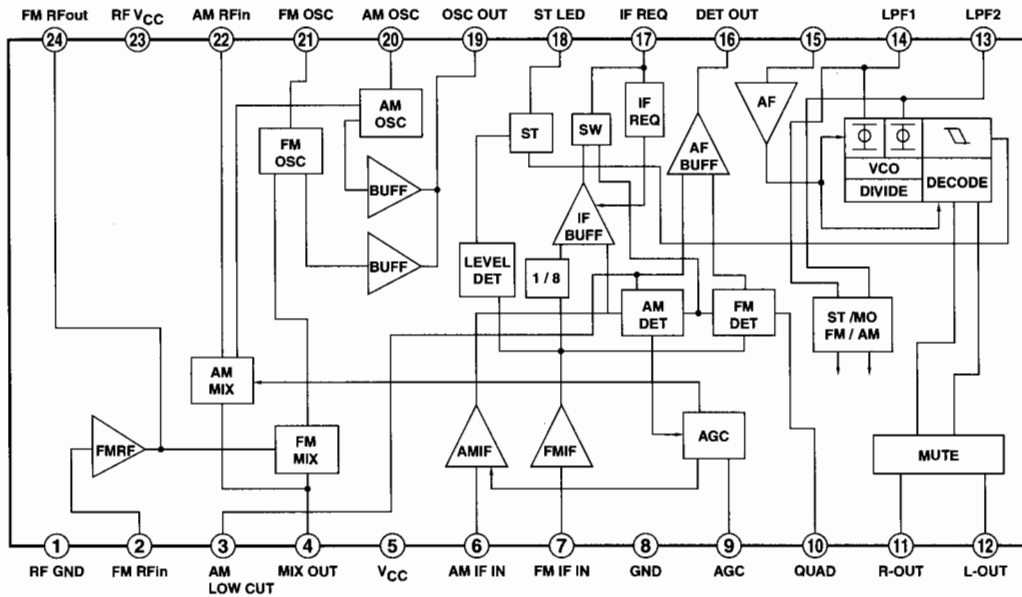
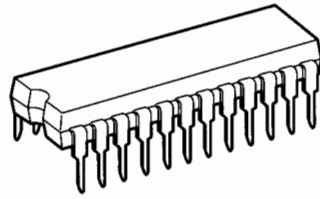
2. Block Diagram



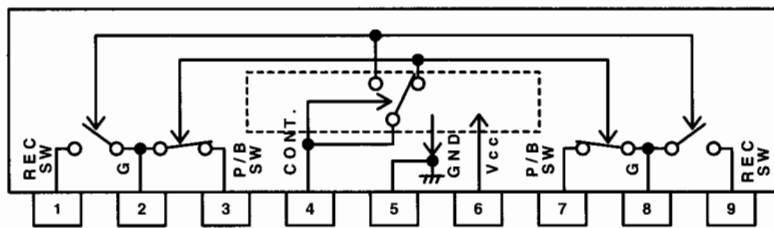
3. Description

Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	-	Not used
3	SRDATA	O	Not used	43	WVEL	-	Not used
4	DVDD1	-	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	-	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μ com command clock signal input (Data is latched at signal's rising point)	47	DSLIF	I/O	Loop filter pin for DSL
8	MDATA	I	μ com command data input	48	PLLIF	I/O	Loop filter pin for PLL
9	MLD	I	μ com command load signal input	49	VCOF	-	Not used
10	SENSE	O	Sence signal output	50	AVDD2	-	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	-	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	-	Not used
13	BLKCK	O	sub-code - block - clock signal output	53	PCK	-	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	-	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	-	Not used
16	DMUTE	-	Connected to GND	56	SBCK	-	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	-	Connected to GND(for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	-	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	-	Not used	60	VDD	-	Power supply(for X'tal cscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	-	Not used
22	TVD	O	Traverse drive output	62	CLDCK	-	Not used
23	PC	-	Not used	63	FLAG	-	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	-	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	-	Not used
26	KICK	O	Kick pulse output	66	CLVS	-	Not used
27	TRD	O	Tracking drive output	67	CRC	-	Not used
28	FOD	O	Focus drive output	68	DEMPH	-	Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	-	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	-	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	-	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	-	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	-	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	-	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	-	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	-	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	-	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	-	Pull up

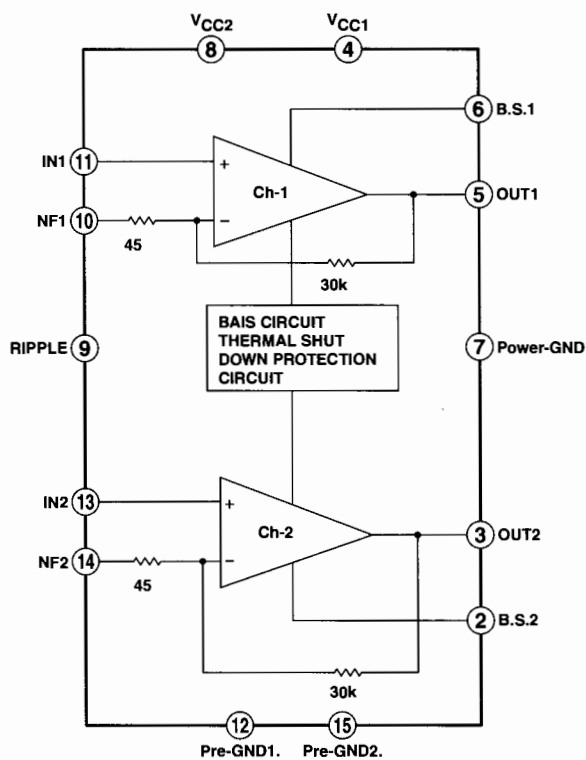
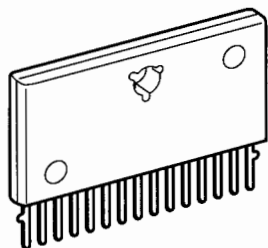
■ TA2104AN(IC1) : Radio Tuner



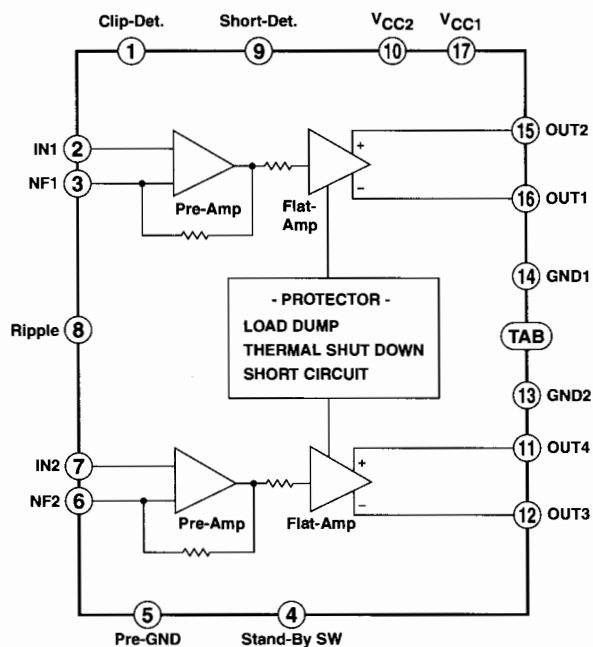
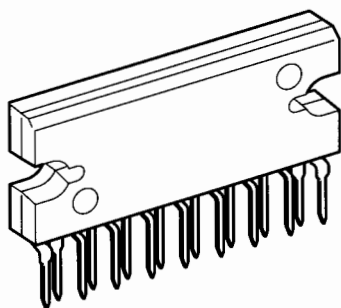
■ BA3126N(IC31) : R/P Switch



■ TA8223K(IC631) : power amplifier



■ TA8223H(IC641) : power amplifier

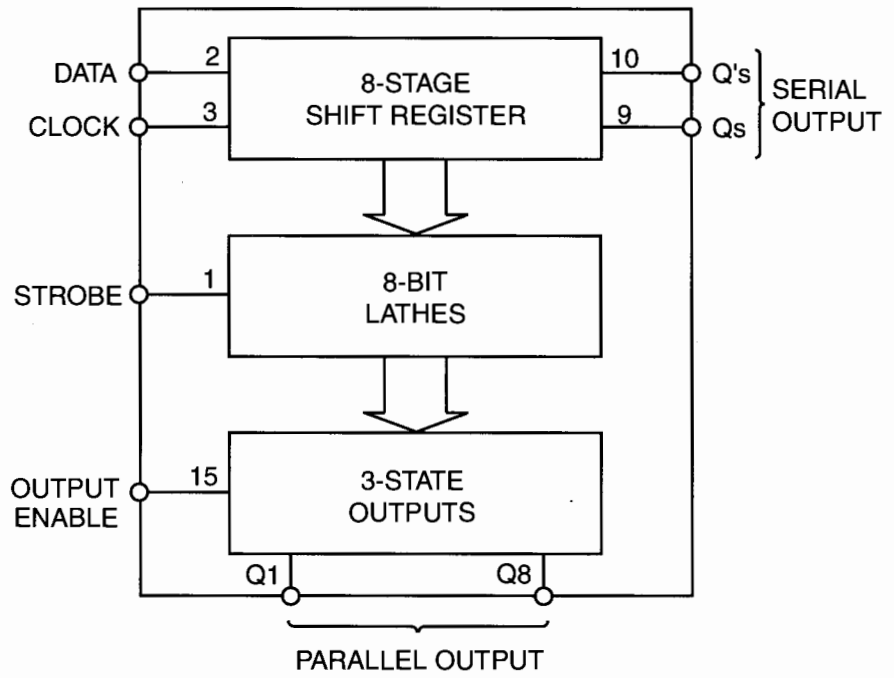


■ BU4094BCF-X(IC33):Serial to parallel port extension

1.Pin layout

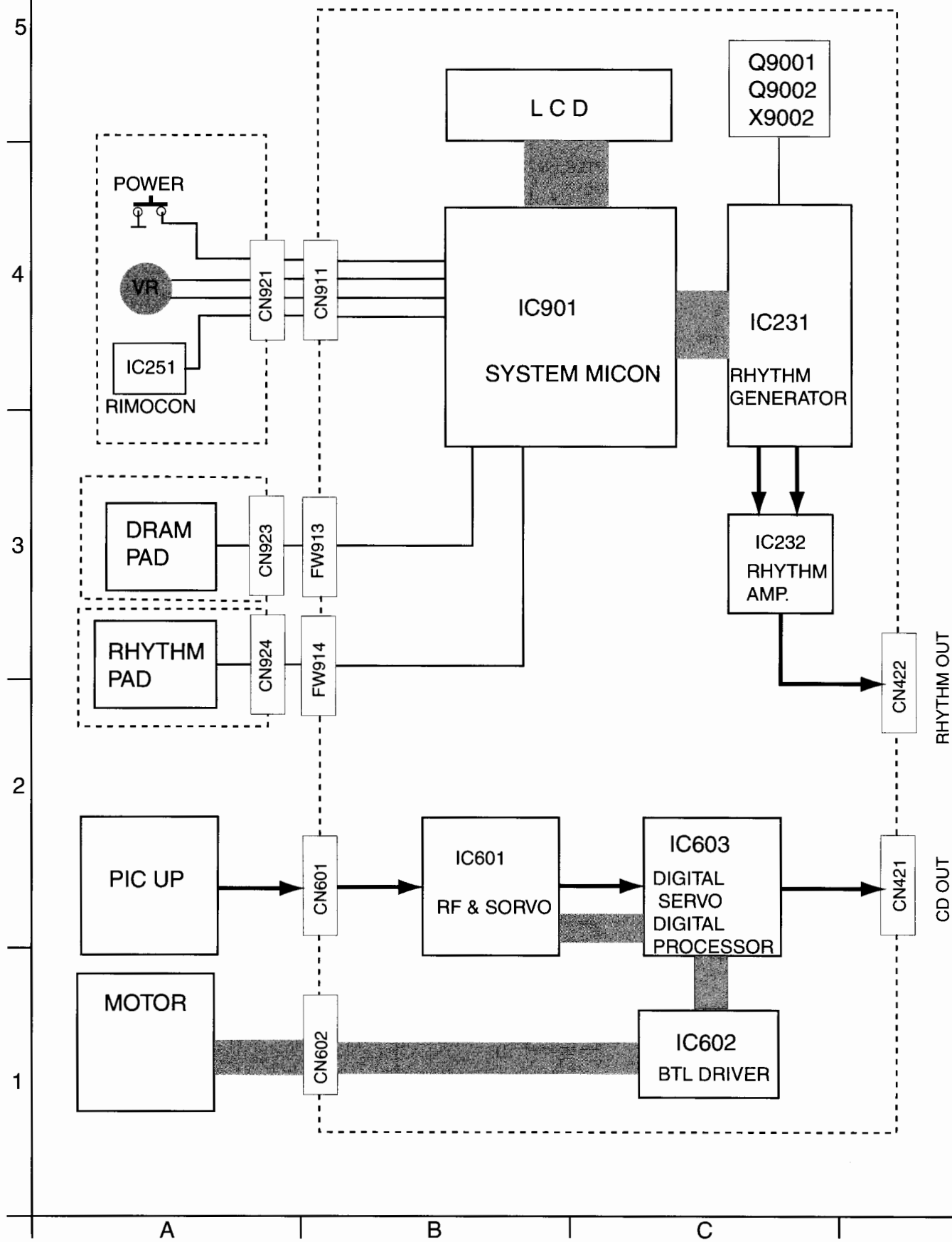
STROBE	1	16	Vdd
DATA	2	15	OUTPUT ENABLE
CLOCK	3	14	Q5
Q1	4	13	Q6
Q2	5	12	Q7
Q3	6	11	Q8
Q4	7	10	Q's
Vss	8	9	Qs

2.Block diagram

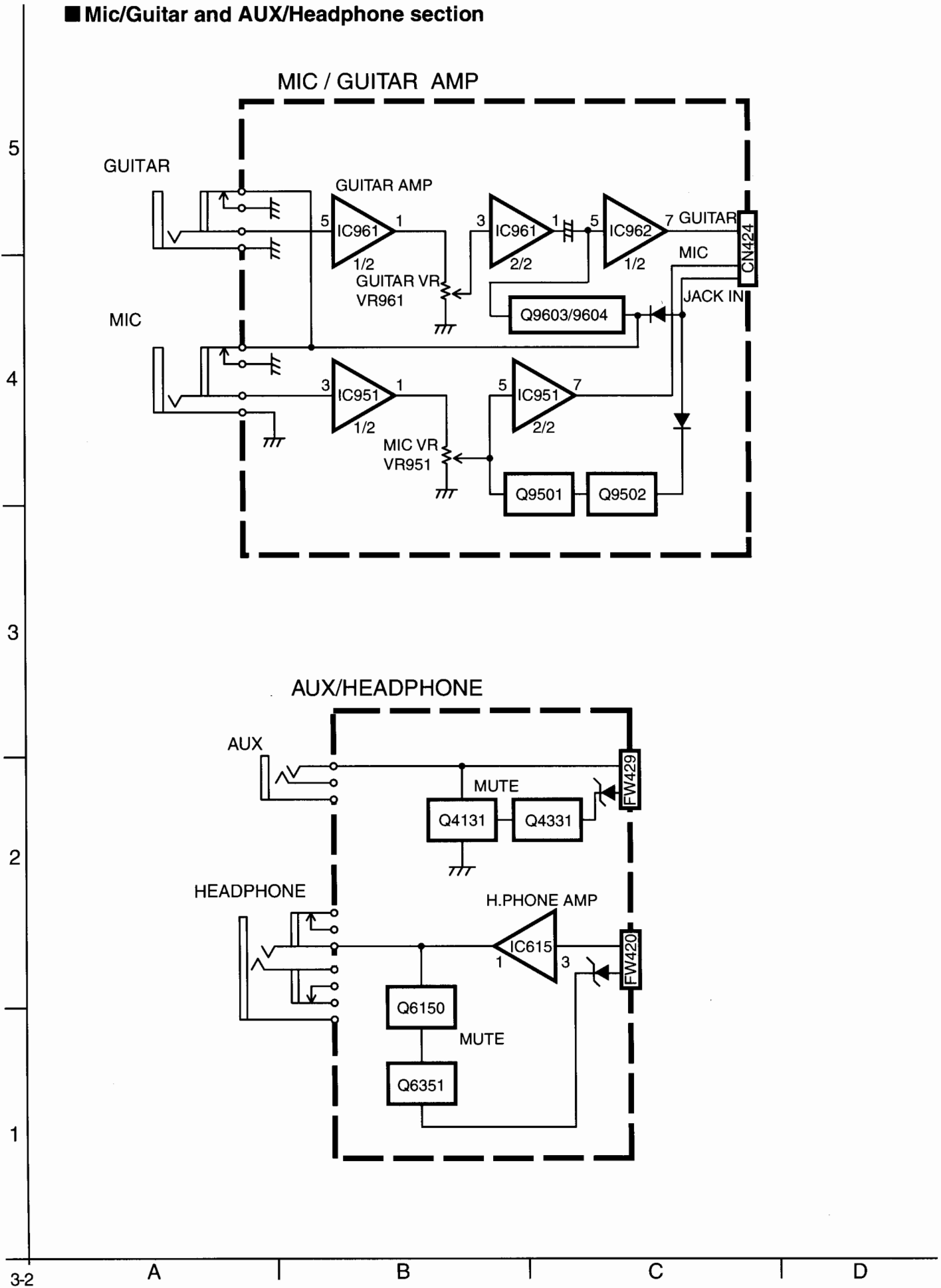


Block diagrams

■ System control(Micon)section

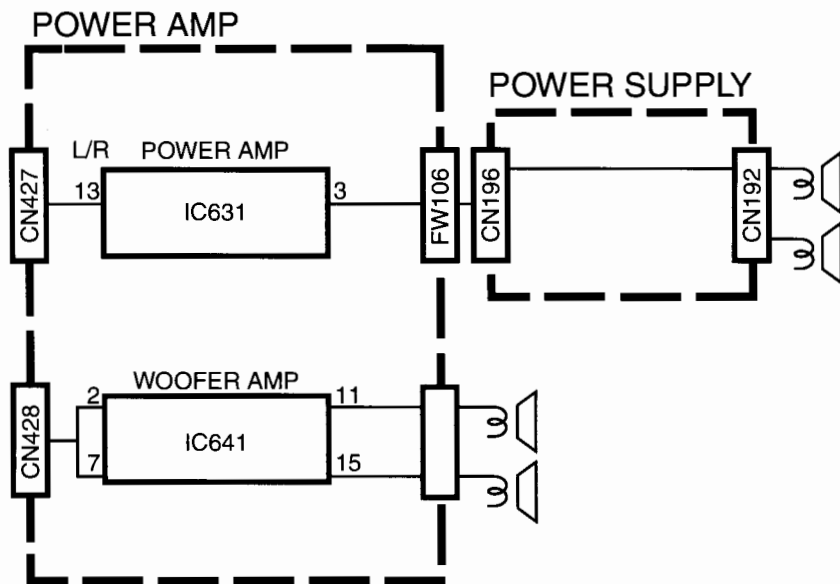
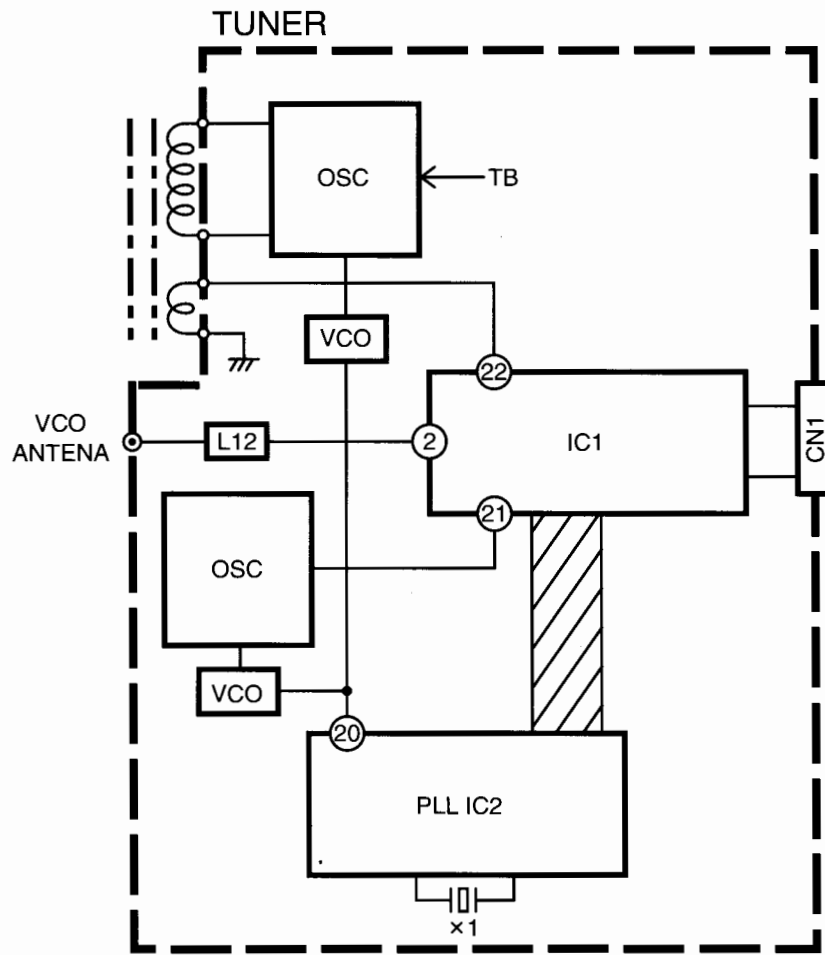


■ Mic/Guitar and AUX/Headphone section

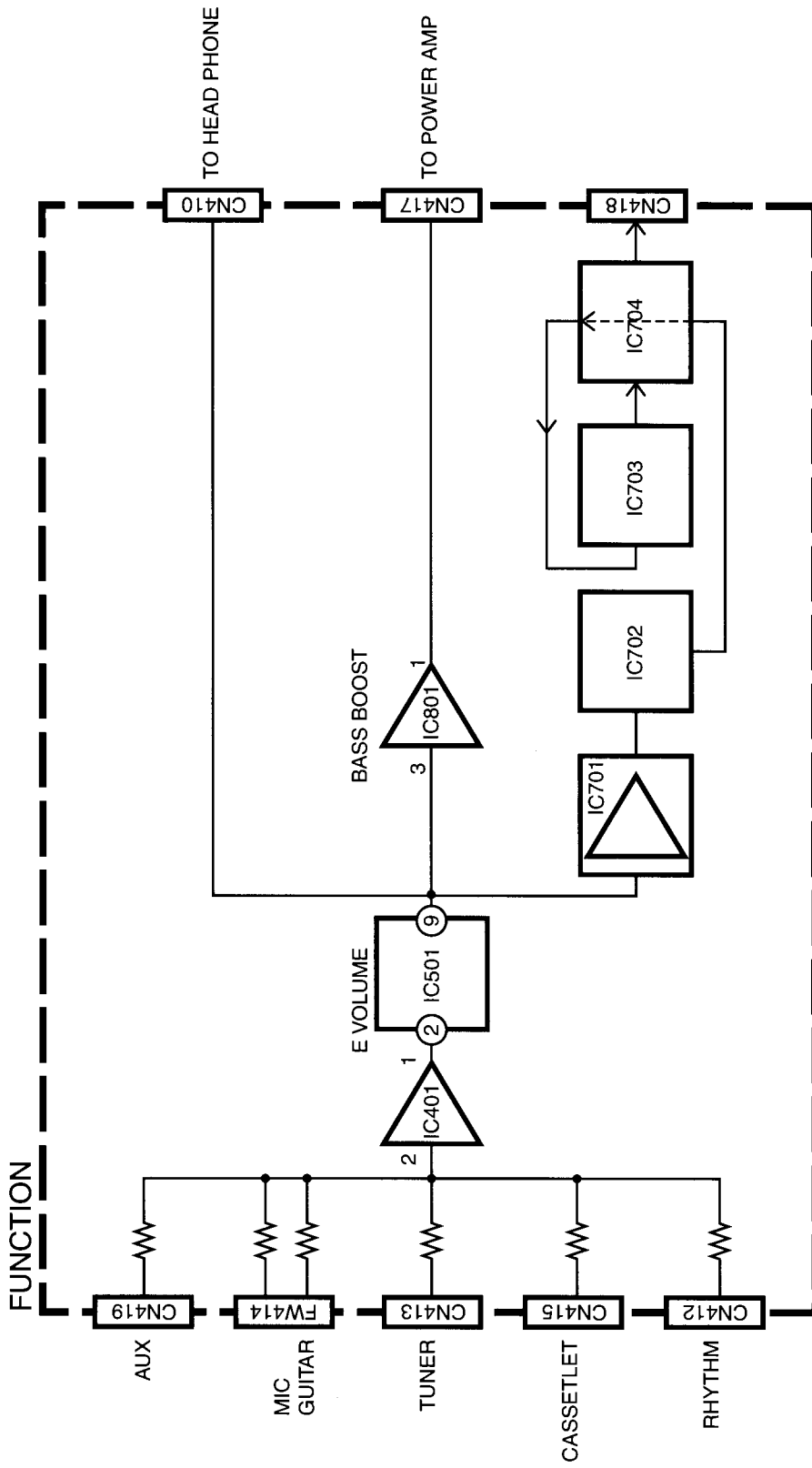


■ Tuner / Power section

5
4
3
2
1



■ Function section



Standard schematic diagrams

■ CD servo control circuit

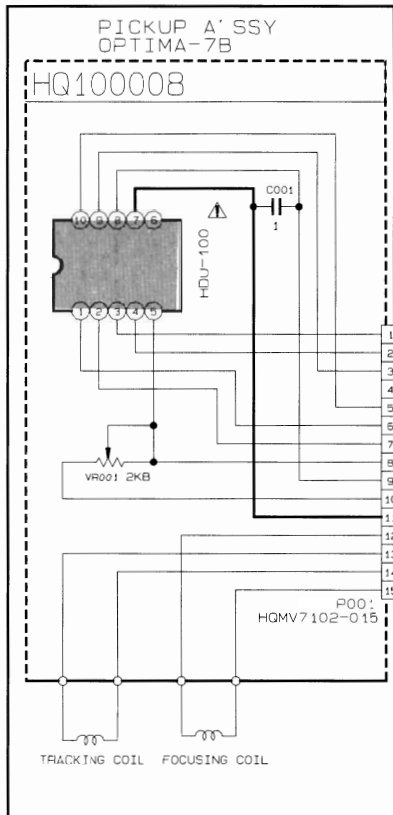
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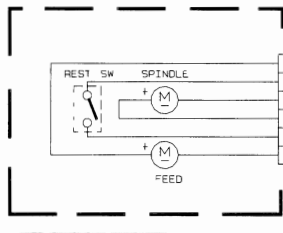
3

2

1

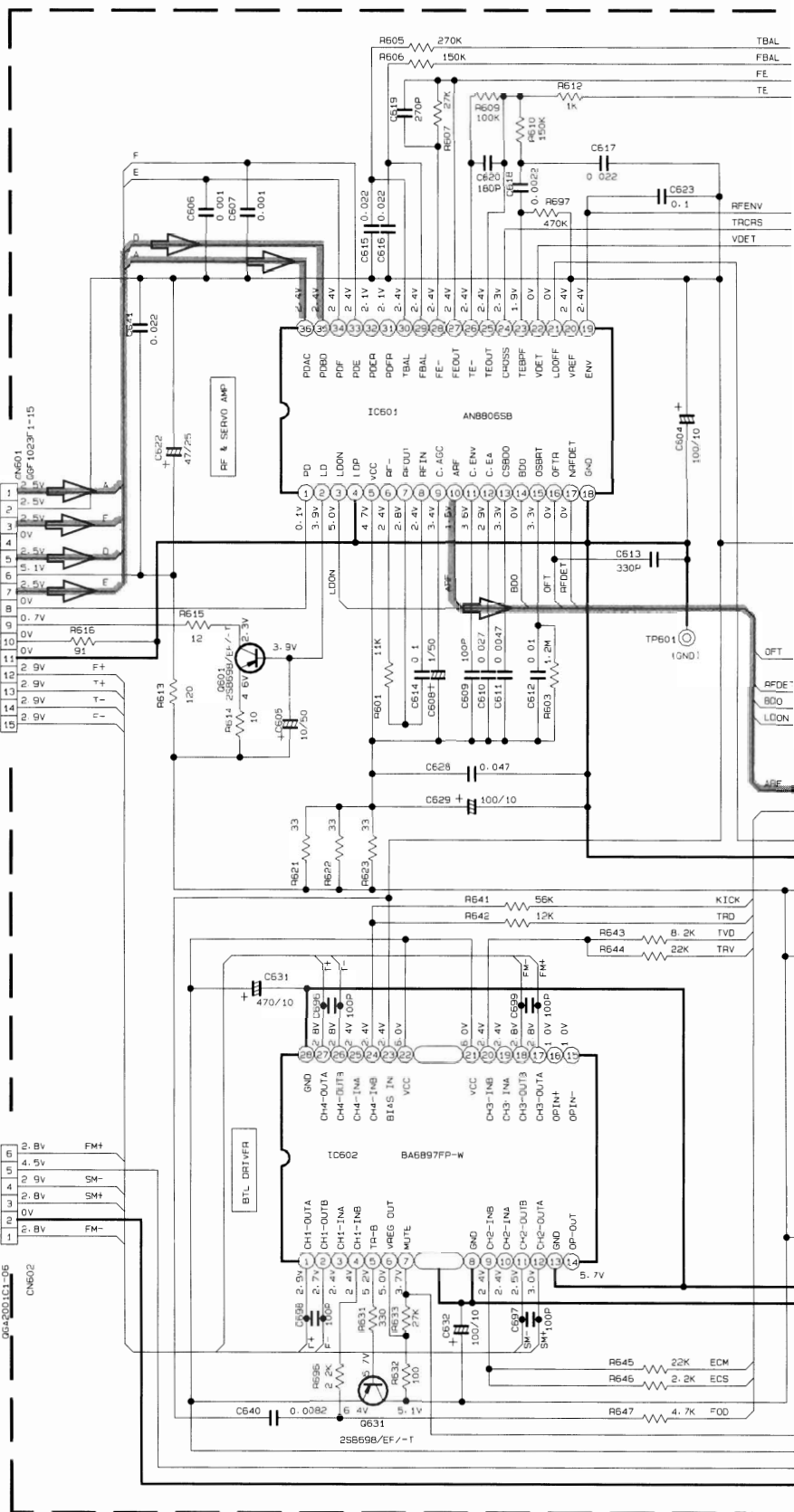


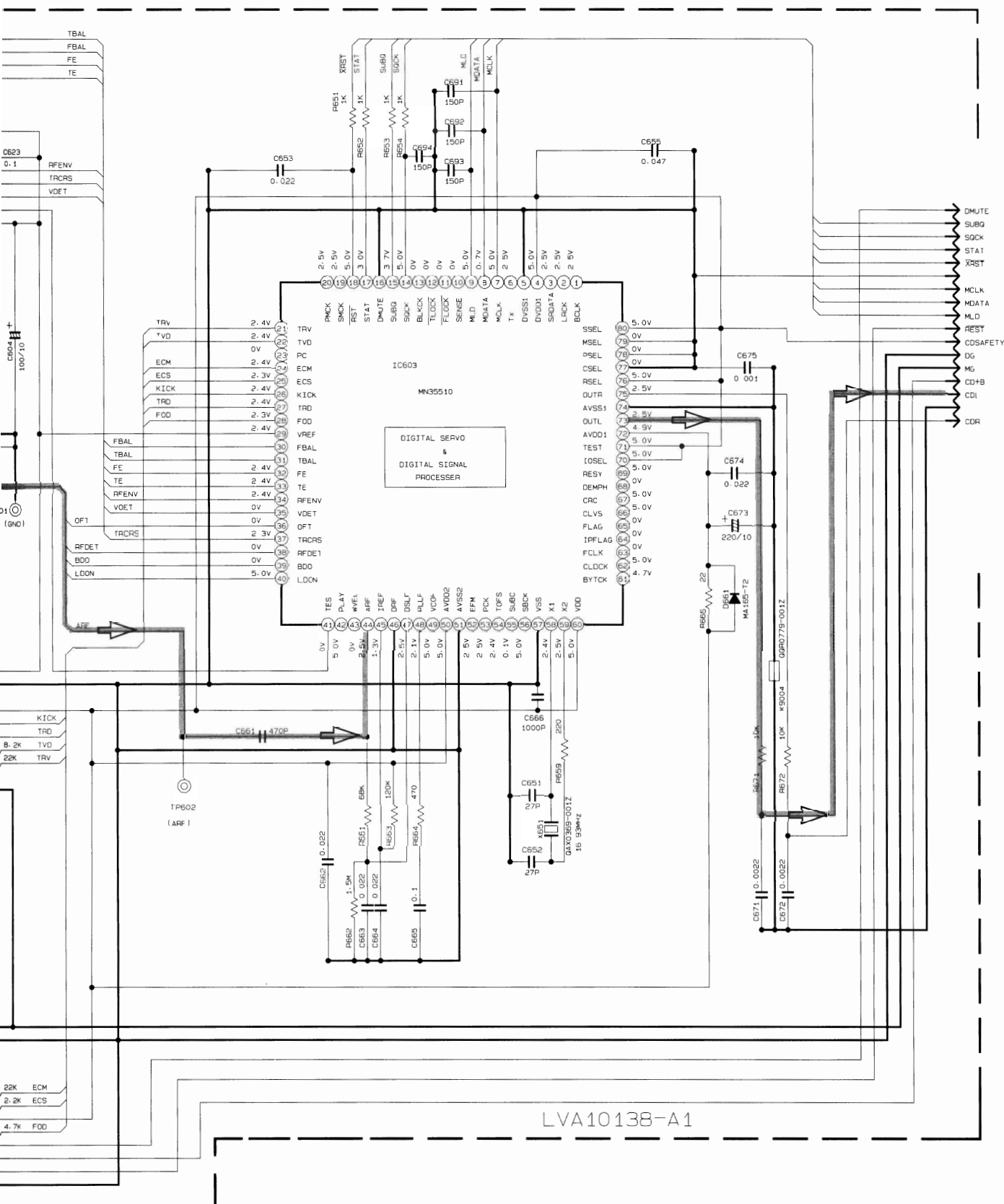
EXL-M7MBYPM



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/4W ±5% CHIP RESISTOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN P(F)=0F).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (P F)/RATED VOLTAGE (V)





To G-2 on page 3-10

LVA10138-A1

➡ CD & MAIN SIGNAL

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

CD-OPTIMA7

■ Cassette amplifire section

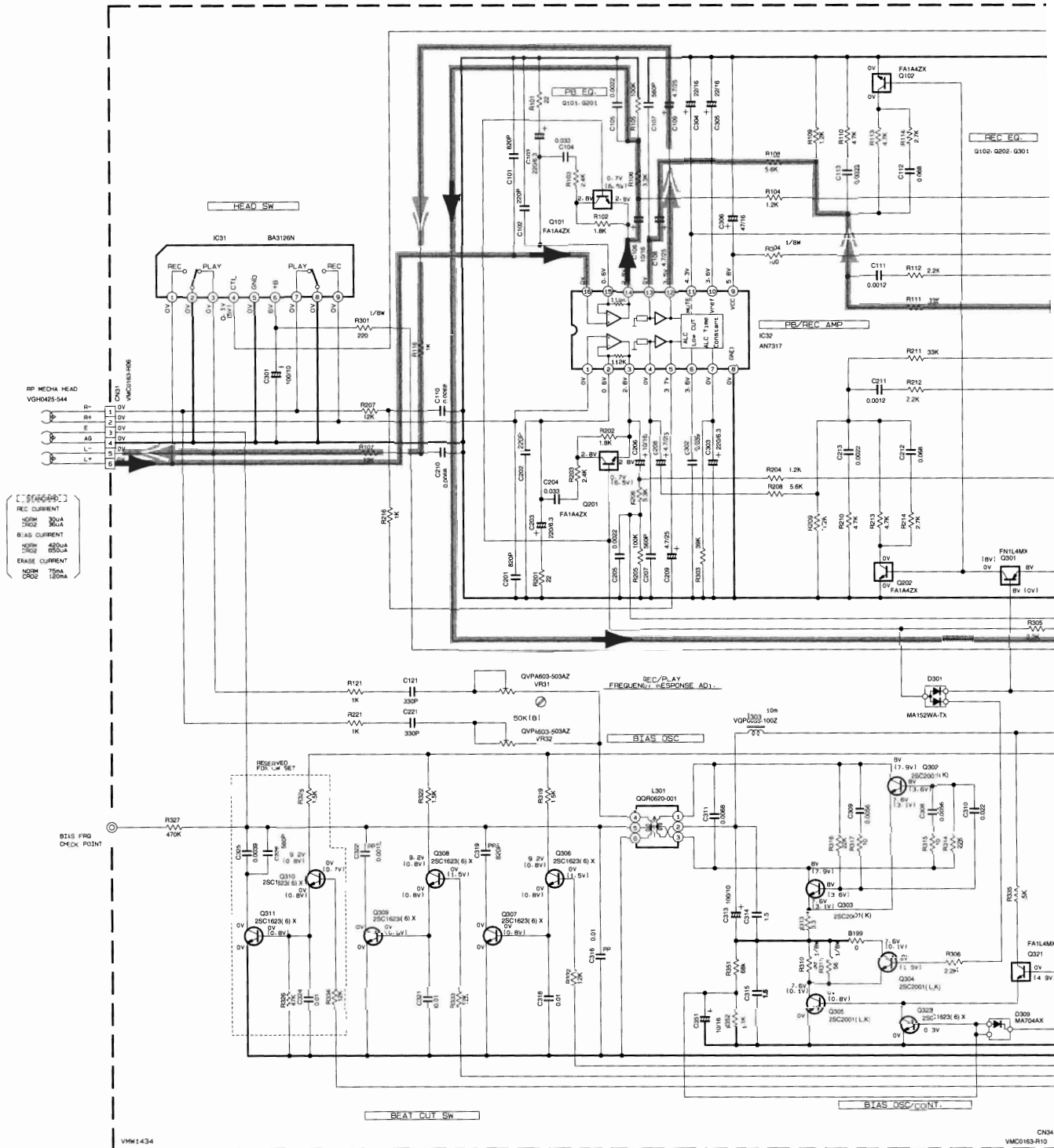
5

4

3

2

1

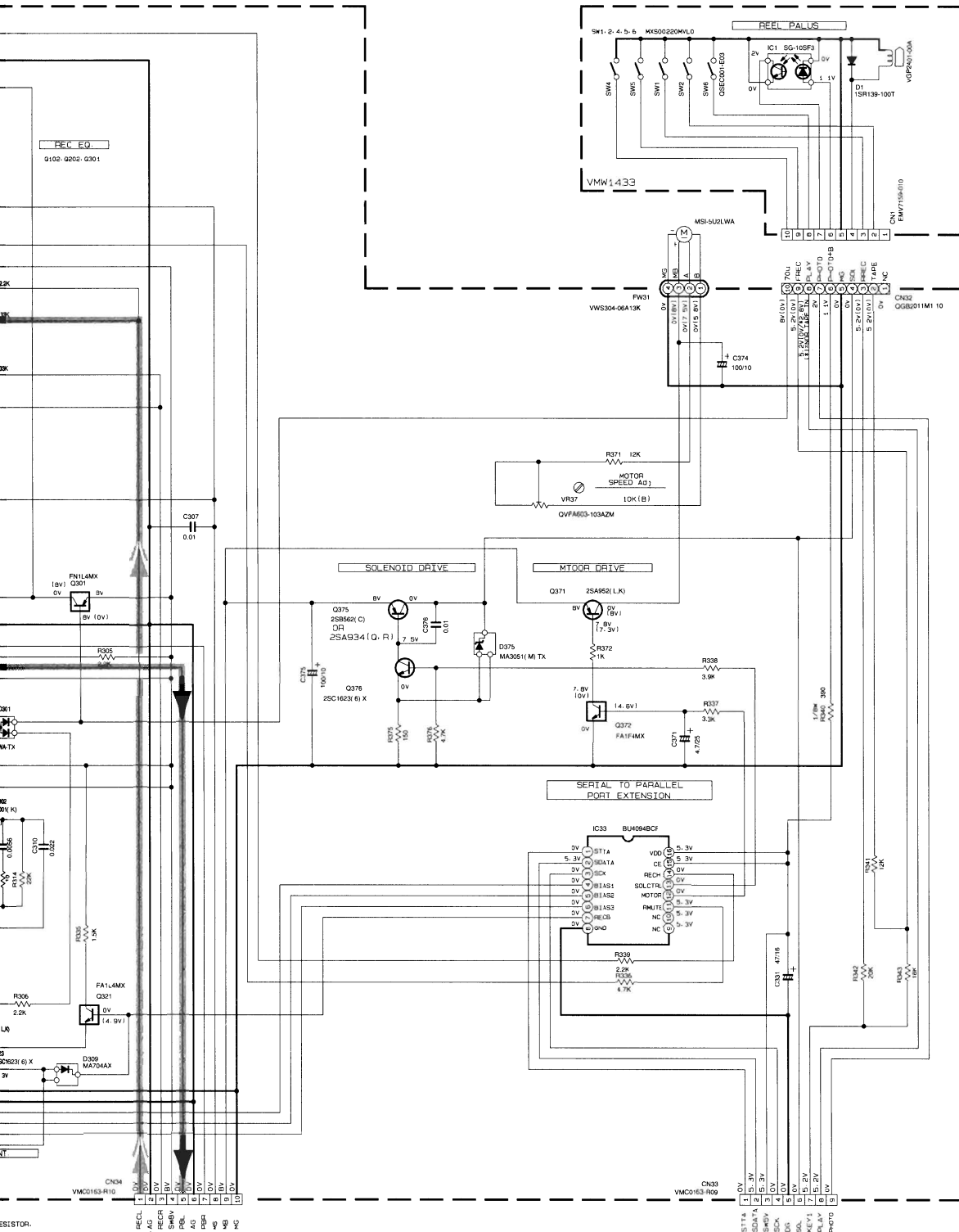


- REC CURRENT 300A
- BIAS CURRENT 800A
- ERASE CURRENT 750A

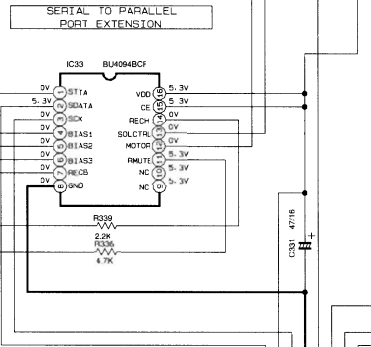
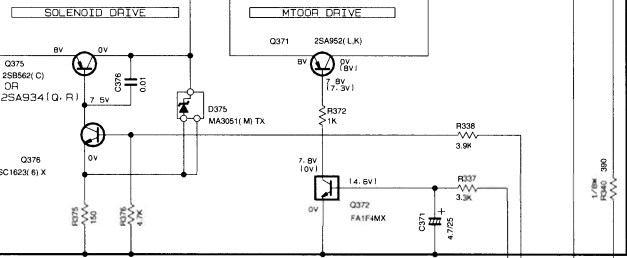
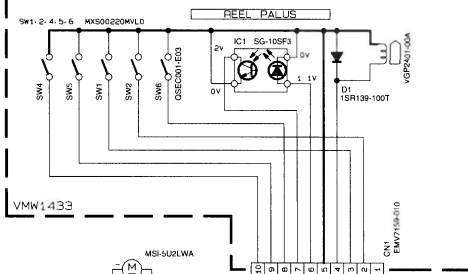
NOTES

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

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL RESISTANCE VALUES ARE IN OHMS (Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN PICO (pF). ALL INDUCTANCE VALUES ARE IN MILLI (mH). ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#1/RATED VOLTAGE (V)). POLYPROPYLENE CAPACITOR



REC EQ
0102-0202-0301



RESISTOR
VOLTAGE | V1

To A-2 on page 3-11

To D-1 on page 3-10

PARTS	NAME	REF. NO
	FA144ZX	0101-0201 0102-0202
	FN1L4MX	Q301
	FA1L4MX	Q321
	FA1F4MX	Q371

➔ Playback signal line
➔ Recording signal line

D | E | F | G | H

Tuner circuit (Only B/E/EN)

5

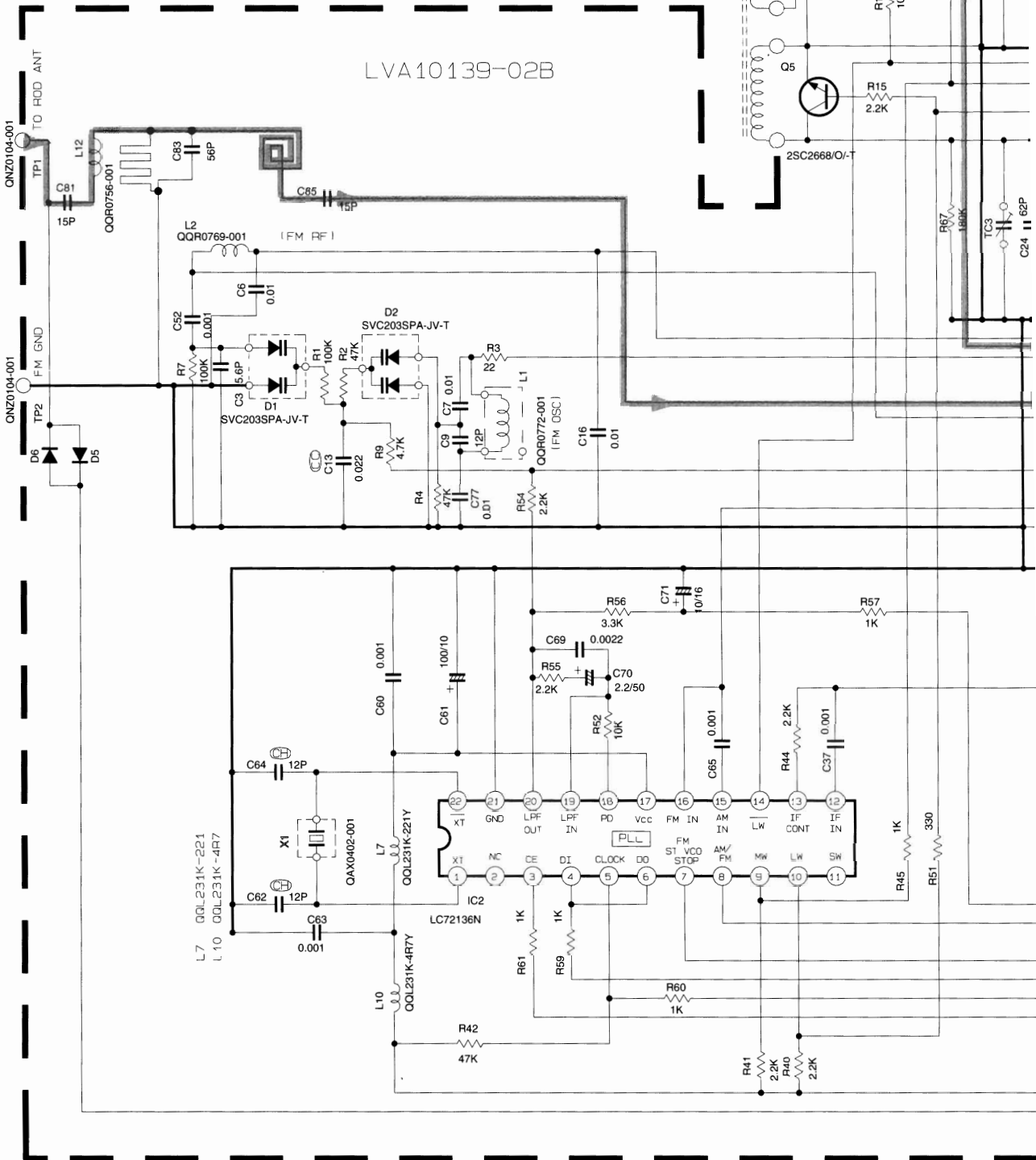
4

3

2

1

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 88M-HZ	0	0.8	0	3.6	4	3.5	4	0	0.6	3.2	1.2	1.2	3.4	3.3	0.7	1.4	1.2	0	3.9	4	4.1	4	4	4		
	FM 88M-HZ 60dB STEREO	0	0.8	0.2	3.8	4.1	3.9	4.1	0	0	3.3	1.2	1.2	3.3	3.4	0.7	1.1	1.4	0.7	4	4.1	4.1	4.1	4.1	4.1		
	AM 531KHz NO SIGNAL	0	0	1	4.2	4.3	3.6	4.3	0	0.1	3.7	1.2	1.2	0	0	0.7	1.1	0.9	0.7	4.1	4.2	4.3	4.3	4.3	4.3		
PIN NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				
IC2	FM NO SIGNAL	2.5	0	0	5.1	5.1	5.1	3.5	3.2	3.9	2.5	4.1	0	1.4	1.7	0	2.4	0	0.9	0.9	1.5	0	2				
	TR NO	Q1			Q2			Q3			Q4			Q5			Q6			Q14							
	PIN NO	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
AM 1440KHz NO SIGNAL		3.3	4.2	4.1	0	0	0.1	0	0	0.1	4.1	4.1	3.6	0	0	0.8	0	0	0.7	4.1	4.1	0					
AM 144KHz NO SIGNAL		3.4	4.3	4.2	0	0	0.8	0	0	0.7	4.3	4.3	4.3	0	0	0.1	0	0	0.1	4.3	4.3	4.3					

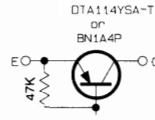


A B C D

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR
3. ALL RESISTANCE VALUES ARE IN OHM(Ω)
4. ALL CAPACITANCE VALUES ARE IN #F(P=pF).
5. ALL E-CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)
6. ALL INDUCTANCE VALUES ARE IN #H(m=mH)
7. SI DIODES (▶) ARE ALL MA165 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254 OR HSS104TJ OR 1SS133.
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS:
 Q1-2, 3-5: 2SC2668/O/ OR 2SC1923/O/
 Q4: 2SA1175/HFE/
 Q14: DTA114YS or BN1A4P

9. INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.

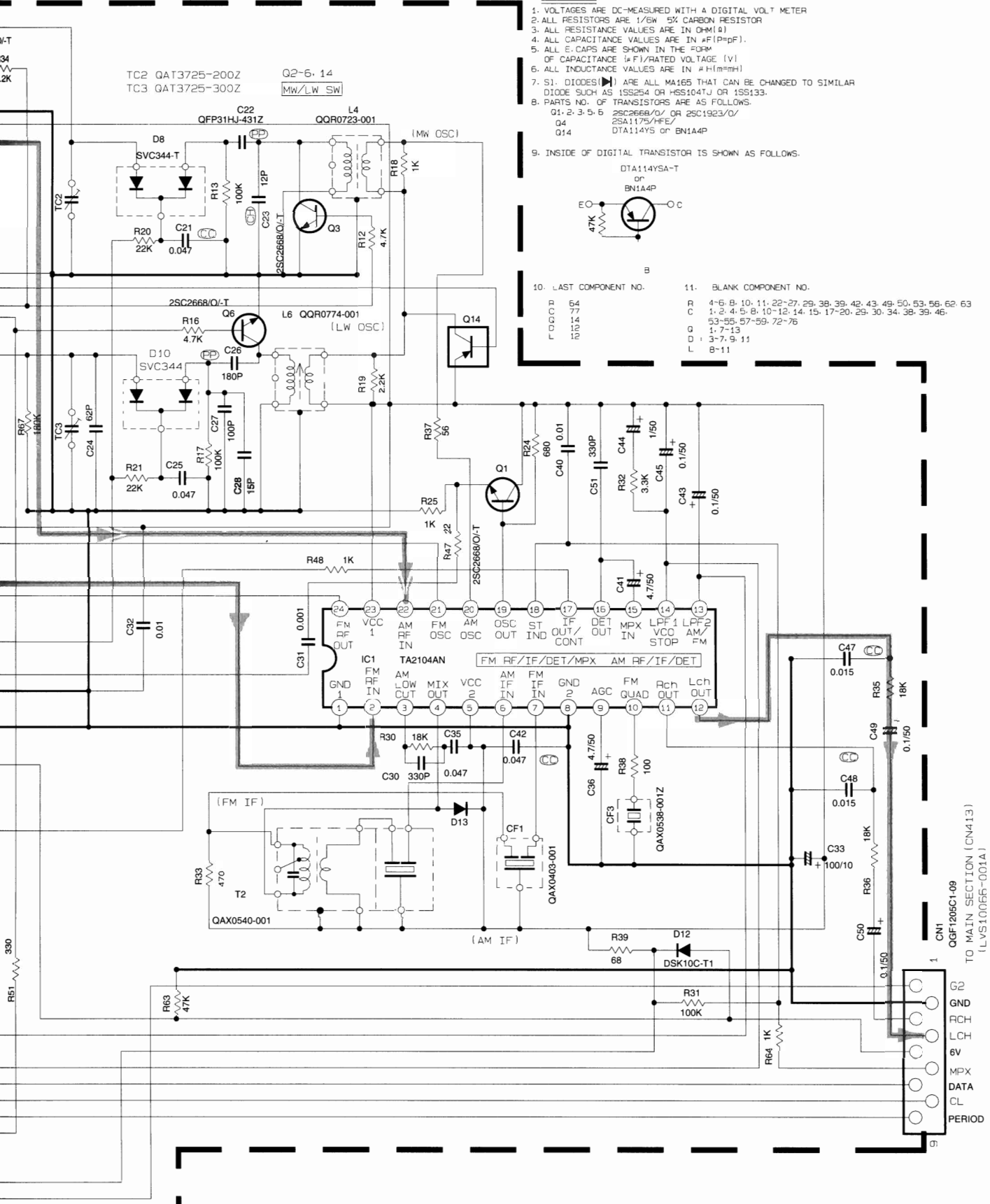


10. LAST COMPONENT NO.

R	64
F	72
O	14
S	13
C	15

11. BLANK COMPONENT NO.

R	4-6	B	10, 11, 22-27, 29, 38, 39, 42, 43, 49, 50, 53, 56, 62, 63
C	1-2, 4, 5, 8, 10-12, 14, 15, 17-20, 29, 30, 34, 38, 39, 46,		
	53-55, 57-59, 72-76		
D	1-7-13		
L	3-7, 9-11		
	B-11		



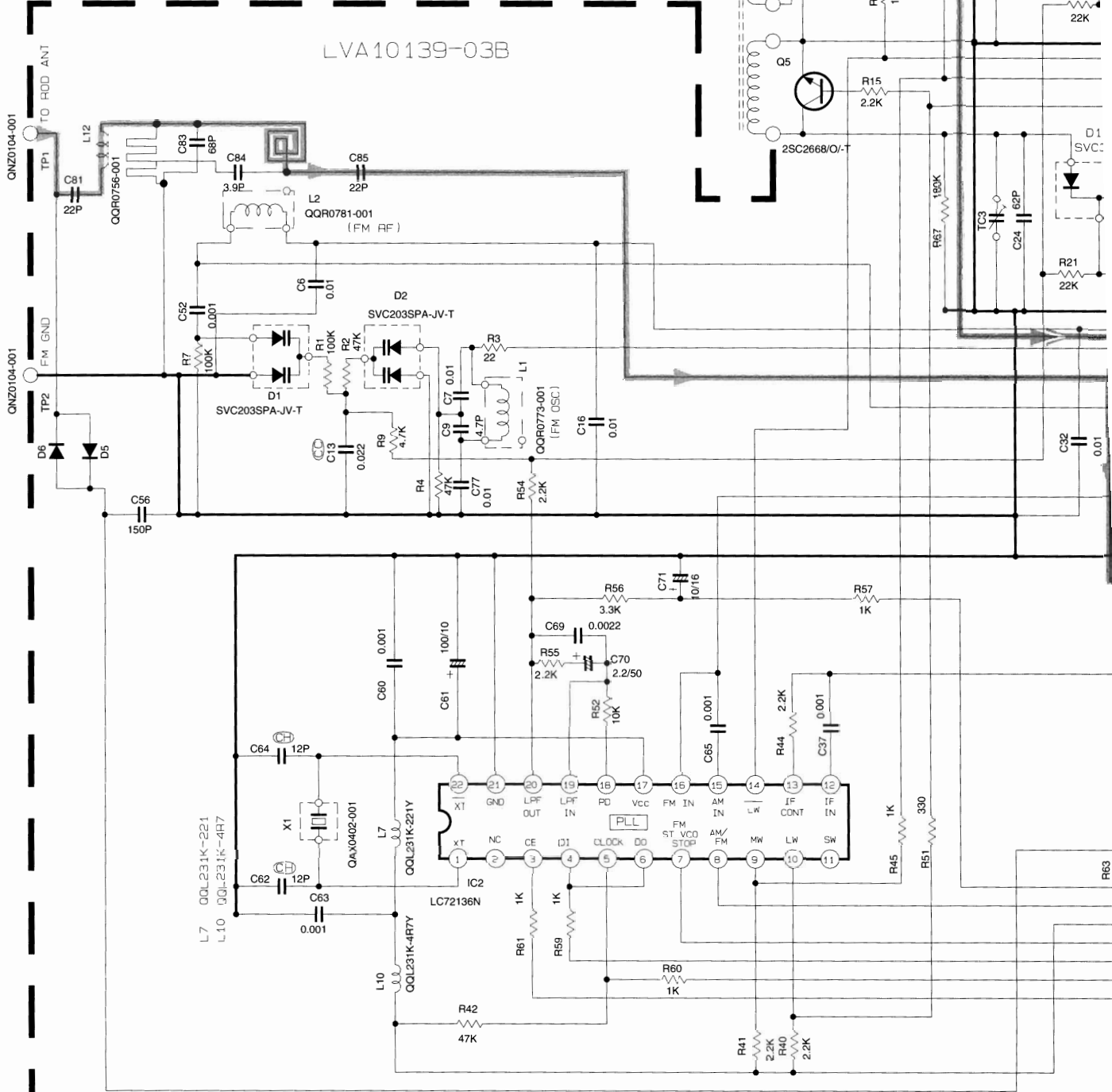
CN1
QGF1205C1-09
TO MAIN SECTION (CN413)
(LVS100RF-001A)

To A-3 on page 3-11



■ Tuner circuit (Only EE)

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	
FM NO SIGNAL BFMHZ	0	0.8	0	3.6	4	3.9	4	0	0.6	3.2	1.2	1.2	3.4	3.3	0.7	1.1	1.4	0.7	4	4.1	4.1	4.1	4.1	4.1	
IC1 FM BFMHZ 60dB STEREO	0	0.8	0	3.6	4.1	3.9	4.1	0	0	3.3	1.2	1.2	3.3	3.4	0.7	1.1	1.4	0.7	4	4.1	4.1	4.1	4.1	4.1	
AM 531KHZ NO SIGNAL	0	0	1	4.2	4.3	3.6	4.3	0	0	1	3.7	1.2	1.3	0	0	0.7	1.1	0.9	0.7	4	4.2	4.3	4.3	4.3	
PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
IC2 FM NO SIGNAL	2.5	0	0	5.1	5.1	5.1	3.5	3.2	3	2.7	0.6	0	1	4	0	2.4	5	0.9	0.9	2.6	0	2.2			
TR NO				Q1		Q2		Q3		Q4		Q5		Q6											
PIN NO				E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	
AM 1440KHZ NO SIGNAL				3.3	4.1	4	0	0	0.1	0	0	0.1	4.1	4.1	3.5	0	0	0.6	0	0.7	4.1	4.1	0.1		
AM 144KHZ NO SIGNAL				3.4	4.3	4.2	0	0	0.8	0	0	0.7	4.3	4.3	4.3	0	0	0.1	0	0.1	4.3	4.3	4.3		



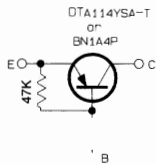
5
4
3
2
1

A B C 3-8 D

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHMS(Ω)
4. ALL CAPACITANCE VALUES ARE IN μF(R=PF)
5. ALL E. CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)
6. ALL INDUCTANCE VALUES ARE IN μH(m=MH)
7. S1, DIODES (▶) ARE ALL MA165 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254 OR H5S104TJ OR 1SS133
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS:
Q1-2, 3-5, 6 2SC2668(O-T)
Q4 2SA1175(AFE)
Q14 DTA114YS OR BN1A4P

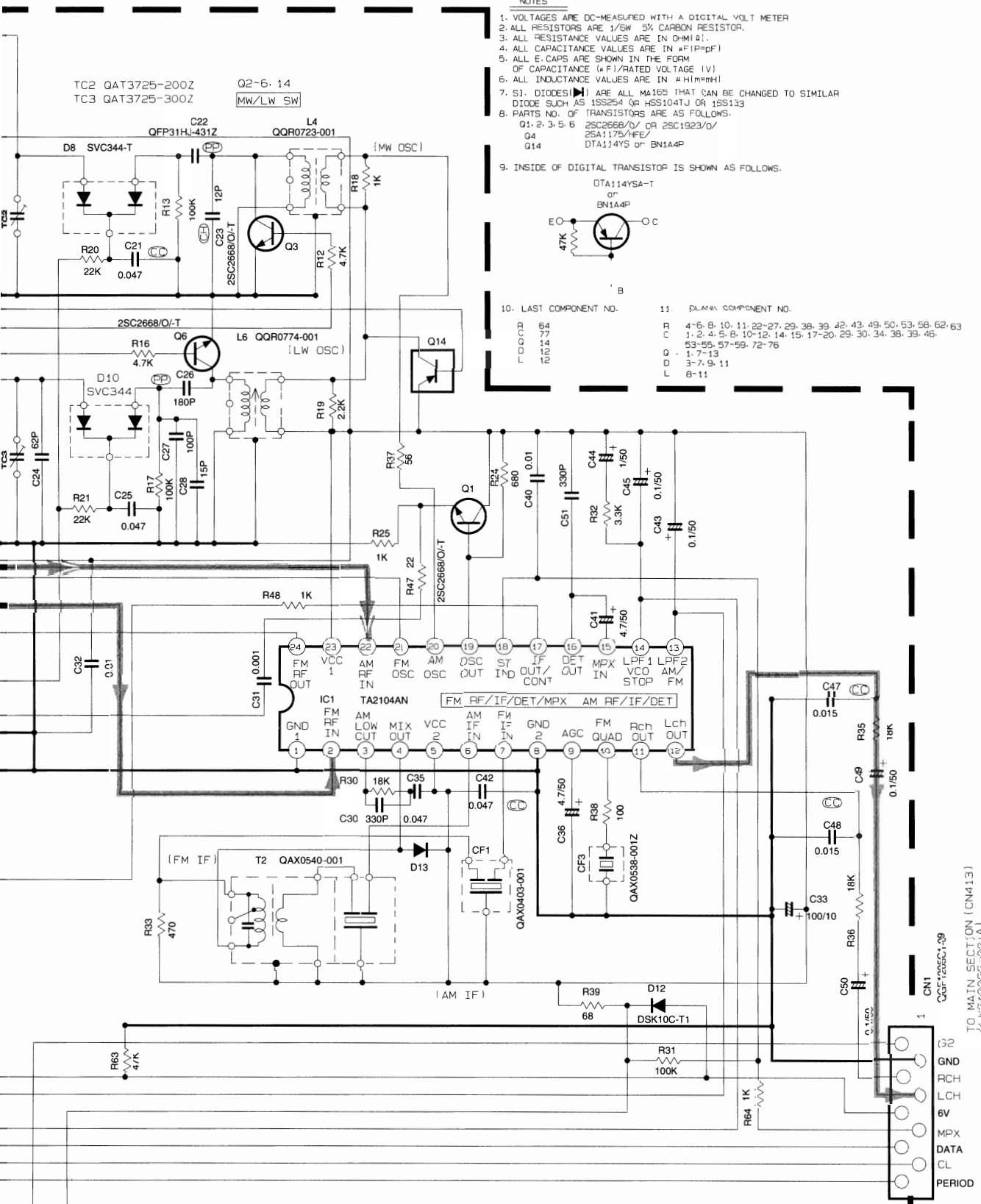
9. INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.



10. LAST COMPONENT NO.

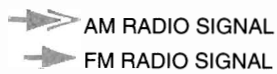
11. PLATE COMPONENT NO.

F	0003	614
F	0003	77
F	0003	14
F	0003	10
G	1	4-6, 8, 10, 11, 22-27, 29, 38, 39, 42, 43, 49, 50, 53, 58, 62, 63
G	2	1, 2, 4, 5, 8, 10-12, 14, 15, 17-20, 29, 30, 34, 38, 39, 46
G	3	53-55, 57-59, 72-76
G	4	1-7, 13
G	5	3-7, 9, 11
G	6	8-11



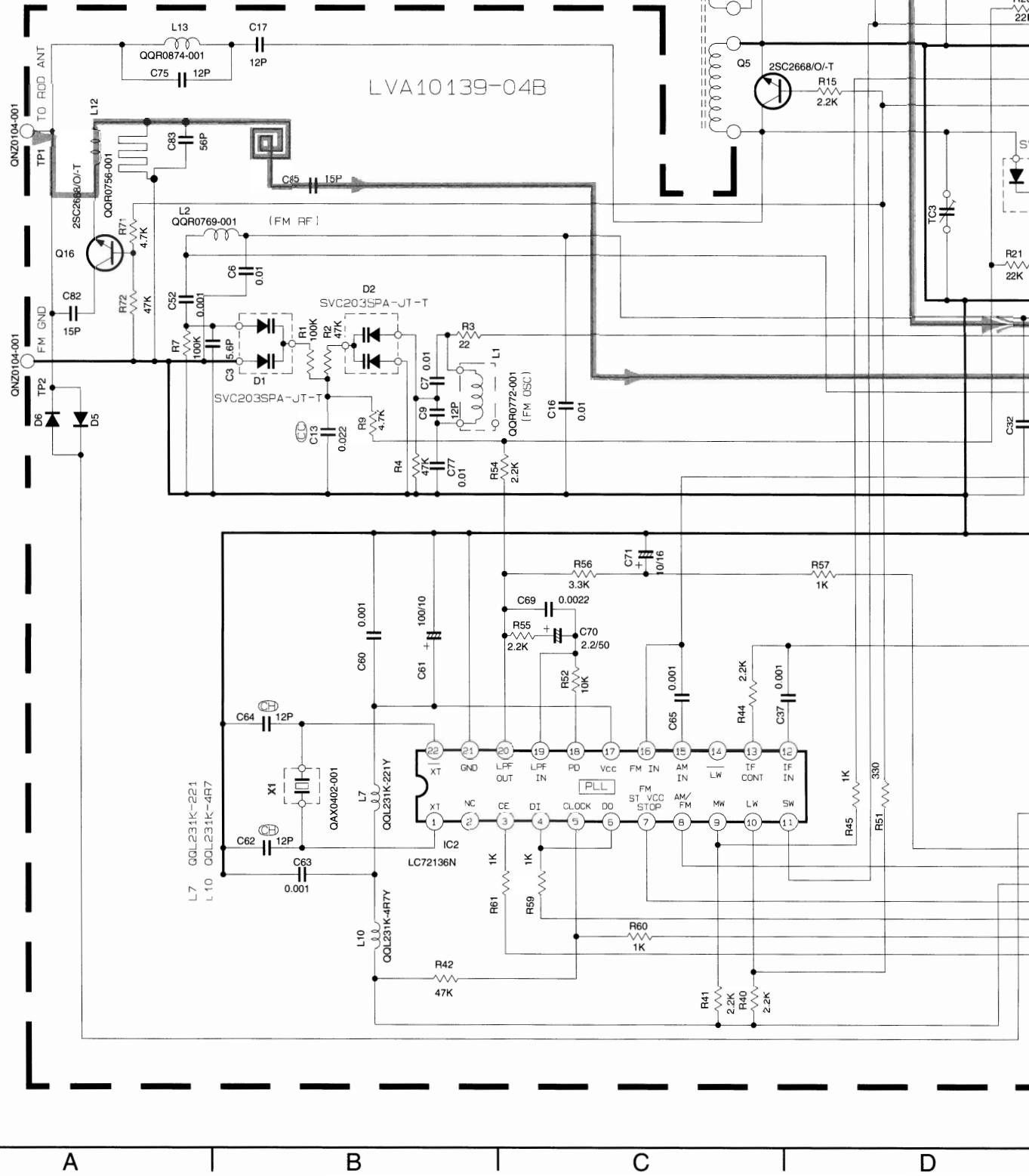
TO MAIN SECTION (CN4113)
(L.V.120000001A)

To A-3 on page 3-11



Tuner circuit (Only U/US)

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 89MHz	0	0.8	0	3.6	4	3.5	4	0	0.6	3.2	1.2	1.2	3.4	3.3	0.7	1.4	1.2	0	3.9	4	4.1	4	4
	FM 89MHz 50dB STEREO	0	0.8	0.2	3.8	4.1	3.9	4.1	0	0	3.3	1.2	1.2	3.3	3.4	0.7	1.1	1.4	0.7	4	4.1	4.1	4.1	4.1
	AM 531KHz NO SIGNAL	0	0	1	4.2	4.3	3.6	4.3	0	0.1	3.7	1.2	1.2	0	0	0.7	1.1	0.9	0.7	4.2	4.3	4.3	4.3	4.3
IC2	FM NO SIGNAL	2.5	0	0	5.1	5.1	3.5	3.2	3.6	2.5	4.1	0	1.4	1.7	0	2.4	0	0.9	1.5	0	2			
	TR NO		Q1		Q3		Q4		Q5		Q6		Q16		Q17									
PIN NO		E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C
	AM 531KHz NO SIGNAL	3.4	4.3	4.2	0	0	0.1	4.3	4.3	4.3	0	0	0.7	0	0	0.7	0	4.3	4.3	4.2				



5

4

3

2

1

A

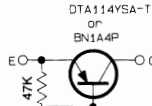
B

C

D

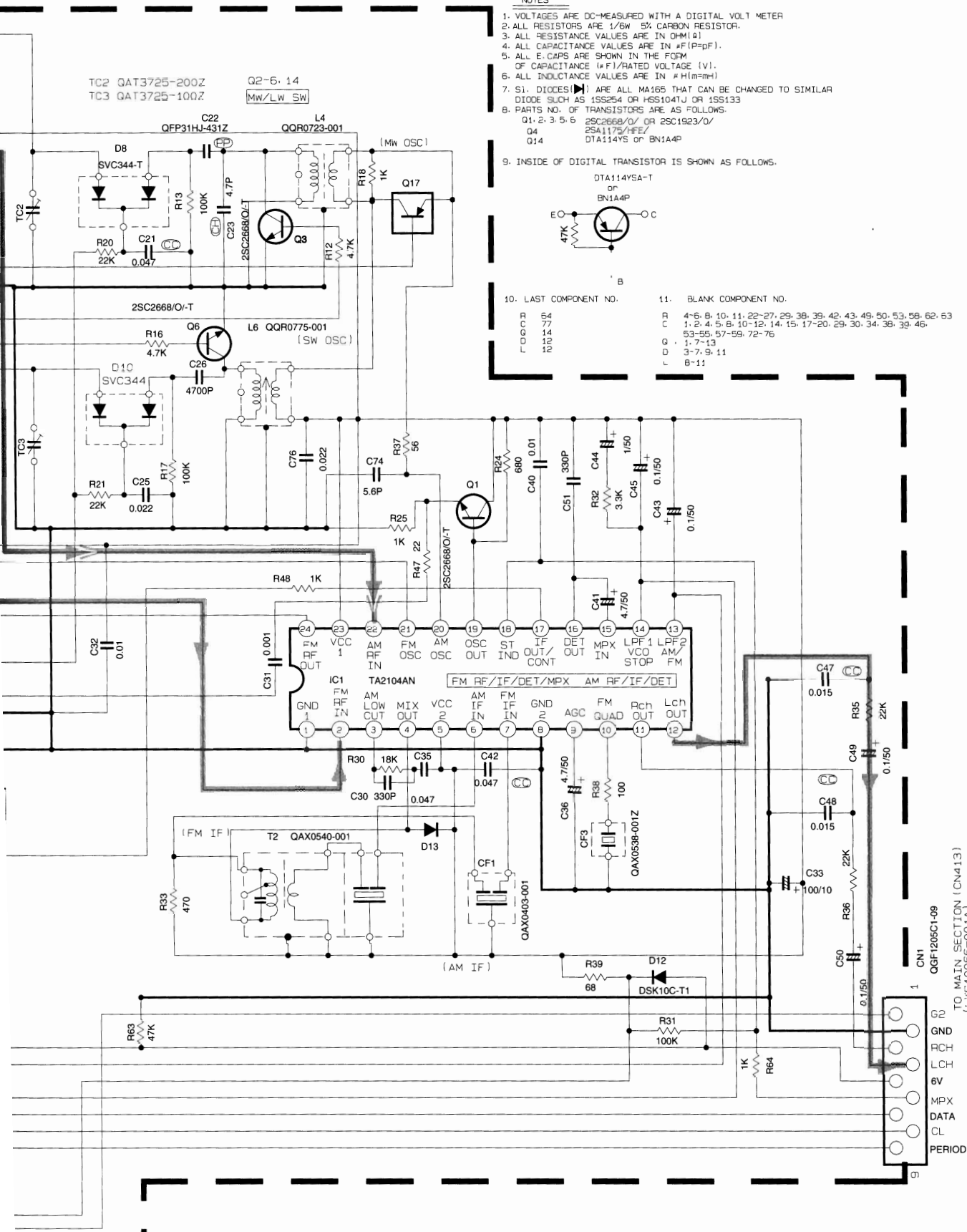
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω)
4. ALL CAPACITANCE VALUES ARE IN #F(PpF).
5. ALL CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
6. ALL INDUCTANCE VALUES ARE IN #H(mmh)
7. S1: DIODES ARE ALL MA16S THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254 OR HSS1041J OR 1SS133
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1: 2, 3, 5, 6 2SC2668/O/ OR 2SC1923/O/
Q4 2SA1175/HFE/
Q14 DTA114YS or BN1A4P
9. INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.



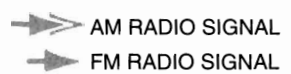
10. LAST COMPONENT NO.
11. BLANK COMPONENT NO.

10000	54	11	4-5
1000	77	10	11, 22-27, 29, 36, 39, 42, 43, 49, 50, 53, 56, 62, 63
100	14	9	1, 2, 4, 5, 8, 10-12, 14, 15, 17-20, 29, 30, 34, 38, 39, 46,
10	12	8	53-55, 57-59, 72-76
		7	1-7-13
		6	3-7-9, 11
		5	8-11



TO MAIN SECTION (CN413)
(LV510066-001A)

To A-3 on page 3-11



System control circuit

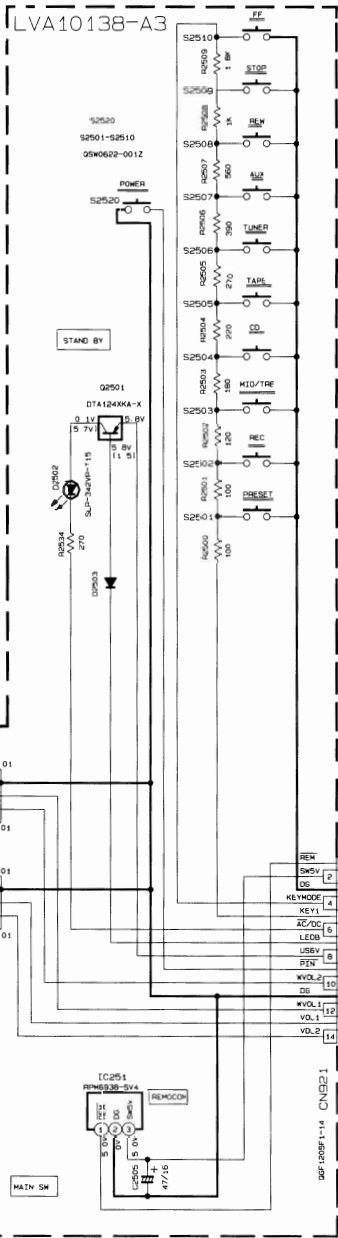
5

4

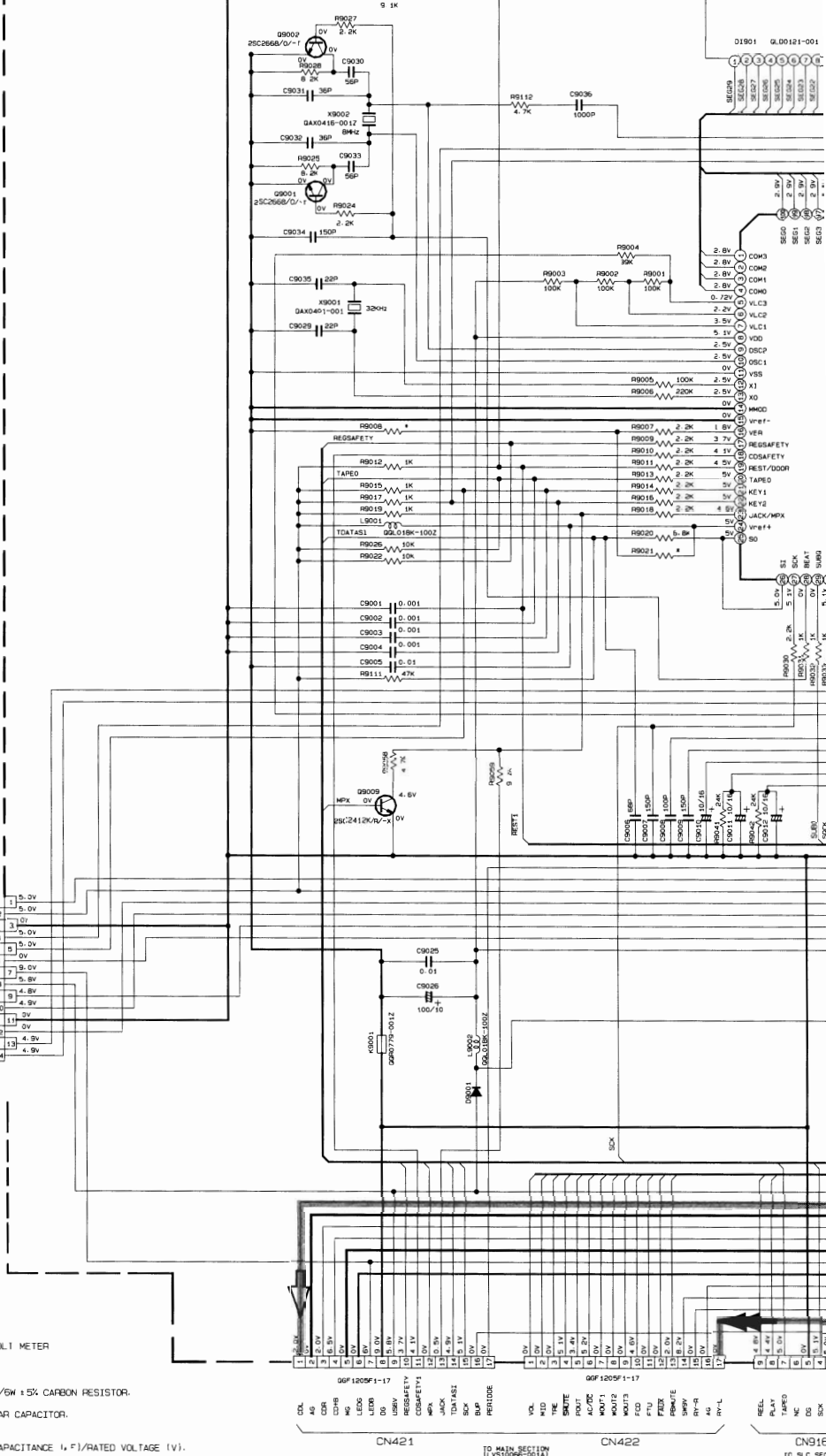
3

2

1



LVA10138-A1



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOL1 METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP AT AC SUPPLY VOL1 (20) BASE VOL1 (4).
 2. UNLESS OTHERWISE SPECIFIED - RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHMS (Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN PICO (pF). ALL INDUCTANCE VALUES ARE IN MILLI (mH). ALL EI CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V). ALL DIODES ARE 1SS254-T2 OR 1SS133-T2.

To B-1 on page 3-11

To G-1 on page 3-11

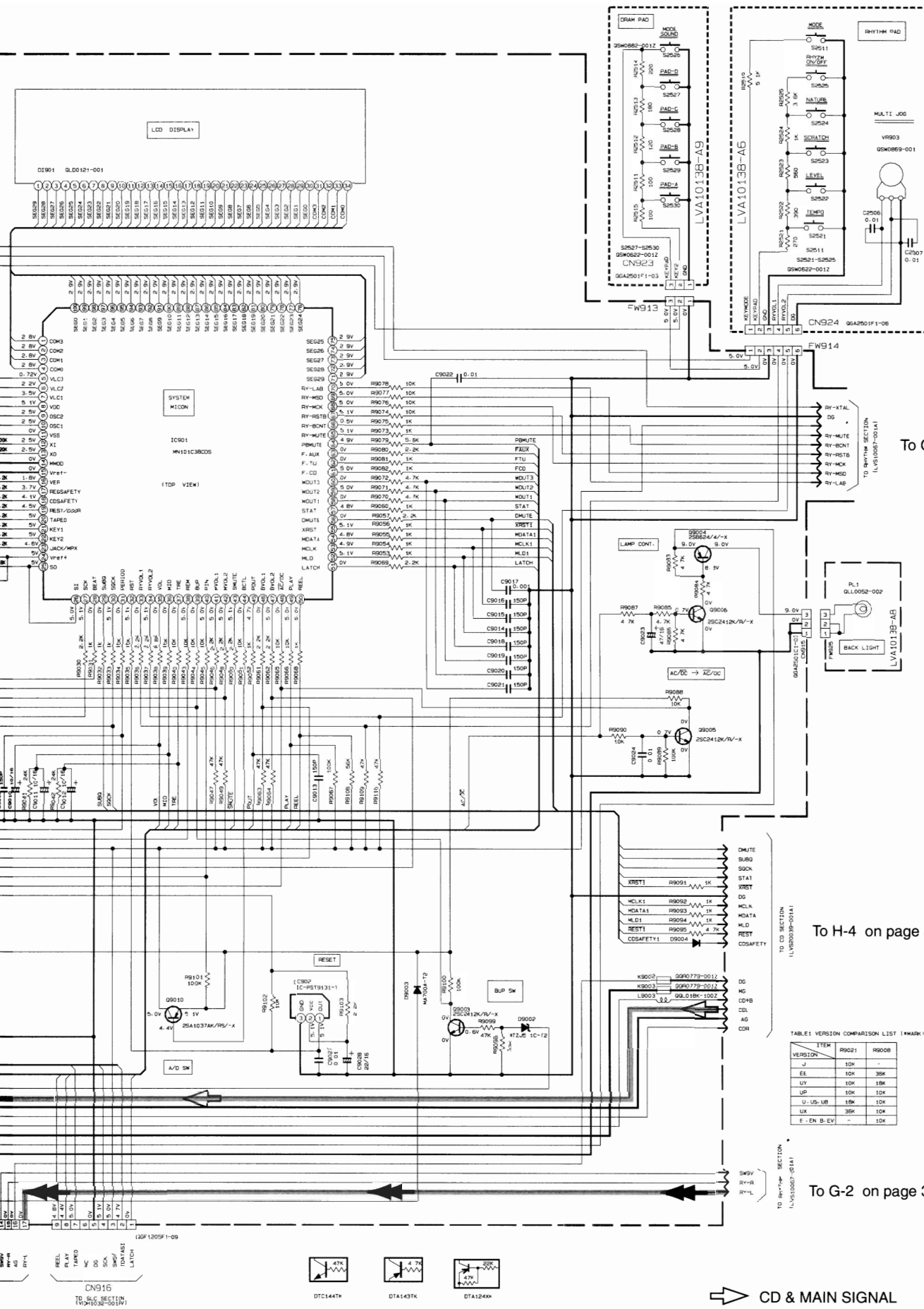
A

B

C

3-10

D



To G-1 on page 3-12

To H-4 on page 3-5

TABLE 1 VERSION COMPARISON LIST (MARK)

VERSION	ITEM	R9021	R9008
	U	10K	-
	EL	10K	36K
	UY	10K	18K
	UP	10K	10K
	U. US. UB	18K	10K
	UX	36K	10K
	E - EN - B - EV	-	10K

To G-2 on page 3-12

To G-1 on page 3-6

CD & MAIN SIGNAL
 RHYTHM SIGNAL

Function circuit

To C-4,5 on page 3-12

5

4

3

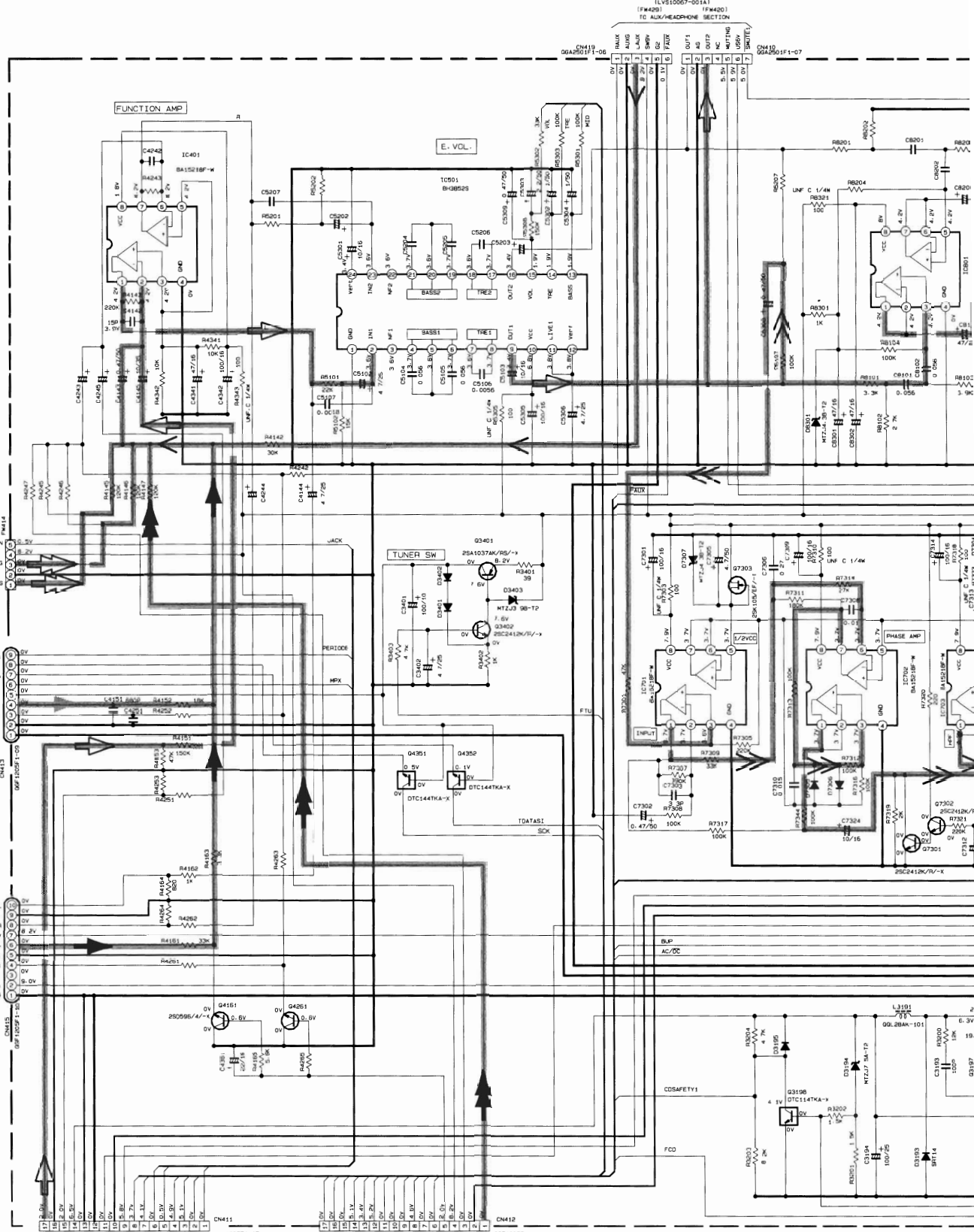
2

1

To D-1 on page 3-12
(LV510067-001A)
TO AUX/HEADPHONE SECTION

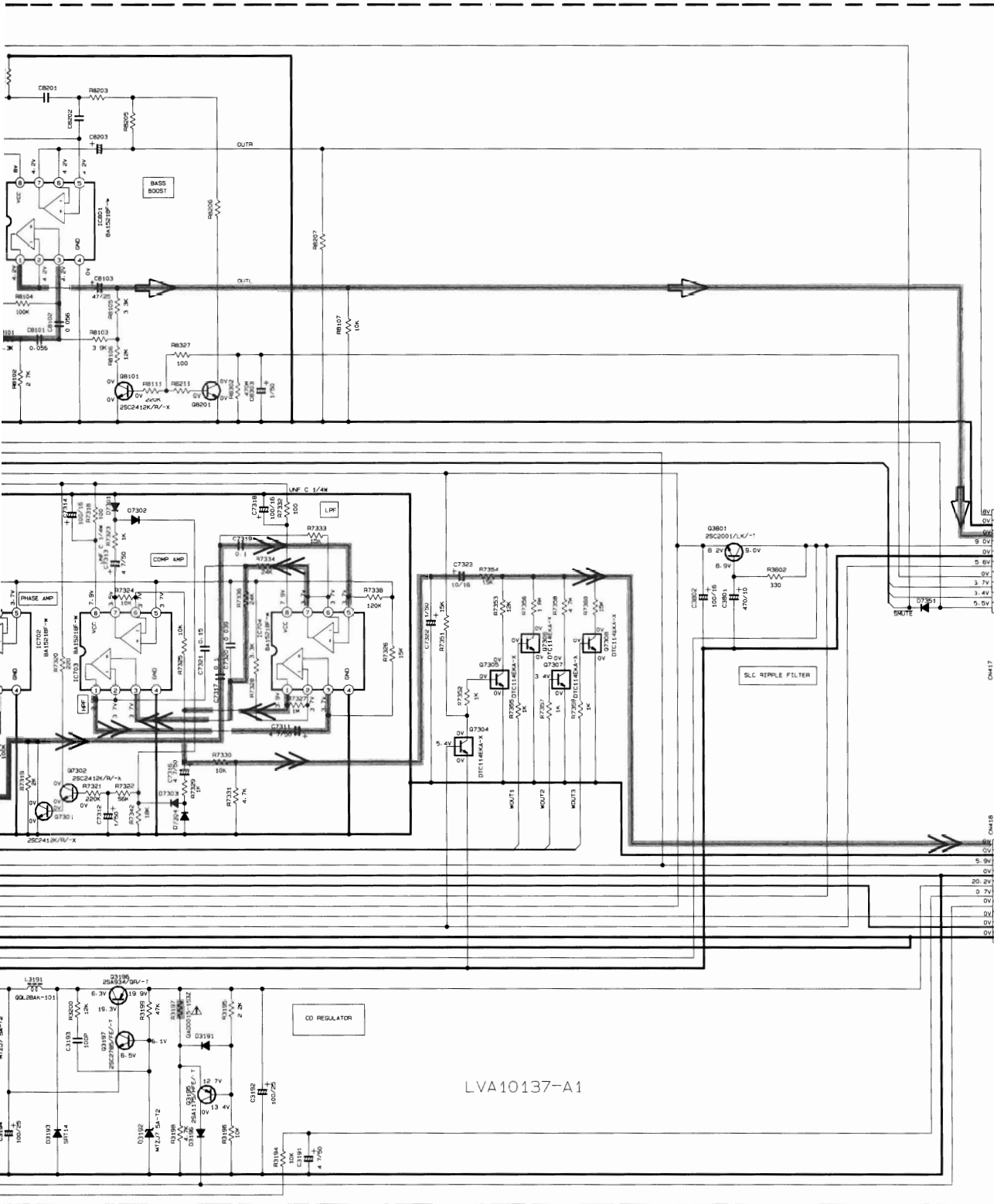
To G-1 on page 3-7
(B/E/EN)
TO G-1 on page 3-8
(EE)
TO G-1 on page 3-9
(U/US)

To E-1 on page 3-6
(LV510067-001A)
TO I.C. SECTION (CN41)



To D-1 on page 3-10

- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION (CD STOP MODE VOL(20) BASS VOL(4))
 2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% CHIP RESISTOR.
- ALL RESISTANCE VALUES ARE IN OHMS (Ω)
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN ±20% (±)
ALL INDUCTANCE VALUES ARE IN ±10% (±)
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (F) / RATED VOLTAGE (V)
ALL DIODES ARE 1SS254-12 1SS133-12



- MIC & Guitar signal
- Rhythm signal
- AUX signal
- Woofers signal
- TAPE.PB/main signal
- CD & main signal
- AM/RADIO main signal
- Recording signal

TABLE 1

PARTS NAME	DTC114EK	DTA144TK
CONSTRUCTION		

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

To C-4 on page 3-12

To C-4 on page 3-12

WITHOUT INPUT SIGNAL.
VOL/TABE 1(V)

■ Power amplifire circuit

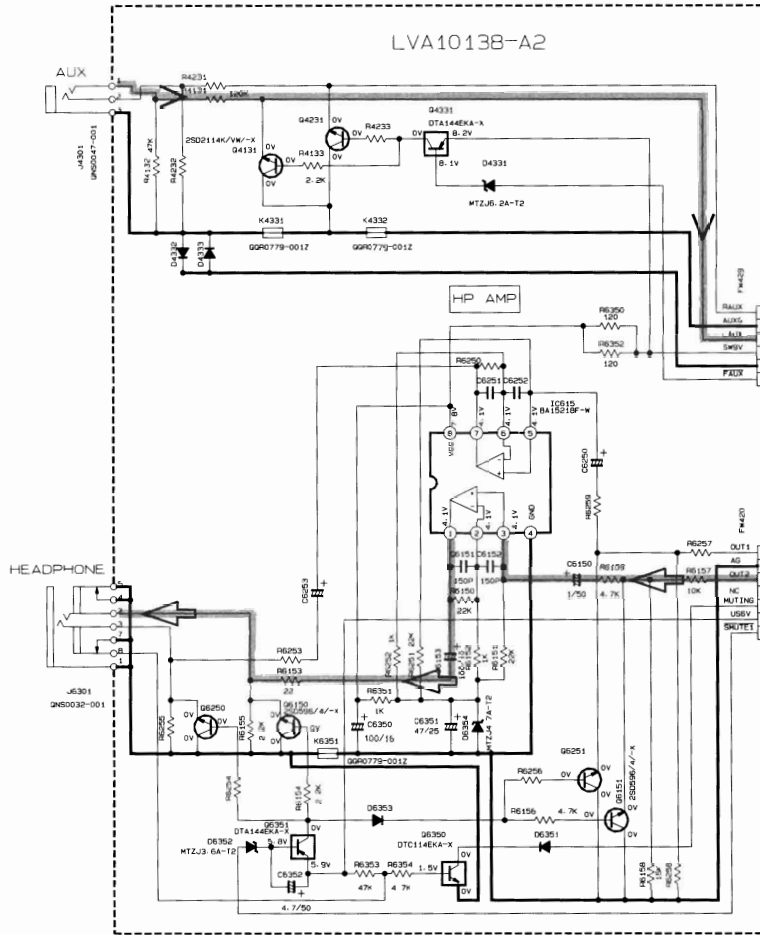
AUX/H.Pone circuit

Power amplifier circuit

5

4

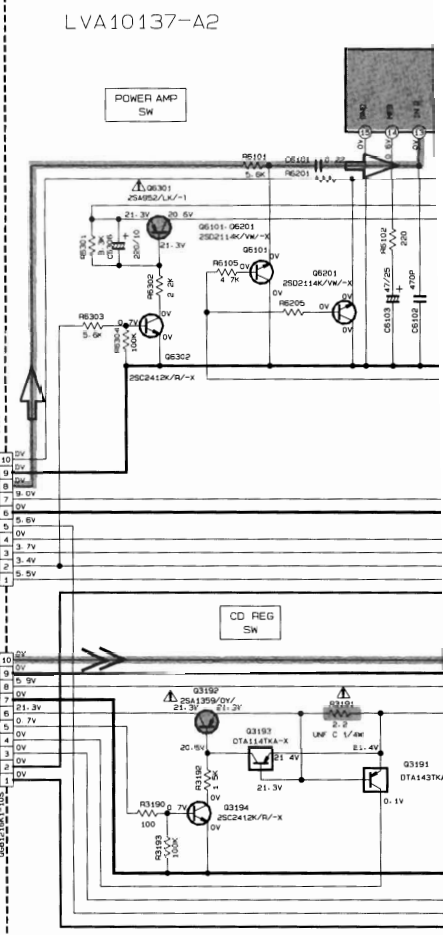
3



To C-5 on page 3-11

To C-5 on page 3-11

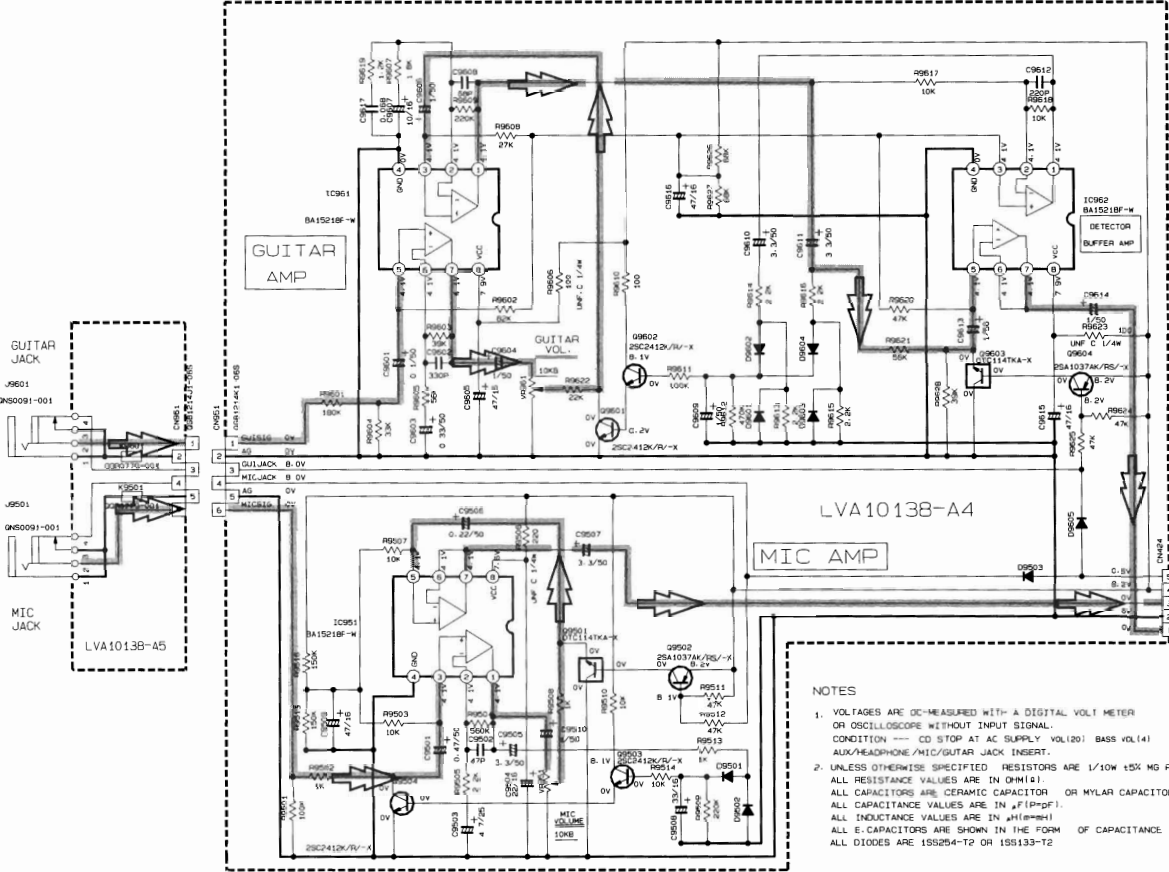
To C-5 on page 3-11



To G-3 on page 3-11

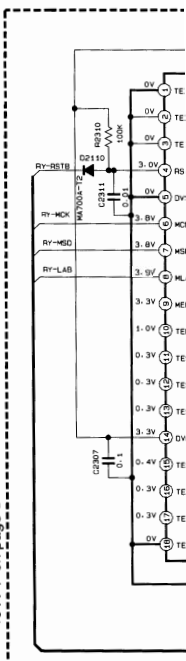
To G-2 on page 3-11

2



To A-4 on page 3-11

1

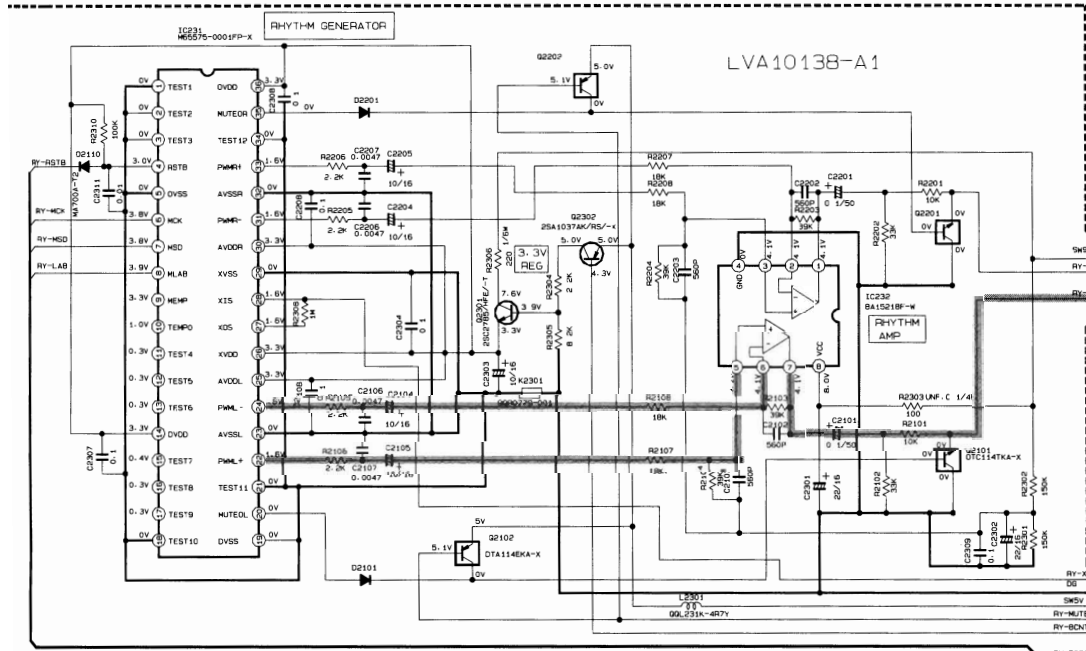
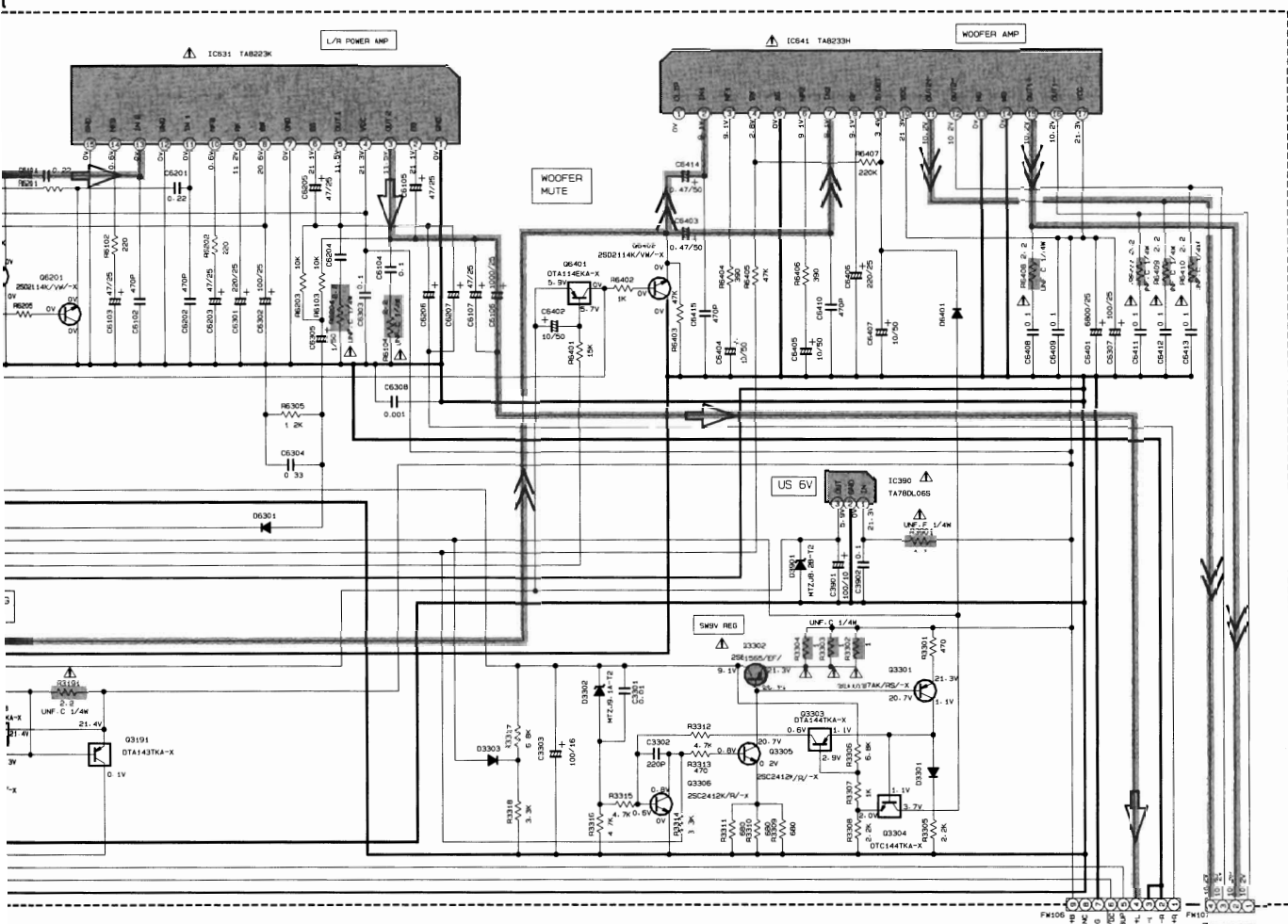


Rhythm

TABLE 1 DIGITAL FR

DT114E8A	10K	10K	10K
	10K	10K	10K
	10K	10K	10K

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP AT AC SUPPLY VOL(0) BASS VOL(4)
AUX/HEADPHONE/MIC/GUITAR JACK INSERT.
 - UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/10W ±5% MG RESISTOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(μF).
ALL INDUCTANCE VALUES ARE IN μH(μH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS254-T2 OR 1SS133-T2



To C-5 on page 3-13
(B/E/EN/EV/EE)
To C-3 on page 3-13
(U/US)

To G-1 on page 3-10

TO U-COM SECTION
(LVB1006B-001A)

To G-4 on page 3-10

Rhythm G. circuit

TABLE 1: DIGITAL TRANSISTOR

DTA1145SA	DTA1145EA	DTA1145DA	DTA1145TA	DTA11447SA

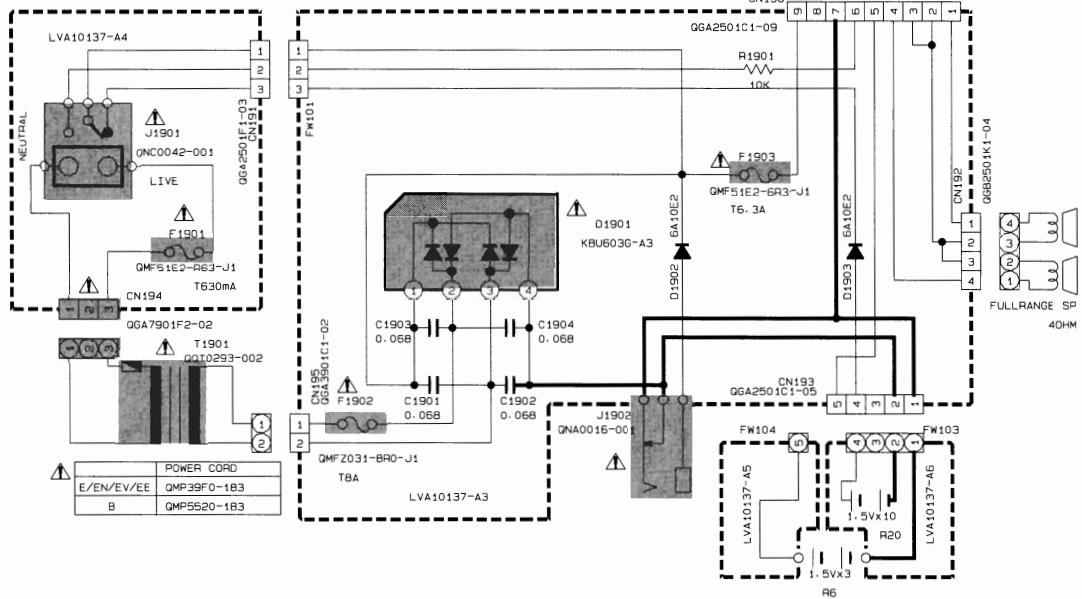
- MIC & GUITAR SIGNAL
- CD & MAIN SIGNAL
- AUX SIGNAL SIGNAL
- WOOFER SIGNAL

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

■ Power supply circuit

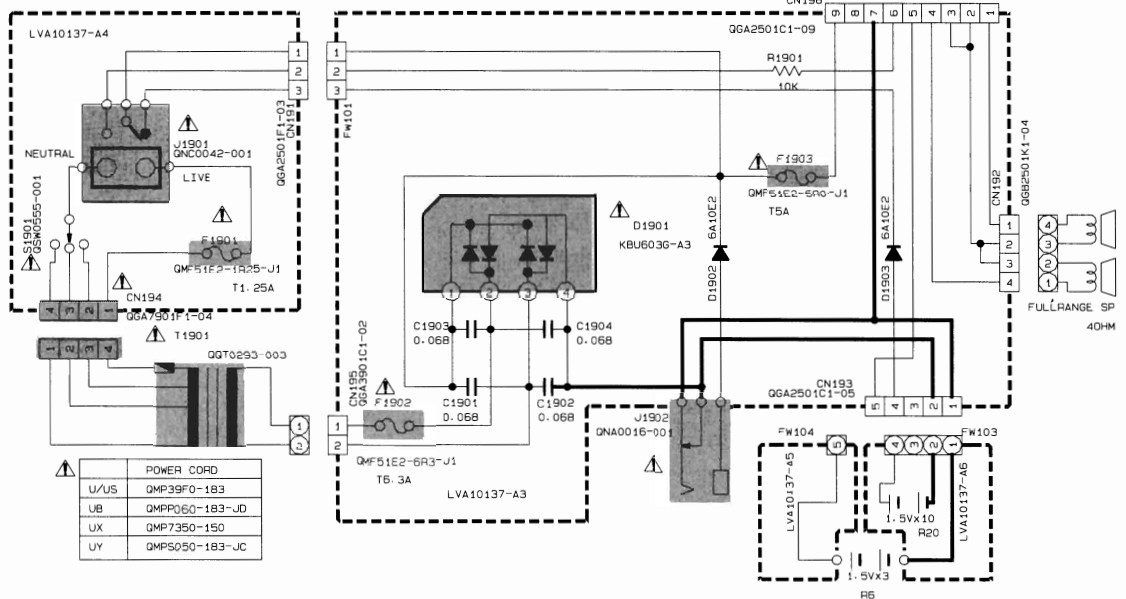
E/B/EN/EV/EE 230V/50Hz

To G-3 on page 3-12



U/US/UB/UX/UY 110V/127V/230V/50Hz

To G-3 on page 3-12

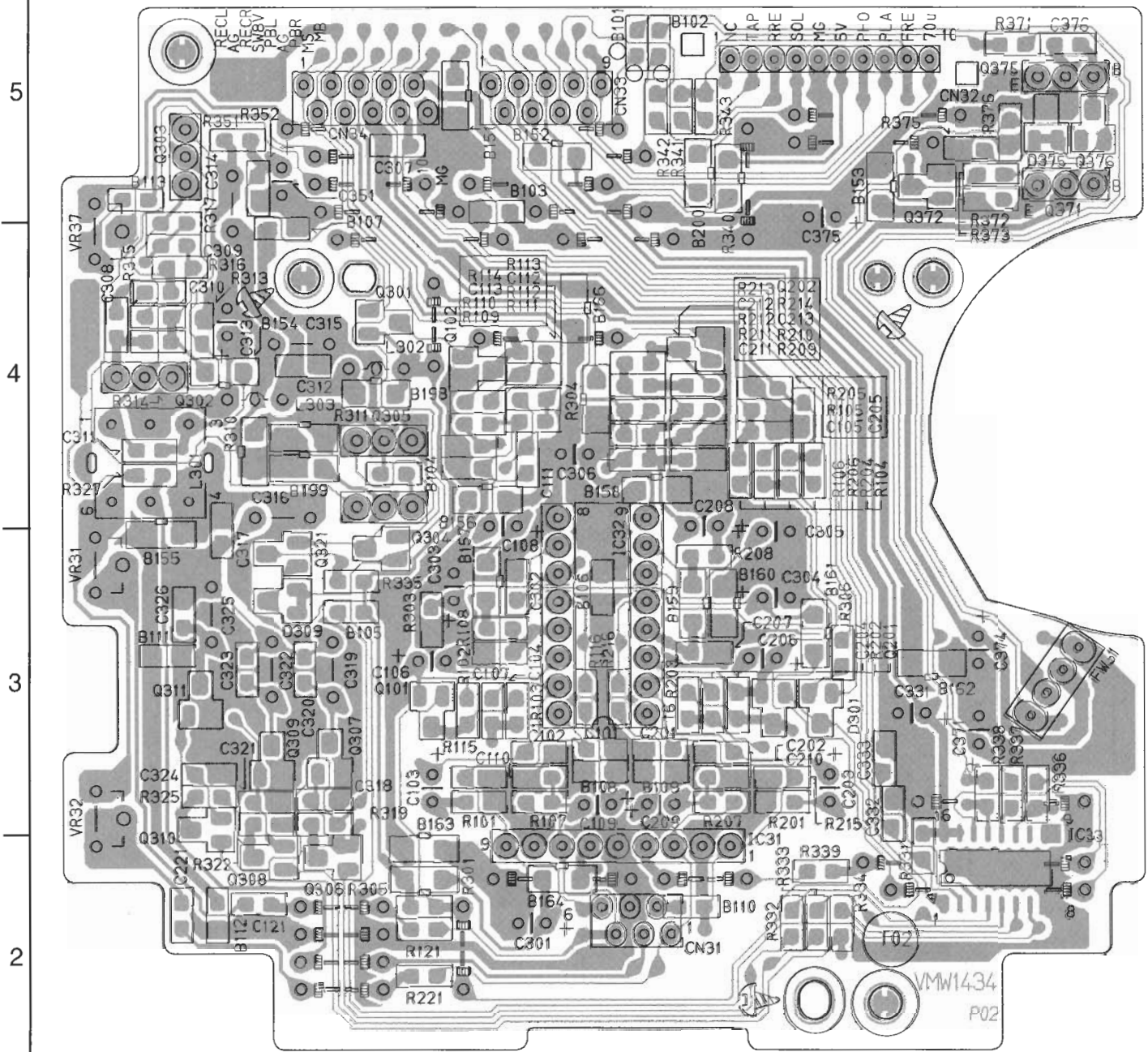


- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE
 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/4W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF(P=PF)

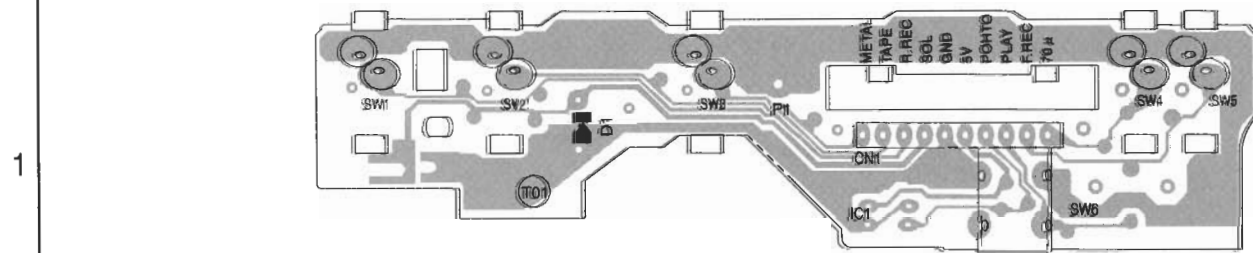
▲ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Printed circuit boards

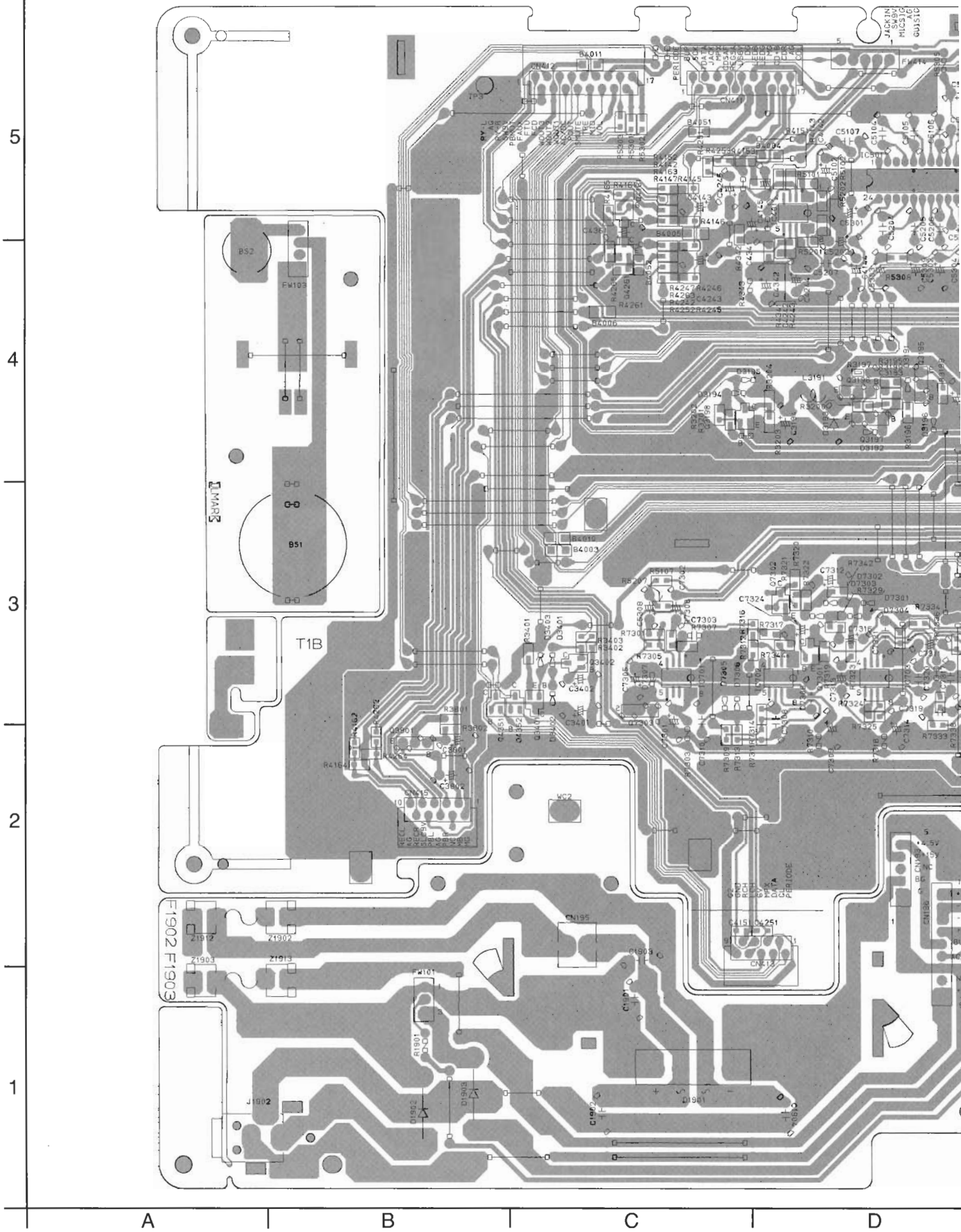
■ Head amplifier & mechanism board

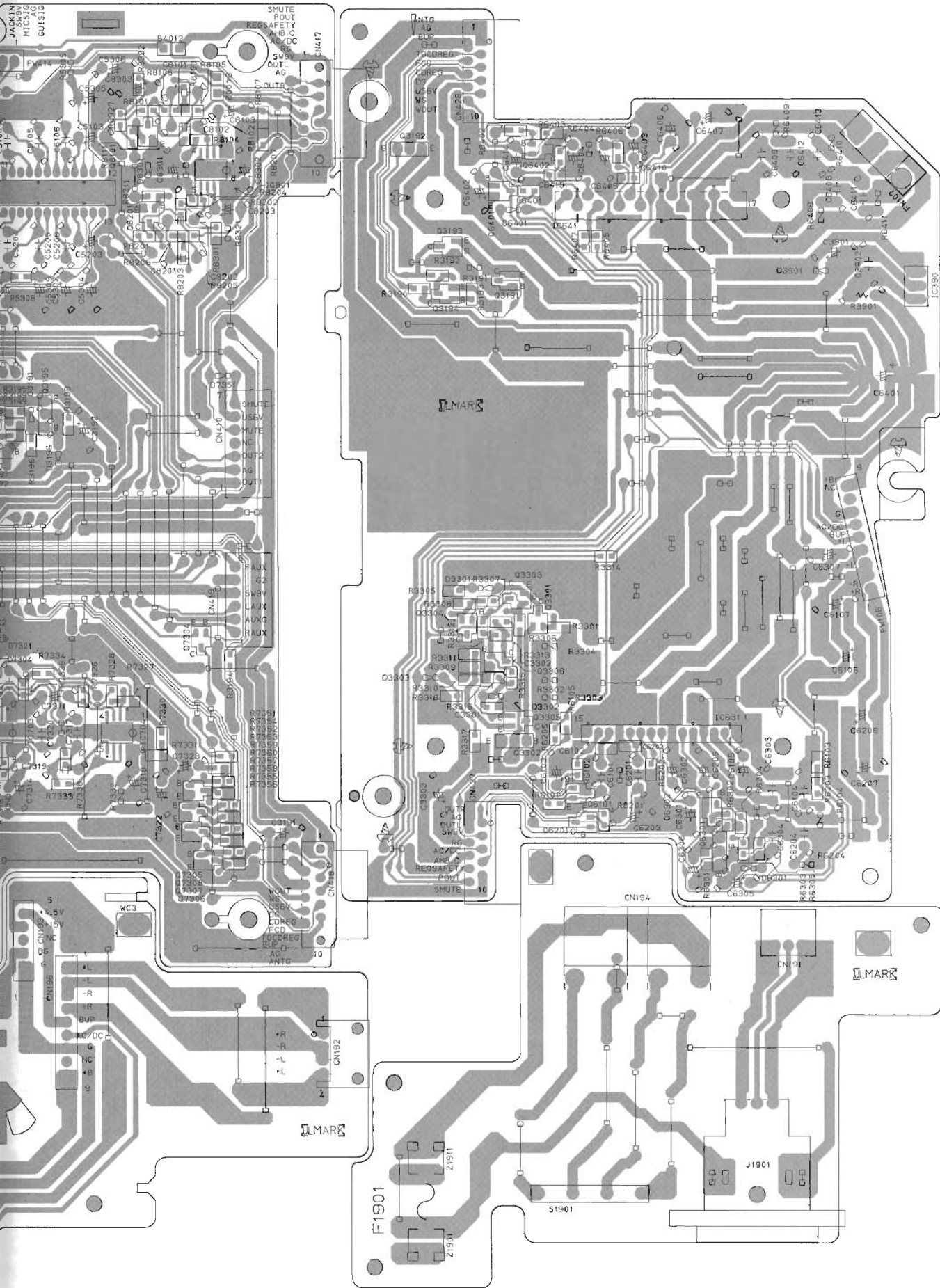


■ Cassette switch board



■ Main board

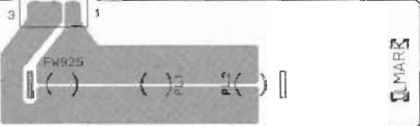
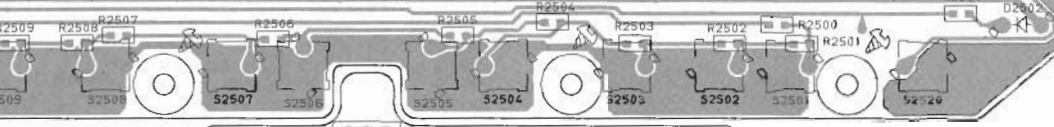
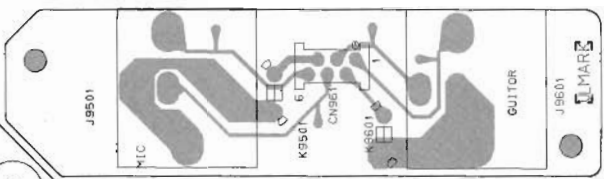
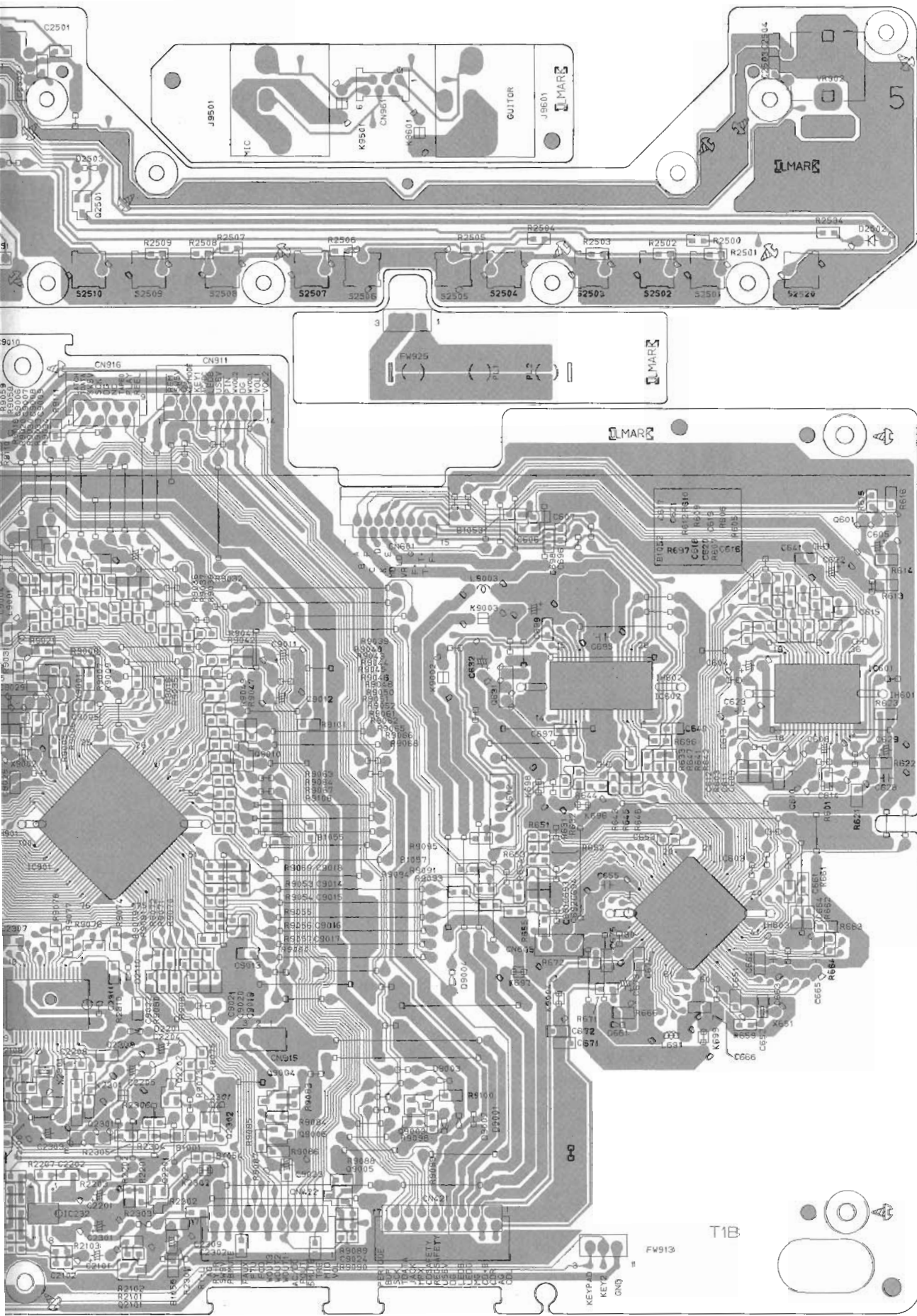




E

F

G



T1B



■ Tuner Board

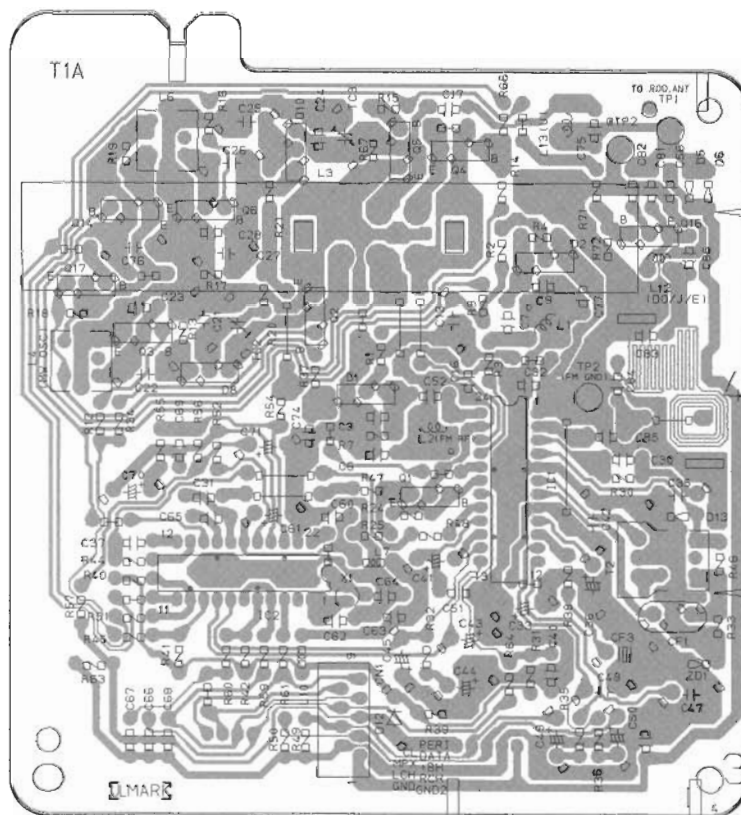
5

4

3

2

1



A

B

C

PARTS LIST

[RV-DP100BK]

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

Area suffix

B ----- U.K.
 E ----- Continental Europe
 EN ----- Northern Europe
 EV ----- Eastern Europe
 EE ----- Russian Federation
 US ----- Singapore
 U ----- Other Areas

- Contents -

Exploded view of general assembly and parts list	4-2
CD mechanism assembly and parts list	4-8
Cassette mechanism assembly and parts list	4-9
Electrical parts list	4-14
Packing materials and accessories parts list	4-28

Exploded view of general assembly and parts list

Block No. M 1 M M

Front cabinet

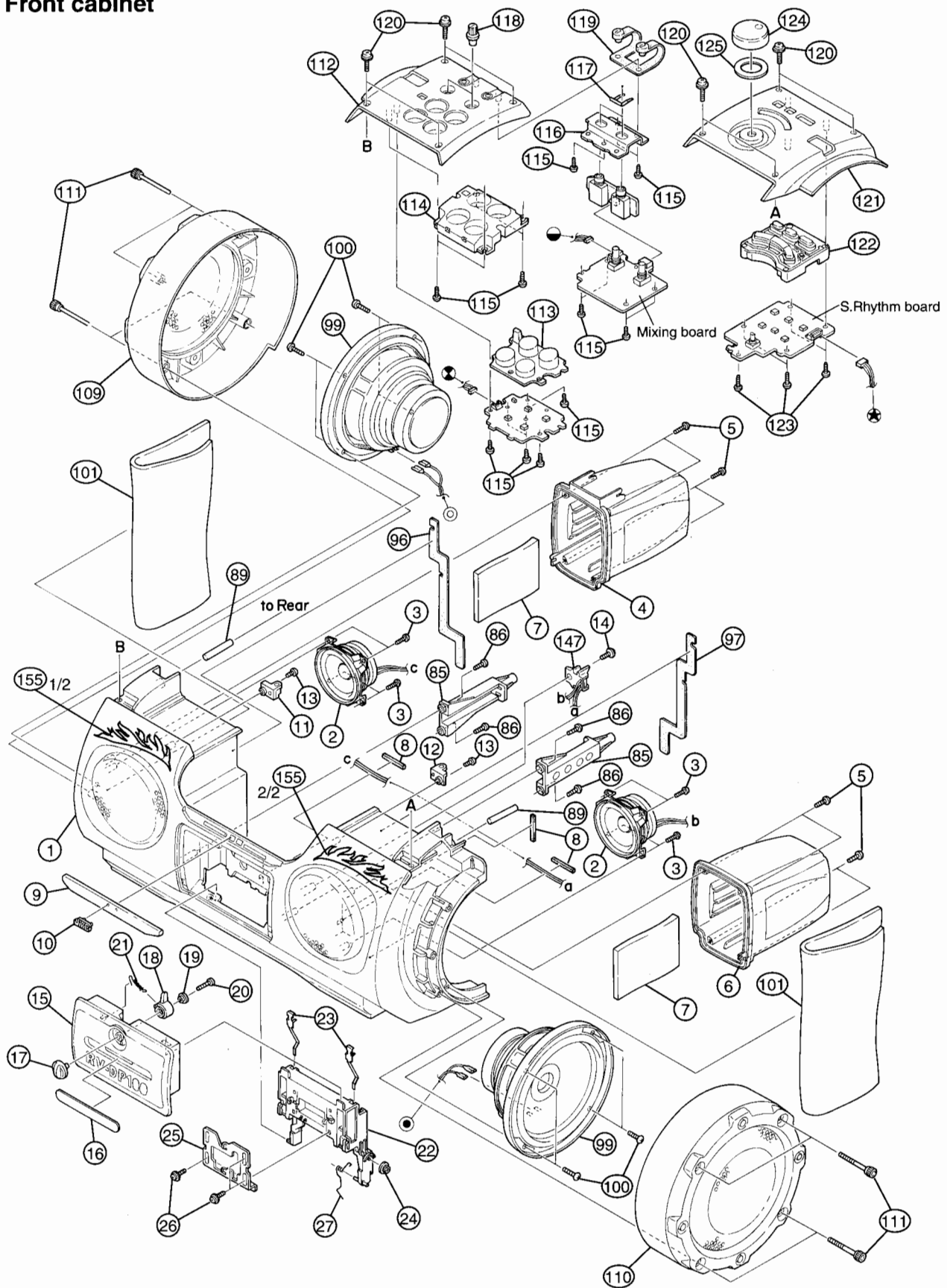
5

4

3

2

1



■ Parts list (General assenbly/Front cabinet)

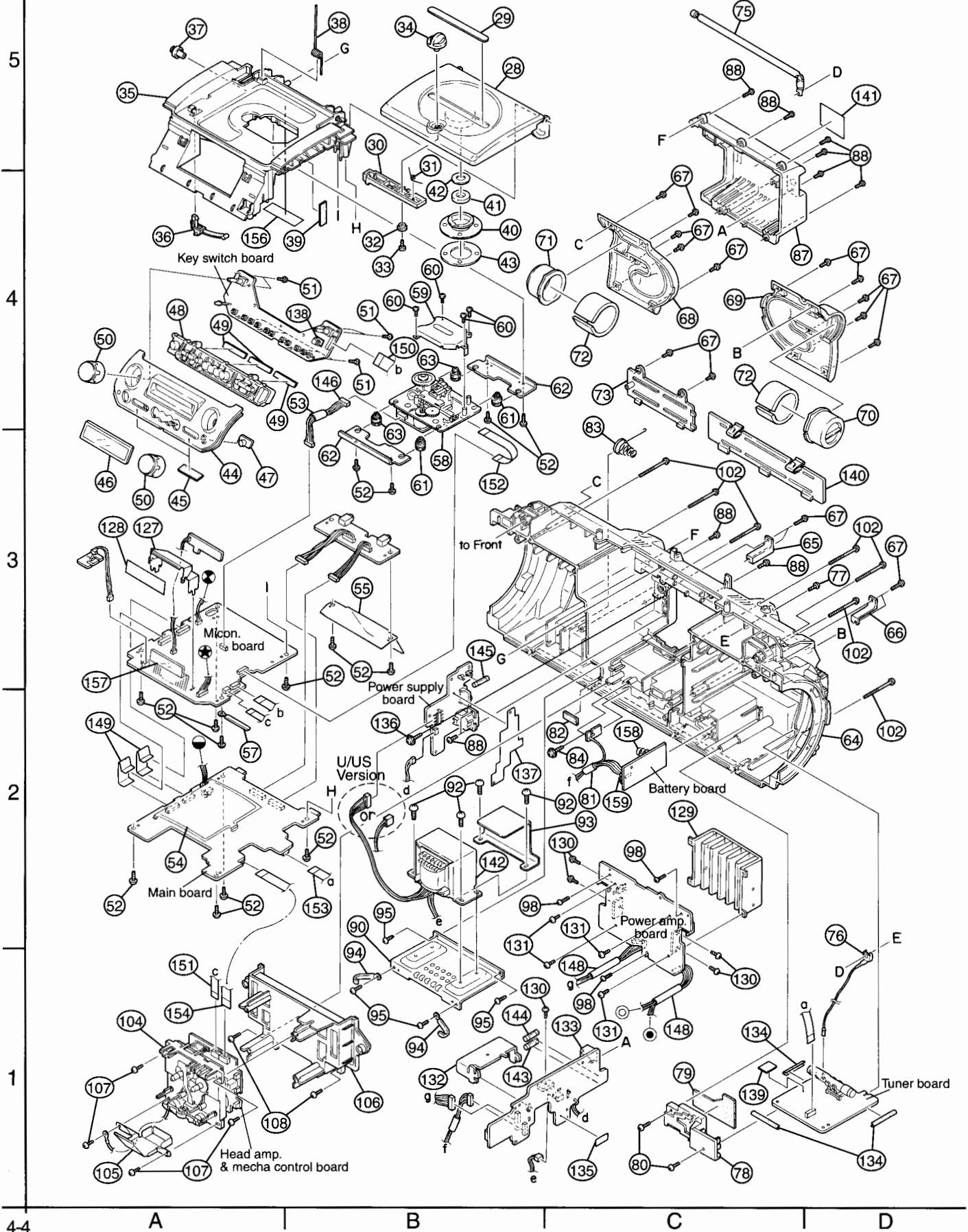
Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10351-002A	FRONT CABI ASSY	1		
	2	QAS0006-001	SPEAKER	2		
	3	QYSBSF3010Z	SCREW	8	FOR SP	
	4	VYH2280-002	CAP (L)	1		
	5	QYSBSF3010Z	SCREW	8	FOR CAP	
	6	VYH2281-002	CAP (R)	1		
	7	VKZ4389-009	SOUND ABSOBER	2		
	8	VYSH102-097	SPACER	3	FOR SP WIRE	
	9	LV31760-001A	IRUMINATIO LENS	1		
	10	PQ45130-7	JVC MARK	1		
	11	LV31775-001A	HOLDER	1	FRONT TOP	
	12	LV31775-002A	HOLDER(R)	1		
	13	QYSBSF2608Z	T.SCREW	2	HOLDER+FRONT	
	14	QYSBSFG3010Z	TAP SCREW	1	SP CONECTOR	
	15	LV20689-001A	DOOR COVER	1		
	16	LV41573-003A	DOOR LENS	1		
	17	LV40718-001A	EJECT KNOB	1		
	18	LV40719-001A	CAM(CASS)	1		
	19	LV40720-002A	COLLAR (CASS)	1		
	20	QYSDSF2614Z	SCREW	1	EJECT KNOB	
	21	LV40749-001A	TENSION SPRING	1		
	22	LV20298-001A	CASSETTE HOLDER	1		
	23	VKY4180-001	CASSETTE SPRING	2		
	24	VYH5601-001	GEAR	1		
	25	LV30844-001A	EJECT SAFTY	1		
	26	VKZ4794-002	SPECIAL SCREW	3	FOR SAFETY	
	27	LV41854-001A	DOOR SPRING	1		
	85	LV31766-001A	SUPPORT HOLDER	2		
	86	QYSBSF3010Z	SCREW	4	FOR S.HOLDER	
	89	VKH3012-073	SHAFT(E)	2		
	96	LV41599-001A	PACKING SHEET L	1	PEF	
	97	LV41600-002A	PACKING SHEET R	1	PEF	
	99	QAS0007-001	SPEAKER	2	WOOFOR	
	100	QYSBSF4012Z	SCREW	8	FOR WOOFOR	
	101	VKZ4805-001UL	SOUND ABSOBER	2		
	109	LV10352-002A	PROTECT ASSY(L)	1		
	110	LV10354-002A	SIDE PRTC ASY R	1		
	111	VKZ4795-011	SPECIAL SCREW	8	SIDE PRO.	
	112	LV10369-002A	TOP COVER(L)	1		
	113	LV31763-001A	PAD BUTTON	1		
	114	LV20717-001A	BUTTON HOLDER	1		
	115	QYSBSF2608Z	T.SCREW	16		
	116	LV31795-001A	JACK BRACKET	1		
	117	VKL6752-001	SNAP PLATE	2	FOR JACK	
	118	LV31792-001A	VOLUME KNOB	2		
	119	LV41590-001A	JACK CAP	1	FOR JACK	
	120	LV41871-001A	SCREW	8	TOP	
	121	LV10370-002A	TOP COVER(R)	1		
	122	LV20719-001A	CONTROL BUTTON	1		
	123	QYSBSF2608Z	T.SCREW	5	TOP+C.BUTTON	
	124	LV31767-001A	JOG DIAL	1		
	125	LV41770-002A	VOLUME SHEET	1		
	147	WJJ0034-012A	E-SI C WIRE C-C	1	SPEAKER	
	155	SPK-0029	F.STICKER	1	L&R	

Exploded view of general assembly and parts list

Block No. **M 2 M M**

Rear cabinet



■ Parts list (General assembly/Rear cabinet)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	28	LV10343-001A	CD DOOR	1		
	29	LV41573-002A	DOOR LENS	1		
	30	LV30846-001A	SLIDER (CD)	1		
	31	LV40725-001A	TORSION SPRING	1		
	32	LV40728-002A	COLLAR (CD)	1		
	33	QYSDSF2614Z	SCREW	1		
	34	LV40718-001A	EJECT KNOB	1		
	35	LV10344-002A	CD CASE	1		
	36	LV40726-001A	LOCK LEVER	1		
	37	VYH4769-002SS	GEAR	1		
	38	LV41744-002A	CD DOOR SPRING	1		
	39	LV30064-063A	SPACER	1		
	40	VYH3644-201	CLAMPER	1		
	41	VYH7313-003	MAGNET	1		
	42	VYH7314-001	YOKE	1		
	43	VYH7315-005	PAD	1		
	44	LV10371-002A	FRONT COVER	1		
	45	LV30064-073A	SPACER	2		
	46	LV31757-002A	LCD LENS	1		
	47	LV41575-002A	REMOCON LENS	1		
	48	LV20690-002A	FUNCTION BUTTON	1		
	49	VYSA1R4-106	SPACER	3		
	50	LV31759-001A	JOG KNOB	2		
	51	QYSBSF2608Z	T.SCREW	8	BUTTON+COVER	
	52	QYSBSF3008Z	SCREW	14		
	53	LV30064-076A	SPACER	1		
	54	LV31794-001A	SHIELD	1	FOR MAIN PWB	
	55	LV32032-002A	BARRIER	1		
	57	VKZ4001-111S	WIRE CLAMP	1		
	58	-----	CD MECHA	1		
	59	VJD5410-204	PICK COVER	1		
	60	QYSDSF2006M	SCREW	4	PICK COVER	
	61	VKZ4791-001	INSULATOR	2		
	62	LV40723-001A	CD MECHA HOLDER	2		
	63	FMYH4003-003	INSULATOR	2		
	64	LV10342-002A	REAR CABINET	1		B,E,EE,EN,EV
		LV10342-003A	REAR CABINET	1		U,US
	65	LV32053-001A	REAR SUPPORT(L)	1		
	66	LV32054-001A	REAR SUPPORT(R)	1		
	67	QYSBSF3010Z	SCREW	16		
	68	LV20692-001A	DUCT(L)	1		
	69	LV20693-001A	DUCT(R)	1		
	70	LV31762-002A	CAP(R)	1		
	71	LV31765-002A	CAP(L)	1		
	72	LV41791-001A	SOUND ABSORBER	2		
	73	VJE3036-001	BATT.LID	1		
	75	FMJA3001-00A(D)	ROD ANT ASS'Y	1		
	76	VYH5012-005	TERMINAL LUG	1		

Parts list (General assembly/Rear cabinet)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	77	QYSDSP3012N	SCREW	1	FOR ANT	
	78	LV31770-002A	TUNER HOLDER	1		
	79	LV41873-001A	SPACER	1		
	80	QYSBSF3010Z	SCREW	2	FOR TUNER HOLDE	
	81	VYSH101-027	SPACER	1	PEFU 10X10	
	82	LV30064-074A	SPACER	1		
	83	VYH5657-001	BATTERY SPRING	1		
	84	E65923-003	TAPPING SCREW	1	SUM3 PWB	
	87	LV10358-002A	REAR COVER	1		
	88	QYSBSF3010Z	SCREW	10		
	90	LV31769-001A	TRANS BRACKET	1		
	92	QYSBST4006Z	T.SCREW	4	TRANS	
	93	LV41788-001A	SHIELD(T)	1	TRANS	
	94	VKZ4001-111S	WIRE CLAMP	2		
	95	QYSBSF3010Z	SCREW	4	TRANS BKT+REAR	
	98	QYSBSF3010Z	SCREW	3	REAR+H.SINK PWB	
	102	QYSBSF3045Z	SCREW	10	FRONT+REAR	
	104	-----	CASSETTE MECHA	1		
	105	LV30845-001A	HEAD SHIELD	1		
	106	LV10345-002A	C.MECHA CHASSIS	1		
	107	QYSBSF3014M	SCREW	4	MECHA+CHASSIS	
	108	QYSBSF3010Z	SCREW	2	CHASSIS+REAR	
	127	LV31758-003A	LCD HOLDER	1	SPT E T0.4	
	128	LV41593-003A	SHEET	1	FOR LCD HOLDER	
	129	LV31772-002A	HEAT SINK	1		
	130	QYSBSF3012Z	SCREW	5		
	131	QYSBSF3008M	SCREW	4	H.SINK(A)+PWB	
	132	VMH4055-002	HEAT SINK	1	AL T2	
	133	LV31809-001A	DC HOLDER	1	DC JACK	
	134	LV30064-065A	SPACER	3		
	135	VYSA1R4-100	SPACER	1		
	136	E65923-003	TAPPING SCREW	1		U,US
	137	LV41824-001A	BARRIER	1		
	138	LV30064-062A	SPACER	1		
	139	LV41782-001A	SHIELD	1		
	140	VJC2603-002	BATTERY COVER	1		
	141	LV31796-002A	NAME PLATE	1		B,E,EN,EV
		LV31796-003A	NAME PLATE	1		EE
		LV31796-004A	NAME PLATE	1		U,US
△	142	QQT0293-003	POWER TRANSF	1	T1901	U,US
△		QQT0293-002	POWER TRANSF	1	T1901	B,E,EE,EN,EV
△	143	QMF51E2-6R3-J1	FUSE	1	F1902	U,US
△		QMF51A2-8R0J1	FUSE	1	F1902	B,E,EE,EN,EV
△	144	QMF51E2-5R0-J1	FUSE	1	F1903	U,US
△		QMF51E2-6R3-J1	FUSE	1	F1903	B,E,EE,EN,EV
△	145	QMF51E2-R63-J1	FUSE	1	F1901	B,E,EE,EN,EV
△		QMF51E2-1R25-J1	FUSE	1	F1901	U,US
	146	QJJ010-061501	SIN CR C-C WIRE	1	MICOM - CD MOTO	

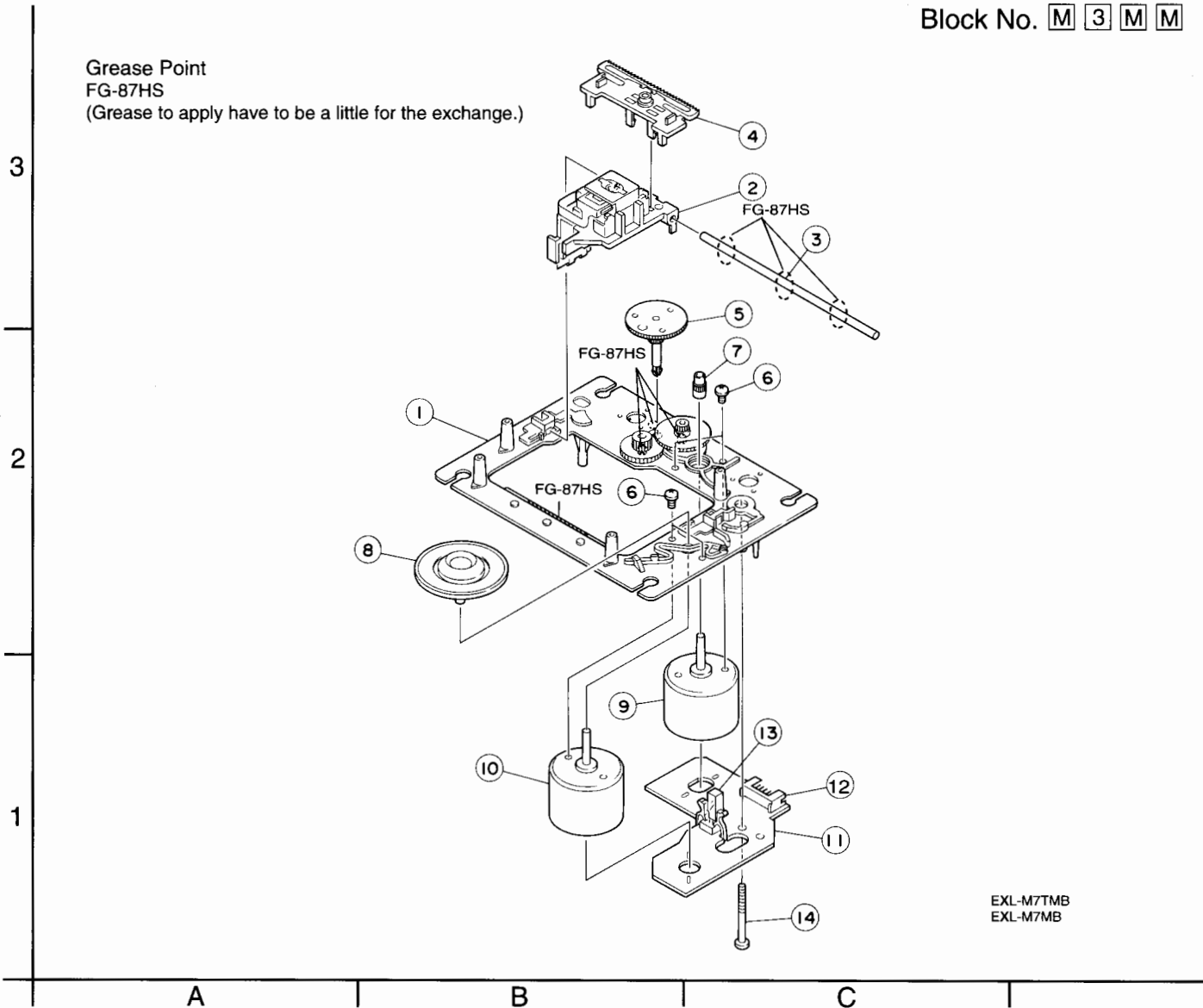
■ Parts list (General assembly/Rear cabinet)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	148	QWTBG0H-100	VINYL TUBE	2		
	149	QUQ412-1707CJ	FFC WIRE	2	MICOM - MAIN	
	150	QUQ412-1414DJ	FFC WIRE	1	MICOM - SW	
	151	QUQ412-0918DJ	FFC WIRE	1	MICOM - SLC	
	152	QUQ610-1508AJ	FFC WIRE	1	CD PICK	
	153	QUQ412-0920DJ	FFC WIRE	1	MAIN - TUNER	
	154	QUQ412-1014CJ	FFC WIRE	1	MAIN - SLC	
	156	LV40231-001A	CAUTION LABEL	1		
	157	QLD0121-001	LCD MODULE	1	DI901	
	158	VYH5483-001	BATTERY SPRING	1	BS1	
	159	VYH7199-001	BATTERY SPRING	1	BS2	

CD mechanism assembly and parts list

Block No. **M 3 M M**



Parts list (CD mechanism)

Block No. **M3MM**

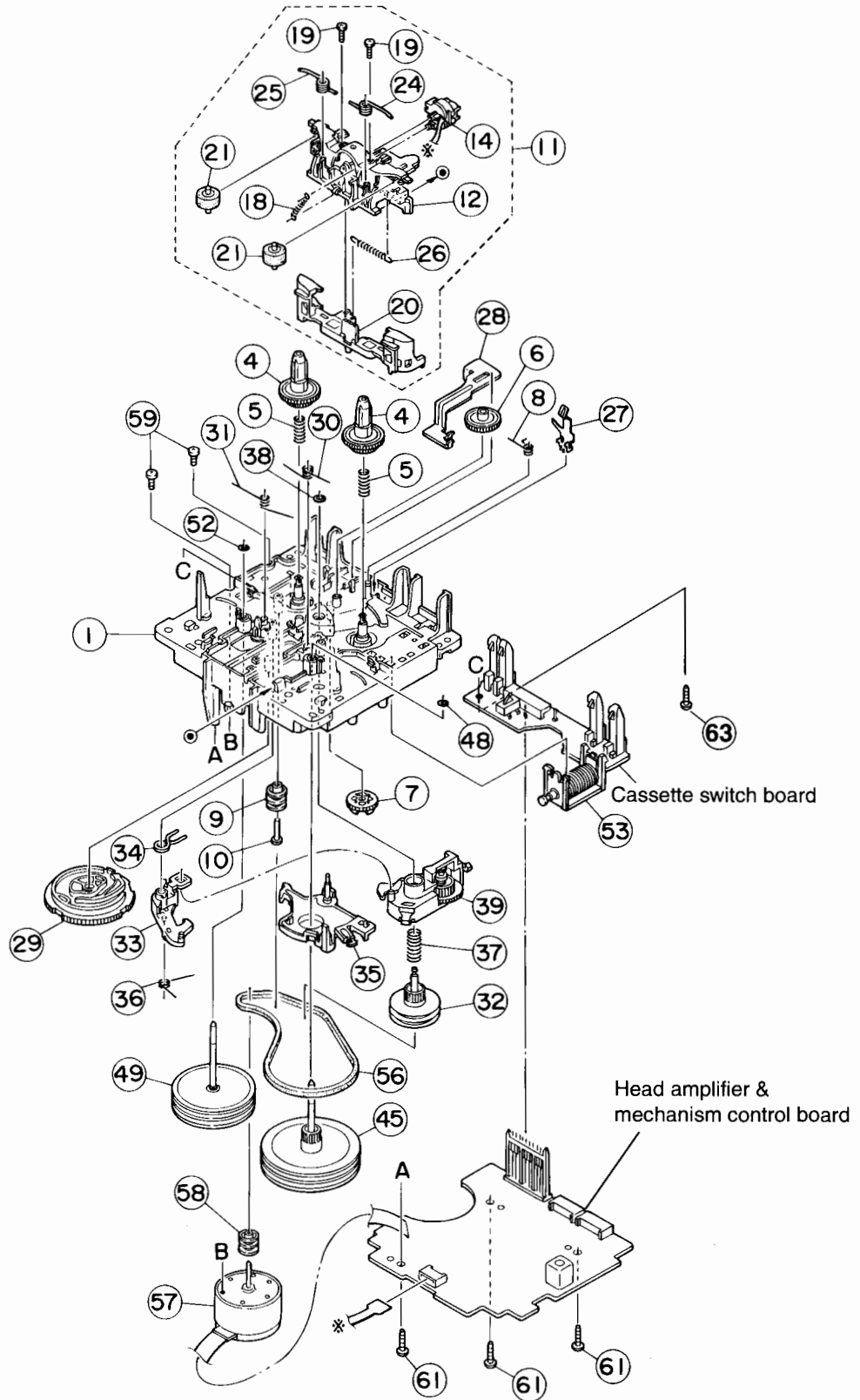
▲	Item	Parts number	Parts name	Q'ty	Description	Area
	1	E102731-221SM	MECHA BASE	1		
	2	OPTIMA-7B	OPTICAL PICK UP	1		
	3	E406777-002SM	CD SHAFT	1		
	4	LV31002-001A	CD RACK	1		
	5	E307745-441SM	MECHA GEAR	1		
	6	QYSDSP2003N	SCREW	4		
	7	E406750-442SM	PINION GEAR	1		
	8	EPB-001PK	TURN TABLE	1	SINGLE CD	
		EPB309173PKA	TURN TABLE	1	CHANGER CD	
	9	E406784-001	FEED MOTOR	1		
	10	QAR0130-001	SPPINDLE MOTOR	1		
	11	EMW10190-441	P.C.BOARD	1		
	12	QGA2001F1-06	6P PLUG ASSY	1		
	13	QSW0506-001	LEAF SWITCH	1		
	14	E75832-221SS	SPECIAL SCREW	1		

Cassette mechanism assembly and parts list

Block No. **M** **4** **M** **M**

SLC-S1YPM

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4
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2
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A

B

C

■ Parts list (Cassette mechanism)

Block No. M4MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	VKS1165-00G	CHASSIS B.ASS'Y	1		
	4	VKS2274-002	REEL GEAR	2		
	5	VKW5286-002	B.T. SPRING	2		
	6	VKS5559-001	PLAY IDLE GEAR	1		
	7	VKS5597-00A	BUND ASS'Y	1		
	8	VKW5296-001	EARTH SPRING	1		
	9	VKR4749-003	IDLE PULLEY	1		
	10	VKH5786-003	SHAFT	1		
	11	VKS2275-00E	HEAD MOUNT ASSY	1		
	12	VKS1167-003	HEAD MOUNT BASE	1		
	14	LV41089-001A	R/P&E HEAD	1	VKS2275-00B	
	18	VKW5302-001	HEAD SPRING	1		
	19	VKZ4730-001	SPECIAL SCREW	2		
	20	VKS2277-005	DIRECTION LEVER	1		
	21	VKP4233-00A	PINCH ROL. ASSY	2		
	24	VKW5299-002	PIN ROL.SP.(R)	1		
	25	VKW5300-002	PIN ROL.SP.(L)	1		
	26	VKW5285-001	RETURN SPRING	1		
	27	VKY3149-002	CASSETTE SP.	1		
	28	VKM3906-002	PLAY SW LEVER	1		
	29	VKS1166-003	CONTROL CAM	1		
	30	VKW5279-001	HEAD BASE SP(R)	1		
	31	VKW5280-001	HEAD BASE SP(L)	1		
	32	VKS5603-00D	MAIN PULLEY ASY	1		
	33	VKS3785-001MM	FR ARM	1		
	34	VKW5284-002	SWING SPRING	1		
	35	VKS2278-003	TRIGGER ARM	1		
	36	VKW5301-001	FR SPRING	1		
	37	VKW5266-001	ELEVATOR SPRING	1		
	38	WDL214025	WASHER	1		
	39	VKS3786-00G	CLUTCH ASS'Y	1		
	45	VKF3205-00B	F.WHEEL ASSY(R)	1		
	48	WDL183425	SLIT WASHER	1		
	49	VKF3207-00B	F.WHEEL ASSY(L)	1		
	52	WDL173525-6	SLIT WASHER	1		
	53	VKZ3174-00A	DC SOLENOID	1		
	56	VKB3000-181	CAPSTAN BELT	1		
	57	MSI-5U2LWA	D.C.MOTOR ASS'Y	1		
	58	VKR4761-001	MOTOR PULLEY	1		
	59	QYSPSP2604Z	SCREW	2		
	61	QYSBSF2608Z	T.SCREW	3	FOR P.W.B.	
	63	QYSBSF2006Z	SCREW	1		

Grease point 1/3

- Grease
- * EM-30L
 - UD-24
 - ◆ LEN-320M

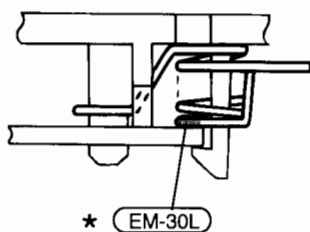


Fig.1

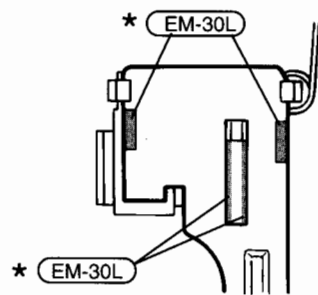


Fig.2

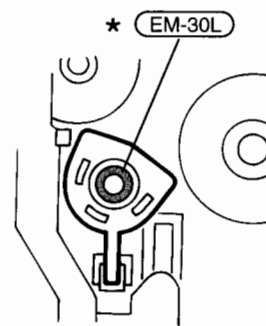
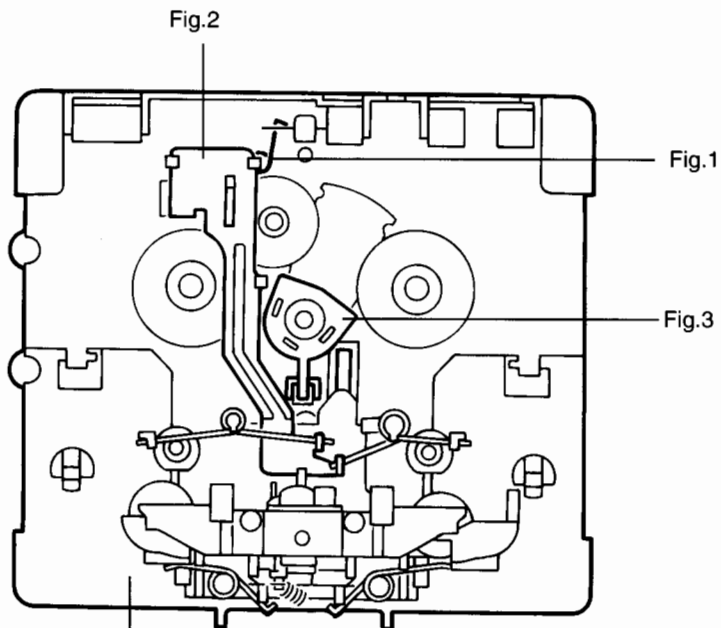


Fig.3

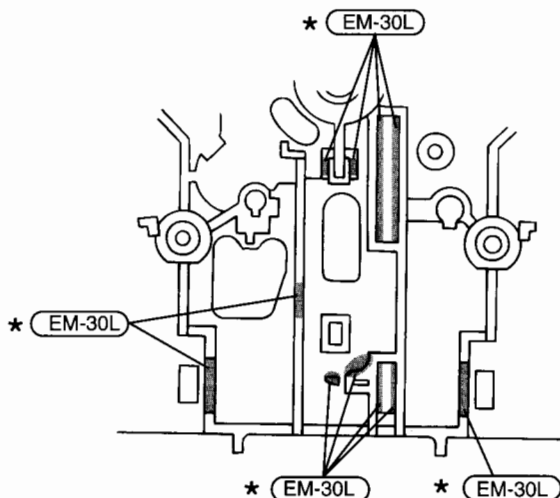


Fig.4

(Remove the Head mount Ass'y on the Chasis Base)

Grease point 2/3

5
4
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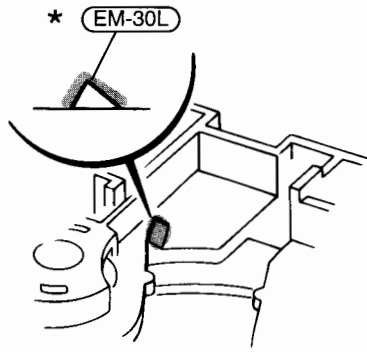


Fig.5

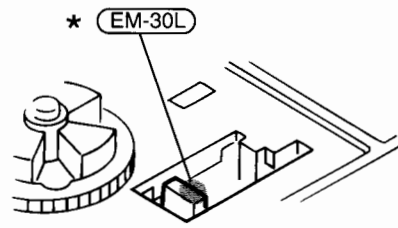


Fig.1

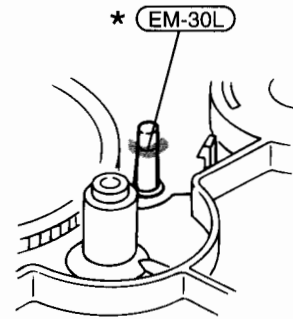
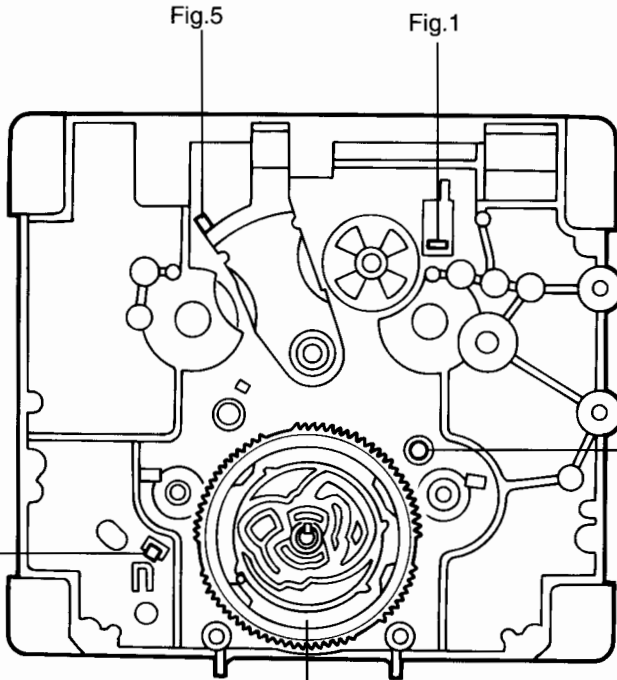


Fig.2

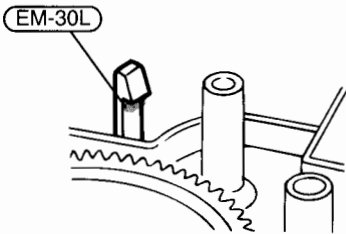


Fig.4

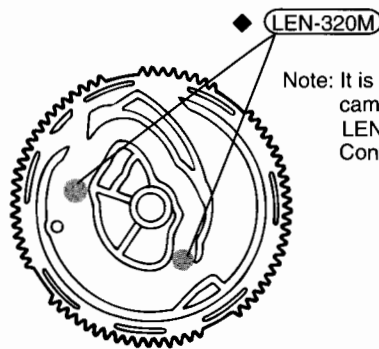


Fig.3

Note: It is a putting up of the control cam to UD-24H(Hanarl) and LEN-320M(Grease)dipping on the Control cam

Grease point 3/3

5
4
3
2
1

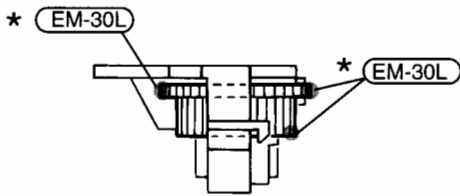


Fig.1

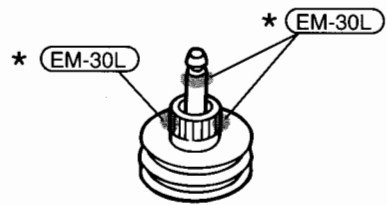


Fig.2

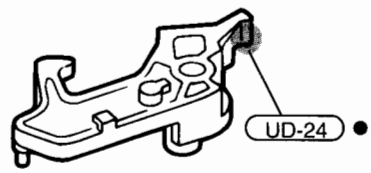
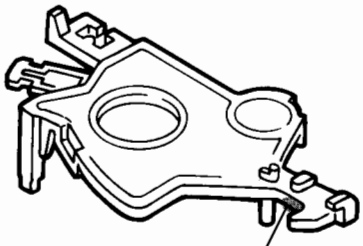
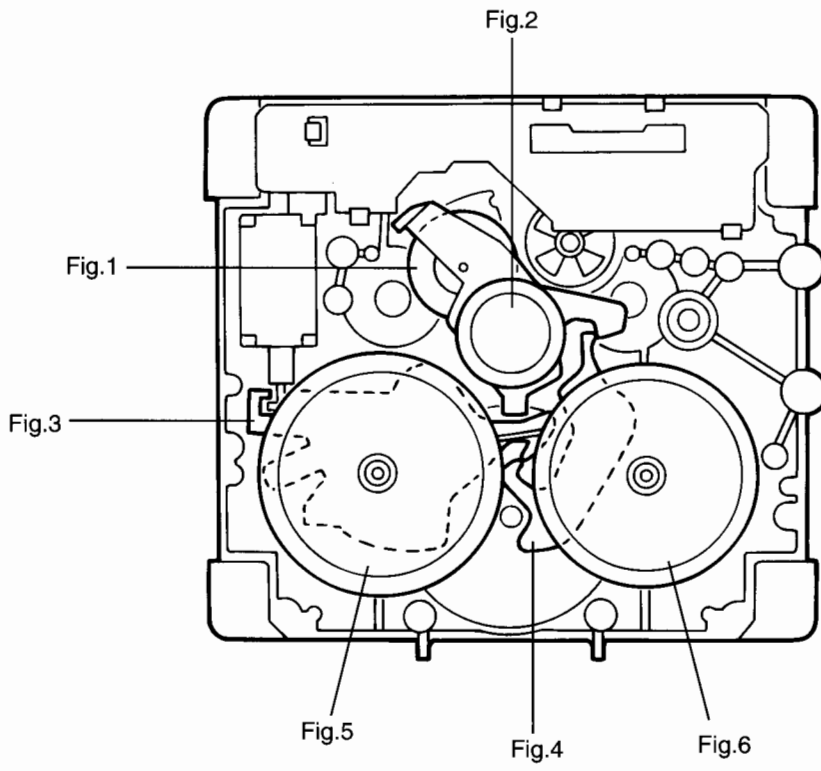


Fig.4

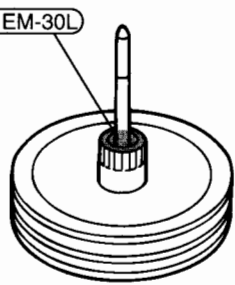


Fig.5

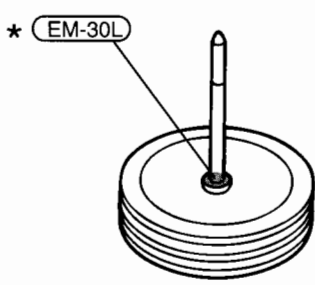


Fig.6

A B C

Electrical parts list

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	CN191	QGA2501F1-03	CONNECTOR				C5306	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	CN192	QGB2501K1-04	CONNECTOR				C5308	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	CN193	QGA2501C1-05	5P CONNECTOR				C5309	QER61HM-474Z	E CAPACITOR	.47MF 20% 50V	
△	CN194	VMZ0076-002A	CONNECTOR		B,E,EE,EN,EV U,US		C6101	QFVF1HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
△	CN194	QGA7901F1-04	CONNECTOR				C6102	NCS21HJ-471X	C CAPACITOR		
	CN195	QGA3901C1-02	CONNECTOR				C6103	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	CN196	QGA2501C1-09	9P CONNECTOR				C6104	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	CN410	VMC0041-007	CONNECTOR				C6105	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	CN411	QGF1205F1-17	CONNECTOR				C6106	QETM1EM-108	E CAPACITOR	1000MF 20% 25V	
	CN412	QGF1205F1-17	CONNECTOR				C6107	QTE1E06-476Z	E CAPACITOR		
	CN413	QGF1205F1-09	CONNECTOR				C6201	QFVF1HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
	CN415	QGF1205F1-10	CONNECTOR				C6202	NCS21HJ-471X	C CAPACITOR		
	CN417	QGB1216J1-10S	CONNECTOR				C6203	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	CN418	QGB1216J1-10S	CONNECTOR				C6204	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	CN419	VMC0041-006	CONNECTOR				C6205	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	CN427	QGB1216K1-10S	CONNECTOR	MAIN			C6206	QETM1EM-108	E CAPACITOR	1000MF 20% 25V	
	CN428	QGB1216K1-10S	CONNECTOR	MAIN			C6207	QTE1E06-476Z	E CAPACITOR		
	C1901	QFLM1HJ-683Z	M CAPACITOR	.068MF 5% 50V			C6301	QETN1EM-227Z	E CAPACITOR	220MF 20% 25V	
	C1902	QFLM1HJ-683Z	M CAPACITOR	.068MF 5% 50V			C6302	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1903	QFLM1HJ-683Z	M CAPACITOR	.068MF 5% 50V			C6303	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C1904	QFLM1HJ-683Z	M CAPACITOR	.068MF 5% 50V			C6304	QFVF1HJ-334Z	TF CAPACITOR	.33MF 5% 50V	
	C3191	QEK41HM-475Z	E CAPACITOR	4.7MF 20% 50V			C6305	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3192	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V			C6306	QETN1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C3193	NCS21HJ-101X	C CAPACITOR				C6307	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C3194	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V			C6308	QDGB1HK-102Y	C CAPACITOR		
	C3301	NCB21HK-103X	C CAPACITOR				C6401	QETM1EM-688	E CAPACITOR	6800MF 20% 25V	
	C3302	NCS21HJ-221X	C CAPACITOR				C6402	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C3303	QER61CM-107Z	E CAPACITOR	100MF 20% 16V			C6403	QETN1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C3401	QEK41AM-107Z	E CAPACITOR	100MF 20% 10V			C6404	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C3402	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V			C6405	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C3801	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V			C6406	QETN1EM-227Z	E CAPACITOR	220MF 20% 25V	
	C3802	QEK41CM-107Z	E CAPACITOR	100MF 20% 16V			C6407	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C3901	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V			C6408	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C3902	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V			C6409	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C4142	NCS21HJ-150X	C CAPACITOR				C6410	NCS21HJ-471X	C CAPACITOR		
	C4143	QEK41HM-474	E CAPACITOR	.47MF 20% 50V			C6411	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C4144	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V			C6412	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C4145	QTE1V06-106Z	E CAPACITOR				C6413	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C4151	NCS21HJ-681X	C CAPACITOR				C6414	QETN1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C4242	NCS21HJ-150X	C CAPACITOR				C6415	NCS21HJ-471X	C CAPACITOR		
	C4243	QEK41HM-474	E CAPACITOR	.47MF 20% 50V			C7301	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C4244	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V			C7302	QETN1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C4245	QTE1V06-106Z	E CAPACITOR				C7303	QCSB1HK-3R3Y	C CAPACITOR	3.3PF 10% 50V	
	C4251	NCS21HJ-681X	C CAPACITOR				C7305	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C4341	QEK41CM-476	E CAPACITOR	47MF 20% 16V			C7306	QFVF1HJ-274Z	TF CAPACITOR	.27MF 5% 50V	
	C4342	QEK41CM-107Z	E CAPACITOR	100MF 20% 16V			C7308	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C4361	QEK41CM-226Z	E CAPACITOR	22MF 20% 16V			C7309	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C5102	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V			C7310	QFLM1HJ-153Z	M CAPACITOR	.015MF 5% 50V	
	C5103	QEK41CM-106	E CAPACITOR	10MF 20% 16V			C7311	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C5104	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V			C7312	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C5105	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V			C7313	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C5106	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V			C7314	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C5107	QFLM1HJ-182Z	M CAPACITOR	1800PF 5% 50V			C7316	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C5202	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V			C7317	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C5203	QEK41CM-106	E CAPACITOR	10MF 20% 16V			C7318	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C5204	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V			C7319	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C5205	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V			C7320	QFLM1HJ-393Z	M CAPACITOR	.039MF 5% 50V	
	C5206	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V			C7321	QFVF1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C5207	QFLM1HJ-182Z	M CAPACITOR	1800PF 5% 50V			C7322	QEK41HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C5301	QEK41CM-106	E CAPACITOR	10MF 20% 16V			C7323	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C5302	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			C7324	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C5303	QEK41HM-225Z	E CAPACITOR	2.2MF 20% 50V			C8101	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
	C5304	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			C8102	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
	C5305	QEK41CM-107Z	E CAPACITOR	100MF 20% 16V			C8103	QTE1E06-476Z	E CAPACITOR		

■ Electrical parts list (Main board)

Block No. 01

Item	Parts number	Parts name	Remarks	Area	Item	Parts number	Parts name	Remarks	Area
C8201	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V		Q3306	2SC2412K/R/-X	TRANSISTOR		
C8202	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V		Q3401	2SA1037AK/RS/-X	TRANSISTOR	TUNER SW	
C8203	QTE1E06-476Z	E CAPACITOR			Q3402	2SC2412K/R/-X	TRANSISTOR		
C8301	QEK41CM-476	E CAPACITOR	47MF 20% 16V		Q3801	2SC2001/LK/-T	TRANSISTOR		
C8302	QEK41CM-476	E CAPACITOR	47MF 20% 16V		Q4161	2SD2114K/VW/-X	TRANSISTOR		
C8303	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V		Q4261	2SD2114K/VW/-X	TRANSISTOR		
△ D1901	KBU603G-A3	DIODE			Q4351	DTC144TKA-X	TRANSISTOR		
D1902	6A10E2	SI DIODE			Q4352	DTC144TKA-X	TRANSISTOR		
D1903	6A10E2	SI DIODE			Q6101	2SD2114K/VW/-X	TRANSISTOR	MUTE	
D3191	1SS133-T2	SI DIODE			Q6201	2SD2114K/VW/-X	TRANSISTOR	MUTE	
D3192	MTZJ7.5A-T2	Z.DIODE			△ Q6301	2SA952/LK/-T	TRANSISTOR	POUT	
D3193	SRT14	DIODE			Q6302	2SC2412K/R/-X	TRANSISTOR	POUT	
D3194	MTZJ7.5A-T2	Z.DIODE			Q6401	DTA114EKA-X	D.TRANSISTOR		
D3195	1SS133-T2	SI DIODE			Q6402	2SD2114K/VW/-X	TRANSISTOR		
D3196	1SS133-T2	SI DIODE			Q7301	2SC2412K/R/-X	TRANSISTOR		
D3301	1SS133-T2	SI DIODE			Q7302	2SC2412K/R/-X	TRANSISTOR		
D3302	MTZJ9.1A-T2	ZENER DIODE			Q7303	2SK105/EF/-T	TRANSISTOR(FET)		
D3303	1SS133-T2	SI DIODE			Q7304	DTC114EKA-X	TRANSISTOR		
D3401	1SS133-T2	SI DIODE			Q7305	DTC114EKA-X	TRANSISTOR		
D3402	1SS133-T2	SI DIODE			Q7306	DTC114EKA-X	TRANSISTOR		
D3403	MTZJ3.9B-T2	Z DIODE			Q7307	DTC114EKA-X	TRANSISTOR		
D3901	MTZJ8.2B-T2	DIODE			Q7308	DTC114EKA-X	TRANSISTOR		
D6301	1SS133-T2	SI DIODE			Q8101	2SC2412K/R/-X	TRANSISTOR		
D6401	1SS133-T2	SI DIODE			Q8201	2SC2412K/R/-X	TRANSISTOR		
D7301	1SS133-T2	SI DIODE			R1901	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
D7302	1SS133-T2	SI DIODE			R3190	NRSA02J-101X	MG RESISTOR		
D7303	1SS133-T2	SI DIODE			△ R3191	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
D7304	1SS133-T2	SI DIODE			R3192	NRSA02J-152X	MG RESISTOR		
D7305	1SS133-T2	SI DIODE			R3193	NRSA02J-104X	MG RESISTOR		
D7306	1SS133-T2	SI DIODE			R3194	NRSA02J-103X	MG RESISTOR		
D7307	MTZJ4.3B-T2	ZENER DIODE			R3195	NRSA02J-222X	MG RESISTOR		
D7351	1SS133-T2	SI DIODE			R3196	NRSA02J-103X	MG RESISTOR		
D8301	MTZJ4.3B-T2	ZENER DIODE			△ R3197	QAD0015-153Z	THERMISTOR		
FW101	QJK019-033803	SIN CR C-B WIRE	PRIMARY - SECON		R3198	NRSA02J-472X	MG RESISTOR		
FW103	WJK0003-002A	E-SI C WIRE C-B	BATT - SECONDAR		R3199	NRSA02J-473X	MG RESISTOR		
FW106	WJK0098-001A	E-SI C WIRE C-B	POWER - SECONDA		R3200	NRSA02J-123X	MG RESISTOR		
FW107	WJK0004-002A	E-SI C WIRE C-B	POWER - WOOFER		R3201	NRSA02J-152X	MG RESISTOR		
FW414	QJK025-052600	SIN CR C-B WIRE	MAIN - MIC/GUIT		R3202	NRSA02J-152X	MG RESISTOR		
△ IC390	TA78DL06S	IC			R3203	NRSA02J-822X	MG RESISTOR		
IC401	BA15218F-XE	IC	ADDER		R3204	NRSA02J-472X	MG RESISTOR		
IC501	BH3852S	IC			R3301	NRSA02J-471X	MG RESISTOR		
△ IC631	TA8223K	IC			△ R3302	QRE141J-1R0Y	C RESISTOR	1.0 5% 1/4W	
△ IC641	TA8233H	IC			△ R3303	QRE141J-1R0Y	C RESISTOR	1.0 5% 1/4W	
IC701	BA15218F-XE	IC			△ R3304	QRE141J-1R0Y	C RESISTOR	1.0 5% 1/4W	
IC702	BA15218F-XE	IC			R3305	NRSA02J-222X	MG RESISTOR		
IC703	BA15218F-XE	IC			R3306	NRSA02J-682X	MG RESISTOR		
IC704	BA15218F-XE	IC			R3307	NRSA02J-102X	MG RESISTOR		
IC801	BA15218F-XE	IC			R3308	NRSA02J-222X	MG RESISTOR		
△ J1901	QNC0042-001	AC SOCKET			R3309	NRSA02J-681X	MG RESISTOR		
△ J1902	QNA0016-001	DC JACK			R3310	NRSA02J-681X	MG RESISTOR		
L3191	QQL28AK-101	CHOKE COIL			R3311	NRSA02J-681X	MG RESISTOR		
Q3191	DTA143TKA-X	TRANSISTOR			R3312	NRSA02J-472X	MG RESISTOR		
△ Q3192	2SA1359/OY/	TRANSISTOR			R3313	NRSA02J-471X	MG RESISTOR		
Q3193	DTA114TKA-X	D.TRANSIATOR			R3314	NRSA02J-332X	MG RESISTOR		
Q3194	2SC2412K/R/-X	TRANSISTOR			R3315	NRSA02J-472X	MG RESISTOR		
Q3195	2SA1175/HFE/-T	TRANSISTOR			R3316	NRSA02J-472X	MG RESISTOR		
Q3196	2SA934/QR/-T	TRANSISTOR			R3317	NRSA02J-682X	MG RESISTOR		
Q3197	2SC2785/FE/-T	TRANSISTOR			R3318	NRSA02J-332X	MG RESISTOR		
Q3198	DTC114TKA-X	TRANSISTOR			R3401	NRSA02J-390X	MG RESISTOR		
Q3301	2SA1037AK/RS/-X	TRANSISTOR			R3402	NRSA02J-102X	MG RESISTOR		
△ Q3302	2SB1565/EF/	TRANSISTOR			R3403	NRSA02J-472X	MG RESISTOR		
Q3303	DTA144TKA-X	TRANSISTOR			R3801	NRSA02J-0R0X	MG RESISTOR		
Q3304	DTC144TKA-X	TRANSISTOR			R3802	NRSA02J-331X	MG RESISTOR		
Q3305	2SC2412K/R/-X	TRANSISTOR			△ R3901	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R4142	NRSA02J-303X	MG RESISTOR		
	R4143	NRSA02J-224X	MG RESISTOR		
	R4145	NRSA02J-124X	MG RESISTOR		
	R4146	NRSA02J-124X	MG RESISTOR		
	R4147	NRSA02J-124X	MG RESISTOR		
	R4151	NRSA02J-154X	MG RESISTOR		
	R4152	NRSA02J-183X	MG RESISTOR		
	R4153	NRSA02J-473X	MG RESISTOR		
	R4161	NRSA02J-333X	MG RESISTOR		
	R4162	NRSA02J-102X	MG RESISTOR		
	R4163	NRSA02J-332X	MG RESISTOR		
	R4164	NRSA02J-821X	MG RESISTOR		
	R4165	NRSA02J-562X	MG RESISTOR		
	R4242	NRSA02J-303X	MG RESISTOR		
	R4243	NRSA02J-224X	MG RESISTOR		
	R4245	NRSA02J-124X	MG RESISTOR		
	R4246	NRSA02J-124X	MG RESISTOR		
	R4247	NRSA02J-124X	MG RESISTOR		
	R4251	NRSA02J-154X	MG RESISTOR		
	R4252	NRSA02J-183X	MG RESISTOR		
	R4253	NRSA02J-473X	MG RESISTOR		
	R4261	NRSA02J-333X	MG RESISTOR		
	R4262	NRSA02J-102X	MG RESISTOR		
	R4263	NRSA02J-332X	MG RESISTOR		
	R4264	NRSA02J-821X	MG RESISTOR		
	R4265	NRSA02J-562X	MG RESISTOR		
	R4341	NRSA02J-103X	MG RESISTOR		
	R4342	NRSA02J-103X	MG RESISTOR		
	R4343	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R5101	NRSA02J-223X	MG RESISTOR		
	R5102	NRSA02J-153X	MG RESISTOR		
	R5107	NRSA02J-104X	MG RESISTOR		
	R5201	NRSA02J-223X	MG RESISTOR		
	R5202	NRSA02J-153X	MG RESISTOR		
	R5207	NRSA02J-104X	MG RESISTOR		
	R5301	NRSA02J-104X	MG RESISTOR		
	R5302	NRSA02J-333X	MG RESISTOR		
	R5303	NRSA02J-104X	MG RESISTOR		
	R5305	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R5308	NRSA02J-154X	MG RESISTOR		
	R6101	NRSA02J-562X	MG RESISTOR		
	R6102	NRSA02J-221X	MG RESISTOR		
	R6103	NRSA02J-103X	MG RESISTOR		
△	R6104	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R6105	NRSA02J-472X	MG RESISTOR		
	R6201	NRSA02J-562X	MG RESISTOR		
	R6202	NRSA02J-221X	MG RESISTOR		
	R6203	NRSA02J-103X	MG RESISTOR		
△	R6204	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R6205	NRSA02J-472X	MG RESISTOR		
	R6301	NRSA02J-332X	MG RESISTOR		
	R6302	NRSA02J-222X	MG RESISTOR		
	R6303	NRSA02J-562X	MG RESISTOR		
	R6304	NRSA02J-104X	MG RESISTOR		
	R6305	NRSA02J-122X	MG RESISTOR		
	R6401	NRSA02J-153X	MG RESISTOR		
	R6402	NRSA02J-102X	MG RESISTOR		
	R6403	NRSA02J-473X	MG RESISTOR		
	R6404	NRSA02J-391X	MG RESISTOR		
	R6405	NRSA02J-473X	MG RESISTOR		
	R6406	NRSA02J-391X	MG RESISTOR		
	R6407	NRSA02J-224X	MG RESISTOR		
△	R6408	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
△	R6409	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	

△	Item	Parts number	Parts name	Remarks	Area
△	R6410	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
△	R6411	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R7301	NRSA02J-473X	MG RESISTOR		
	R7303	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R7305	NRSA02J-224X	MG RESISTOR		
	R7307	NRSA02J-394X	MG RESISTOR		
	R7308	NRSA02J-104X	MG RESISTOR		
	R7309	NRSA02J-333X	MG RESISTOR		
	R7310	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R7311	NRSA02J-184X	MG RESISTOR		
	R7312	NRSA02J-104X	MG RESISTOR		
	R7313	NRSA02J-104X	MG RESISTOR		
	R7314	NRSA02J-273X	MG RESISTOR		
	R7316	NRSA02J-104X	MG RESISTOR		
	R7317	NRSA02J-104X	MG RESISTOR		
	R7318	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R7319	NRSA02J-202X	MG RESISTOR		
	R7320	NRSA02J-221X	MG RESISTOR		
	R7321	NRSA02J-224X	MG RESISTOR		
	R7322	NRSA02J-563X	MG RESISTOR		
	R7323	NRSA02J-102X	MG RESISTOR		
	R7324	NRSA02J-103X	MG RESISTOR		
	R7325	NRSA02J-103X	MG RESISTOR		
	R7326	NRSA02J-153X	MG RESISTOR		
	R7327	NRSA02J-105X	MG RESISTOR		
	R7328	NRSA02J-332X	MG RESISTOR		
	R7329	NRSA02J-102X	MG RESISTOR		
	R7330	NRSA02J-103X	MG RESISTOR		
	R7331	NRSA02J-472X	MG RESISTOR		
	R7332	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R7333	NRSA02J-153X	MG RESISTOR		
	R7334	NRSA02J-243X	MG RESISTOR		
	R7336	NRSA02J-243X	MG RESISTOR		
	R7338	NRSA02J-124X	MG RESISTOR		
	R7342	NRSA02J-183X	MG RESISTOR		
	R7344	NRSA02J-104X	MG RESISTOR		
	R7351	NRSA02J-153X	MG RESISTOR		
	R7352	NRSA02J-102X	MG RESISTOR		
	R7353	NRSA02J-123X	MG RESISTOR		
	R7354	NRSA02J-153X	MG RESISTOR		
	R7355	NRSA02J-102X	MG RESISTOR		
	R7356	NRSA02J-182X	MG RESISTOR		
	R7357	NRSA02J-102X	MG RESISTOR		
	R7358	NRSA02J-472X	MG RESISTOR		
	R7359	NRSA02J-102X	MG RESISTOR		
	R7360	NRSA02J-153X	MG RESISTOR		
	R8101	NRSA02J-332X	MG RESISTOR		
	R8102	NRSA02J-272X	MG RESISTOR		
	R8103	NRSA02J-392X	MG RESISTOR		
	R8104	NRSA02J-104X	MG RESISTOR		
	R8105	NRSA02J-332X	MG RESISTOR		
	R8106	NRSA02J-123X	MG RESISTOR		
	R8107	NRSA02J-103X	MG RESISTOR		
	R8111	NRSA02J-224X	MG RESISTOR		
	R8201	NRSA02J-332X	MG RESISTOR		
	R8202	NRSA02J-272X	MG RESISTOR		
	R8203	NRSA02J-392X	MG RESISTOR		
	R8204	NRSA02J-104X	MG RESISTOR		
	R8205	NRSA02J-332X	MG RESISTOR		
	R8206	NRSA02J-123X	MG RESISTOR		
	R8207	NRSA02J-103X	MG RESISTOR		
	R8211	NRSA02J-224X	MG RESISTOR		
	R8301	NRSA02J-102X	MG RESISTOR		
	R8302	NRSA02J-474X	MG RESISTOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R8321	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R8327	NRSA02J-101X	MG RESISTOR		
	S1901	QSW0555-001	VOL.SELECTOR		U,US
△	Z1901	QNG0020-001Z	FUSE CLIP		
△	Z1902	QNG0020-001Z	FUSE CLIP	FOR F1902	
△	Z1903	QNG0020-001Z	FUSE CLIP	FOR F1903	
△	Z1911	QNG0020-001Z	FUSE CLIP		
△	Z1912	QNG0020-001Z	FUSE CLIP		
△	Z1913	QNG0020-001Z	FUSE CLIP		

■ Electrical parts list (Micon board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area
	C 604	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 605	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 606	NCB21HK-102X	C CAPACITOR		
	C 607	NCB21HK-102X	C CAPACITOR		
	C 608	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 609	NCS21HJ-101X	C CAPACITOR		
	C 610	QFLM1HJ-273Z	M CAPACITOR	.027MF 5% 50V	
	C 611	NCB21HK-472X	C CAPACITOR		
	C 612	NCB21HK-103X	C CAPACITOR		
	C 613	NCS21HJ-331X	C CAPACITOR		
	C 614	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 615	NCB21HK-223X	C CAPACITOR		
	C 616	NCB21HK-223X	C CAPACITOR		
	C 617	NCB21HK-223X	C CAPACITOR		
	C 618	NCB21HK-222X	C CAPACITOR		
	C 619	NCS21HJ-271X	C CAPACITOR		
	C 620	NCS21HJ-181X	C CAPACITOR		
	C 622	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 623	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 628	QDX31EM-473Z	C CAPACITOR		
	C 629	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 631	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V	
	C 632	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 640	NCB21HK-822X	C CAPACITOR		
	C 641	NCB21HK-223X	C CAPACITOR		
	C 651	NCS21HJ-270X	C CAPACITOR		
	C 652	NCS21HJ-270X	C CAPACITOR		
	C 653	NCB21HK-223X	C CAPACITOR		
	C 655	QDX31EM-473Z	C CAPACITOR		
	C 661	NCB21HK-471X	C CAPACITOR		
	C 662	NCB21HK-223X	C CAPACITOR		
	C 663	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 664	NCB21HK-223X	C CAPACITOR		
	C 665	QFVF1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 666	NCB21HK-102X	C CAPACITOR		
	C 671	NCB21HK-222X	C CAPACITOR		
	C 672	NCB21HK-222X	C CAPACITOR		
	C 673	QTE1A28-227Z	E CAPACITOR		
	C 674	NCB21HK-223X	C CAPACITOR		
	C 675	NCB21HK-102X	C CAPACITOR		
	C 691	NCS21HJ-151X	C CAPACITOR	DENGEN NOISE	
	C 692	NCS21HJ-151X	C CAPACITOR	DENGEN NOISE	
	C 693	NCS21HJ-151X	C CAPACITOR	DENGEN NOISE	
	C 694	NCS21HJ-151X	C CAPACITOR	DENGEN NOISE	
	C 696	NCS21HJ-101X	C CAPACITOR		
	C 697	NCS21HJ-101X	C CAPACITOR		
	C 698	NCS21HJ-101X	C CAPACITOR		
	C 699	NCS21HJ-101X	C CAPACITOR		
	CN421	QGF1205F1-17	CONNECTOR	TO MAIN	
	CN422	QGF1205F1-17	CONNECTOR	TO MAIN	
	CN424	QGA2501F1-05	CONNECTOR	TO FUNC	
	CN601	QGF1023F1-15	15PIN CONNECTOR	TO RF	
	CN602	QGA2001C1-06	6P PLUG ASSY		
	CN911	QGF1205F1-14	CONNECTOR	TO MAIN SW	
	CN912	QGA2501C1-02	2P CONNECTOR	TO CD DOOR	
	CN915	QGA2501C1-03	3P CONNECTOR		
	CN916	QGF1205F1-09	CONNECTOR	TO SLC	
	CN921	QGF1205F1-14	CONNECTOR	TO MICON	
	CN923	QGA2501F1-03	CONNECTOR		
	CN924	VMC0041-006	CONNECTOR	TO MICON	
	CN951	QGB1214K1-06S	CONNECTOR		
	CN961	QGB1214J1-06S	CONNECTOR		
	C2101	QEKC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C2102	NCB21HK-561X	C CAPACITOR		

△	Item	Parts number	Parts name	Remarks	Area
	C2103	NCB21HK-561X	C CAPACITOR		
	C2104	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C2105	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C2106	NCB21HK-472X	C CAPACITOR		
	C2107	NCB21HK-472X	C CAPACITOR		
	C2108	NCF21HZ-104X	C CAPACITOR		
	C2201	QEKC1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C2202	NCB21HK-561X	C CAPACITOR		
	C2203	NCB21HK-561X	C CAPACITOR		
	C2204	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C2205	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C2206	NCB21HK-472X	C CAPACITOR		
	C2207	NCB21HK-472X	C CAPACITOR		
	C2208	NCF21HZ-104X	C CAPACITOR		
	C2301	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C2302	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C2303	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C2304	NCF21HZ-104X	C CAPACITOR		
	C2307	NCF21HZ-104X	C CAPACITOR		
	C2308	NCF21HZ-104X	C CAPACITOR		
	C2309	NCF21HZ-104X	C CAPACITOR		
	C2311	NCB21HK-103X	C CAPACITOR		
	C2501	NCB21HK-103X	C CAPACITOR		
	C2502	NCB21HK-103X	C CAPACITOR		
	C2503	NCB21HK-103X	C CAPACITOR		
	C2504	NCB21HK-103X	C CAPACITOR		
	C2505	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C2506	NCB21HK-103X	C CAPACITOR		
	C2507	NCB21HK-103X	C CAPACITOR		
	C6150	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C6151	NCS21HJ-151X	C CAPACITOR		
	C6152	NCS21HJ-151X	C CAPACITOR		
	C6153	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C6250	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C6251	NCS21HJ-151X	C CAPACITOR		
	C6252	NCS21HJ-151X	C CAPACITOR		
	C6253	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C6350	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C6351	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C6352	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C9001	NCB21HK-102X	C CAPACITOR		
	C9002	NCB21HK-102X	C CAPACITOR		
	C9003	NCB21HK-102X	C CAPACITOR		
	C9004	NCB21HK-102X	C CAPACITOR		
	C9005	NCB21HK-103X	C CAPACITOR		
	C9006	NCS21HJ-680X	C CAPACITOR		
	C9007	NCS21HJ-151X	C CAPACITOR		
	C9008	NCS21HJ-101X	C CAPACITOR		
	C9009	NCS21HJ-151X	C CAPACITOR		
	C9010	QEKC1CM-106	E CAPACITOR	10MF 20% 16V	
	C9011	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C9012	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C9013	NCS21HJ-151X	C CAPACITOR		
	C9014	NCS21HJ-151X	C CAPACITOR		
	C9015	NCS21HJ-151X	C CAPACITOR		
	C9016	NCS21HJ-151X	C CAPACITOR		
	C9017	NCB21HK-102X	C CAPACITOR		
	C9018	NCS21HJ-151X	C CAPACITOR		
	C9019	NCS21HJ-151X	C CAPACITOR		
	C9020	NCS21HJ-151X	C CAPACITOR		
	C9021	NCS21HJ-151X	C CAPACITOR		
	C9022	NCB21HK-103X	C CAPACITOR		
	C9023	QEKC1CM-476	E CAPACITOR	47MF 20% 16V	
	C9024	NCB21HK-103X	C CAPACITOR		

■ Electrical parts list (Micon board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C9025	NCB21HK-103X	C CAPACITOR				FW420	QJK002-071402	SIN CR C-B WIRE	AUX/HP - MAIN	
	C9026	QKCC1AM-107Z	E CAPACITOR	100MF 20% 10V			FW429	QJK002-061401	SIN CR C-B WIRE	AUX/HP - MAIN	
	C9027	NCB21HK-103X	C CAPACITOR				FW913	QJK025-032403	SIN CR C-B WIRE	MICOM - PAD	
	C9028	QKCC1CM-226Z	E CAPACITOR	22MF 20% 16V			FW914	QJK025-063001	SIN CR C-B WIRE	MICOM - RHYTHM	
	C9029	NCS21HJ-220X	C CAPACITOR				FW922	QJK002-022202	SIN CR C-B WIRE	MICOM - CD DOO	
	C9030	NCS21HJ-560X	C CAPACITOR				FW925	QJK002-030906	SIN CR C-B WIRE		
	C9031	NCS21HJ-360X	C CAPACITOR				IC231	M65575-0001FP-X	IC		
	C9032	NCS21HJ-360X	C CAPACITOR				IC232	BA15218F-XE	IC		
	C9033	NCS21HJ-560X	C CAPACITOR				IC251	RPM6938-SV4	IC	REMOCON	
	C9034	NCS21HJ-151X	C CAPACITOR				IC601	AN8806SB-W	IC	RF AMP	
	C9035	NCS21HJ-220X	C CAPACITOR				IC602	BA6897FP-W	IC	DRIVER	
	C9036	NCB21HK-102X	C CAPACITOR				IC603	MN35510	IC	1CHIP PROCESSER	
	C9501	QER61HM-474Z	E CAPACITOR	.47MF 20% 50V			IC615	BA15218F-XE	IC		
	C9502	NCS21HJ-470X	C CAPACITOR				IC901	MN101C38CDS	IC	MICON LSI	
	C9503	QER61EM-475Z	E CAPACITOR	4.7MF 20% 25V			IC902	IC-PST9131-T	IC	RESET IC	
	C9504	QER61CM-226Z	E CAPACITOR	22MF 20% 16V			IC951	BA15218F-XE	IC		
	C9505	QER61HM-335Z	E CAPACITOR	3.3MF 20% 50V			IC961	BA15218F-XE	IC		
	C9506	QER61HM-224Z	E CAPACITOR	.22MF 20% 50V			IC962	BA15218F-XE	IC		
	C9507	QER61HM-335Z	E CAPACITOR	3.3MF 20% 50V			IH601	VYH7237-001	IC HOLDER		
	C9508	QER61CM-336Z	E CAPACITOR	33MF 20% 16V			IH602	VYH7237-003	IC HOLDER		
	C9509	QER41CM-476	E CAPACITOR	47MF 20% 16V			IH603	VYH7237-003	IC HOLDER		
	C9510	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			IH901	VYH7237-002	IC HOLDER		
	C9601	QER61HM-104Z	E CAPACITOR	.10MF 20% 50V			J4301	QNS0047-001	JACK		
	C9602	NCS21HJ-331X	C CAPACITOR				J6301	QNS0032-001	JACK		
	C9603	QER61HM-334Z	E CAPACITOR	.33MF 20% 50V			J9501	QNS0091-001	JACK	MIC JACK	
	C9604	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			J9601	QNS0091-001	JACK	GUITARJACK	
	C9605	QER41CM-476	E CAPACITOR	47MF 20% 16V			K 696	QQR0779-001Z	INDUCTOR	(B1181)	
	C9606	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			K2301	QQR0779-001Z	INDUCTOR		
	C9607	QER41CM-106	E CAPACITOR	10MF 20% 16V			K4331	QQR0779-001Z	INDUCTOR		
	C9608	NCS21HJ-680X	C CAPACITOR				K4332	QQR0779-001Z	INDUCTOR		
	C9609	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			K6351	QQR0779-001Z	INDUCTOR	FOR EMC	
	C9610	QER61HM-335Z	E CAPACITOR	3.3MF 20% 50V			K9001	QQR0779-001Z	INDUCTOR		
	C9611	QER61HM-335Z	E CAPACITOR	3.3MF 20% 50V			K9002	QQR0779-001Z	INDUCTOR	CD GND	
	C9612	NCS21HJ-221X	C CAPACITOR				K9003	QQR0779-001Z	INDUCTOR	CD GND	
	C9613	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			K9004	QQR0779-001Z	INDUCTOR	CD GND	
	C9614	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			K9501	QQR0779-001Z	INDUCTOR		
	C9615	QER41CM-476	E CAPACITOR	47MF 20% 16V			K9601	QQR0779-001Z	INDUCTOR		
	C9616	QER41CM-476	E CAPACITOR	47MF 20% 16V			L2301	QQL231K-4R7Y	INDUCTOR		
	C9617	NCB21EK-683X	C CAPACITOR				L9001	QQL01BK-100Z	INDUCTOR		
	D 661	1SS133-T2	SI DIODE				L9002	QQL01BK-100Z	INDUCTOR		
	D2101	1SS133-T2	SI DIODE				L9003	QQL01BK-100Z	INDUCTOR		
	D2110	MA700A-T2	S.B.DIODE				PL 1	QLL0052-002	P.LAMP		
	D2201	1SS133-T2	SI DIODE				Q 601	2SA952/LK/-T	TRANSISTOR		
	D2502	SLR-342VR-T15	LED	STAND-BY LED			Q 631	2SA952/LK/-T	TRANSISTOR		
	D2503	1SS133-T2	SI DIODE				Q2101	DTC114TKA-X	TRANSISTOR		
	D4331	MTZJ6.2A-T2	Z.DIODE				Q2102	DTA114EKA-X	DIGITAL TRANSIS		
	D4332	1SS133-T2	SI DIODE				Q2201	DTC114TKA-X	TRANSISTOR		
	D4333	1SS133-T2	SI DIODE				Q2202	DTA114EKA-X	DIGITAL TRANSIS		
	D6351	1SS133-T2	SI DIODE				Q2301	2SC2785FF-T	TRANSISTOR		
	D6352	MTZJ3.6A-T2	ZENER DIODE				Q2302	2SA1037AK/RS/-X	TRANSISTOR		
	D6353	1SS133-T2	SI DIODE				Q2501	DTA124XKA-X	D.TRANSISTOR	STAND-BY LED	
	D6354	MTZJ4.7A-T2	Z DIODE				Q4131	2SD2114K/VW/-X	TRANSISTOR		
	D9001	1SS133-T2	SI DIODE				Q4231	2SD2114K/VW/-X	TRANSISTOR		
	D9002	MTZJ5.1C-T2	ZENER DIODE				Q4331	DTA144EKA-X	TRANSISTOR		
	D9003	MA700A-T2	S.B.DIODE				Q6150	2SD596/4/-X	TRANSISTOR		
	D9004	1SS133-T2	SI DIODE				Q6151	2SD596/4/-X	TRANSISTOR		
	D9501	1SS133-T2	SI DIODE				Q6250	2SD596/4/-X	TRANSISTOR		
	D9502	1SS133-T2	SI DIODE				Q6251	2SD596/4/-X	TRANSISTOR		
	D9503	1SS133-T2	SI DIODE				Q6350	DTC114EKA-X	TRANSISTOR		
	D9601	1SS133-T2	SI DIODE				Q6351	DTA144EKA-X	TRANSISTOR		
	D9602	1SS133-T2	SI DIODE				Q9001	2SC2668/O/-T	TRANSISTOR	OSCILATOR	
	D9603	1SS133-T2	SI DIODE				Q9002	2SC2668/O/-T	TRANSISTOR	OSCILATOR	
	D9604	1SS133-T2	SI DIODE				Q9003	2SC2412K/R/-X	TRANSISTOR		
	D9605	1SS133-T2	SI DIODE				Q9004	2SB624/4/-X	TRANSISTOR	LAMP CON.	

■ Electrical parts list (Micon board)

Block No. 02

▲	Item	Parts number	Parts name	Remarks	Area
	Q9005	2SC2412K/R/-X	TRANSISTOR	AC/DC	
	Q9006	2SC2412K/R/-X	TRANSISTOR	LAMP CON.	
	Q9009	2SC2412K/R/-X	TRANSISTOR		
	Q9010	2SA1037AK/RS/-X	TRANSISTOR		
	Q9501	DTC114TKA-X	TRANSISTOR		
	Q9502	2SA1037AK/RS/-X	TRANSISTOR		
	Q9503	2SC2412K/R/-X	TRANSISTOR		
	Q9504	2SC2412K/R/-X	TRANSISTOR		
	Q9601	2SC2412K/R/-X	TRANSISTOR		
	Q9602	2SC2412K/R/-X	TRANSISTOR		
	Q9603	DTC114TKA-X	TRANSISTOR		
	Q9604	2SA1037AK/RS/-X	TRANSISTOR		
	R 601	NRSA02J-113X	MG RESISTOR		
	R 603	NRSA02J-125X	MG RESISTOR		
	R 605	NRSA02J-274X	MG RESISTOR		
	R 606	NRSA02J-154X	MG RESISTOR		
	R 607	NRSA02J-273X	MG RESISTOR		
	R 609	NRSA02J-104X	MG RESISTOR		
	R 610	NRSA02J-154X	MG RESISTOR		
	R 612	NRSA02J-102X	MG RESISTOR		
	R 613	NRSA02J-121X	MG RESISTOR		
	R 614	NRSA02J-100X	MG RESISTOR		
	R 615	NRSA02J-120X	MG RESISTOR		
	R 616	NRSA02J-910X	MG RESISTOR		
	R 621	NRSA02J-330X	MG RESISTOR		
	R 622	NRSA02J-330X	MG RESISTOR		
	R 623	NRSA02J-330X	MG RESISTOR		
	R 631	NRSA02J-331X	MG RESISTOR		
	R 632	NRSA02J-101X	MG RESISTOR		
	R 633	NRSA02J-273X	MG RESISTOR		
	R 641	NRSA02J-563X	MG RESISTOR		
	R 642	NRSA02J-123X	MG RESISTOR		
	R 643	NRSA02J-822X	MG RESISTOR		
	R 644	NRSA02J-223X	MG RESISTOR		
	R 645	NRSA02J-223X	MG RESISTOR		
	R 646	NRSA02J-222X	MG RESISTOR		
	R 647	NRSA02J-472X	MG RESISTOR		
	R 651	NRSA02J-102X	MG RESISTOR		
	R 652	NRSA02J-102X	MG RESISTOR		
	R 653	NRSA02J-102X	MG RESISTOR		
	R 654	NRSA02J-102X	MG RESISTOR		
	R 655	NRSA02J-471X	MG RESISTOR		
	R 659	NRSA02J-221X	MG RESISTOR		
	R 661	NRSA02J-683X	MG RESISTOR		
	R 662	NRSA02J-155X	MG RESISTOR		
	R 663	NRSA02J-124X	MG RESISTOR		
	R 664	NRSA02J-471X	MG RESISTOR		
	R 666	NRSA02J-220X	MG RESISTOR		
	R 671	NRSA02J-103X	MG RESISTOR		
	R 672	NRSA02J-103X	MG RESISTOR		
	R 696	NRSA02J-222X	MG RESISTOR		
	R 697	NRSA02J-474X	MG RESISTOR		
	R2101	NRSA02J-103X	MG RESISTOR		
	R2102	NRSA02J-333X	MG RESISTOR		
	R2103	NRSA02J-393X	MG RESISTOR		
	R2104	NRSA02J-393X	MG RESISTOR		
	R2105	NRSA02J-222X	MG RESISTOR		
	R2106	NRSA02J-222X	MG RESISTOR		
	R2107	NRSA02J-183X	MG RESISTOR		
	R2108	NRSA02J-183X	MG RESISTOR		
	R2201	NRSA02J-103X	MG RESISTOR		
	R2202	NRSA02J-333X	MG RESISTOR		
	R2203	NRSA02J-393X	MG RESISTOR		
	R2204	NRSA02J-393X	MG RESISTOR		

▲	Item	Parts number	Parts name	Remarks	Area
	R2205	NRSA02J-222X	MG RESISTOR		
	R2206	NRSA02J-222X	MG RESISTOR		
	R2207	NRSA02J-183X	MG RESISTOR		
	R2208	NRSA02J-183X	MG RESISTOR		
	R2301	NRSA02J-154X	MG RESISTOR		
	R2302	NRSA02J-154X	MG RESISTOR		
	R2303	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R2304	NRSA02J-222X	MG RESISTOR		
	R2305	NRSA02J-822X	MG RESISTOR		
	R2306	NRSA02J-221X	MG RESISTOR		
	R2308	NRSA02J-105X	MG RESISTOR		
	R2310	NRSA02J-104X	MG RESISTOR		
	R2500	NRSA02J-101X	MG RESISTOR		
	R2501	NRSA02J-101X	MG RESISTOR		
	R2502	NRSA02J-121X	MG RESISTOR		
	R2503	NRSA02J-181X	MG RESISTOR		
	R2504	NRSA02J-221X	MG RESISTOR		
	R2505	NRSA02J-271X	MG RESISTOR		
	R2506	NRSA02J-391X	MG RESISTOR		
	R2507	NRSA02J-561X	MG RESISTOR		
	R2508	NRSA02J-102X	MG RESISTOR		
	R2509	NRSA02J-182X	MG RESISTOR		
	R2510	NRSA02J-512X	MG RESISTOR		
	R2511	NRSA02J-101X	MG RESISTOR		
	R2512	NRSA02J-121X	MG RESISTOR		
	R2513	NRSA02J-181X	MG RESISTOR		
	R2514	NRSA02J-221X	MG RESISTOR		
	R2515	NRSA02J-101X	MG RESISTOR		
	R2521	NRSA02J-271X	MG RESISTOR		
	R2522	NRSA02J-391X	MG RESISTOR		
	R2523	NRSA02J-561X	MG RESISTOR		
	R2524	NRSA02J-102X	MG RESISTOR		
	R2525	NRSA02J-362X	MG RESISTOR		
	R2534	NRSA02J-271X	MG RESISTOR		
	R4131	NRSA02J-124X	MG RESISTOR		
	R4132	NRSA02J-473X	MG RESISTOR		
	R4133	NRSA02J-222X	MG RESISTOR		
	R4231	NRSA02J-124X	MG RESISTOR		
	R4232	NRSA02J-473X	MG RESISTOR		
	R4233	NRSA02J-222X	MG RESISTOR		
	R6150	NRSA02J-223X	MG RESISTOR		
	R6151	NRSA02J-223X	MG RESISTOR		
	R6152	NRSA02J-102X	MG RESISTOR		
	R6153	NRSA02J-220X	MG RESISTOR		
	R6154	NRSA02J-222X	MG RESISTOR		
	R6155	NRSA02J-222X	MG RESISTOR		
	R6156	NRSA02J-472X	MG RESISTOR		
	R6157	NRSA02J-103X	MG RESISTOR		
	R6158	NRSA02J-153X	MG RESISTOR		
	R6159	NRSA02J-472X	MG RESISTOR		
	R6250	NRSA02J-223X	MG RESISTOR		
	R6251	NRSA02J-223X	MG RESISTOR		
	R6252	NRSA02J-102X	MG RESISTOR		
	R6253	NRSA02J-220X	MG RESISTOR		
	R6254	NRSA02J-222X	MG RESISTOR		
	R6255	NRSA02J-222X	MG RESISTOR		
	R6256	NRSA02J-472X	MG RESISTOR		
	R6257	NRSA02J-103X	MG RESISTOR		
	R6258	NRSA02J-153X	MG RESISTOR		
	R6259	NRSA02J-472X	MG RESISTOR		
	R6350	NRSA02J-121X	MG RESISTOR		
	R6351	NRSA02J-102X	MG RESISTOR		
	R6352	NRSA02J-121X	MG RESISTOR		
	R6353	NRSA02J-473X	MG RESISTOR		

■ Electrical parts list (Micon board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	R6354	NRSA02J-472X	MG RESISTOR				R9062	NRSA02J-222X	MG RESISTOR		
	R9001	NRSA02J-104X	MG RESISTOR				R9063	NRSA02J-473X	MG RESISTOR		
	R9002	NRSA02J-104X	MG RESISTOR				R9064	NRSA02J-473X	MG RESISTOR		
	R9003	NRSA02J-104X	MG RESISTOR				R9065	NRSA02J-103X	MG RESISTOR		
	R9004	NRSA02J-393X	MG RESISTOR				R9066	NRSA02J-103X	MG RESISTOR		
	R9005	NRSA02J-104X	MG RESISTOR				R9067	NRSA02J-104X	MG RESISTOR		
	R9006	NRSA02J-224X	MG RESISTOR				R9068	NRSA02J-102X	MG RESISTOR		
	R9007	NRSA02J-222X	MG RESISTOR				R9069	NRSA02J-222X	MG RESISTOR		
	R9008	NRSA02J-363X	MG RESISTOR		EE		R9070	NRSA02J-472X	MG RESISTOR		
	R9008	NRSA02J-103X	MG RESISTOR		U,US		R9071	NRSA02J-472X	MG RESISTOR		
	R9008	NRSA02J-103X	MG RESISTOR		B,E,EN,EV		R9072	NRSA02J-472X	MG RESISTOR		
	R9009	NRSA02J-222X	MG RESISTOR				R9073	NRSA02J-102X	MG RESISTOR		
	R9010	NRSA02J-222X	MG RESISTOR				R9074	NRSA02J-103X	MG RESISTOR		
	R9011	NRSA02J-222X	MG RESISTOR				R9075	NRSA02J-102X	MG RESISTOR		
	R9012	NRSA02J-102X	MG RESISTOR				R9076	NRSA02J-103X	MG RESISTOR		
	R9013	NRSA02J-222X	MG RESISTOR				R9077	NRSA02J-103X	MG RESISTOR		
	R9014	NRSA02J-222X	MG RESISTOR				R9078	NRSA02J-103X	MG RESISTOR		
	R9015	NRSA02J-102X	MG RESISTOR				R9079	NRSA02J-562X	MG RESISTOR		
	R9016	NRSA02J-222X	MG RESISTOR				R9080	NRSA02J-222X	MG RESISTOR		
	R9017	NRSA02J-102X	MG RESISTOR				R9081	NRSA02J-102X	MG RESISTOR		
	R9018	NRSA02J-222X	MG RESISTOR				R9082	NRSA02J-102X	MG RESISTOR		
	R9019	NRSA02J-102X	MG RESISTOR				R9083	NRSA02J-472X	MG RESISTOR		
	R9020	NRSA02J-682X	MG RESISTOR				R9084	NRSA02J-472X	MG RESISTOR		
	R9021	NRSA02J-183X	MG RESISTOR		U,US		R9085	NRSA02J-472X	MG RESISTOR		
	R9021	NRSA02J-103X	MG RESISTOR		EE		R9086	NRSA02J-472X	MG RESISTOR		
	R9022	NRSA02J-103X	MG RESISTOR				R9087	NRSA02J-472X	MG RESISTOR		
	R9024	NRSA02J-222X	MG RESISTOR				R9088	NRSA02J-103X	MG RESISTOR		
	R9025	NRSA02J-822X	MG RESISTOR				R9089	NRSA02J-104X	MG RESISTOR		
	R9026	NRSA02J-103X	MG RESISTOR				R9090	NRSA02J-103X	MG RESISTOR		
	R9027	NRSA02J-222X	MG RESISTOR				R9091	NRSA02J-102X	MG RESISTOR		
	R9028	NRSA02J-822X	MG RESISTOR				R9092	NRSA02J-102X	MG RESISTOR		
	R9029	NRSA02J-912X	MG RESISTOR				R9093	NRSA02J-102X	MG RESISTOR		
	R9030	NRSA02J-222X	MG RESISTOR				R9094	NRSA02J-102X	MG RESISTOR		
	R9031	NRSA02J-102X	MG RESISTOR				R9095	NRSA02J-472X	MG RESISTOR		
	R9032	NRSA02J-102X	MG RESISTOR				R9098	NRSA02J-333X	MG RESISTOR		
	R9033	NRSA02J-102X	MG RESISTOR				R9099	NRSA02J-473X	MG RESISTOR		
	R9034	NRSA02J-103X	MG RESISTOR				R9100	NRSA02J-104X	MG RESISTOR		
	R9035	NRSA02J-103X	MG RESISTOR				R9101	NRSA02J-104X	MG RESISTOR		
	R9036	NRSA02J-222X	MG RESISTOR				R9102	NRSA02J-103X	MG RESISTOR		
	R9037	NRSA02J-222X	MG RESISTOR				R9103	NRSA02J-222X	MG RESISTOR		
	R9038	NRSA02J-682X	MG RESISTOR				R9108	NRSA02J-563X	MG RESISTOR		
	R9039	NRSA02J-103X	MG RESISTOR				R9109	NRSA02J-473X	MG RESISTOR		
	R9040	NRSA02J-103X	MG RESISTOR				R9110	NRSA02J-473X	MG RESISTOR		
	R9041	NRSA02J-243X	MG RESISTOR				R9111	NRSA02J-473X	MG RESISTOR		
	R9042	NRSA02J-243X	MG RESISTOR				R9112	NRSA02J-472X	MG RESISTOR		
	R9043	NRSA02J-103X	MG RESISTOR				R9501	NRSA02J-104X	MG RESISTOR		
	R9044	NRSA02J-103X	MG RESISTOR				R9502	NRSA02J-102X	MG RESISTOR		
	R9045	NRSA02J-103X	MG RESISTOR				R9503	NRSA02J-103X	MG RESISTOR		
	R9046	NRSA02J-222X	MG RESISTOR				R9504	NRSA02J-564X	MG RESISTOR		
	R9047	NRSA02J-473X	MG RESISTOR				R9505	NRSA02J-222X	MG RESISTOR		
	R9048	NRSA02J-222X	MG RESISTOR				R9506	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R9049	NRSA02J-473X	MG RESISTOR				R9507	NRSA02J-103X	MG RESISTOR		
	R9050	NRSA02J-222X	MG RESISTOR				R9508	NRSA02J-102X	MG RESISTOR		
	R9051	NRSA02J-103X	MG RESISTOR				R9509	NRSA02J-224X	MG RESISTOR		
	R9052	NRSA02J-102X	MG RESISTOR				R9510	NRSA02J-103X	MG RESISTOR		
	R9053	NRSA02J-102X	MG RESISTOR				R9511	NRSA02J-473X	MG RESISTOR		
	R9054	NRSA02J-102X	MG RESISTOR				R9512	NRSA02J-473X	MG RESISTOR		
	R9055	NRSA02J-102X	MG RESISTOR				R9513	NRSA02J-102X	MG RESISTOR		
	R9056	NRSA02J-102X	MG RESISTOR				R9514	NRSA02J-103X	MG RESISTOR		
	R9057	NRSA02J-222X	MG RESISTOR				R9515	NRSA02J-154X	MG RESISTOR		
	R9058	NRSA02J-472X	MG RESISTOR				R9516	NRSA02J-154X	MG RESISTOR		
	R9059	NRSA02J-912X	MG RESISTOR				R9601	NRSA02J-184X	MG RESISTOR		
	R9060	NRSA02J-102X	MG RESISTOR				R9602	NRSA02J-823X	MG RESISTOR		
	R9061	NRSA02J-222X	MG RESISTOR				R9603	NRSA02J-393X	MG RESISTOR		

■ Electrical parts list (Micon board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area
	R9604	NRSA02J-333X	MG RESISTOR		
	R9605	NRSA02J-563X	MG RESISTOR		
	R9606	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R9607	NRSA02J-182X	MG RESISTOR		
	R9608	NRSA02J-273X	MG RESISTOR		
	R9609	NRSA02J-224X	MG RESISTOR		
	R9610	NRSA02J-101X	MG RESISTOR		
	R9611	NRSA02J-104X	MG RESISTOR		
	R9612	NRSA02J-474X	MG RESISTOR		
	R9613	NRSA02J-222X	MG RESISTOR		
	R9614	NRSA02J-222X	MG RESISTOR		
	R9615	NRSA02J-222X	MG RESISTOR		
	R9616	NRSA02J-222X	MG RESISTOR		
	R9617	NRSA02J-103X	MG RESISTOR		
	R9618	NRSA02J-103X	MG RESISTOR		
	R9619	NRSA02J-122X	MG RESISTOR		
	R9620	NRSA02J-473X	MG RESISTOR		
	R9621	NRSA02J-563X	MG RESISTOR		
	R9622	NRSA02J-223X	MG RESISTOR		
	R9623	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R9624	NRSA02J-473X	MG RESISTOR		
	R9625	NRSA02J-473X	MG RESISTOR		
	R9626	NRSA02J-683X	MG RESISTOR		
	R9627	NRSA02J-683X	MG RESISTOR		
	R9628	NRSA02J-393X	MG RESISTOR		
	S2501	QSW0622-001Z	TACT SWITCH	SOUND	
	S2502	QSW0622-001Z	TACT SWITCH	PRESET	
	S2503	QSW0622-001Z	TACT SWITCH	REC	
	S2504	QSW0622-001Z	TACT SWITCH	CD	
	S2505	QSW0622-001Z	TACT SWITCH	TAPE	
	S2506	QSW0622-001Z	TACT SWITCH	TUNER	
	S2507	QSW0622-001Z	TACT SWITCH	AUX	
	S2508	QSW0622-001Z	TACT SWITCH	REW	
	S2509	QSW0622-001Z	TACT SWITCH	STOP	
	S2510	QSW0622-001Z	TACT SWITCH	FF	
	S2511	QSW0622-001Z	TACT SWITCH		
	S2520	QSW0622-001Z	TACT SWITCH	POWER	
	S2521	QSW0622-001Z	TACT SWITCH		
	S2522	QSW0622-001Z	TACT SWITCH		
	S2523	QSW0622-001Z	TACT SWITCH		
	S2524	QSW0622-001Z	TACT SWITCH		
	S2525	QSW0622-001Z	TACT SWITCH		
	S2526	QSW0882-001Z	TACT SWITCH		
	S2527	QSW0622-001Z	TACT SWITCH		
	S2528	QSW0622-001Z	TACT SWITCH		
	S2529	QSW0622-001Z	TACT SWITCH		
	S2530	QSW0622-001Z	TACT SWITCH		
	S2531	QSW0122-001	PUSH SWITCH	CD DOOR	
	VR901	QSW0868-001	ROTARY ENCODER		
	VR902	QSW0868-001	ROTARY ENCODER		
	VR903	QSW0869-001	ROTARY ENCODER		
	VR951	QVQ0020-B14	V.RES	MIC VR	
	VR961	QVQ0020-B14	V.RES	GUITAR VR	
	X 651	QAX0369-001Z	CERA LOCK	16.9344MHZ	
	X9001	QAX0401-001	CRYSTAL		
	X9002	QAX0416-001Z	CERA LOCK		

■ Electrical parts list (Tuner board)

Block No. 03

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	C 3	QCSB1HK-5R6Y	C CAPACITOR	5.6PF 10% 50V	U,US		CF 1	QAX0403-001	C FILTER		
	C 3	QCSB1HK-5R6Y	C CAPACITOR	5.6PF 10% 50V	B,E,EN,EV		CF 3	QAX0538-001Z	CRYSTAL		
	C 6	QDYB1CM-103Y	C CAPACITOR				CN 1	QGF1205C1-09	CONNECTOR	TO MAIN	
	C 7	QDYB1CM-103Y	C CAPACITOR				D 1	SVC203SPA-JV-T	VARI CAPA DIODE		B,E,EN,EV
	C 9	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	U,US		D 1	SVC203SPA-JV-T	VARI CAPA DIODE		U,US
	C 9	QCSB1HK-4R7Y	C CAPACITOR	4.7PF 10% 50V	EE		D 1	KV1370N-T	VARI CAPA DIODE		EE
	C 9	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	B,E,EN,EV		D 2	KV1370N-T	VARI CAPA DIODE		EE
	C 13	QDX31EM-223Z	C CAPACITOR				D 2	SVC203SPA-JV-T	VARI CAPA DIODE		U,US
	C 16	QDYB1CM-103Y	C CAPACITOR				D 2	SVC203SPA-JV-T	VARI CAPA DIODE		B,E,EN,EV
	C 17	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	U,US		D 5	1SS133-T2	SI DIODE		
	C 21	QDX31EM-473Z	C CAPACITOR				D 6	1SS133-T2	SI DIODE		
	C 22	QFP31HJ-431Z	PP CAPACITOR	430PF 5% 50V			D 8	SVC344-T	VARI CAP		
	C 23	QDCB1HJ-120Y	C CAPACITOR		B,E,EE,EN,EV		D 10	SVC344-T	VARI CAP		
	C 23	QDCB1HK-4R7Y	C CAPACITOR		U,US		D 12	DSK10C-T1	DIODE		
	C 24	QCSB1HJ-620Y	C CAPACITOR	62PF 5% 50V	B,E,EE,EN,EV		D 13	1SS133-T2	SI DIODE		
	C 25	QDX31EM-473Z	C CAPACITOR		B,E,EE,EN,EV		IC 1	TA2104AN	IC		
	C 25	QDX31EM-223Z	C CAPACITOR		U,US		IC 2	LC72136N	IC		
	C 26	QFLM1HJ-472Z	MYLAR CAPACITOR	4700PF 5% 50V	U,US		L 1	QQR0772-001	FM COIL		U,US
	C 26	QFP31HJ-181Z	PP CAPACITOR	180PF 5% 50V	B,E,EE,EN,EV		L 1	QQR0773-001	FM COIL		EE
	C 27	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	B,E,EE,EN,EV		L 1	QQR0772-001	FM COIL		B,E,EN,EV
	C 28	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	B,E,EE,EN,EV		L 2	QQR0769-001	RF COIL		B,E,EN,EV
	C 30	QCB1HK-331Y	C CAPACITOR	330PF 10% 50V			L 2	QQR0781-001	RF COIL		EE
	C 31	QDGB1HK-102Y	C CAPACITOR				L 2	QQR0769-001	RF COIL		U,US
	C 32	QDYB1CM-103Y	C CAPACITOR				L 3	QQR0770-001	BAR ANTENA	MW RF	U,US
	C 33	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V			L 3	QQR0771-001	BAR ANTENA	MW RF	B,E,EN,EE,EV
	C 35	QDX31EM-473Z	C CAPACITOR				L 4	QQR0723-001	OSC COIL	MW OSC	
	C 36	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V			L 6	QQR0774-001	OSC COIL(LW)		B,E,EE,EN,EV
	C 37	QDGB1HK-102Y	C CAPACITOR				L 6	QQR0775-001	OSC COIL(LW)		U,US
	C 40	QDYB1CM-103Y	C CAPACITOR				L 7	QQL231K-221Y	INDUCTOR		
	C 41	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V			L 10	QQL231K-4R7Y	INDUCTOR		
	C 42	QDX31EM-473Z	C CAPACITOR				L 12	QQR0756-001	INDUCTOR		
	C 43	QETN1HM-104Z	E CAPACITOR	.10MF 20% 50V			L 13	QQR0874-001	INDUCTOR		U,US
	C 44	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			Q 1	2SC2668/O/-T	TRANSISTOR		
	C 45	QETN1HM-104Z	E CAPACITOR	.10MF 20% 50V			Q 2	2SC2668/O/-T	TRANSISTOR		B,E,EE,EN,EV
	C 47	QDX31EM-153Z	C CAPACITOR				Q 3	2SC2668/O/-T	TRANSISTOR		
	C 48	QDX31EM-153Z	C CAPACITOR				Q 4	2SA1175/HFE/-T	TRANSISTOR		
	C 49	QETN1HM-104Z	E CAPACITOR	.10MF 20% 50V			Q 5	2SC2668/O/-T	TRANSISTOR		
	C 50	QETN1HM-104Z	E CAPACITOR	.10MF 20% 50V			Q 6	2SC2668/O/-T	TRANSISTOR		
	C 51	QCB1HK-331Y	C CAPACITOR	330PF 10% 50V			Q 14	DTA114YSA-T	D.TRANSISTOR		B,E,EE,EN,EV
	C 52	QDGB1HK-102Y	C CAPACITOR				Q 16	2SC2668/O/-T	TRANSISTOR		U,US
	C 56	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	EE		Q 17	DTA114YSA-T	D.TRANSISTOR		U,US
	C 60	QDGB1HK-102Y	C CAPACITOR				R 1	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	C 61	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V			R 2	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	C 62	QDCB1HJ-120Y	C CAPACITOR				R 3	QRE141J-220Y	C RESISTOR	22 5% 1/4W	
	C 63	QDGB1HK-102Y	C CAPACITOR				R 4	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	C 64	QDCB1HJ-120Y	C CAPACITOR				R 7	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	C 65	QDGB1HK-102Y	C CAPACITOR				R 9	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	C 69	QDXB1CM-222Y	C CAPACITOR				R 12	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	C 70	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V			R 13	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	C 71	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V			R 14	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	B,E,EE,EN,EV
	C 74	QCSB1HK-5R6Y	C CAPACITOR	5.6PF 10% 50V	U,US		R 15	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	C 75	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	U,US		R 16	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	C 76	QDX31EM-223Z	C CAPACITOR		U,US		R 17	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	C 77	QDYB1CM-103Y	C CAPACITOR				R 18	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	C 81	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	B,E,EN,EV		R 19	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	B,E,EE,EN,EV
	C 81	QCSB1HJ-220Y	C CAPACITOR	22PF 5% 50V	EE		R 20	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	C 82	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	U,US		R 21	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	C 83	QCSB1HJ-560Y	C CAPACITOR	56PF 5% 50V	U,US		R 24	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	C 83	QCSB1HJ-680Y	AL E.CAPACITOR	68PF 5% 50V	EE		R 25	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	C 83	QCSB1HJ-560Y	C CAPACITOR	56PF 5% 50V	B,E,EN,EV		R 30	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	C 84	QCSB1HK-3R9Y	C CAPACITOR	3.9PF 10% 50V	EE		R 31	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	C 85	QCSB1HJ-220Y	C CAPACITOR	22PF 5% 50V	EE		R 32	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	C 85	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	U,US		R 33	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	C 85	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	B,E,EN,EV		R 34	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	B,E,EE,EN,EV

■ Electrical parts list (Tuner board)

Block No. 03

△	Item	Parts number	Parts name	Remarks	Area
	R 35	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	U,US
	R 35	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	B,E,EE,EN,EV
	R 36	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	B,E,EE,EN,EV
	R 36	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	U,US
	R 37	QRE141J-560Y	C RESISTOR	56 5% 1/4W	
	R 38	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 39	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 40	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 41	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 42	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 44	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 45	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 47	QRE141J-220Y	C RESISTOR	22 5% 1/4W	
	R 48	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 51	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 52	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 54	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 55	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 56	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 57	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 59	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 60	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 61	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 63	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 64	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 66	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	U,US
	R 67	QRE141J-184Y	C RESISTOR	180K 5% 1/4W	B,E,EE,EN,EV
	R 71	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	U,US
	R 72	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	U,US
	T 2	QAX0540-001	C FIL		
	TC 2	QAT3725-200Z	T CAPACITOR	MW RF	
	TC 3	QAT3725-300Z	T CAPACITOR		B,E,EE,EN,EV
	TC 3	QAT3725-100Z	T CAPACITOR		U,US
	TP 1	QNZ0104-001	POST PIN	TO ROD ANT	
	TP 2	QNZ0104-001	POST PIN	GND	
	X 1	QAX0402-001	CRYSTAL		

■ Electrical parts list (Head AMP.&mechanism board) Block No. 04

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C 101	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V			L 301	QQR0620-001	OSC COIL(BIAS)		
	C 102	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V			L 303	QLL01BK-100Z	INDUCTOR		
	C 103	QEKJ0JM-227Z	E CAPACITOR	220MF 20% 6.3V			Q 101	DTC114TKA-X	TRANSISTOR		
	C 104	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V			Q 102	DTC114TKA-X	TRANSISTOR	REC EQ CONT.	
	C 105	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V			Q 201	DTC114TKA-X	TRANSISTOR		
	C 106	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V			Q 202	DTC114TKA-X	TRANSISTOR	REC EQ CONT.	
	C 107	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V			Q 301	DTA144EKA-X	TRANSISTOR	REC EQ CONT.	
	C 108	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V			Q 302	2SC2001/K/-T	TRANSISTOR		
	C 109	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V			Q 303	2SC2001/K/-T	TRANSISTOR		
	C 110	NCB21HK-682X	C CAPACITOR	6800PF 10% 50V			Q 304	2SC2001/LK/-T	TRANSISTOR		
	C 111	NCB21HK-122X	C CAPACITOR	1200PF 10% 50V			Q 305	2SC2001/LK/-T	TRANSISTOR		
	C 112	NCB21EK-683X	C CAPACITOR	.068MF 10% 25V			Q 306	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 113	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V			Q 307	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 121	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V			Q 308	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 201	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V			Q 309	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 202	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V			Q 321	DTC144EKA-X	TRANSISTOR		
	C 203	QEKJ0JM-227Z	E CAPACITOR	220MF 20% 6.3V			Q 323	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 204	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V			Q 371	2SA952/LK/-T	TRANSISTOR	MOTER+B	
	C 205	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V			Q 372	DTC124EKA-X	TRANSISTOR		
	C 206	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V			Q 375	2SB562/C/-T	TRANSISTOR	SOLENOID DRIVE	
	C 207	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V			Q 376	2SC2412K/RS/-X	CHIP TRANSISTOR		
	C 208	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V			R 101	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	C 209	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V			R 102	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	C 210	NCB21HK-682X	C CAPACITOR	6800PF 10% 50V			R 103	NRSA02J-242NY	MG RESISTOR	2.4K 5% 1/10W	
	C 211	NCB21HK-122X	C CAPACITOR	1200PF 10% 50V			R 104	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	C 212	NCB21EK-683X	C CAPACITOR	.068MF 10% 25V			R 105	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	C 213	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V			R 106	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	C 221	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V			R 107	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	C 301	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V			R 108	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	C 302	NCB21HK-393X	C CAPACITOR	.039MF 10% 50V			R 109	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	C 303	QEKJ0JM-227Z	E CAPACITOR	220MF 20% 6.3V			R 110	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	C 304	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V			R 111	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	C 305	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V			R 112	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	C 306	QEKJ1CM-476Z	E CAPACITOR	47MF 20% 16V			R 113	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	C 307	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V			R 114	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	C 308	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V			R 116	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	C 309	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V			R 121	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	C 310	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V			R 201	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	C 311	NCB21HK-682X	C CAPACITOR	6800PF 10% 50V			R 202	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	C 313	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V			R 203	NRSA02J-242NY	MG RESISTOR	2.4K 5% 1/10W	
	C 314	QCZ0205-155Z	ML C CAPACITOR	1.5MF			R 204	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	C 315	QCZ0205-155Z	ML CAPACITOR	1.5MF			R 205	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	C 316	QFG32AJ-103Z	PP CAPACITOR	.010MF 5% 100V			R 206	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	C 318	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V			R 207	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	C 319	QFG32AJ-821Z	TF CAPACITOR	820PF 5% 100V			R 208	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	C 321	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V			R 209	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	C 322	QFG32AJ-152Z	M CAPACITOR	1500PF 5% 100V			R 210	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	C 331	QEKJ1CM-476Z	E CAPACITOR	47MF 20% 16V			R 211	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	C 351	QEK41CM-106	E CAPACITOR	10MF 20% 16V			R 212	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	C 371	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V			R 213	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	C 374	QEKJ1AM-107Z	E CAPACITOR	MOTOR +B			R 214	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	C 375	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V			R 216	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	C 376	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V			R 221	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	CN 31	QGF1205F1-06	CONNECTOR	PRI/HEAD			R 301	NRS181J-221X	MG RESISTOR	220 5% 1/8W	
	CN 32	QGB2011M1-10	PWB CONECTOR	PRI/MECHA			R 303	NRSA02J-393X	MG RESISTOR	39K 5% 1/10W	
	CN 33	QGF1205F1-09	CONNECTOR	PRI/MICON			R 304	NRS181J-101X	MG RESISTOR	100 5% 1/8W	
	CN 34	QGF1205F1-10	CONNECTOR	PRI/AMP			R 305	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	D 301	MA152WA-X	DIODE				R 306	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	D 309	MA704A-X	S.K.DIODE				R 310	NRS181J-560X	MG RESISTOR	56 5% 1/8W	
	D 375	MA3051/M/-X	ZENER DIODE				R 311	NRS181J-560X	MG RESISTOR	56 5% 1/8W	
	FW 31	QUM024-06A2Z3	EF FLAT				R 313	NRSA02J-3R3NY	MG RESISTOR	3.3 5% 1/10W	
	IC 31	BA3126N	IC	HEAD SW			R 314	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	IC 32	AN7317	IC	PB&REC			R 315	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	IC 33	BU4094BCF-X	IC				R 316	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	

■ Electrical parts list (Head AMP.&mechanism board) Block No. 04

△	Item	Parts number	Parts name	Remarks	Area
	R 317	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 319	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 322	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 327	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 332	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 333	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 335	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 336	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	R 337	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 338	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 339	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 340	NRS181J-391X	MG RESISTOR	390 5% 1/8W	
	R 341	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 342	NRSA02J-203X	MG RESISTOR	20K 5% 1/10W	
	R 343	NRSA02J-183X	MG RESISTOR	18K 5% 1/10W	
	R 351	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 352	NRSA02J-912X	MG RESISTOR	9.1K 5% 1/10W	
	R 371	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 372	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 375	NRSA02J-151X	MG RESISTOR	150 5% 1/10W	
	R 376	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	VR 31	QVP0008-503Z	SEMI V RESISTOR	BIAS ADJ	
	VR 32	QVP0008-503Z	SEMI V RESISTOR	BIAS ADJ	
	VR 37	QVP0008-103Z	SEMI V RESISTOR	TAPE SPEED ADJ	

■ Electrical parts list (Cassette switch board) Block No. 05

△	Item	Parts number	Parts name	Remarks	Area
	CN 1	QGB2011L1-10	10P PLUG ASSY		
	D 1	1SR139-400-T2	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	QNZ0104-001	POST PIN		
	SW 1	QSW0832-001	CASSETTE SWITCH	R.REC	
	SW 2	QSW0832-001	CASSETTE SWITCH	TAPE	
	SW 4	QSW0832-001	CASSETTE SWITCH	70U	
	SW 5	QSW0832-001	CASSETTE SWITCH	F.REC	
	SW 6	QSW0859-001	SWITCH		