JVC

Revised Edition

SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-A55R B/E/G/GI/EN

COMPACT disc DIGITAL AUDIO

R·D·S RADIO DATA SYSTEM

Area Suffix

B	U.K.
E	Continental Europe
G	Germany
GI	Italy
EN	North Europe

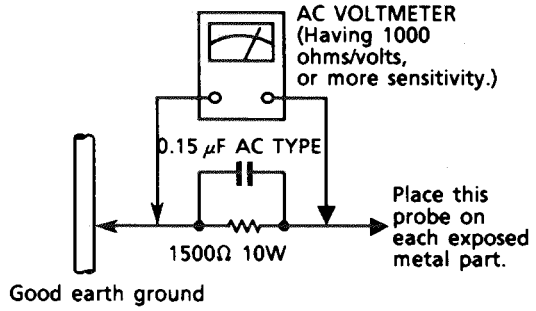
Contents

No. 1906B
May 1995

1. Safety Precautions

1. The 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 (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement 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 currnet 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, contorl 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 1,500Ω 10 W resistor paralleled by a 0.15 μF 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 meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured 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.

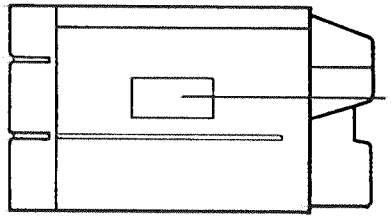
2. Safety Precaution about UX—A55R

IMPORTANT FOR LASER PRODUCTS

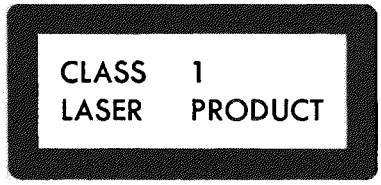
PRECAUTIONS

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

IDENTIFICATION LABEL AND CERTIFICATION LABEL



CD player/tuner section



Obs:
Apparaten innehåller laser Komponent av höger laserklass än klass 1.

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

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

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

ADVERSEL : Usynlig laserstråling ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

IMPORTANT (In the United Kingdom)

Mains Supply (AC 240 V~, 50 Hz only)

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

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

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

IMPORTANT

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

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

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

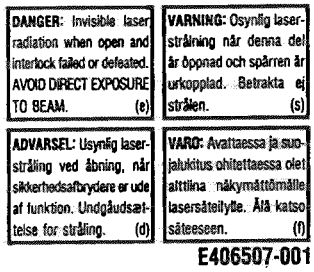
As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

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

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

IF IN DOUBT – CONSULT A COMPETENT ELECTRICIAN.

REPRODUCTION OF LABELS AND THEIR LOCATION



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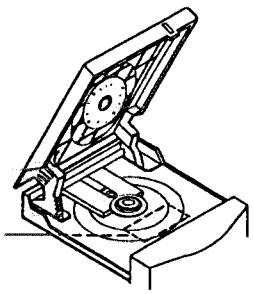
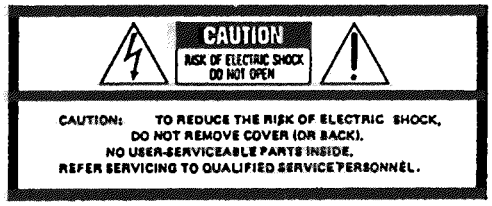
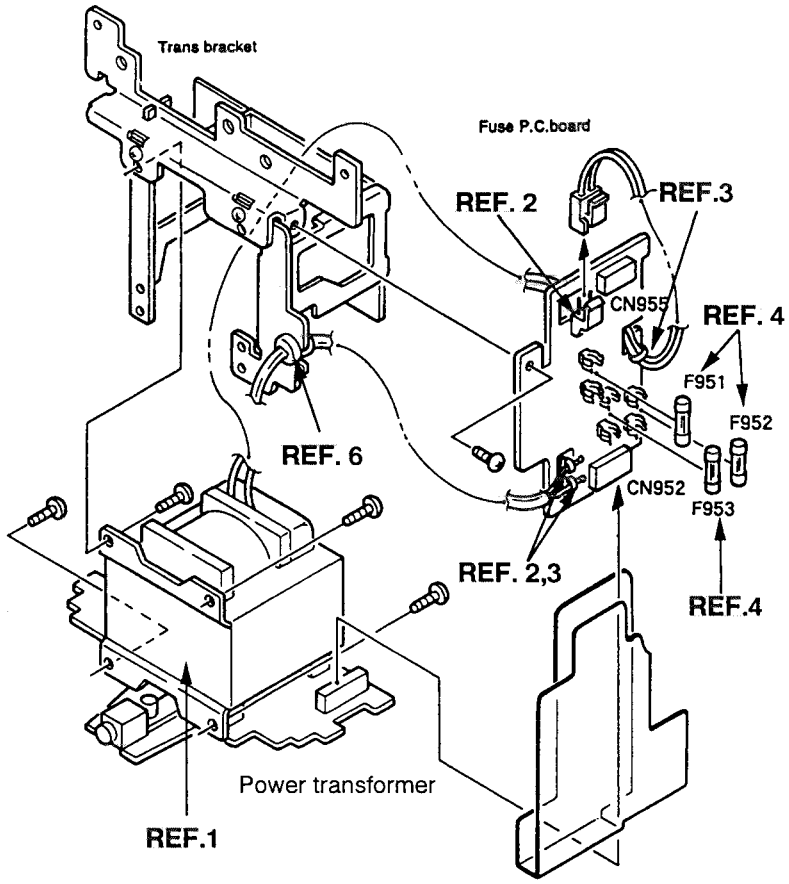




The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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



■ **Important management points regarding safety (Item demanding special safety precautions)**

1. Power transformer marking : VTP66J2 — 12D (E/G/GI/EN Version : Parts No.)
   : VTP66T2 — 12D (B Version : Parts No.)
   The torque of the screw driver for the power transformer must be controlled.
2. Concerning the primary terminal and the adjacent secondary terminal on the printed circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
3. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving parts, hot parts, or sharp edges.
4. Before installation confirm the fuse capacity indication, (⚠) and (Ⓢ) marks on the fuse cap.

Version	REF. NO.	Capacity and mark	Indication on P.C. board
B/E/G/GI/EN	F951	T400mA L250V	LABEL T400mA
	F952	T6.3A L250V	LABEL T6.3A
	F953	T6.3A L250V	LABEL T6.3A

5. Following parts are controlled as the heated parts.

Diode	IC	Transistor	Resistor	Power Trans.
D952	ICA05, ICA06, IC502, IC701	QF07, QF02, Q808	R867, R857, RF38	Power Trans. Body

6. Strain relief marking 4N — 4, to be mounted with specified tool and power cord must be fixed securely.

■ Information for G/GI Version

The G/GI Version has been modified from the E Version as described below to make it applicable to the EN55020 standard (immunity).

(1) Addition of earth wire ass'y for connecting mutually between the deck amp. section and CD tuner section

① The earth wire ass'y (Parts No. VMP0123-001) connected to the deck amp. section is screwed as indicated in Fig. 1 below.

② The earth wire ass'y connected to the deck amp. section is drawn out of the back cover slit together with the power cord as indicated in Fig. 2 (Fig. 1) below.

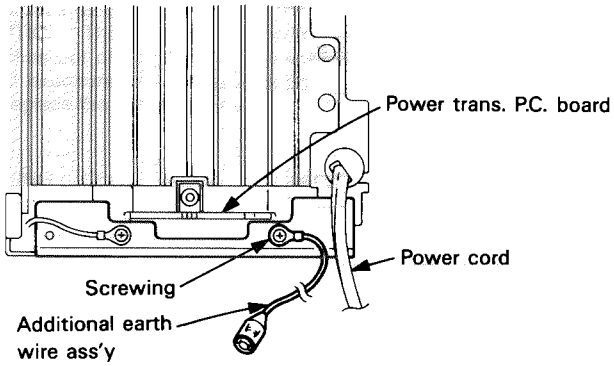


Fig. 1 Back surface of the deck amp. section

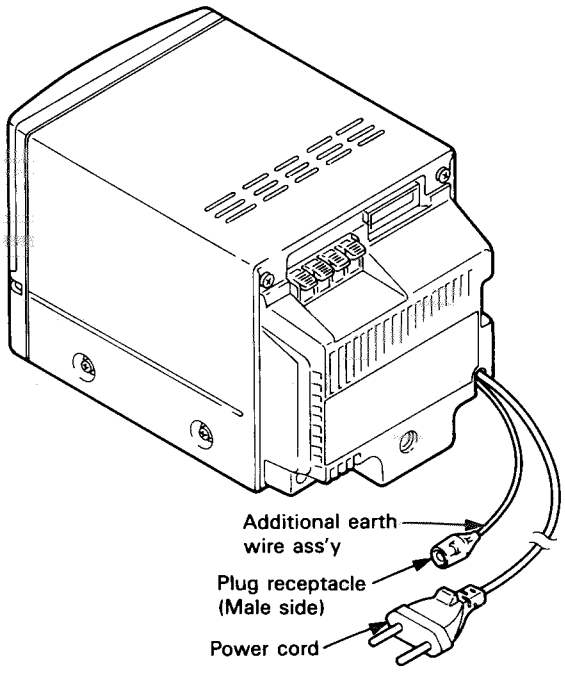


Fig. 2 Deck amp. section

(2) Addition of earth wire ass'y connected to CD tuner section

① The pattern on the system connector side of ceramic condenser CF26 is out as indicated in Fig. 3 below.

② Change of CF26 ceramic condenser (Parts No. QCBB1HK-151Y) to QCF11HP-473.

③ Addition of ceramic condenser (Parts No. QCVB1CN-103Y) on the opening around C25 on the function P.C. board.

④ Addition of bus wire (Parts No. QWY123-17.5Y) on the opening around BD603 on the Function P.C. board.

For further details regarding Items ① ~ ④, refer to the function P.C. board diagram on page 64.

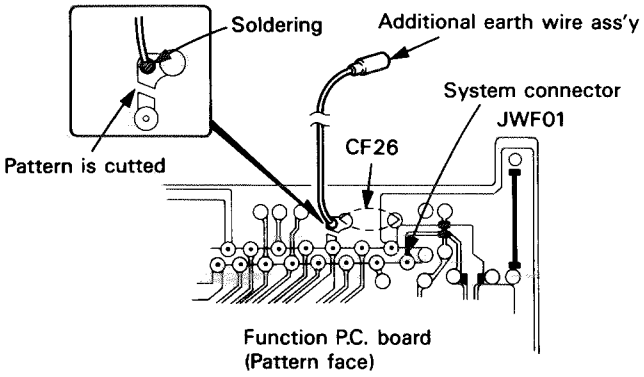


Fig. 3 Pattern face of function P.C. board

⑤ The earth wire ass'y (Parts No. VMP0124-001) is back-soldered from the land on the pattern cut side of CF26 as indicated in Fig. 4 below.

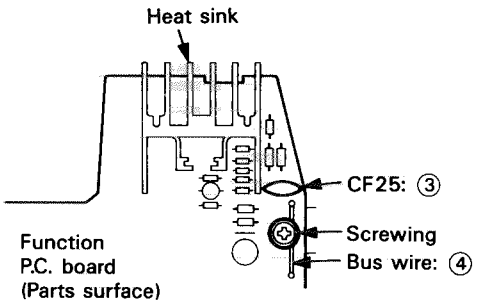


Fig. 4

⑥ The earth wire ass'y which has been back-soldered in Item 5 above is clamped on the function P.C. board parts surface as indicated in Fig. 5 below.

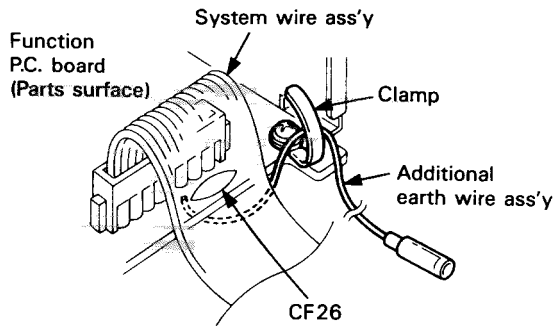


Fig. 5

⑦ The earth wire ass'y which has been treated in Item 6 above is drawn out of the body together with the system wire as indicated in Fig. 6 below.

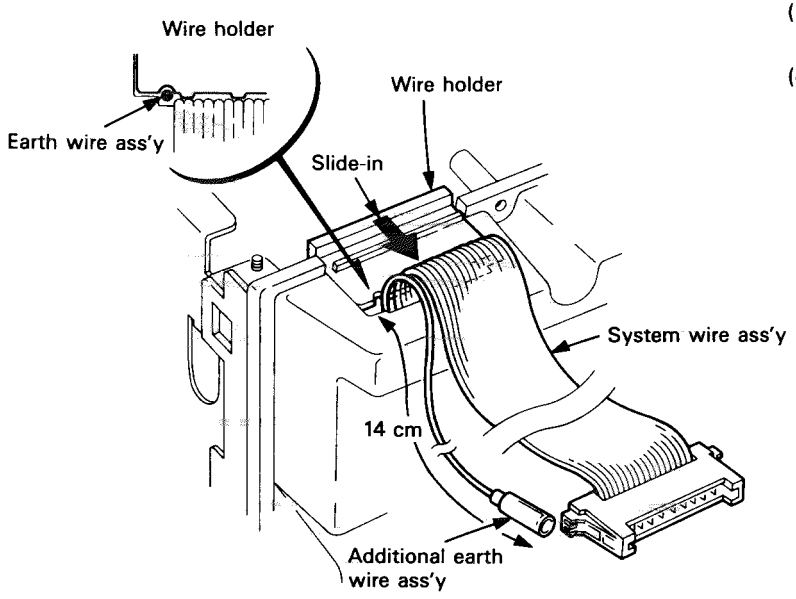


Fig. 6

⑧ The earth wire ass'y connected to the CD tuner section is drawn out together with the system wire as indicated in Fig. 7 below.

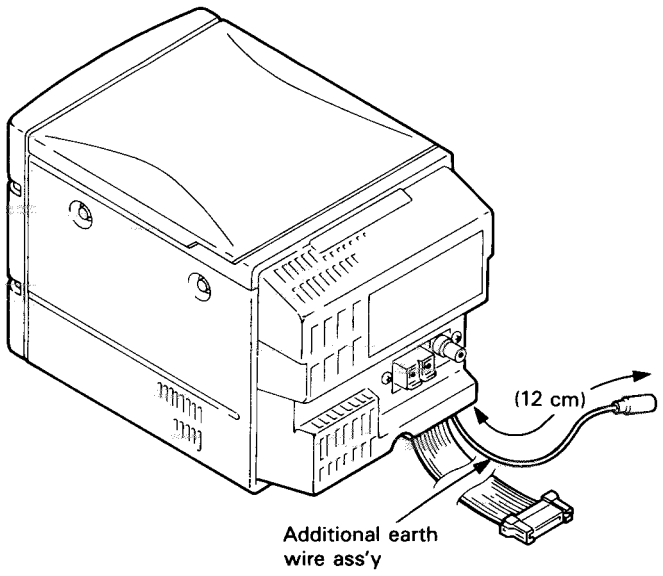


Fig. 7

(3) Addition of shield plate (Parts No. VMA4634-001) on the pattern face of tuner P.C. board.

(4) The ceramic condenser C90 (Parts No. QCSB1HJ-120) is added on the tuner P.C. board. Also, the ceramic condenser C12 (Parts No. QCSB1HJ-160Y) is changed to Parts No. QCSB1HJ-120Y).
For further details, refer to the tuner P.C. board diagram on page 63 (Fig. 12-1).

3. Main Features

1. **Disc-size micro component system consisting of 4 units**
2. **Radio data system (RDS)**
3. **2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability**
   - Seek/manual tuning.
   - Auto preset tuning.
4. **Active Hyper-Bass circuit for low-frequency sound reproduction**
5. **Sound mode control (BEAT, VOCAL, INSTR, ORIGINAL)**
6. **One touch operation (COMPU PLAY)**
   - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates the playback even when the power is set to STANDBY.
7. **35-key remote control unit opens and closes the motor-driven CD door, and operates the usual CD, cassette deck and tuner functions**
   - The remote control operates the power ON/OFF switching, volume control, bass/treble control, sound mode control, Active Hyper-Bass ON/OFF switching, and a variety of editing functions.
8. **Multi-function CD player**
   - Capable of auto-edit recording and programmed play.
9. **U-Turn auto-reverse full-logic mechanism with Dolby* B NR**
   - Auto tape select mechanism.
   - Metal (type IV) and CrO_2 (type II) tape can be played back for superior tone quality.
   - CrO_2 (type II) tape recording capability
   - Music scan in forward or reverse direction
10. **Timer/Clock function**
    - Timer on/off with preset volume function.
    - Wake-up volume setting with 50 different levels.
    - Sleep timer can be set for up to 120 minutes.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ⧈ are trade-marks of Dolby Laboratories Licensing Corporation.

4. Specifications

Compact disc player section

Type	:	Compact disc player
Signal detection	:	Non-contact optical pickup
Number of channels	:	2 channels
Frequency range	:	20 Hz – 20,000 Hz
Dynamic range	:	86 dB
Signal-to-noise ratio	:	86 dB
Total harmonic distortion	:	0.03 %
Wow & flutter	:	Less than measurable limit

Radio section

Frequency ranges	:	FM 87.5 – 108 MHz AM: (MW) 522 – 1,629 kHz (LW) 144 – 288 kHz
Antennas	:	Loop antenna for AM (MW/LW) External antenna terminal for FM (75 Ω)

Tape deck section

Track system	:	4-track 2-channel stereo
Motor	:	Electronic governor DC motor(capstan x 1, reel x 1)
Heads	:	Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)
Frequency response	:	50 – 15,000 Hz (with metal tape)
Wow and flutter	:	0.09 % (WRMS)
Fast wind time	:	Approx. 120 sec (C-60 cassette)

Speaker section (each unit)

Speaker	:	12 cm x 1 (Woofer) 5 cm x 1 (Tweeter)
Dimensions	:	160(W) x 251(H) x 203(D) mm
Weight	:	Approx. 2.2 kg

General

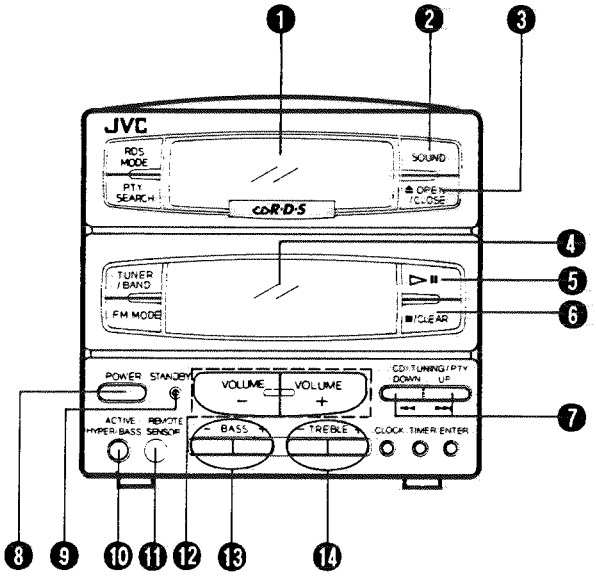
Power output	:	Max. 40 W (20 W + 20 W) at 4 Ω 28 W (14 W + 14 W) at 4 Ω (10 % THD)
Output jacks	:	Speaker x 2 (matching impedance 4 Ω – 16 Ω) Headphones (0 – 30 mW/32 Ω) (matching impedance 16 Ω – 1 kΩ)
Power supply	:	AC 240V, 50/60 Hz (UX-A55RB) AC 230 V ∿, 50/60 Hz (UX-A55R E/G/GI/EN) Ext. DC 12 V (car battery via optional CA-R120E car adapter)
Power consumption	:	68 W (with POWER SW ON) 4 W (with POWER SW STANDBY)
Dimensions	:	458.5(W) x 255(H) x 208(D) mm including knobs
Weight	:	Approx. 8.9 kg
Accessories provided	:	Remote control unit (RM-RXUA4) x 1 Battery "R6" x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2 Antenna adapter x 1

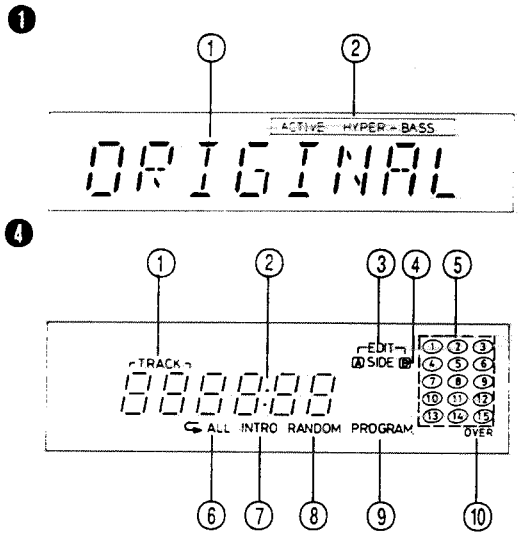
Design and specifications are subject to change without notice.

5. Instructions (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

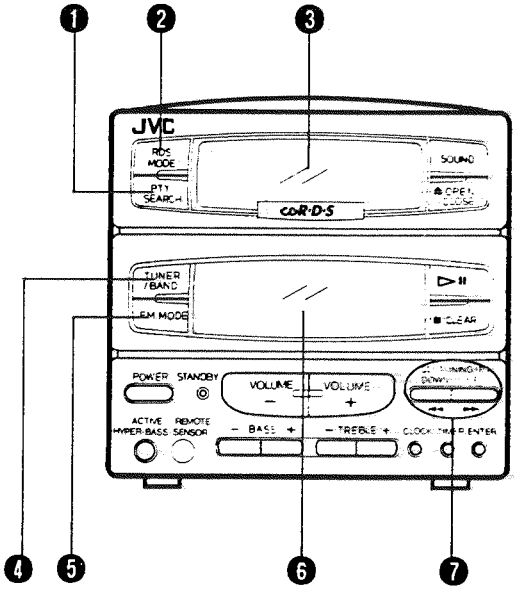
CD player/General section



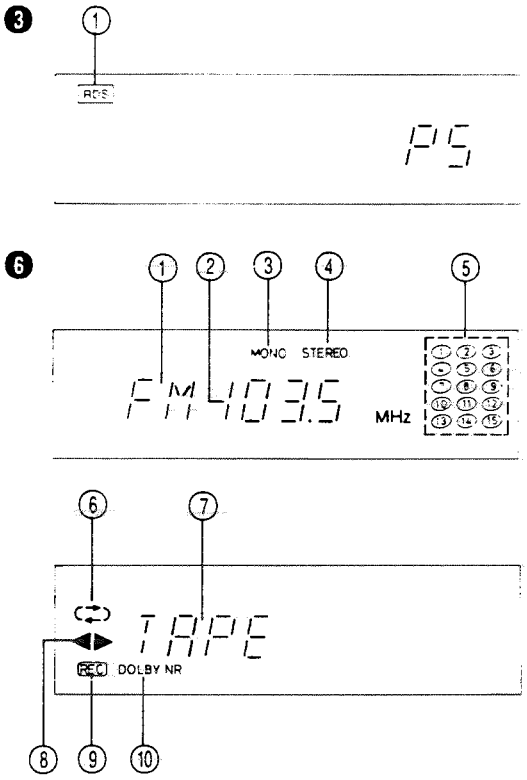


❶ Display window
  ① Sound mode display (ORIGINAL/BEAT/VOCAL/INSTR)
  ② ACTIVE HYPER-BASS indicator
❷ SOUND button
❸ CD door OPEN/CLOSE button (⏏)
❹ Display window
  ① Function/Track number display
  ② Playback time display
  ③ EDIT recording mode indicator
  ④ SIDE (A)/(B) indicator
  ⑤ Music calendar display
  ⑥ Repeat playback indicator
  ⑦ INTRO scan indicator
  ⑧ RANDOM playback indicator
  ⑨ PROGRAM mode indicator
  ⑩ OVER indicator
❺ Play/pause button (▷II):
Press to play a disc and to stop temporarily.
❻ Stop/CLEAR button (■):
Press to stop playing a disc and to cancel programmed playback. This also sets the CD mode.
❼ CD SEARCH buttons (⏮, ⏭):
Press to locate the beginnings of tunes and to start forward and reverse search operations.
❽ POWER button
Press to switch the power on or off.
❾ Power STANDBY indicator
❿ ACTIVE HYPER-BASS button
on: The ACTIVE HYPER-BASS indicator will light. Set to this position to listen to the ACTIVE HYPER-BASS sound.
off: The ACTIVE HYPER-BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS sound is not required.
⓫ REMOTE SENSOR section
⓬ VOLUME buttons
+: Use to increase the volume.
–: Use to decrease the volume.
(control range from VOL 0 to VOL 50)
⓭ BASS buttons (+,–)
(control range from –6 to 6)
⓮ TREBLE buttons (+,–)
(control range from –6 to 6)

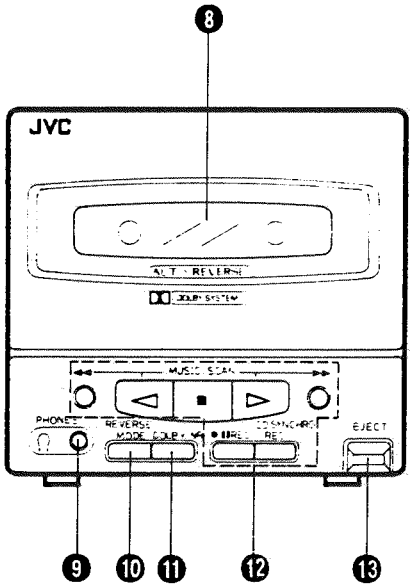
Tuner/Deck section



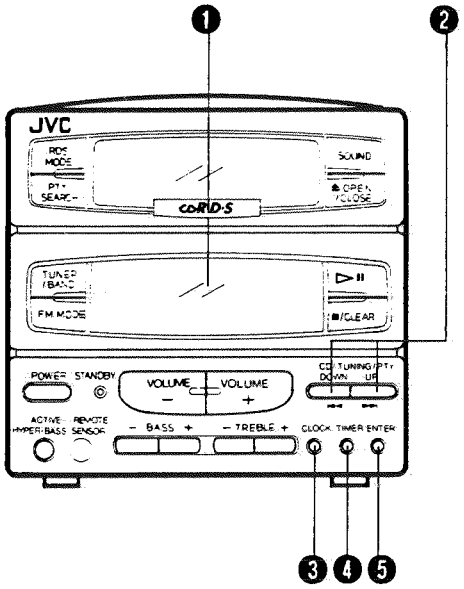
❶ PTY (Programme Type) SEARCH button
❷ RDS MODE button
❸ Display window for R.D.S
① RDS indicator
(See page.37).
❹ TUNER/BAND button
Press to select the tuner mode.
Press to select the band (FM/AM (MW/LW)).
❺ FM MODE button

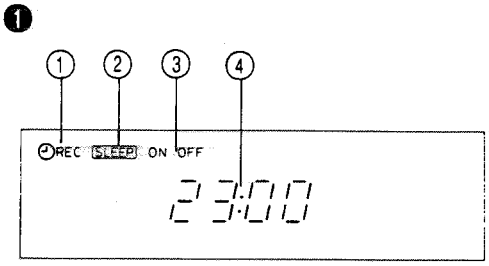


❻ Display window
① Band indicator (FM/AM (MW/LW))
② Radio frequency display
③ MONO indicator
④ STEREO indicator
⑤ Preset station display
⑥ Reverse mode indicator (⇄ / ⇉ /C⇉)
⑦ Tape mode display
⑧ Tape direction indicator (◄, ►)
⑨ Recording indicator (REC)
⑩ DOLBY NR indicator (DOLBY NR)
❼ TUNING/PTY button (UP/DOWN)
❽ Cassette holder
❾ Headphones jack (PHONES) (3.5 mm dia. stereo mini)
Connect headphones (impedance 16Ω - 1kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.
❿ REVERSE MODE switch
⇄ : For single-side recording or playback
⇉: For both-sides recording or playback
C⇉: For continuous play
⓫ DOLBY NR button
Set to ON when recording or playing back tapes using the noise reduction system.
⓬ Cassette operation buttons
◄◄ : Press to fast wind the tape from right to left/Music scan.
◁ : Press to play back the tape in the reverse direction.
■ : Press to stop the tape.
This also sets the TAPE mode.
▷ : Press to play back the tape in the forward direction.
►► : Press to fast wind the tape from left to right/Music scan.
●/II REC : Press to set the unit to the record or record-pause mode.
CD SYNCHRO REC : Press to start CD edit recording/ synchro recording.
⓭ EJECT button



Clock/Timer section





❶ Display window
① Timer mode indicator
② SLEEP indicator
③ Timer indicator (ON/OFF)
④ Time display
❷ UP/DOWN buttons
Set the time or timer setting.
❸ CLOCK button
Set the time and current time displays.
❹ TIMER button
Set the timer setting or timer ON/OFF (to reset or cancel the timer).
❺ ENTER button
Register the time or timer setting.

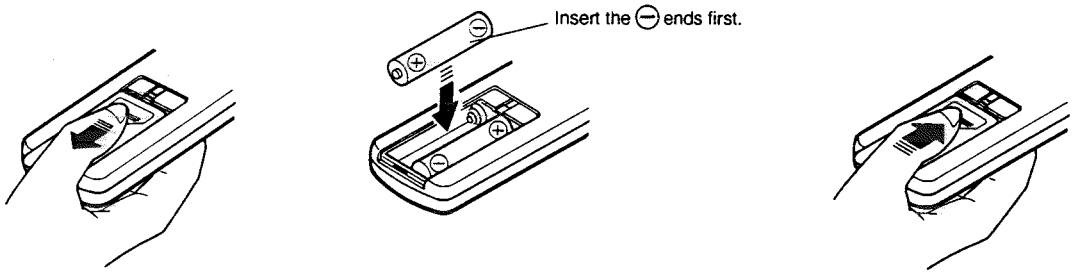
REMOTE CONTROL UNIT

Preparation before use

- **Installing batteries in the remote control unit**

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R6" size batteries.
   - Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.
3. Replace the cover.

- **Battery replacement**
When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

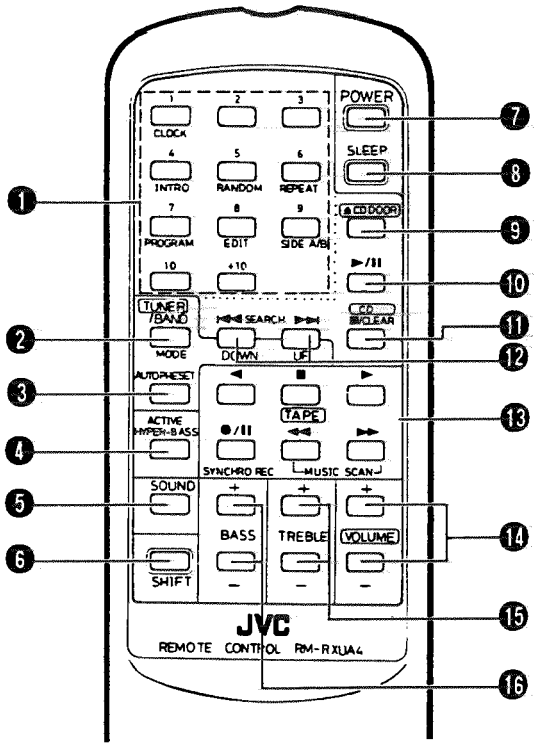


Using the remote control unit

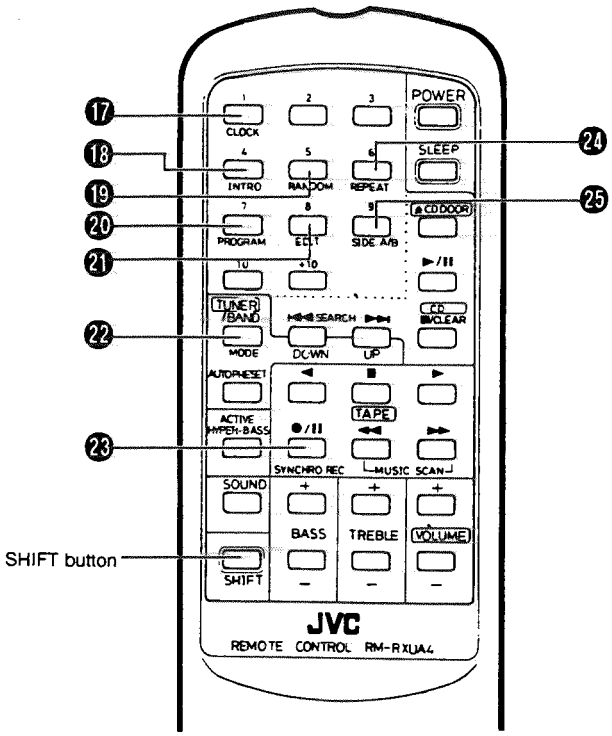
To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far much possible.
Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- **Check the functions of the operation buttons carefully and operate them correctly.**



Use the following buttons with the SHIFT button.



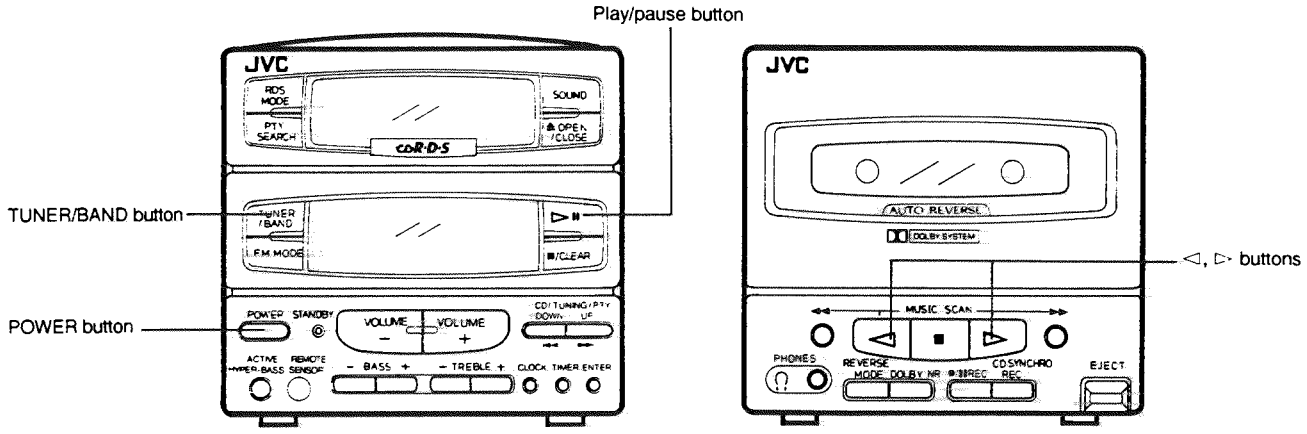
❶ Track (tune) number buttons (No.1 – No.10, +10)
Preset station buttons (No.1 – No.10, +10)
❷ TUNER/BAND button
❸ AUTO PRESET button
❹ ACTIVE HYPER-BASS button
❺ SOUND button
❻ SHIFT button
❼ POWER button
❽ SLEEP button
❾ CD DOOR button (≜)
❿ CD ►/II: CD mode/play/pause button
⓫ ■/CLEAR:stop/clear button
⓬ CD SEARCH/DOWN and UP button (I◄◄, ►►I)
- In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
- In the tuner mode, to tune to broadcasts.

⓭ Cassette operation buttons
◄ : Play button (reverse direction of tape)
■ : Stop button
► : Play button (forward direction of tape)
●/II : Record/Record-pause button
◄◄ : Fast wind (from right to left)/Music scan button
►► : Fast wind (from left to right)/Music scan button

⓮ VOLUME buttons (+,–)
⓯ TREBLE buttons (+,–)
⓰ BASS buttons (+, –)

Press the following buttons while holding down the SHIFT button ❻.
⓱ CLOCK button
Use to display a current time.
⓲ INTRO button
⓳ RANDOM button
⓴ PROGRAM button
㉑ EDIT button
㉒ MODE(STEREO AUTO/MONO) button
㉓ SYNCHRO REC button
㉔ REPEAT button
㉕ SIDE A/B button

SWITCHING THE POWER ON/OFF



Switching the power on/off

- Switching on:

STANDBY ◎ — The indicator goes out. — • The indicator in the display window lights.

- Switching off:

STANDBY –◎– — The indicator lights. — • The indicator in the display window goes out and only the clock is indicated.

COMPU PLAY

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

	Function mode	Operations
▷II	CD	When this button is pressed with a CD loaded, CD playback begins.
◁ or ▷	TAPE	When this button is pressed with a tape loaded, tape playback begins.
TUNER /BAND	TUNER	When this button is pressed, the tuner is engaged.

When the CD door OPEN/CLOSE button (≜) is pressed, the source sound does not switch over, the CD door can open or close.

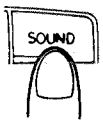
Notes:

1. When switching off the power, be sure to press the power button.
2. The COMPU PLAY button on the remote control has the same function as the UX-A55R.
3. When the CD door opens and the Play/pause (▷II) button is pressed, the CD door closes and the CD play starts.

Sound mode button

The UX-A55R has three preset sound modes (BEAT, VOCAL, INSTR). These modes can be selected to enhance the type of music being played.

- Press the SOUND button to select Sound mode.
  Each time the SOUND button is pressed, Sound mode changes as follows;



ORIGINAL (Original) → BEAT → VOCAL → INSTR (Instrument)

- When INSTR mode is selected, Active-Hyper Bass sound is automatically switched ON.

Sound mode selection
BEAT:
Set to this position for music with a heavy beat, such as rock or disco music.
VOCAL:
Set to "VOCAL" for popular or vocal music.
INSTR:
Select this position for background and instrumental music.

Note:
When the BASS or TREBLE button is pressed in any sound mode, ORIGINAL mode is selected automatically.

CONCERNING COMPACT DISCS

Since dirty, damaged and warped discs may damage the unit, care should be taken of the following:

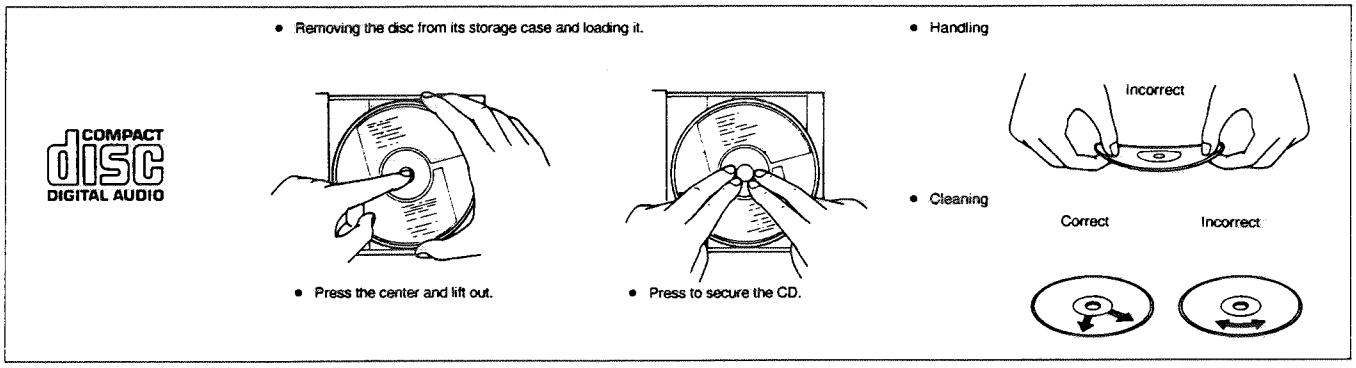
1. **Usable compact discs**
   Use compact discs with the mark shown.

2. **Notes on handling discs**
   - Do not touch the reflective recorded surface.
   - Do not stick anything to or write anything on the label side.
   - Do not bend compact discs.

3. **Storage**
   - After removing a disc from the unit, be sure to put it back in its case.
   - Do not expose discs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. **Cleaning discs**
   Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially, from the center to the edge.

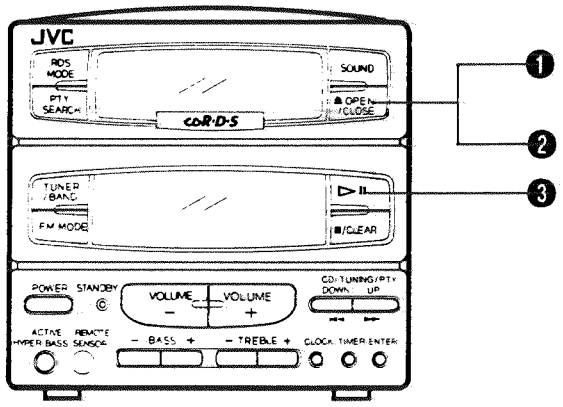
- **Never use thinner, benzine, record cleaner or antistatic spray.**



PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



❶ Press to open the CD door. (The power is switched on.)
❷ Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the ▷II button.)
❸ Press to start play.
- As tunes are played, their track numbers go out one by one.

- After loading a CD, simply press the ▷II button to switch on the power and start CD playback.

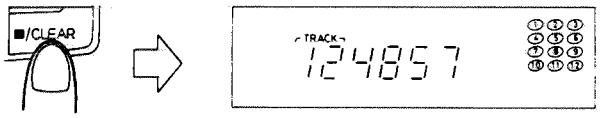
- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

Note:
When the CD door is closed by pressing the ▷II button, the CD starts as soon as the CD door is closed.

To stop play

- **To stop in the middle of a disc**
  During playback, press the ■/CLEAR button to stop play.

- The total number of tracks (tunes) and total playing time are displayed.



- **To stop a disc temporarily**
  Press the ▷II button to stop play temporarily and the playing time blinks. When pressed again, play resumes from the point where it was paused.

Caution:
- To change discs, press the ■/CLEAR button; check that the disc has stopped rotating completely before unloading it.

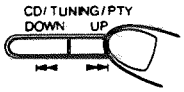
Notes:
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
  In such a case, check the disc and insert again after cleaning the disc or turning it over.

- **Do not use the unit at excessive high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

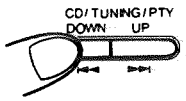
Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...
Press the ▶▶| button once to skip to the beginning of the next tune.

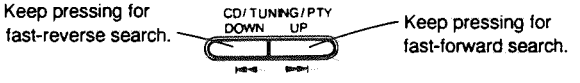


To listen to the previous tune ...
Press the |◀◀ button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.



Search playback (to locate the required position on the disc)

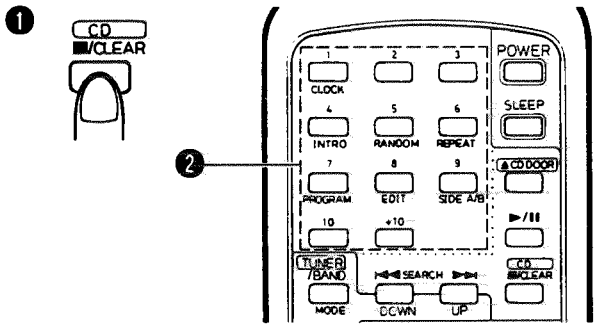
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ►/II button. (This function cannot be used during programmed play.)



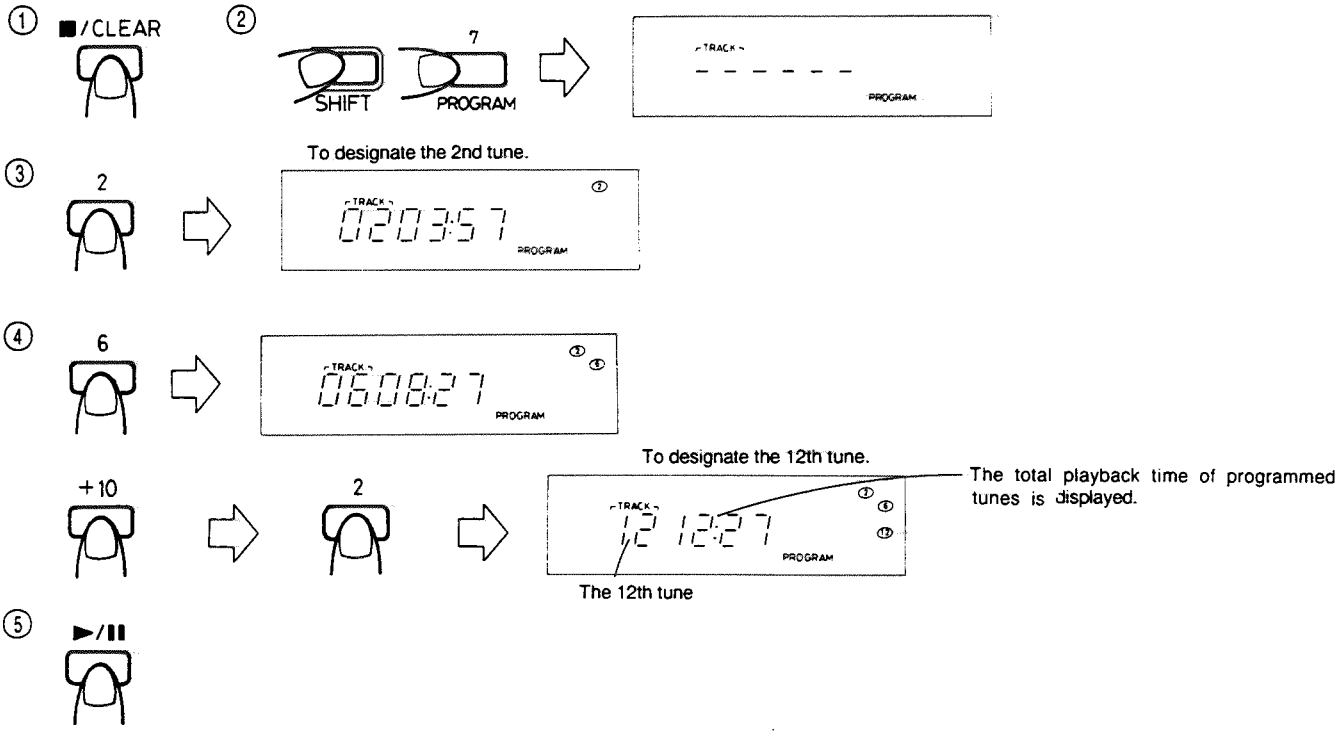
❶ Press the ■/CLEAR button to set to the CD mode.
❷ Designate the required tune using the track number buttons.
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button. (Example: To designate the 20th tune, press the +10 button once, then press track number button 10.)

* +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

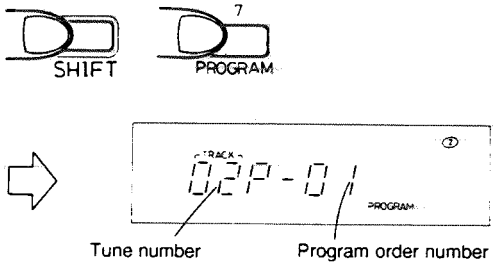
- Up to 20 tunes can be programmed to be played in any required order.
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)



① Press the ■/CLEAR button.
② Press the PROGRAM button while pressing the SHIFT button to set to the programming mode.
③ Press to designate the required track number.
④ Designate the remaining tunes by pressing the track number buttons.
⑤ Press the ►/II button when programming is completed. Programmed playback starts.

To clear the programmed tunes ...
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

To confirm the details of a program...
Press the PROGRAM button while pressing the SHIFT button; the tunes making up the program will be displayed in programmed order.

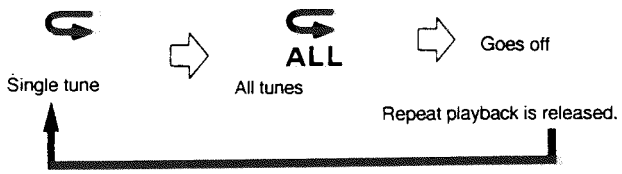


Notes:
1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2. Programming 21 or more tunes is impossible.
3. When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
4. When a track number that is higher than 21 is programmed for a disc which contains more than 21 tunes, the track No. is displayed, however, "– –:– –" is shown in the total playback time.
5. When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

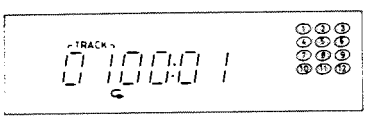
Repeat play (using the remote control)

Press the REPEAT button while pressing the SHIFT button before or during play. A single tune or all the tunes can be repeated.

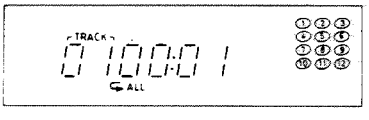
Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed while pressing the SHIFT button, the mode will change from a single tune (⇆), to all the tunes (⇆ ALL), to the clear mode, in this order.



- **Repeat playback of a single tune (⇆)**
  The tune being played back will be heard repeatedly.

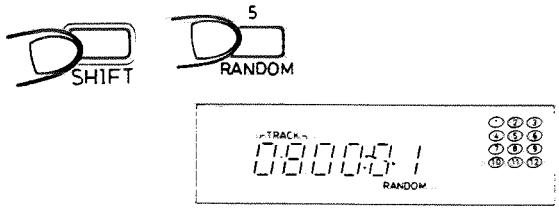


- **Repeat playback of all tunes (⇆ ALL)**
  When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



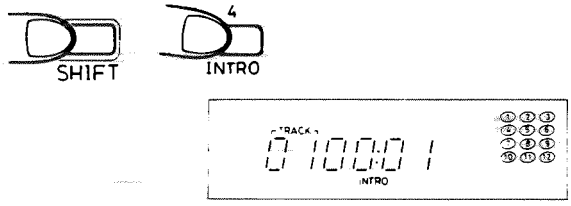
Random playback (using the remote control)

Press the RANDOM button while pressing the SHIFT button, all tunes on a disc are played once, in random order.



INTRO scan operation (using the remote control)

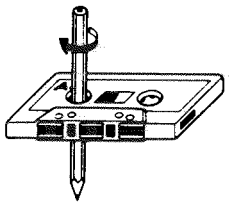
- Simply press the INTRO scan button while pressing the SHIFT button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune while pressing the SHIFT button, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again while pressing the SHIFT button and normal playback (or programmed playback) will resume.

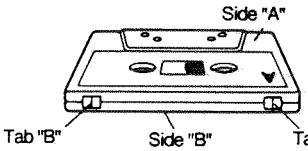


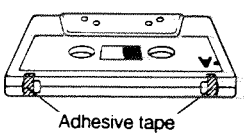
CASSETTE TAPE

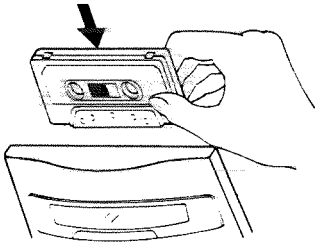
Cassette tape
1. Loose tape may cause trouble. With a pencil, gently tighten the tape as shown.
2. To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver. Reseal the slots with adhesive tape to erase and re-record after the tabs have been broken off.

Cassette loading
1. Press the EJECT button to open the cassette holder.
2. Load a cassette as shown.
3. Close the cassette holder by pressing it gently. Listen for the click that tells you that you've closed the holder securely.


Turn the pencil to tighten the tape.



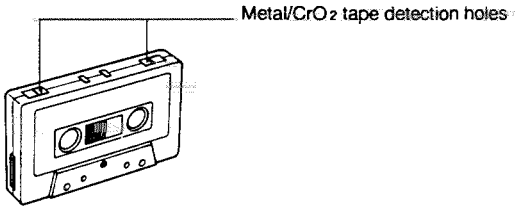




Note:
If the power is switched off while a tape is running, it may be impossible to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.

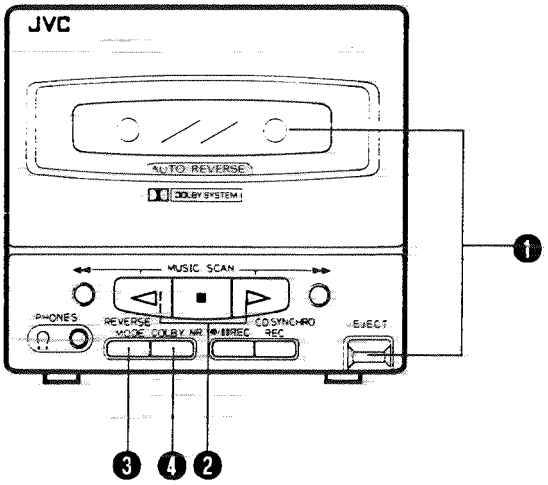
Auto tape select mechanism
This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using holes in the cassette. After the type of tape has been detected, bias and equalization are set to be suitable for the tape.

- Cassettes with detection holes:
  Metal tape (EQ: 70 µs) ..... Type IV
  CrO_2 (chrome) tape (EQ: 70 µs)..... Type II
- Cassettes without detection holes:
  Normal tape (EQ: 120 µs)..... Type I



CASSETTE PLAYBACK

Operate in the order shown



❶ Load a cassette tape with side A facing out.
❷ Press to start playback. (The power is switched on and the TAPE mode is engaged to start the tape playback.)
❸ Select the reverse mode (⇄ / ⇉ /C⇄).
❹ Set the DOLBY NR switch as required.

- After loading a cassette tape, simply press the ◁ or ▷ button. The power is switched on and the tape starts playback.

- When the tape is played back with the reverse mode set to the ⇄ (single side play) or ⇉ (both side play) mode, the tape stops automatically at the end of tape after playing one side or both sides. When the reverse mode is set to the C⇄ (continuous play) mode, the tape continuously plays one side after the other until you stop operation.

Music scan

- The beginning of the current tune or the next tune can be located using the music scan facility.

① Press the ▷ or ◁ button for tape playback.
② Press the ►► or ◄◄ button for music scan.

The tape direction indicators blinks during music scanning.

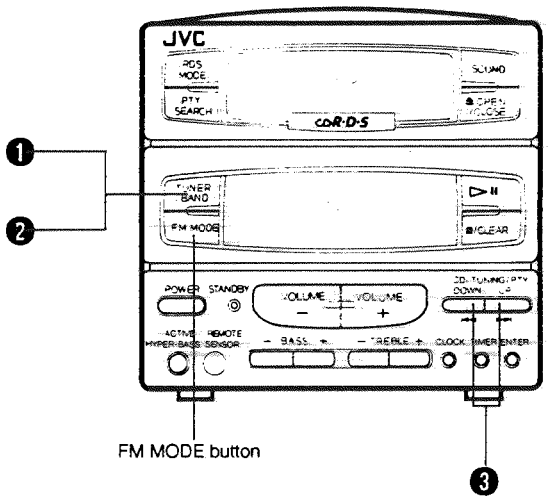
	• To the start of the next tune	• To the start of the tune being played back
(Forward (▷) direction playback)	►►	◄◄
(Reverse (◁ direction playback)	◄◄	►►

③ When music scanning is completed, playback will start automatically.
  - To skip two tunes or more, repeat the above steps ② and ③.

Notes:
With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use the Music Scan facility only with suitable tapes.
- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

RADIO RECEPTION

Operate in the order shown



❶ Press the TUNER/BAND button.
- The power is switched on and a band and radio frequency will be shown in the display.

❷ Select the band (FM or AM (MW/LW)).

❸ Tune to the required station.

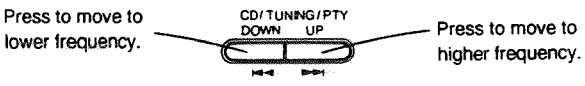
FM MODE button

Auto mode:
Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:
Set to this position when FM stereo reception is noisy. When another station is tuned to in the MONO mode using the TUNING UP/DOWN or AUTO PRESET button, the unit automatically enters Auto mode.

- **Seek tuning**
  Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.
  In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- **Manual tuning**
  Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).
  In AM operation, the frequency moves continuously from the MW (522 - 1,629 kHz) to the LW (144 - 288 kHz) band and vice versa.



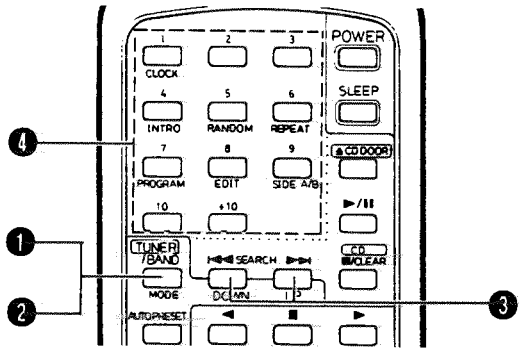
Notes:
- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

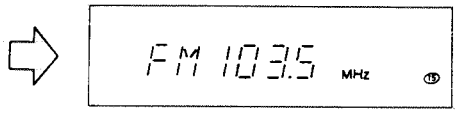
Auto preset tuning (using the remote control unit)

This function scans the current band (FM or AM (MW/LW)), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.
- Press the AUTO PRESET button. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency.(15 stations in each band (FM and AM (MW/LW)).

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:
- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")





❶ Press the TUNER/BAND button.
❷ Select the FM band using the TUNER/BAND button.
❸ Tune to the required station.
❹ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM (MW/LW) band.

- **To change preset stations**
  Perform step ❹ above after tuning to the required station.

Notes:
- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, preset them again.

Preset tuning (using the remote control unit)

① Press the TUNER/BAND button
② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
③ Press the required preset station buttons (No.1 – No.10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

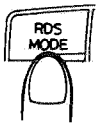
FM: Connect the provided FM feeder antenna (see page 7).
AM (MW/LW): Adjust the position of AM (MW/LW) loop antenna.

RDS (Radio Data System)

Receiving FM Stations With RDS (Radio Data System)

RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names, and information about which type of programme they broadcast, such as sports or music, etc. When tuned to an FM station which provides the RDS service, the RDS indicator lights up, then the station name if sent is displayed.

What Information Can RDS Provide?
With the UX-A55R, you can read three types of RDS service on the display.
To show them on the display, press the RDS MODE button. Each time you press the button, the display changes to show the following information: these are the three RDS services.



PS (Programme Service):	While searching, "PS" appears and then station names commonly known will be displayed. "NO PS" appears if no signal is sent.
PTY (Programme Type):	While searching, "PTY" appears and then types of broadcast programmes. "NO PTY" appears if no signal is sent.
RT (Radio Text):	While searching, "RT" appears and then text messages the station sends. "NO RT" appears if no signal is sent.

PTY (Programme Type) codes

Descriptions of the PTY Codes and TRAFFIC Display

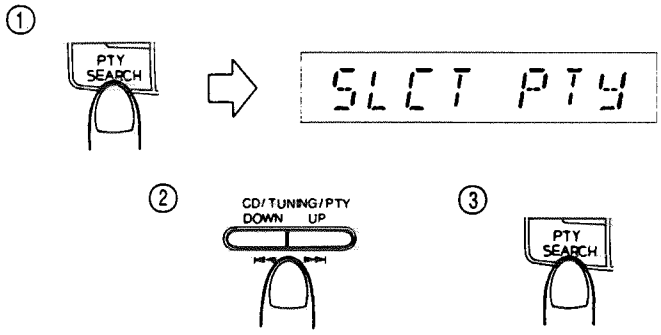
With the UX-A55R, you can receive the following PTY and TRAFFIC signals.

NEWS:	News
AFFAIRS:	Topical programme expanding on the current news or affairs
INFO:	Programmes on medical service, weather forecasts, etc.
SPORT:	Sports events
EDUCATE:	Educational programmes
DRAMA:	Radio plays
CULTURE:	Programmes on national or regional culture
SCIENCE:	Programmes on natural sciences and technology
VARIED:	Other programmes like comedies or ceremonies
POP M:	Pop music
ROCK M:	Rock music
M.O.R.M:	Middle-of-the-road music (usually called "easy listening")
LIGHT M:	Light music
CLASSICS:	Classical music
OTHER M:	Other music
ALARM:	Emergency broadcasts
TRAFFIC:	Broadcasts which carry traffic announcements

Searching For a Programme by PTY Code or TRAFFIC

One of the advantages in the RDS service is that you can locate a particular kind of programme by specifying the PTY code.

To search for a programme using PTY codes, follow this procedure:



① Press the PTY SEARCH button. "SLCT PTY" appears.
② Select the PTY code with the PTY (UP/DOWN) button.The PTY code or TRAFFIC is shown on the display.
- Each time you press the button, the display gives you the following:
  NEWS ↔ AFFAIRS ↔ INFO ↔ SPORT ↔ EDUCATE ↔ DRAMA ↔ CULTURE ↔ SCIENCE ↔ VARIED ↔ POP M ↔ ROCK M ↔ M.O.R.M ↔ LIGHT M ↔ CLASSICS ↔ OTHER M ↔ ALARM ↔ TRAFFIC ↔ NEWS

③ Press the PTY SEARCH button again.
- While searching, the display alternates between "SEARCH" and the selected PTY code.
- The unit searches 15 preset stations and stops when it finds the one you have selected. If no programme is found, the unit returns to and stops at the preset station from which the search has begun and "NOT FOUND" appears on the display.

- If you select TRAFFIC, the unit will stop searching when it finds a broadcast carrying traffic announcements. However, this does not necessarily mean that you can listen to a traffic announcement at that time. Rather it means that you will get it when it is broadcast.

RECORDING

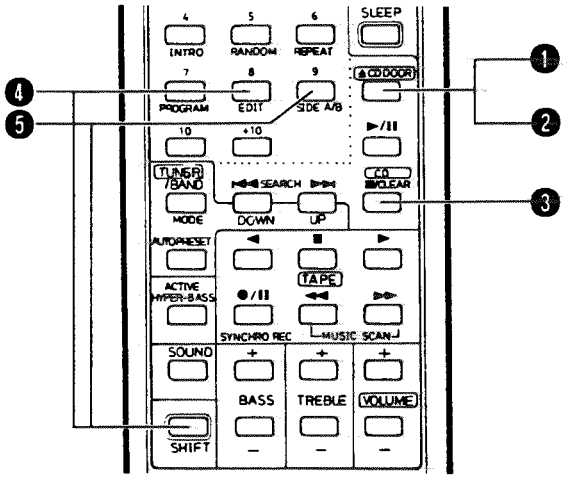
- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

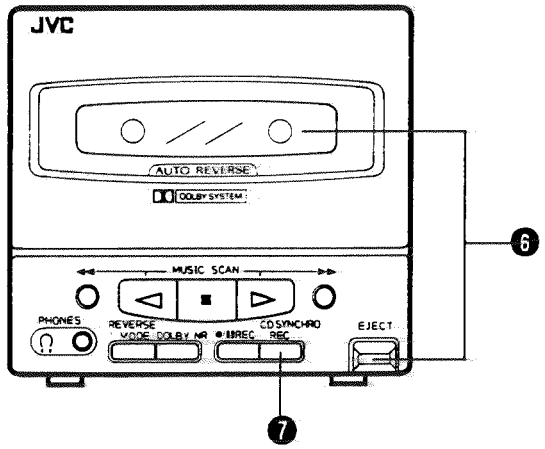
Notes:
This unit has recording characteristics suitable for normal and CrO_2 tapes. Normal and CrO_2 tapes have different characteristics from metal tape.

CD edit recording (for CDs with up to 20 tunes)

- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

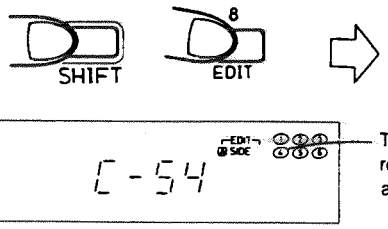
Operate in the order shown



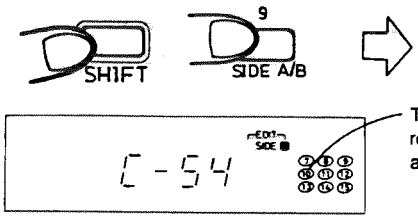


❶ Press to open the CD door. (The power is switched on.)
❷ Load a disc and press to close the CD door.
❸ Set to the CD mode.

❹ Press the EDIT button while pressing the SHIFT button.



❺ Press the SIDE A/B button while pressing the SHIFT button.



❻ Insert a cassette with a suitable length (recording time) with side A facing out.
- The tape length can be set from the remote control. (See below.)

❼ Press the CD SYNCHRO REC button to start CD edit recording.
- Recording starts in the forward direction (on the side facing out).
- During edit recording, the leader tape section (approx first 10 sec.) is wound automatically and then recording starts. The reverse mode is set to ⇄ mode automatically.

- The tape stops automatically when the CD has been played.

- **To change the tape length (recording time)**
When the EDIT button is pressed while pressing the SHIFT button with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90).
At this time, the displayed tape length can be changed by pressing the track number buttons.

Example: To change to C-50
Press the +10 button four times, and within 10 seconds, press the 10 button.
When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.
Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

- **When editing a disc with 16 to 20 tunes**
CD editing can be used to record discs containing up to 20 tunes, however, the music calendar shows up to only 15 tunes.
As the 16th to 20th tunes will not appear in the music calendar display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

- **Set the DOLBY NR as required. The DOLBY NR indicator lights.**

Note:
The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

Notes:
- When a disc with 21 tunes or more is loaded, "C—" will appear in the display. In such a case, set the required tape length using the track number buttons on the remote control.
- In CD edit recording blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

When automatic spacing between tunes is not required ...
Perform the following.
1. Press the ▷II button of the CD player twice. The CD Player enters the pause mode.
2. Press the CD SYNCHRO REC button to start recording.

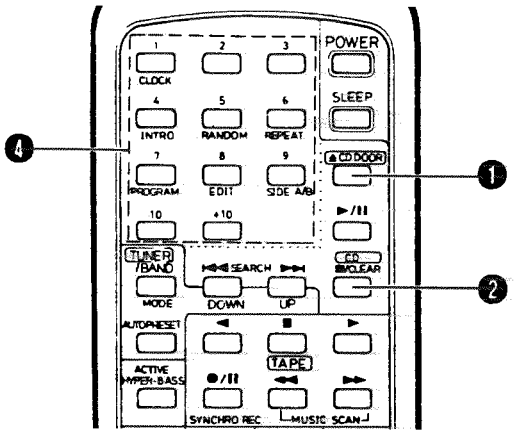
Note:
- Depending on the disc used, blanks of a specified length may be left between tunes

- **After use**
  Press the ■/CLEAR button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is open.)

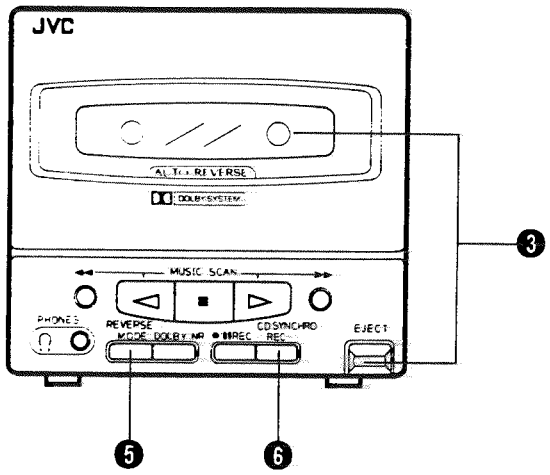
Synchronized recording with the CD player

- In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown



❶ Load a disc and close the CD door. (The power is switched on.)
❷ Set to the CD mode.
❸ Load a cassette with side A facing out. (Wind past the leader tape before starting recording.)
❹ When programmed playback is required, program the required tunes using the remote control. (See page 27.)
- Select tunes with a total playing time which does not exceed the tape length.



❺ Select the required reverse mode (⇄ or →).
❻ Press the CD SYNCHRO REC button; synchronized recording will start.

- Recording starts in the forward direction and CD play starts automatically.

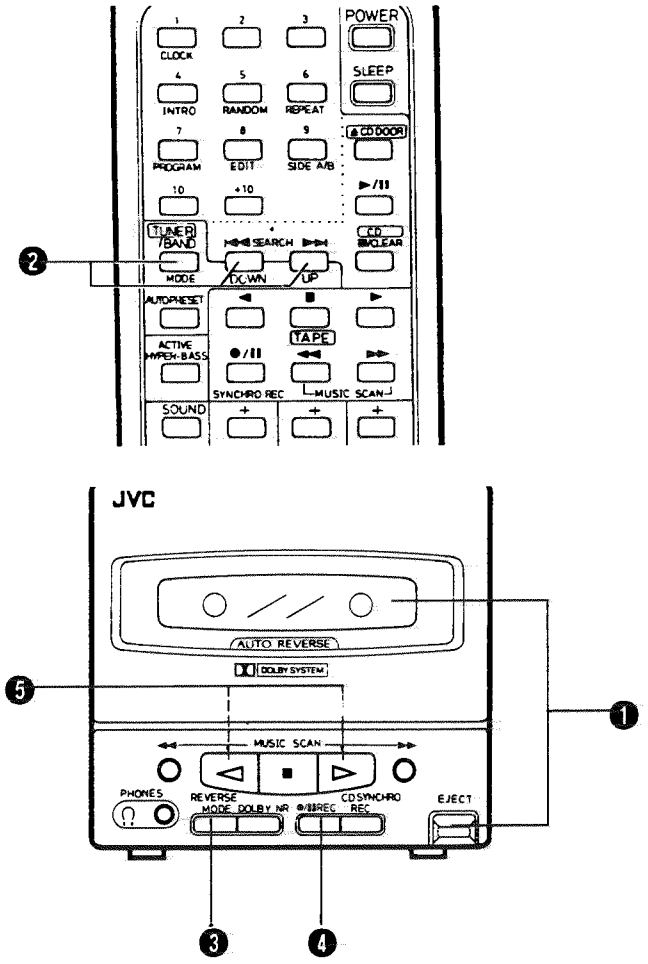
- When the CD player has played the disc or programmed tunes, the deck stops automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the ■ (stop) button of the cassette deck.

- **CD complete recording function (Synchro recording mode only)**
  If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:
  * When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous tune.
  * When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current tune.
- **To record an entire disc in the tune order of the CD**
  After the operations in steps ❶ - ❸ above, press the ▷II button of the CD player after the ●/II REC and ▷ buttons have been pressed.

Note:
- During CD edit recording and synchro recording, the ▷II and SEARCH (I◄◄, ►►I) buttons do not function.

Recording from the radio

Operate in the order shown



❶ Load a cassette with side A facing out.
(Wind past the leader tape before starting recording.)
❷ Press the TUNER/BAND button. Tune to the required station.
❸ Select the required reverse mode (⇄ or ⇄).
❹ Press the ●/❚❚ REC button (recording-pause mode).
- The tape direction indicator (◄►) blinks.
- The function switch is locked and its position cannot be changed.

❺ Press to start recording.

- To stop recording temporarily, press the ●/❚❚ REC button. To resume recording, press the > or < button corresponding to the tape direction indicator which is blinking.

It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.

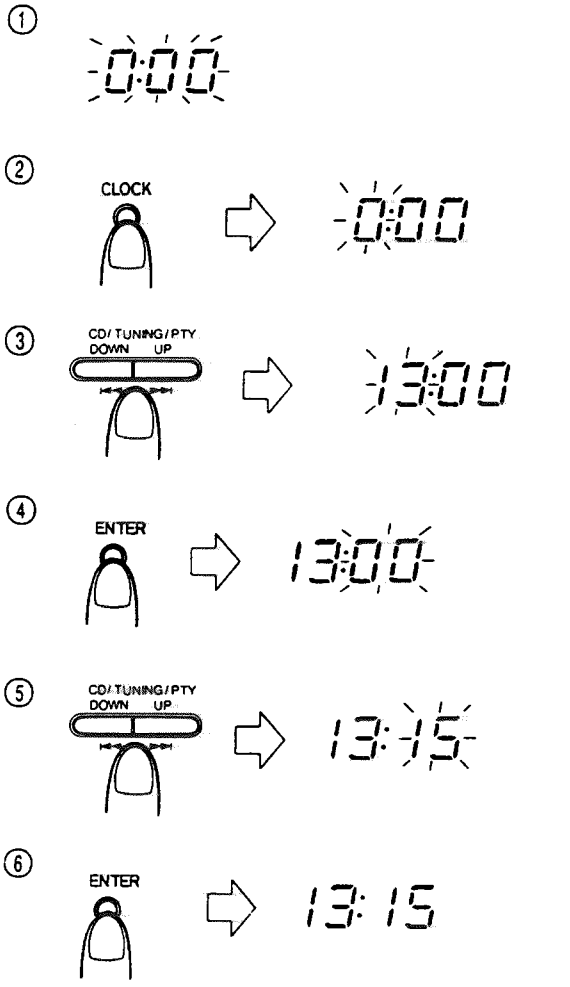
Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.
To erase a tape without making a new recording...
Press the ■ (stop) button to set to the TAPE mode, then perform recording.

CLOCK/TIMER ADJUSTMENT

Setting the current time (when the UX-A55R is used for the first time)

(Example: to set the clock to 13:15.)



① Connect the AC power cord; "0:00" will blink in the display.
② Press the CLOCK button for 2 sec. or more; the hour's digits will blink.
③ Set to 13:00 by pressing the UP/DOWN buttons. (When the buttons are kept pressed, the time indication changes continuously.)
④ Press the ENTER button; the minute's digits will blink.
⑤ Set to 13:15 by pressing the UP/DOWN buttons.
⑥ Press the ENTER button; the time will light in the display.

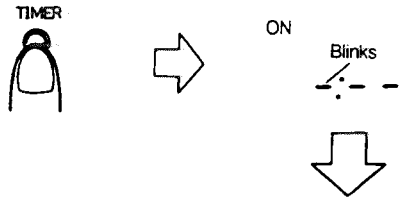
- To set to the nearest second...
Press the ENTER button when you hear the time signal from a TV or radio.

Notes:
- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, clock display will blink or light in the display. Set the current time again.

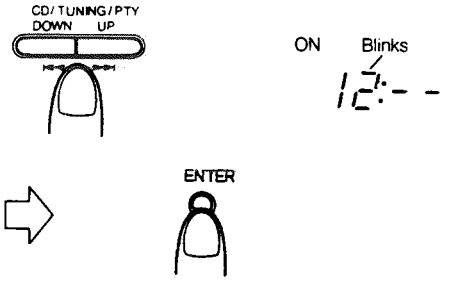
Setting the timer

- The current time must be set before the timer can be used.

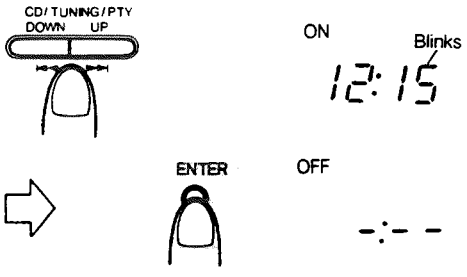
❶ Press the TIMER button.



❷ Set the start time.
(Example: when the timer start time is set to 12:15.)
① Adjust the hours.



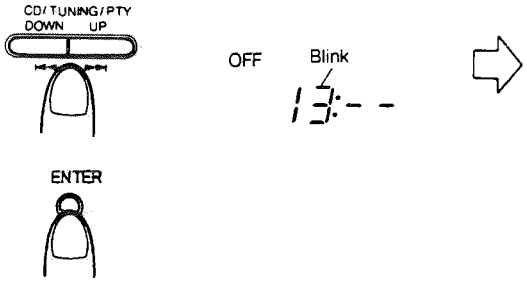
② Adjust the minutes.



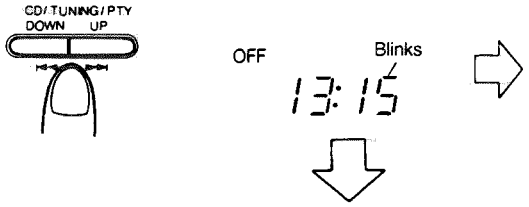
- Press to set the start time.

❸ Set the stop time.
(Example: when the timer stop time is set to 13:15.)

① Adjust the hours.

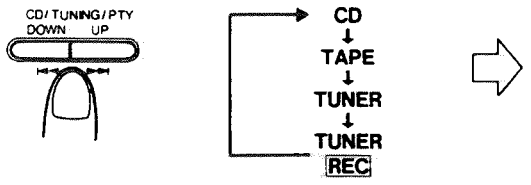


② Adjust the minutes.



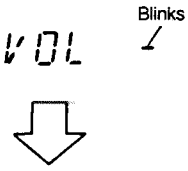
- Press to set the timer off time.

❹ Select the TIMER mode.

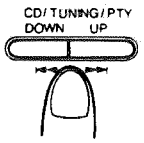


- The selected timer mode is shown in the display.

When the UP button is pressed to select the timer mode, the mode changes from the CD (timer playback of a CD), TAPE (timer playback of a tape), TUNER (timer reception of a broadcast) to TUNER/REC (timer recording of a broadcast), in this order.



❺ Set the volume.

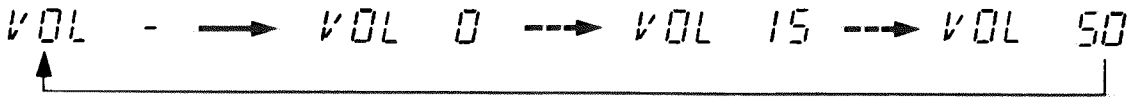


This shows when volume level 1 is selected.

- The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume.



The volume decreases to zero at the timer start time, and the sound fades in.

- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is set to that before setting the timer.
- The unit enter the previously engaged mode and timer setting is complete.

- **To check the timer setting**

1. Press the TIMER button.
2. Press the ENTER button to check the timer mode.
3. When the previous engaged mode is displayed, timer setting has been completed.

Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "-:--" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to "-:" using the UP button and press the ENTER button.

TIMER OPERATIONS

Timer recording of broadcast

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

Operations

1. Set the POWER button to ON.
2. Load a cassette.
   - Insert the cassette with the side to be recorded facing out.
   - Set the reverse mode button to " ⇄ " or " → " and set the DOLBY NR button as required.
3. Set the timer start and stop times, set the timer recording mode, then set the required volume, in this order. (Refer to "Setting the timer" on page 47.)
   - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
4. Tune to the station to be recorded. (Refer to page 34.)
5. Set the POWER button to STANDBY.

- **Timer recording will start at preset start time and the power will be switched off at preset stop time.** (The timer mode is then released.)

- **To cancel timer operation**
  Press the TIMER button so that the timer mode indicator (🕘) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

1. Set the POWER switch to ON.
2. Set the timer start and stop times, set the timer playback mode, then set the volume, in this order. (Refer to "Setting the timer" on page 47.)

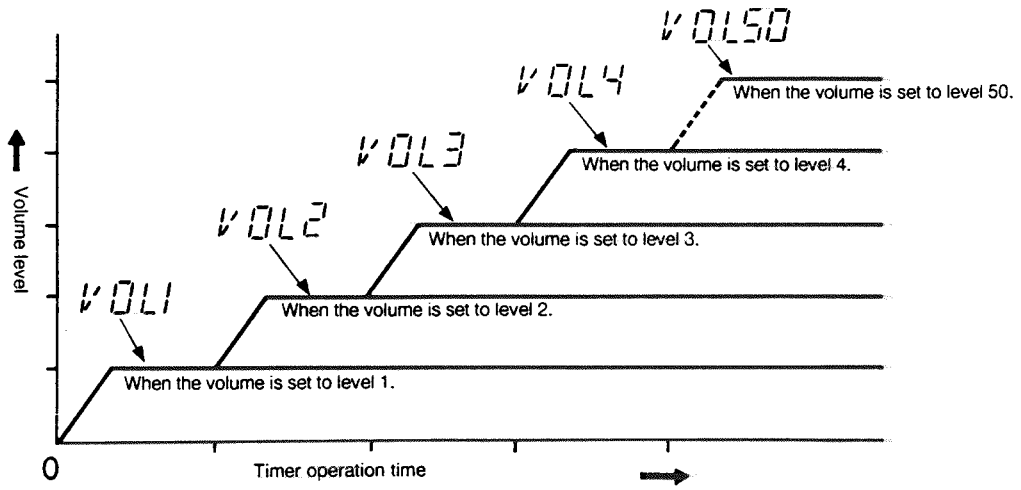
Source sound	Timer mode	Operations
CD play	CD	Load a disc.
Tape playback	TAPE	Load a cassette tape.
Broadcast	TUNER	—

- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 50 different levels.

3. Tune to the required frequency when the timer playback of a broadcast is to be performed.
4. Switch the power off.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time.
  The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Volume setting and fade-in operation



- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

- **To cancel timer operation**
  Press the TIMER button so that the timer mode indicator (🕘) disappears.

Notes:
- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is set to that before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.

SLEEP OPERATIONS

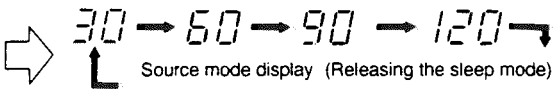
(Using the remote control unit)

A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

① Set to the required source and tune or playback (CD or tape).

② Press the SLEEP button to set to the sleep time.

SLEEP is shown in the display.



- Sleep times of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 10 sec.

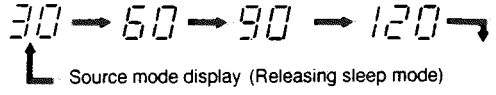
- The sleep operation will start and the power will be switched off after the specified time.

- **Checking the sleep time**
  When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- **To cancel the sleep operation**
  Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

B. To fall asleep while listening to a broadcast or CD and to perform timer playback the following morning

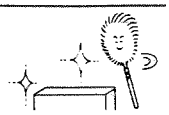
1. Set the timer playback start and stop times. (See the "Setting the timer" on page 47.)
2. Set the timer mode and volume. (See "Setting the timer" on page 47.)
3. Set to the required source (broadcast, tape or CD).
4. Press the SLEEP button to set the sleep time.



- Any required source can be selected when performing the sleep operation and time playback. For example;
  - CD play for sleep operation and broadcast reception for timer playback.
  - Tape playback for sleep operation and CD play for timer playback.

  However, when broadcast reception is selected for both sleep operation and timer playback, the station you were listening to at night will be tuned to the following morning.

MAINTENANCE

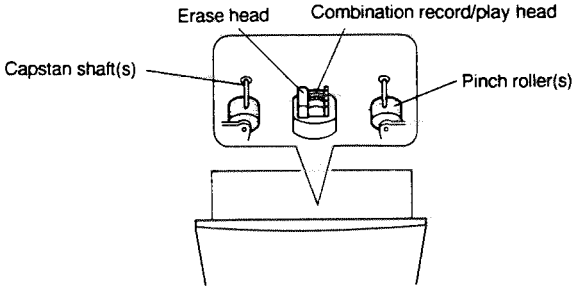


Cleaning is important!
When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty ...
- sound quality deteriorates
- the output sound level drops
- the previous sound is not completely erased
- recording is not performed satisfactorily.

Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording is possible.

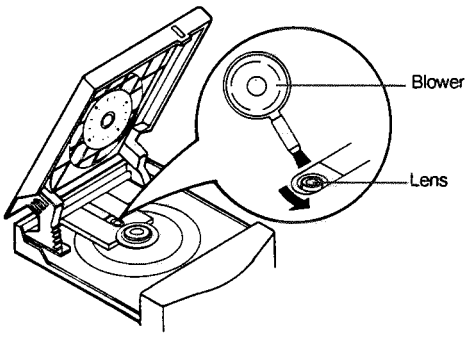
Cleaning the heads, capstan and pinch roller

Open the cassette holder.
Clean the heads, pinch roller and capstan.
For effective cleaning, use a cleaning kit available from an audio store.
After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

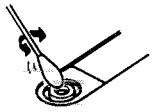


Cautions:
1. Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tone will deteriorate. Demagnetize the head every 20 - 30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY).
2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

Cleaning the lens
If the lens in the CD pickup is dirty, this could degrade sound.
Open the disc holder and clean the lens as shown.
- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



TROUBLESHOOTING

What appears to be trouble is not always serious. Make sure first ....

1. **Power cannot be turned on.**
   * Is the power cord unplugged?
2. **No sound from the speakers.**
   * Are headphones connected?

- CD Player Section

3. **The CD player does not play.**
   * Is the disc upside down?
   * Is the disc dirty?
   * Is the lens dirty?
4. **A certain portion of the disc does not play correctly.**
   * Is the disc scratched?

- Cassette Deck Section

5. **Playback sound is at a very low level.**
   * Is the head dirty?
6. **The ●/II REC button does not function.**
   * Have the safety tabs of the cassette been broken off?

- Tuner Section

7. **Reception is noisy.**
   * Try adjusting the antenna.

- Timer Section

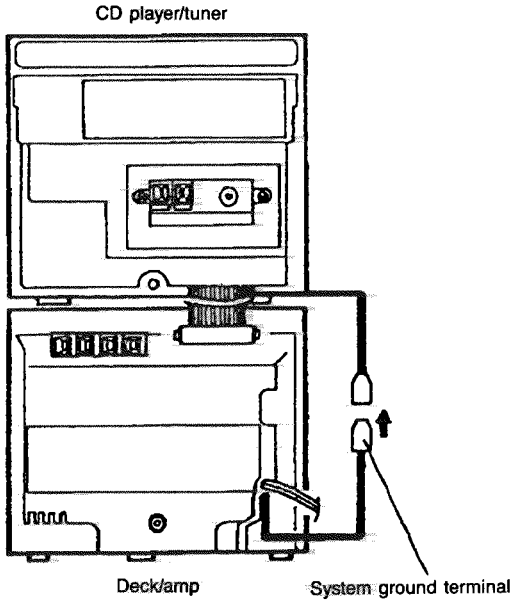
8. **Timer operation does not start.**
   * Is the current time set correctly?
   * Is the timer mode displayed?

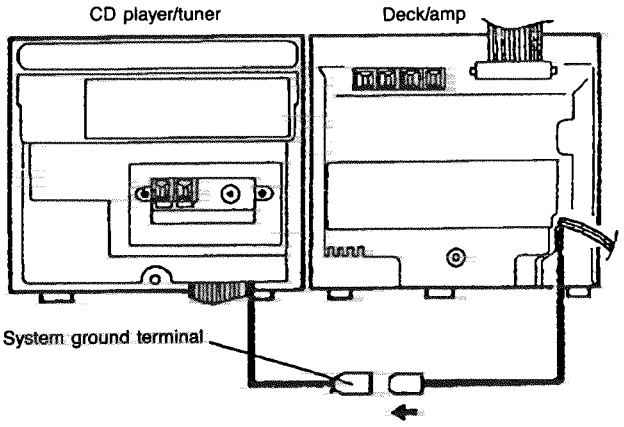
- Remote Control

9. **Remote control is impossible.**
   * Are the batteries in the remote control exhausted?
   * Is the REMOTE SENSOR section exposed to bright light (direct sunlight, etc.)?

Note:
Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

CAUTION: To prevent malfunction, connect the system ground terminal as illustrated below. (G/GI version only)





6. Location of Main Parts

■ Tape Deck/Amplifier Section

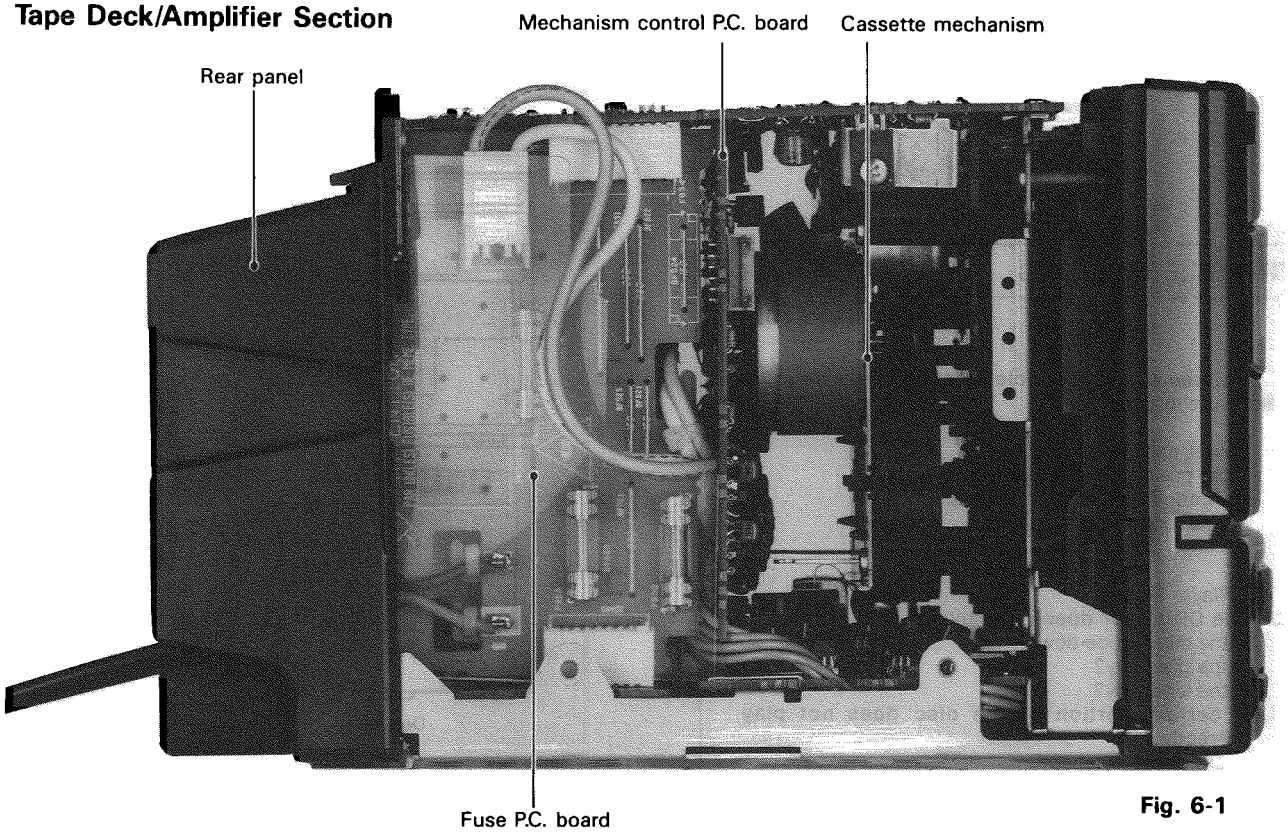


Fig. 6-1

■ CD/Tuner Section

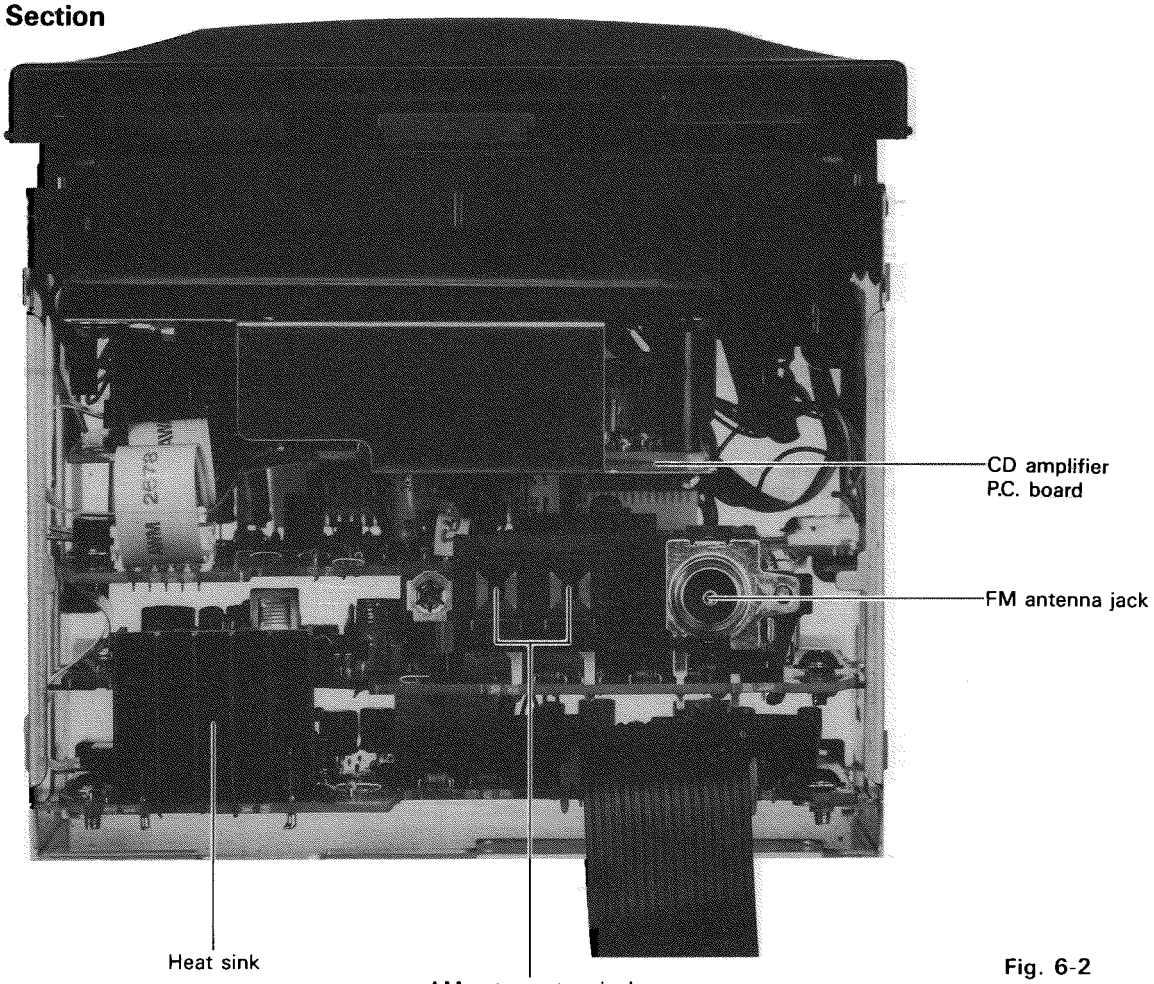


Fig. 6-2

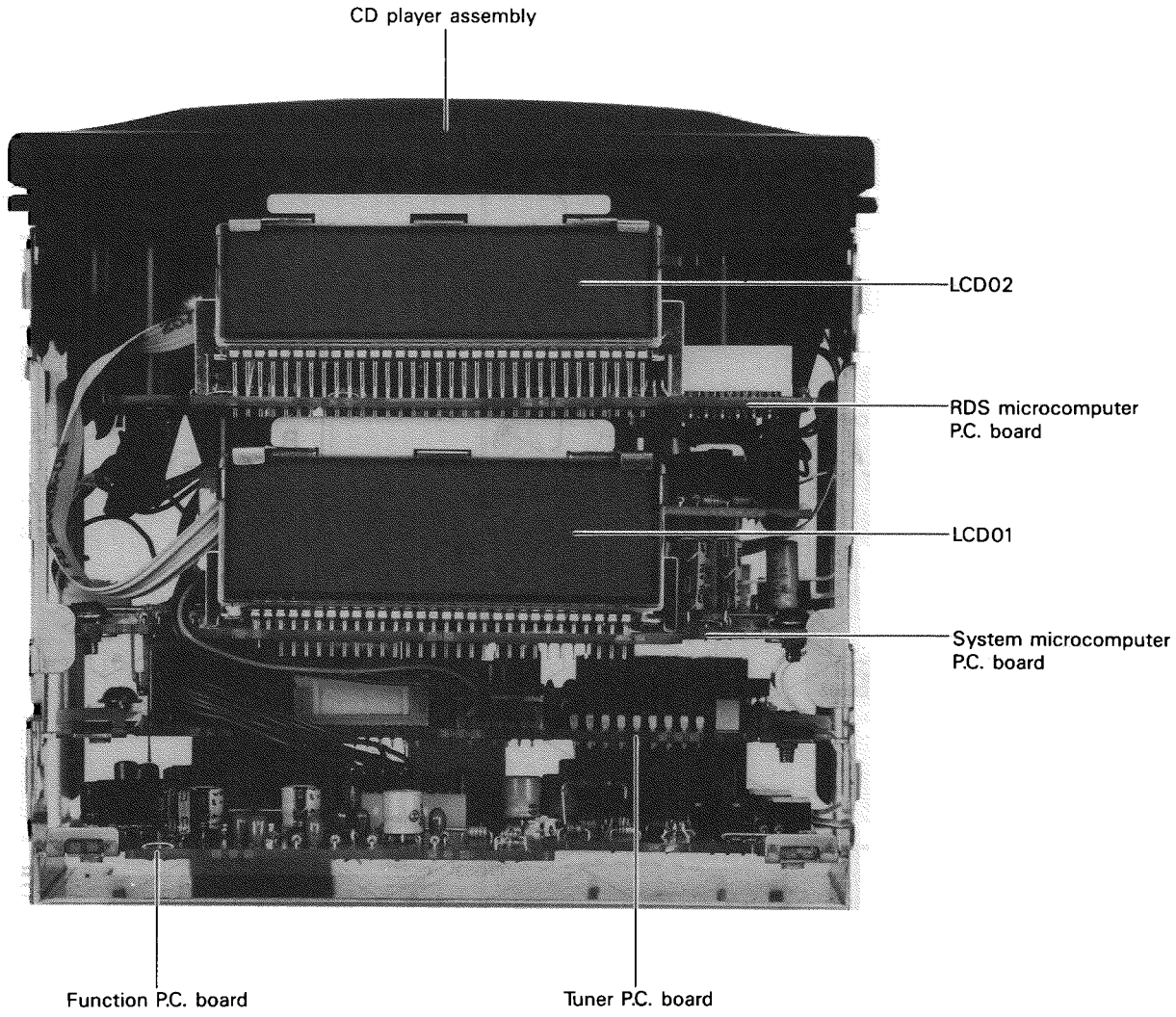

CD player assembly
LCD02
RDS microcomputer P.C. board
LCD01
System microcomputer P.C. board
Function P.C. board
Tuner P.C. board

Fig. 6-3

7. Removal of Main Parts, Analytic Drawing and Parts List

■ **Analytic Drawing (1): Block No. M 1**

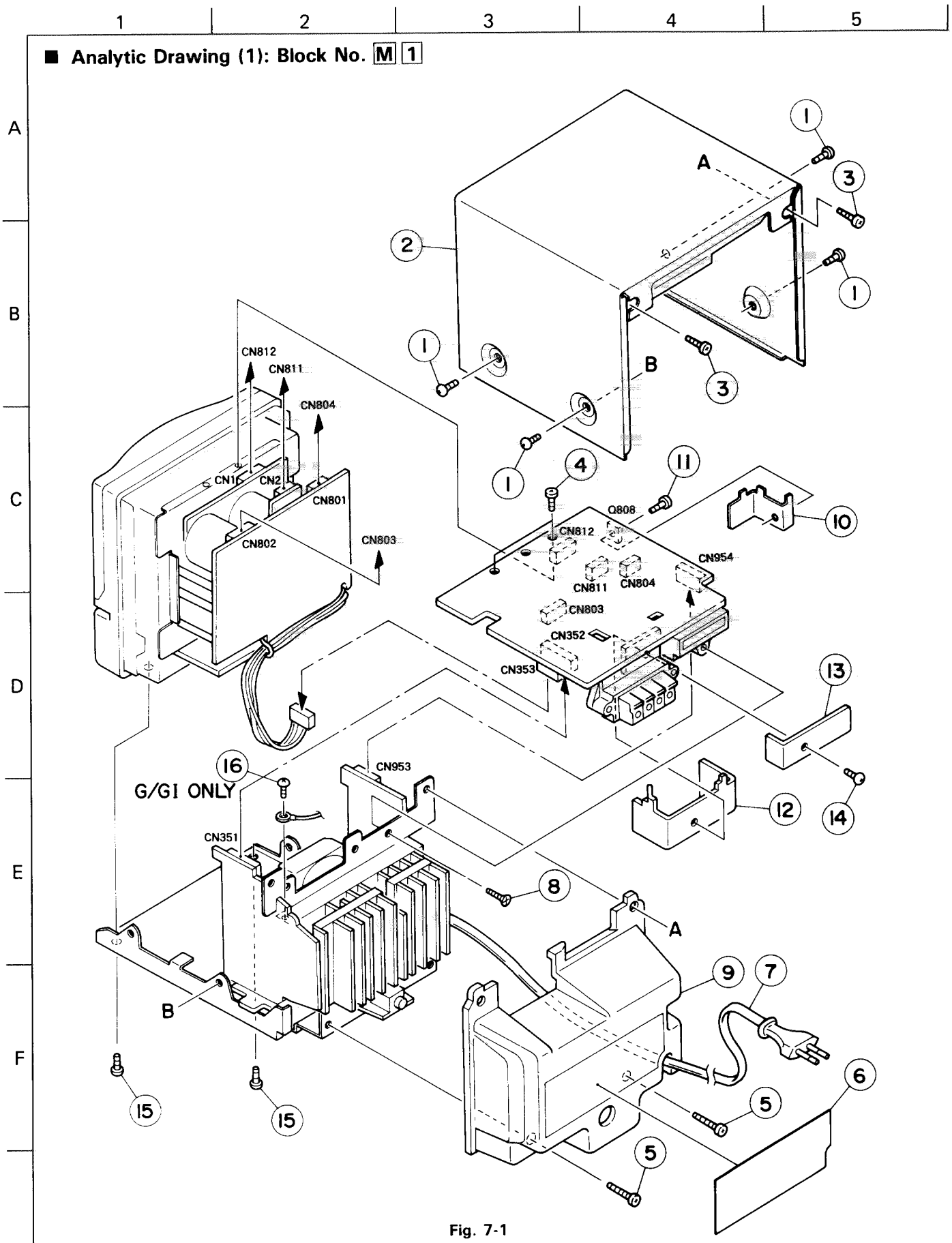


Fig. 7-1

■ Separation of Front Panel Ass'y and Power Supply Unit Ass'y (Fig. 7-1)

1. Remove the four screws (1) retaining the right and left sides of the top cover from the body.
2. Remove the two screws (3) retaining the rear side of the top cover.
3. Remove the two screws (5) retaining the rear panel from the body.
4. Remove the one screw (8) retaining the mechanism control speaker terminal P.C. board from the transformer bracket.
5. From the front panel ass'y, remove the two screw (4) retaining the mechanism control speaker terminal P.C. board.
6. After raising (floating) the mechanism control P.C. board upward, dismount the connectors CN954, CN353, CN352, CN812, CN803, CN804 and CN811 on the mechanism control P.C. board respectively from the connector CN953 on the fuse P.C. board, connector CN351 on the power amplifier P.C. board and connector CN1 on the leaf switch P.C. board, connectors CN801 and CN802 on the pre-amplifier P.C. board, and connector CN2 on the actuator reel motor P.C. board.
7. Remove the two screws (15) retaining the front panel ass'y from the bottom side of the body.
8. Separate the front panel ass'y and power supply unit ass'y.

■ Analytic Drawing (1) Parts List

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	SDST3004M	SCREW		4		
	2	VJC2412-207	TOP COVER		1		
	3	SDST3008M	SCREW		2		
	4	SDST2606Z	SCREW	PCB+MECHA	2		
	5	SDST3008M	SCREW		2		
	6	FSYN4001-008	NAME PLATE	DECK/AMP	1	G	
		FSYN4001-005	NAME PLATE	DECK/AMP	1	E	
		FSYN4001-014	NAME PLATE	DECK/AMP	1	EN	
		FSYN4001-002	NAME PLATE	DECK/AMP	1	B	
		FSYN4001-010	NAME PLATE	DECK/AMP	1	GI	
⚠	7	QMP5530-008E	POWER CORD		1	B	
⚠		QMP3900-200E	POWER CORD		1	E,G,GI,EN	
	8	SSSF3008Z	SCREW	J.HOLDER+JACK	1		
	9	VJG1125-104	REAR PANEL(D)		1		
	10	VMH4049-002	HEAT SINK(C)		1		
	11	SDST2608Z	SCREW		1		
	12	VMH4047-002	HEAT SINK(A)	FOR DIODE	1		
	13	FSYH4037-001	HEAT SINK		1		
	14	SBSF3012Z	SCREW		1		
	15	SBST3006Z	SCREW	FRONT+BOTTOM	2		
	16	SBST3006Z	SCREW		1	G,GI	

■ Analytic Drawing (2): Block No. M 2

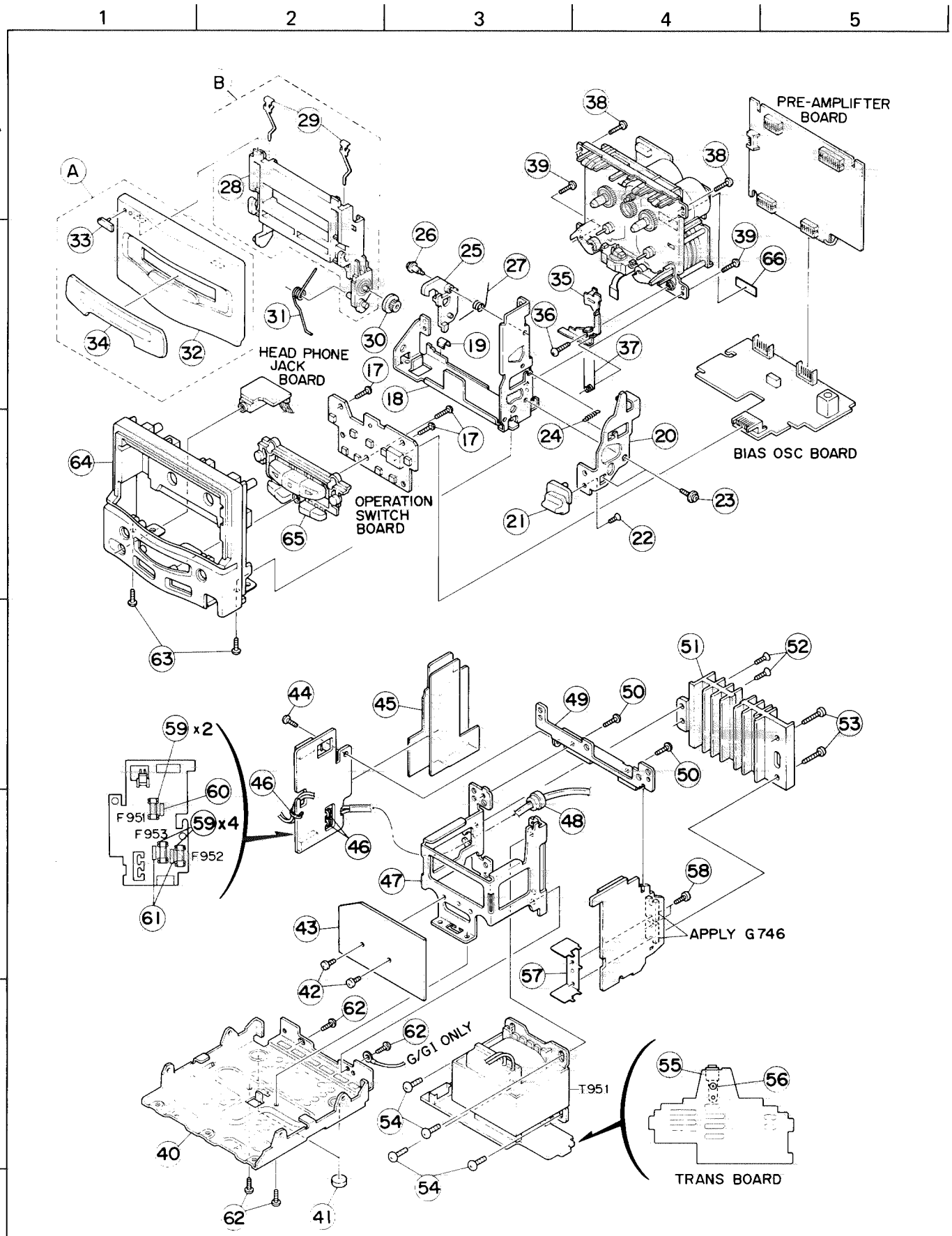


Fig. 7-2

■ Analytic Drawing (2) Parts List

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCUXA55K-CLB	CASSETTE LID	REF.32-34	1		
	B	ZCUXA55K-CH	CASSETTE HOLDER	REF.28,29	1		
	17	SBSF2608Z	SCREW	FRONT+SW PCB	3		
	18	VYH3787-003	HOLDER		1		
	19	VYSA1R4-059	SPACER	HOLDER	1		
	20	VYH7817-001	EJECT LEVER		1		
	21	VXQ4118-002	EJECT KNOB		1		
	22	SDSF2608Z	SCREW	EJECT KNOB	1		
	23	VKZ4323-002	SCREW	EJECT LEVER	2		
	24	VKW3002-274	TENSION SPRING	EJECT LEVER	1		
	25	VYH7347-001	EJECT ARM		1		
	26	VKZ4341-001	SPECIAL SCREW	EJECT ARM	1		
	27	VKW4938-001	TORTION SPRING	EJECT ARM	1		
	28	VJT2263-004	CASSETTE DOOR		1		
	29	VKY4180-001	CASSETTE SPRING		2		
	30	VYH5601-001	GEAR		1		
	31	VKW5110-002	DOOR SPRING		1		
	32	VJT2330-002	DOOR COVER		1		
	33	E406971-001SS	JVC MARK		1		
	34	VJT4209-001	DOOR LENS		1		
	35	VKL7293-001	EJECT SAFTY(R)	NEW Y1000	1		
	36	SBSF3010Z	SCREW	EJECT SAFETY	1		
	37	VKW5069-002	TORSION SPRING	EJECT SAFETY	1		
	38	SBSF3008Z	SCREW	F.PANEL+MECHA	2		
	39	SBST3006Z	SCREW	HOLDER+MECHA	2		
	40	VJC3237-004	BOTTOM COVER		1		
	41	VJF4003-003	FOOT		2		
	42	SDST3004Z	SCREW	SHIELD+TRANS BK	2		
	43	VMA4603-001	SHIELD PLATE		1		
	44	SBST3008Z	SCREW	J.HOLDER+FUSE P	1		
	45	VMA4604-002	BARRIER	FUSE PCB	1		
	46	QHX2075-001	WIRE CLAMP		3		
	47	VYH3658-002	TRANS BRACKET		1		
	48	QHS3876-162	S.R.BUSHING	POWER CORD	1		
	49	VYH7698-004	JACK HOLDER		1		
	50	SBST3008Z	SCREW	J.HOLDER+TRANS	2		
	51	VMH4046-002	HEAT SINK		1		
	52	SSST3008Z	SCREW	H.SINK+TRANS	2		
	53	SDST3012Z	SCREW		2		
	54	SBST4006Z	SCREW	POWER TRANS	4		
	55	VYH7696-001	JACK STOPPER		1		
	56	SBSF3008Z	SCREW	JACK STOPPER	1		
	57	VYH7708-002	IC HOLDER		1		
	58	SDST2608Z	SCREW	IC+IC HOLDER	2		
⚠	59	VMZ0087-001Z	FUSE CLIP		6		
	60	VND4003-034	FUSE LABEL	F951	1		
	61	VND4003-050	FUSE LABEL	F952	1		
		VND4003-050	FUSE LABEL	F953	1		
	62	SBST3006Z	SCREW	TRANS BKT	4		
	63	SBST3006Z	SCREW	HOLDER+F.PANEL	2		
	64	VJG1238-005	FRONT PANEL(D)		1		
	65	VXP3602-002	BUTTON		1		
	66	VYSA1R4-056	SPACER	HEAD WIRE	1		
⚠	F 951	QMF51E2-R40J1	FUSE	1 ST	1		

BLOCK NO. M2M

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
⚠	F 952	QMF51E2-6R3J1	FUSE	2 ND	1		
⚠	F 953	QMF51E2-6R3J1	FUSE	DC	1		
⚠	T 951	VTP66J2-12D	POWER TRANS		1	E, G, GI, EN	
⚠	T 951	VTP66T2-12D	POWER TRANS		1	B	

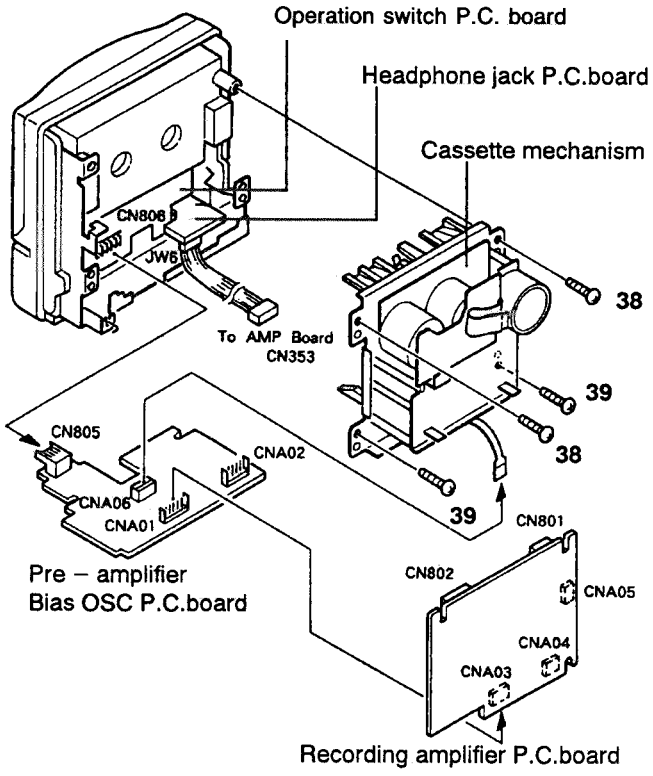


Fig. 7-3

■ Disassembly of Front Panel Ass'y

- **Cassette Mechansim** (Fig. 7-2, 3)

1. After raising (floading) the recording amplifier P.C. board upward, dismount the connectors CNA03 and CNA04 on the P.C. board respectively from the connectors CNA01 and CNA02 on the pre-amplifier bias OSC P.C. board.
2. Remove the four screws (㊳ × 2 and ㊴ × 2) retaining the cassette mechansim from the front panel ass'y.
3. Pull out the flexible head wire from the connector CNA06 on the pre-amplifier bias OSC P.C. board.
4. After drawing the pre-amplifier bias OSC P.C. board toward the front side, dismount the connector CN805 on the P.C. board from the connector CN806 on the operation switch P.C. board.

- **Headphone Jack P.C. Board** (Fig. 7-2, 3)
  The headphone jack P.C. board can be dismounted by drawing it out toward the front side from inside the front panel ass'y.

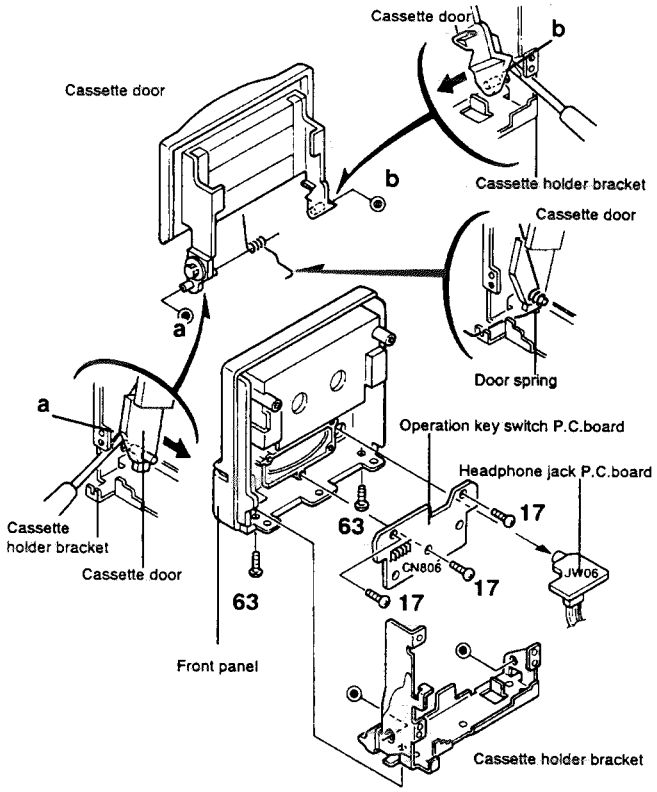


Fig. 7-4

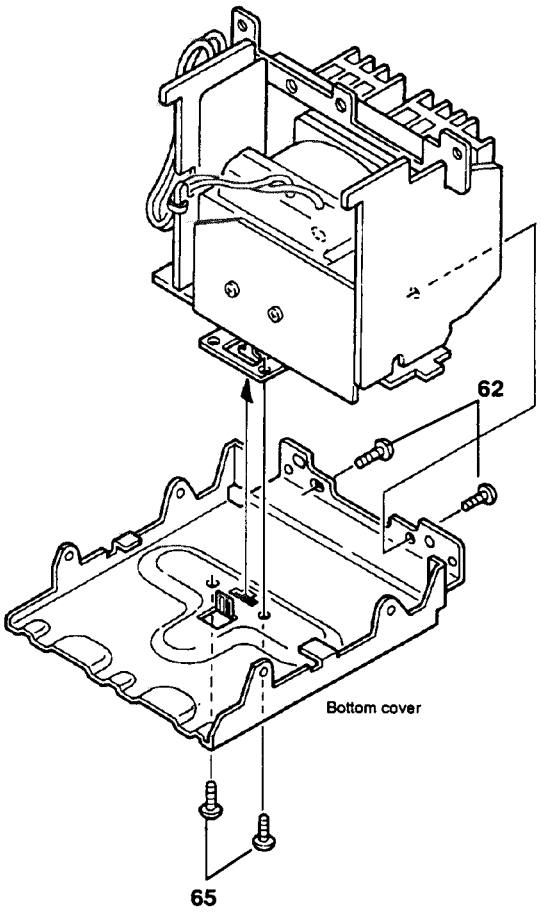


Fig. 7-5

- **Operation Key Switch P.C. Board and Front Panel** (Fig. 7-2, 4)

1. Remove the two screws (63) retaining the cassette holder bracket from the lower side of the front panel.
2. Insert minus screw drivers into the two right and left engagement points (a, b) of the cassette door and cassette holder bracket from inside the front panel, and disengage the above door and bracket.
3. Remove the door spring and dismount the cassette door from the front panel.
4. Draw out the caseete holder bracket from the front cover.
5. Draw out the headphone jack P.C. board from the front panel.
6. Remove the three screws (17) retaining the operation key switch P.C. board, and draw out the P.C. board.

■ Power Amplifier Power Supply Ass'y

- **Power Supply Transformer** (Fig. 7-2, 5~7)

1. Remove the four screws ((65) × 2 and (62) × 2) retaining the bottom cover and power supply unit.
2. Remove the four screws ((52) × 2 and (53) × 2) retaining the heat sink from the transformer bracket and dismount the power amplifier P.C. board.
3. Remove the one screw (44) retaining the fuse P.C. board from the transformer bracket.
4. Remove the bushing retaining the power supply cord from the transformer bracket.
5. From the connector CN955 on the fuse P.C. board, remove the 2PIN connector outgoing from the power supply transformer.
6. Dismount the connector CN952 on the fuse P.C. board and connector CN951 on the transformer P.C. board.
7. Remove the soldering connecting the power supply transformer from the soldered surface of the transformer P.C. board and dismount the P.C. board.
8. Remove the four screws (54) retaining the power supply transformer from the transformer bracket.
9. Unsolder the four solderings (C).

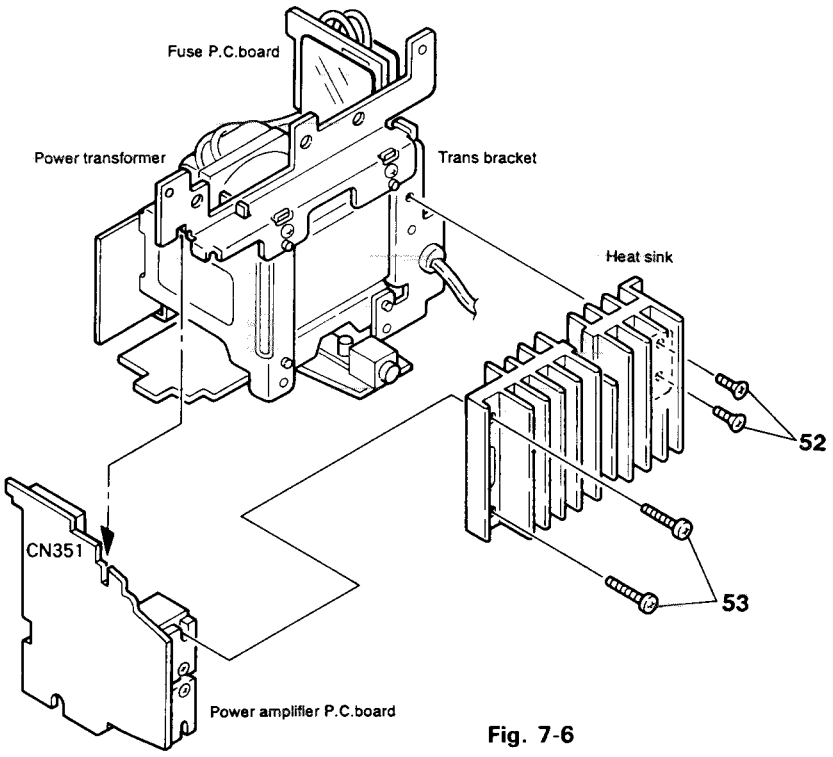

Fuse P.C.board
Power transformer
Trans bracket
Heat sink
52
CN351
53
Power amplifier P.C.board

Fig. 7-6

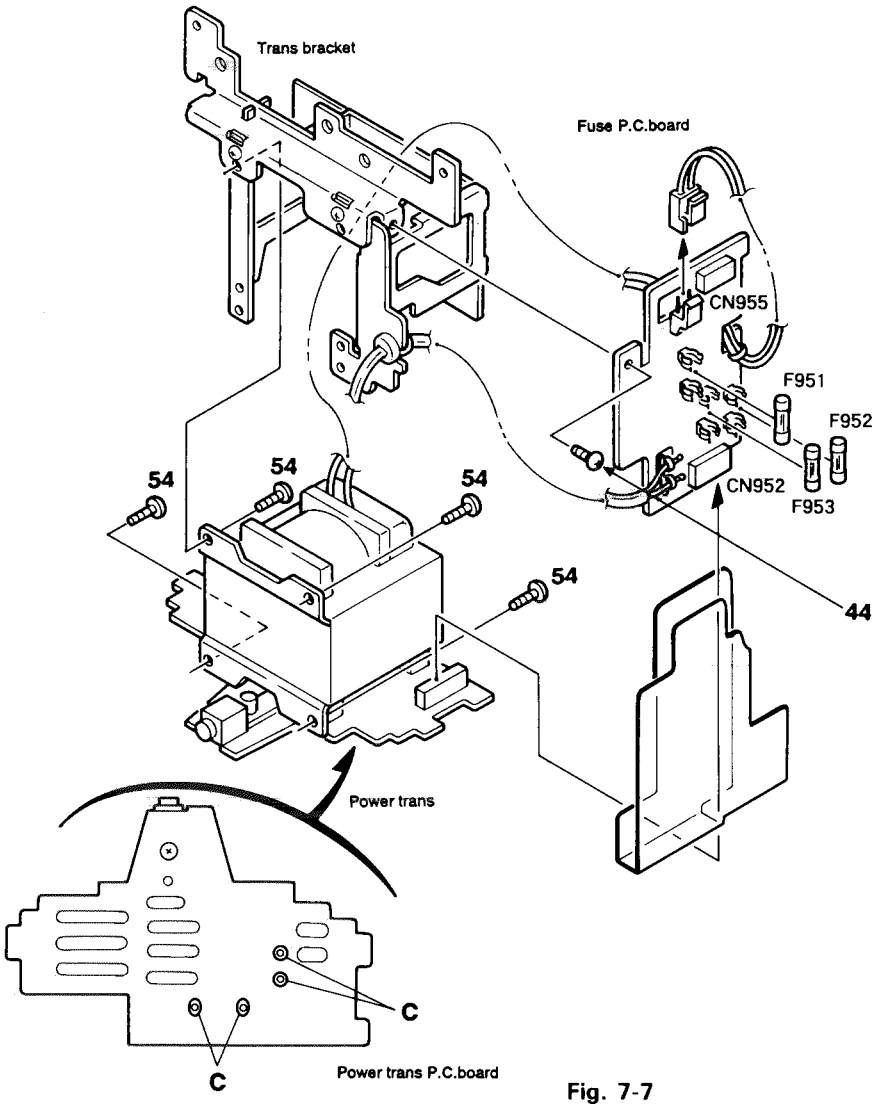

Trans bracket
Fuse P.C.board
CN955
F951
F952
F953
CN952
54
54
54
54
44
Power trans
C
C
Power trans P.C.board

Fig. 7-7

■ Disassembly of CD player Ass'y and Front panel Ass'y

● Metal cover(Fig. 7 – 8, 9)

1. Remove the four screws (58) retaining the metal cover from the body.
2. Remove one screw (59) retaining the metal cover from the back surface of the body.
3. Dismount the metal cover while expanding it outward.

● Front panel Ass'y(Fig. 7 – 10,11)

1. After inserting a minus screw driver between the front panel and chassis, release the four engagement points ⓐ (both sides) fixing the front panel ass'y and separate the front panel ass'y from the body.
2. From the connector CN712 on the operation key switch P.C. board, remove the card wire outgoing from the connector CN710 on the RDS P.C. board and separate the card wire from the front panel ass'y.

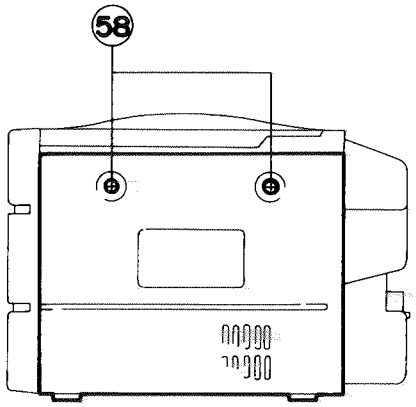


Fig. 7 – 8

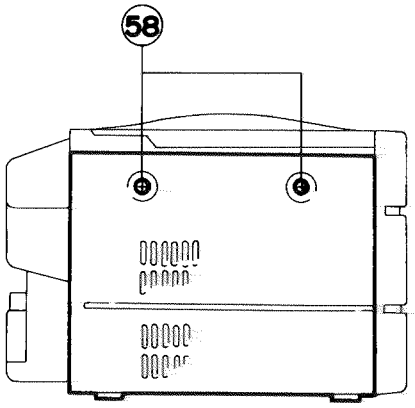


Fig. 7 – 9

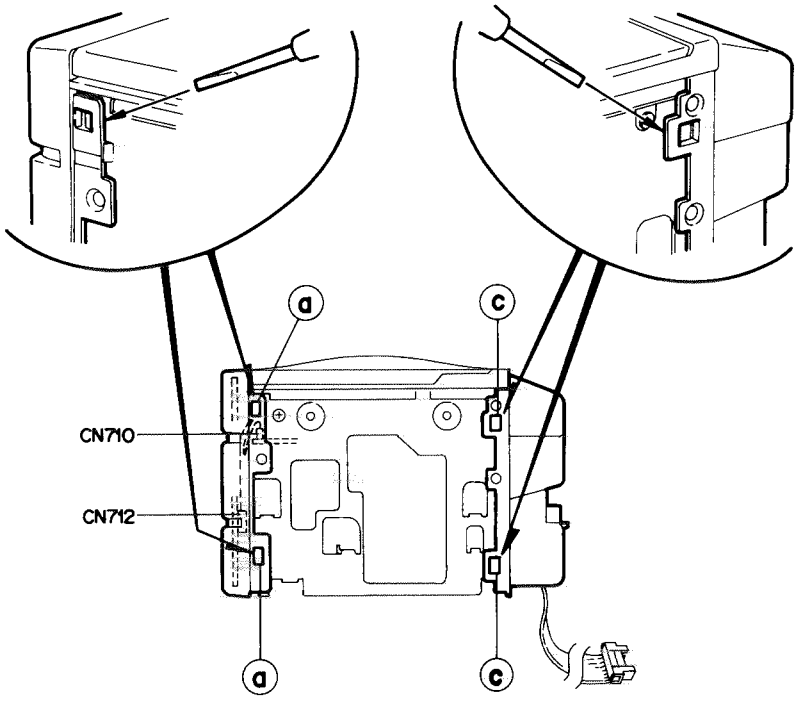


Fig. 7 – 11

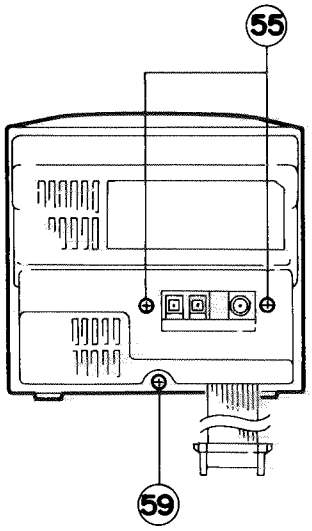


Fig. 7 – 10

● **CD player Ass'y(Fig. 7 – 10~14)**

1. Inserting a minus screw driver into the hole ⓑ engaging the system wire inserting wire holder and the rear cover, disengage the holder and cover. Then, dismount the wire holder while pulling it out.
2. Remove the two screws (55) retaining the rear panel from the body.
3. After inserting a minus screw driver between the four engagement points ⓒ fixing the rear cover, release the engagements and separate the rear cover from the body.
4. Remove the two screws (54) retaining both sides of the CD player ass'y from the chassis.
5. After expanding the right and left sides of the chassis outward, release the right and left engagements ⓓ of the CD player ass'y and chassis, and separate the CD player ass'y from the body.
6. Disconnect the 6pin connector outgoing from the door motor P.C. board from the connector CN704 on the LCD/ microcomputer P.C. board.
7. From the connector CN601 on the CD amplifier P.C. board, pull out the card wire outgoing from the connector CN706 on the LCD/ microcomputer P.C. board.
8. From the connector CN705 on the LCD/ micro-computer P.C. board, dismount the 5pin parallel wire outgoing from FW501 on the CD amplifier P.C. board.
9. From the connector CN708 on the RDS P.C. board, disconnect the card wire outgoing from the connector CN701 on the LCD/ microcomputer P.C. board.
10. Disconnect the 6pin connector outgoing from the CJ709 on the RDS P.C. board from the connector CN2 on the tuner P.C. board.
11. From the connector CN711 on the LCD/ microcomputer P.C. board. dismount the 2pin parallel wire outgoing from the lamp P.C. board on the RDS lamp P.C. board.

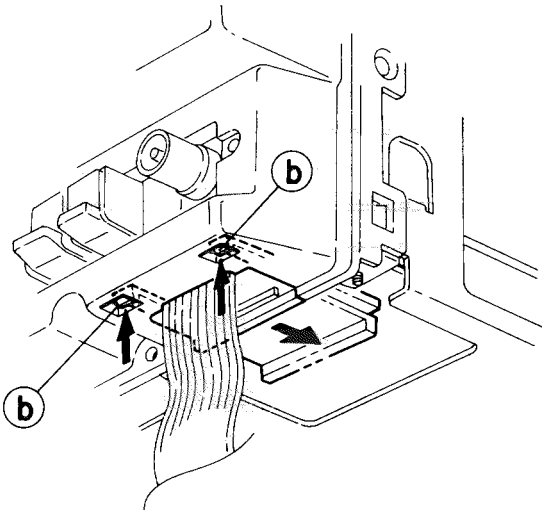


Fig. 7 – 12

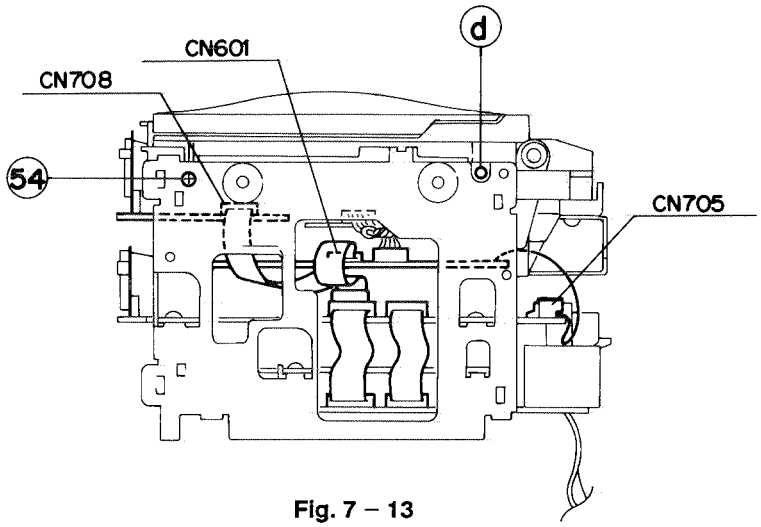


Fig. 7 – 13

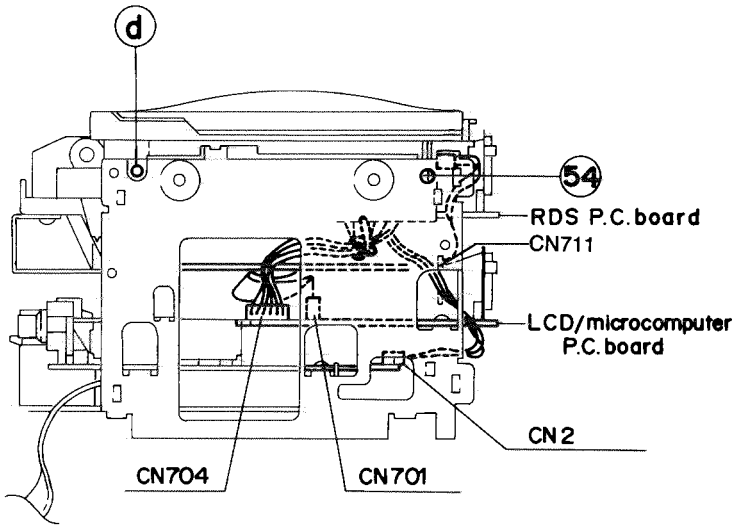


Fig. 7 – 14

■ LCD Microcomputer P.C. board (Fig. 7 – 15)

1. From the connector CN702 and CN703 on the LCD/ microcomputer P.C. board, dismount the card wire outgoing from the connectors CNF01 and CNF02 on the function P.C. board.
2. Remove the three screws (20)retaining the LCD/ microcomputer P.C. board from the chassis.

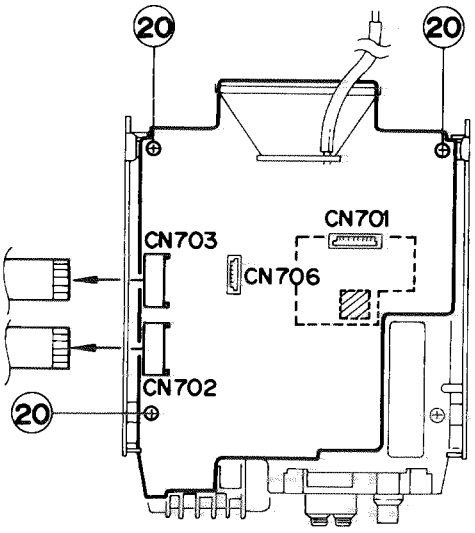


Fig. 7 – 15

■ Tuner P.C. board(Fig. 7 – 16)

1. Remove the two screws (14) retaining the tuner P.C.board from the chassis.
2. Disconnect the 10pin connector CN1 outgoing from the connector JWF03 on the function P.C. board.

■ Function P.C. board(Fig. 7 – 17)

Remove the two screws (15) retaining the function P.C. board from the chassis.

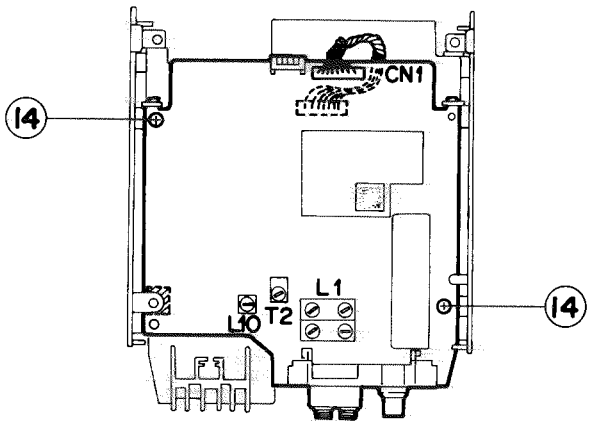


Fig. 7 – 16

■ Operation key switch P.C. board(Fig. 7 – 18)

1. Dismount the front panel ass'y according to the procedures described previously.
2. Remove the six screws (3) retaining the operation key switch P.C. board from the front panel.

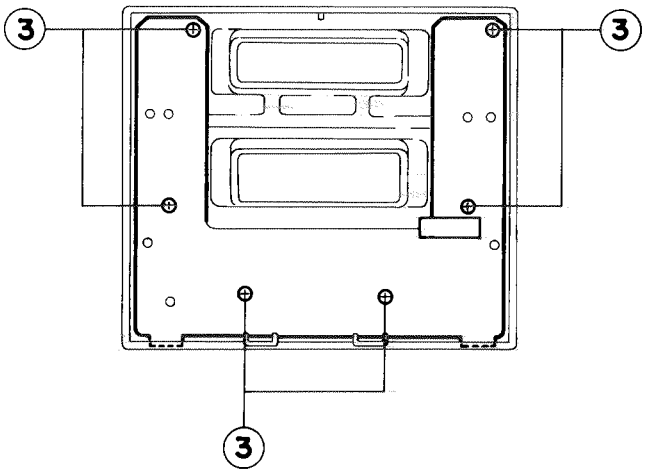


Fig. 7 – 18

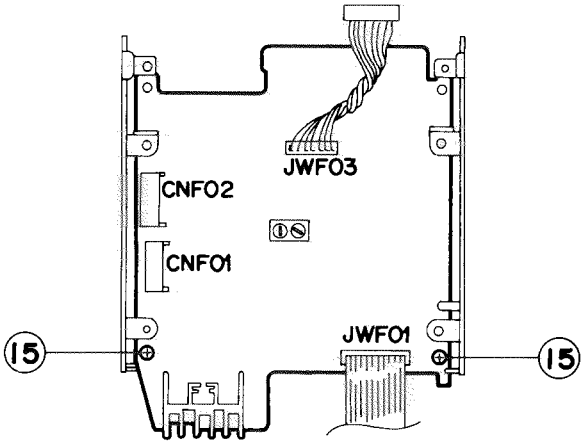


Fig. 7 – 17

■ CD Amplifier P.C. board(Fig. 7 – 19, 20)

1. Remove the three screws (46) retaining the CD amplifier P.C. board from the CD player ass'y.
2. From the optical pickup unit P.C. board, pull out the card wire outgoing from the connector CN501 on the CD amplifier P.C. board.
3. From the connector PO11 on the spindle feed motor P.C. board, dismount the 6pin connector outgoing from the connector CN502 on the CD amplifier P.C. board.
4. Remove the one screw (46)retaining both the wire and the shield plate to the CD mechanism holder.

■ RDS P.C. board(Fig. 7 – 19)

Remove the two screws (47) retaining the RDS P.C. board to the CD Player ass'y.

■ CD Mechanism ass'y(Fig. 7 – 21, 22)

By removing the three screws (26 × 2, 28 × 1) simultaneously retaining the CD mechanism, rear and front brackets, separate the CD mechanism ass'y(from the brackets).

■ CD Door motor ass'y(Fig. 7 – 20)

Remove the three screws (41 × 2 and 44 × 1) retaining the CD door motor assemblies from the CD cases.

■ CD Door ass'y(Fig. 7 – 20)

Insert a minus screw driver into the positions ⓗ and ⓘ where the right and left sides of the CD door assemblies and CD cases are engaged and dismount the CD door assemblies.

■ CD Door motor(Fig. 7 – 20)

Remove the two screws (34) and disengage the belt.

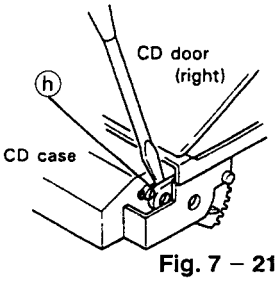


Fig. 7 – 21

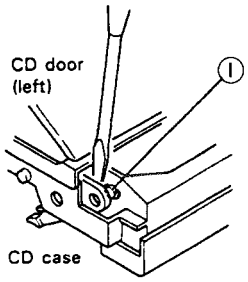


Fig. 7 – 22

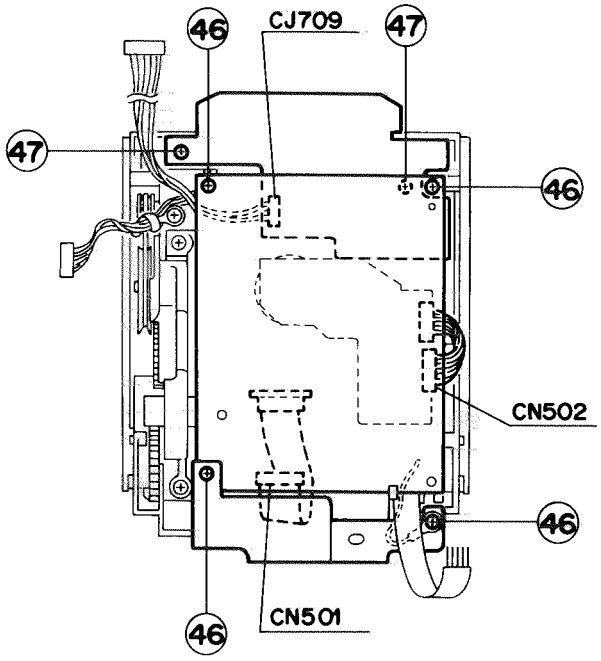


Fig. 7 – 19

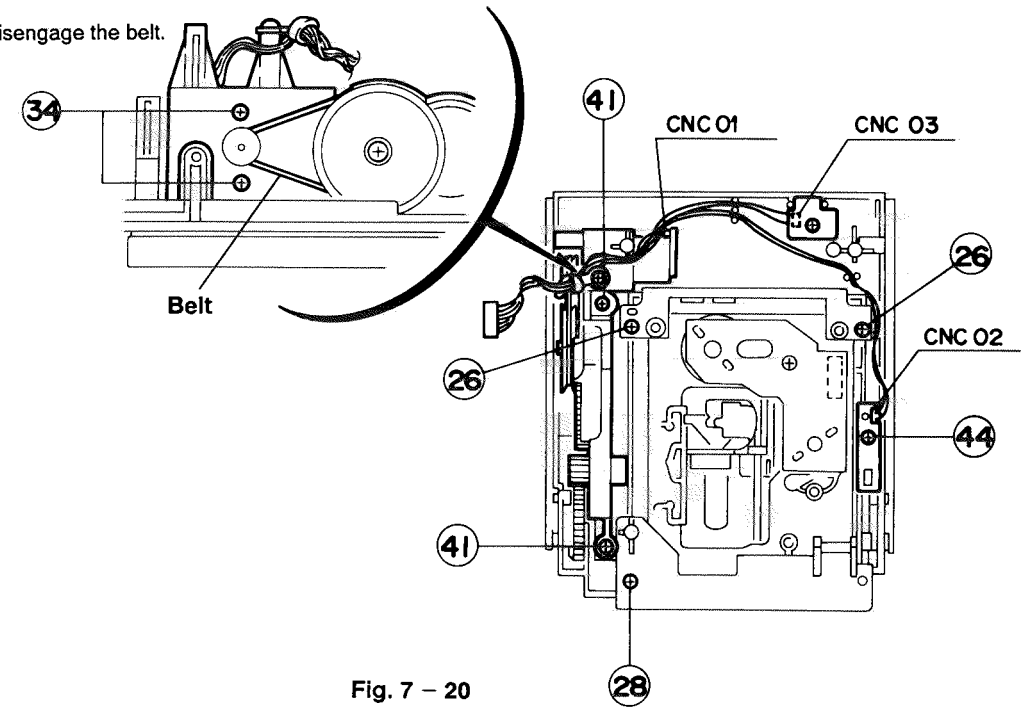


Fig. 7 – 20

■ **Head mount assembly (A)** (Fig. 7-20, 7-21)
Remove three screws (13) retaining the head mount assembly (A) from the chassis base assembly.
Note: After replacing the head mount assembly, make sure to adjust the azimuth screw (46).

■ **Pinch roller assembly** (Fig. 7-22)
1. Expand the pawl (A) retaining the pinch roller assembly (27) on the right side in the direction of the arrow while pulling out the pinch roller assembly upwards.
2. In the same manner as above, expand the pawl retaining the pinch roller assembly (28) on the left side to remove the left pinch roller assembly. (Fig. 7-20, too)

■ **Capstan motor and Flywheel** (Fig. 7-24 through 7-26)
1. Place the cassette mechanism upside down to expose the bottom. (Fig. 7-24)
2. Remove three screws (37) retaining the FR bracket assembly from the chassis base. (Fig. 7-24)
3. Expand two pawls (B, C) retaining the FR bracket assembly in the direction of the arrow to remove theem. (Fig. 7-24)
4. Remove the FR bracket assembly.
5. Remove two screws (34) retaining the capstan motor (32) from the FR bracket assembly. (Fig. 7-23)
6. Disengage the belt (38) and pull out the flywheels (19, 20). (Fig. 7-25, 7-26)
Note: When disengaging the belt, carefully do it not to stain it with oil, etc.
For reengaging the belt, refer to Fig. 7-26.

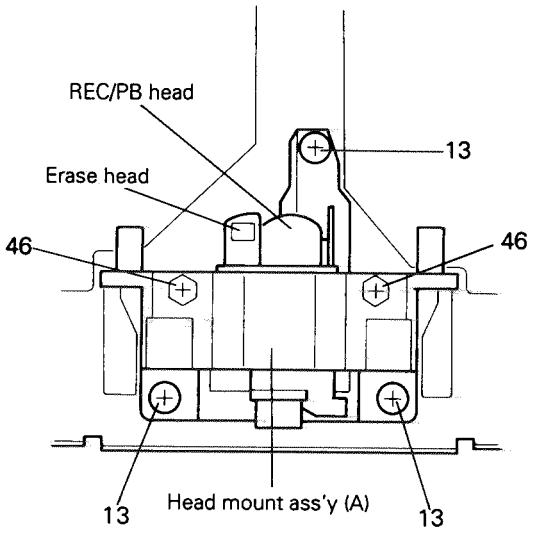


Fig. 7-21

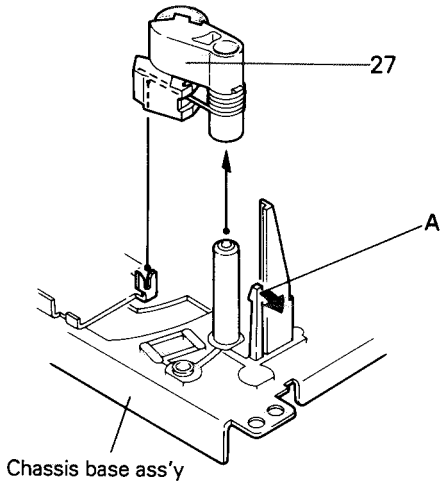


Fig. 7-22

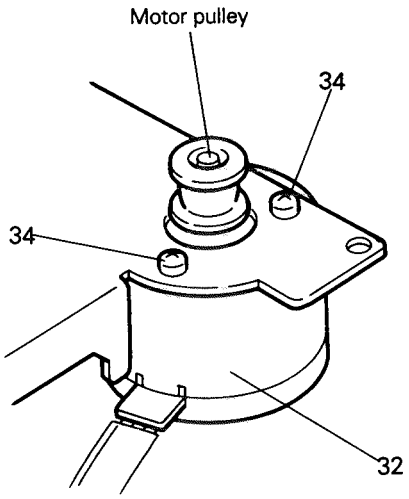


Fig. 7-24

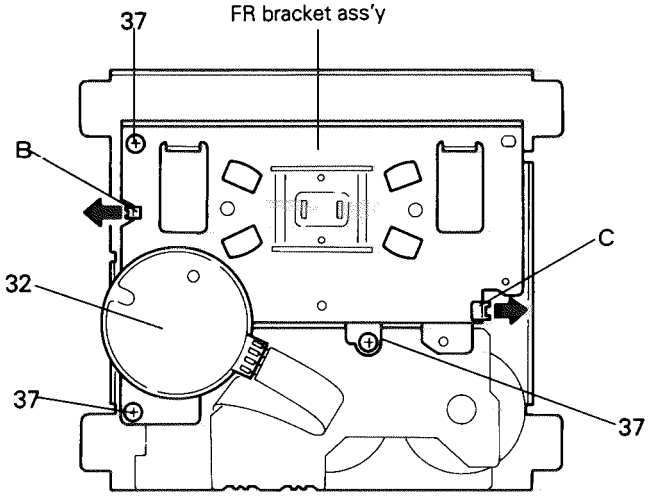


Fig. 7-23

■ **Reel and Actuator motor assembly** (Fig. 7-27, 7-28)

1. Remove four screws (23, 26) retaining the reel motor (21) and the actuator motor assembly (24). (Fig. 7-27)
2. When removing the reel motor, unsolder the two points (D) on the back side. (Fig. 7-28)
3. When removing the actuator motor, unsolder the two points (E) in the same manner. (Fig. 7-28)

■ **Leaf switch board** (Fig. 7-29)

1. Remove a screw (39) retaining the leaf switch board from the chassis basis.
2. Expand five pawls (F to J) retaining the leaf switch board in the direction of the arrow while removing the leaf switch board.

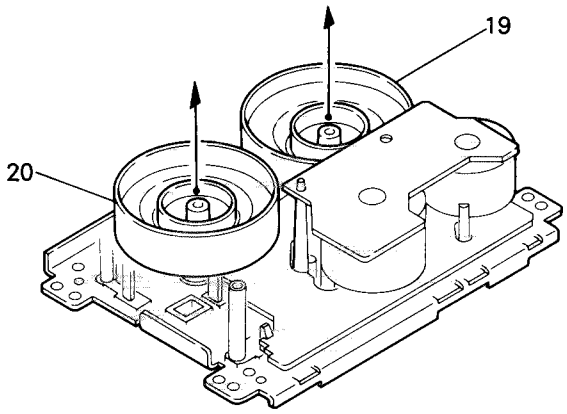


Fig. 7-25

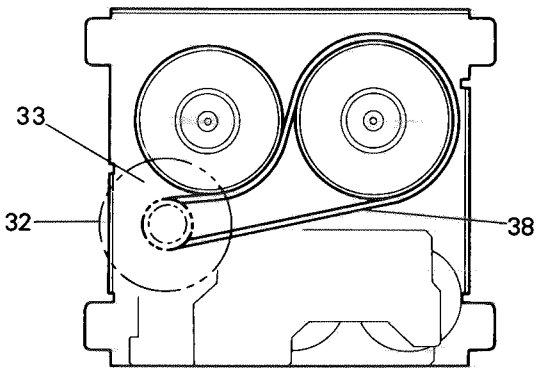


Fig. 7-26

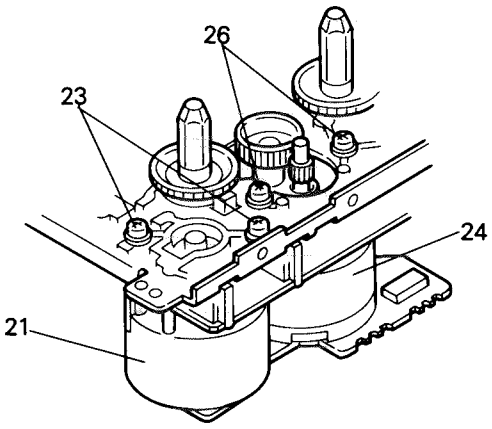


Fig. 7-27

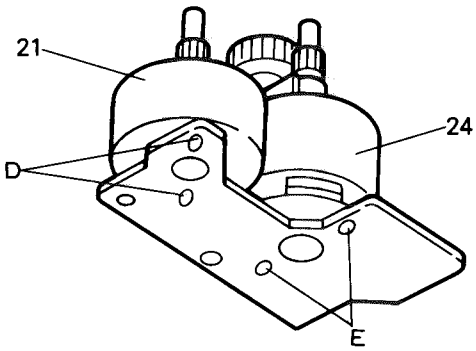


Fig. 7-28

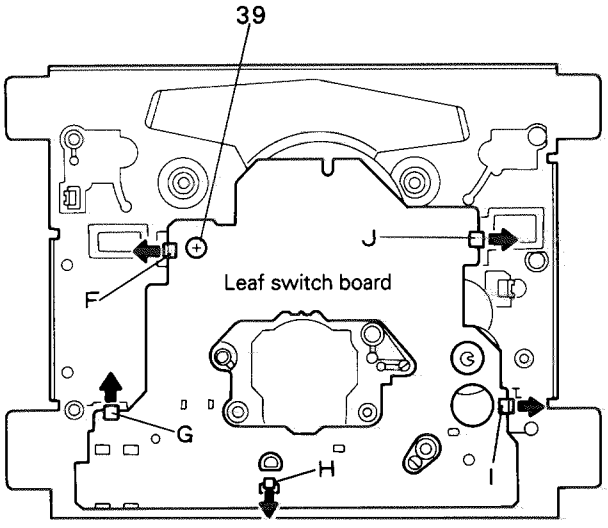


Fig. 7-29

■ Analytic Drawing of Cassette mechanism: Block No. M 3

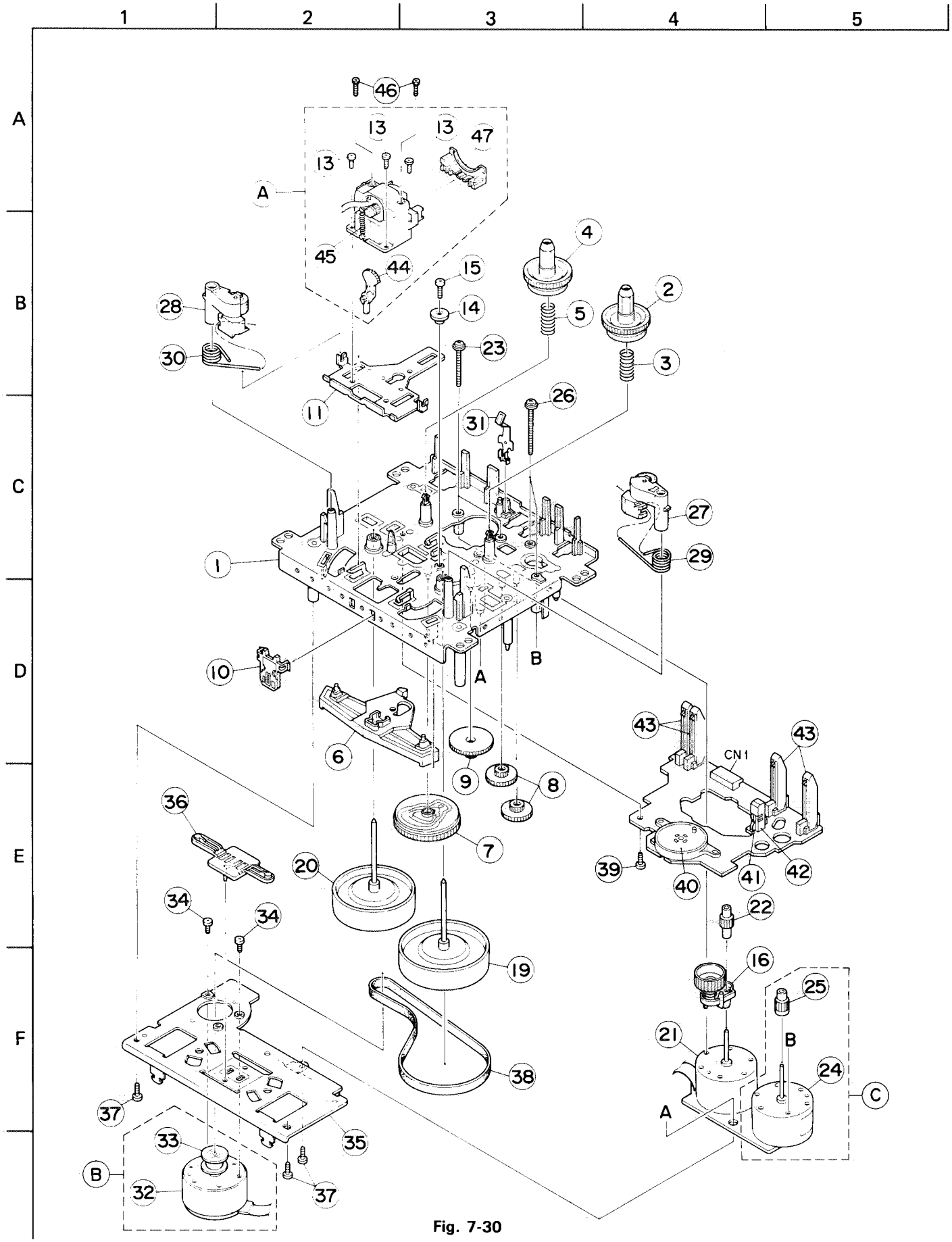


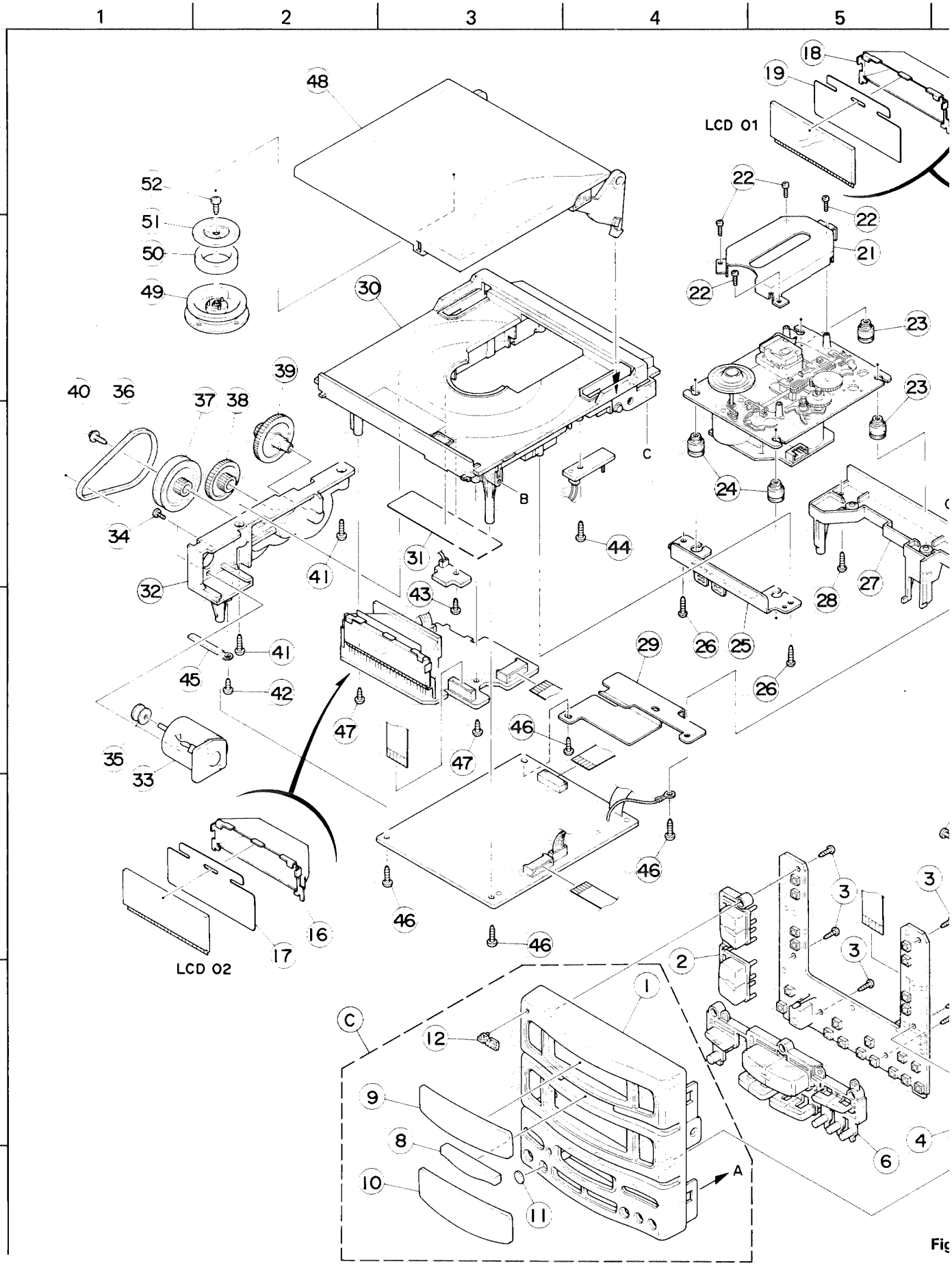
Fig. 7-30

■ Cassette Mechanism Parts List M 3

BLOCK NO. M3MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	VKS3629-00D	HEAD BLOCK	REF.13,45,47	1		
	B	MSI5B2LW-SA1	CAPSTAN MOTOR	REF.32,33	1		
	C	MSN5D257A-SA1	DC MOTOR	REF.24,25	1		
	1	VKS1126-00B	CHASSIS B ASS'Y		1		
	2	VKS5428-00B	T-UP REEL ASSY		1		
	3	VKW5043-001	B.T. SPRING		1		
	4	VKS3617-002	REEL		1		
	5	VKW5043-001	B.T. SPRING		1		
	6	VKS3627-001	PINCH LEVER		1		
	7	VKS2224-001	CONTROL CAM		1		
	8	VKS5454-001	ACT GEAR(2)		2		
	9	VKS5455-001	ACT GEAR(3)		1		
	10	VKS3655-002	F.P.C. HOLDER		1		
	11	VKM3632-001	HEAD BASE	VDL9212-001MK	1		
	13	SDST2004Z	SCREW		3		
	14	VKZ4708-001	SPECIAL SCREW		1		
	16	VKS5430-00CMM	FR ARM ASY		1		
	19	VKF3184-00H	FLYWHEEL(R)ASS'		1		
	20	VKF3186-00H	FLYWHEEL(L)ASS'		1		
	21	MMN-6F4RA38	D.C.MOTOR	VDL9212-001MK1	1		
	22	VKS5432-001	REEL MOT. GEAR	VDL9212-001MK	1		
	23	VKZ4705-001	SPECIAL SCREW		2		
	24	MSN-5D257A	D.C.MOTOR	VDL9212-001MK1	1		
	25	VKS5433-001	ACT.MOTOR GEAR	VDL9212-001MK	1		
	26	VKZ4705-002	SPECIAL SCREW		2		
	27	VKP4227-00B	PINCH R.(R) ASY		1		
	28	VKP4229-00B	PINCH R.(L) ASY		1		
	29	VKW5045-003	P.R. SP.(R)	FOR PINCH (R)	1		
	30	VKW5046-003	P.R. SP.(L)	FOR PINCH (L)	1		
	31	VKY4670-001	CASSETTE SPRING	VDL9212-001MK	1		
	32	MSI-5B2LW	D.C.MOTOR	VDL9212-001MK1	1		
	33	VKR4364-002	MOTOR PULLEY		1		
	34	SPSP2603Z	SCREW		2		
	35	VKM3636-002	FM. BRACKET		1		
	36	VKS5327-004	THRUST PLATE		1		
	37	SDSF2608Z	SCREW		3		
	38	VKB3001-051	BELT		1		
	39	SDST2612Z	SCREW		1		
	40	VKS3616-00A	CAM SW UNIT	S6	1		
	41	DN6851-HI	HALL IC		1		
	42	VKS3630-001MM	IC HOLDER	IC1	1		
	43	VKS3587-00A	CAM SWITCH	CONTACT	1		
	44	VKS3614-001	TURN OVER GEAR		1		
	45	VKW5063-003	HEAD SPRING		1		
	46	VKZ4629-003	SPECIAL SCREW		2		
	47	VKS3654-001	HEAD MT. COVER		1		

■ Analytic Drawing of CD Player/Tuner Section: Block No. M 4



Fig

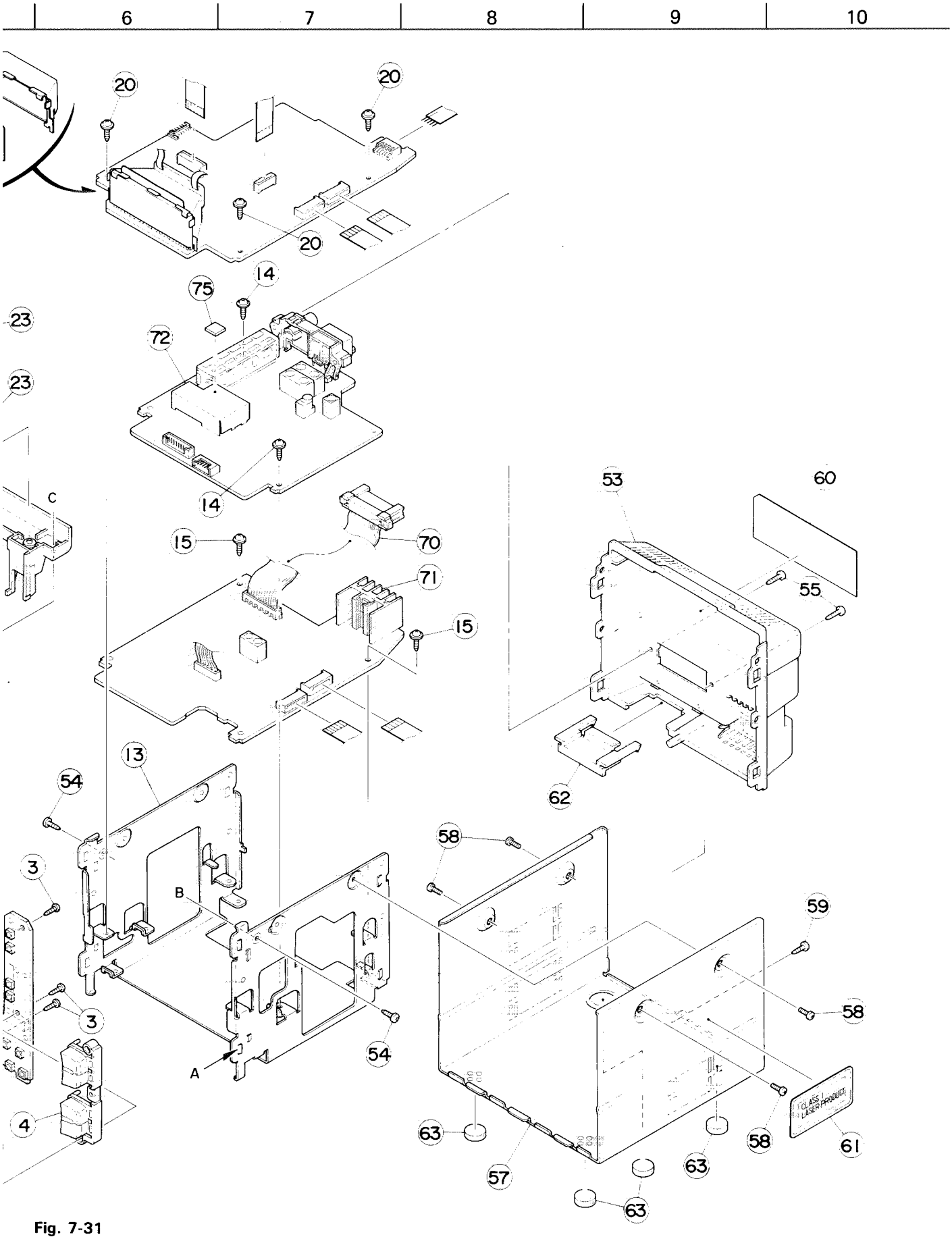

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Fig. 7-31

■ CD Player/Tuner Section Parts List M 4

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	C	ZCUXA55K-FB	FRONT PANEL ASY	REF.1,8-12	1		
	1	FSJC1013-001	FRONT PANEL(T)		1		
	2	VXP3618-003	BUTTON(A)		1		
	3	SDSF2610Z	TAPPING SCREW	FOR BOTTON(A)	1		
		SDSF2610Z	TAPPING SCREW	FOR BOTTON(B)	1		
		SDSF2610Z	TAPPING SCREW	FOR VOL.BOTTON	4		
	4	VXP3619-003	BUTTON(B)		1		
	6	FSXP2010-001	VOLUME BUTTON		1		
	8	FSJD3007-001	RDS MARK		1		
	9	FSJK4002-001	LCD LENS(A)		1		
	10	VJK4404-003	LCD LENS(B)		1		
	11	FSJK4003-001	REMOTE LENS		1		
	12	E406971-001SS	JVC MARK		1		
	13	VYH2269-002	CHASSIS		1		
	14	GBST3006Z	SCREW	TU PWB+CHASSIS	2		
	15	GBST3006Z	SCREW	FUNC.PWB+CHASSI	2		
	16	FSYH3006-001	LAMP CASE(A)		1		
	17	FSYH4033-001	LCD FILTER(A)		1		
	18	VYH3784-001	LAMP CASE(B)		1		
	19	VYTT635-001	LCD FILTER(B)		1		
	20	GBST3006Z	SCREW	CPU PCB+CHASSIS	3		
	21	VJD5410-204	PICK COVER		1		
	22	SDSF2006M	SCREW	CD MECHA+P.COVE	4		
	23	E75609-001	INSULATOR		2		
	24	E75609-002	INSULATOR		2		
	25	FSYH3005-001	CD MECHA.HOLDER		1		
	26	SBSF3010Z	SCREW	CASE+HOLDER	2		
	27	VYH3790-002	CD MECHA HOLDER		1		
	28	SBSF3010Z	SCREW	CASE+HOLDER	1		
	29	VMA3215-001	SHIELD(CD)	FOR CD MECA WIR	1		
	30	VJD1177-003	CD CASE		1		
	31	E406507-001	LASER CAUTION		1		
	32	VYH3785-001	GEAR BKT		1		
	33	MXN-13FB12F	DC MOTOR ASS'Y	CD DOOR MOTOR	1		
	34	SPSP3004Z	SCREW	MOTOR+GEAR BKT	2		
	35	VYH7699-001	PULLEY	MOTOR	1		
	36	VKB3000-152	BELT	MOTOR	1		
	37	VYH7356-002	PULLEY	MOTOR	1		
	38	VYH7357-001	GEAR(A)	MOTOR	1		
	39	VYH7358-001	GEAR(B)	MOTOR	1		
	40	GBSF3006Z	SCREW	PULLY+GEAR BKT	1		
	41	SBSF3010Z	SCREW	CD CASE+GEAR BK	2		
	42	SBSF3010Z	SCREW	FOR WIRE CLANP	1		
	43	SBSF3006M	SCREW	SW PCB+CD CASE	1		
	44	SBSF3010Z	SCREW	SW PCB+CD CASE	1		
	45	VKZ4001-110	WIRE HOLDER		1		
	46	SBSF3010Z	SCREW	CD AMP PCB	4		
	47	SBSF3010Z	SCREW	RDS PCB+CD CASE	2		
	48	VJT2328-002	CD DOOR		1		
	49	VYH3726-001	CLAMPER		1		
	50	VYH7313-003	MAGNET		1		
	51	VYH7677-201	YOKE		1		
	52	SDSF2606Z	SCREW	FOR CLAMPER	1		
	53	VJG1137-005	REAR PANEL(T)		1		

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	54	SDSF3008Z	SCREW	CD+CHASSIS	2		
	55	SBSF3008N	SCREW		1		
		SBSF3008N	SCREW		1		
	57	VJC2411-205	METAL COVER		1		
	58	SDST3004M	SCREW	METAL COVER	4		
	59	SBSF3008N	SCREW	METAL COVER	1		
	60	FSYN4001-004T	NAME PLATE(T)		1		
	61	E70891-001	CLASS 1 LABEL		1		
	62	VYH7707-001	WIRE HOLDER	FOR SYSTEM 94HB	1		
	63	VJF4003-003	FOOT	METAL CHASSIS	4		
⚠	70	VMP0092-001	SYSTEM WIRE ASY	JWF01	1		
	71	VYH7734-001	HEAT SINK	FOR QF07	1		
	72	FSKL4006-001	SHIELD CASE	FOR PLL IC	1		
	75	VYSH101-009	SPACER	FOR SHIELD CASE	1		
	LCD01	VGL1146-001	LCD		1		
	LCD02	FSGL1003-001	LCD	RDS DISPLAY	1		

■ Analytic Drawing of CD Mechanism : Block No. M 5

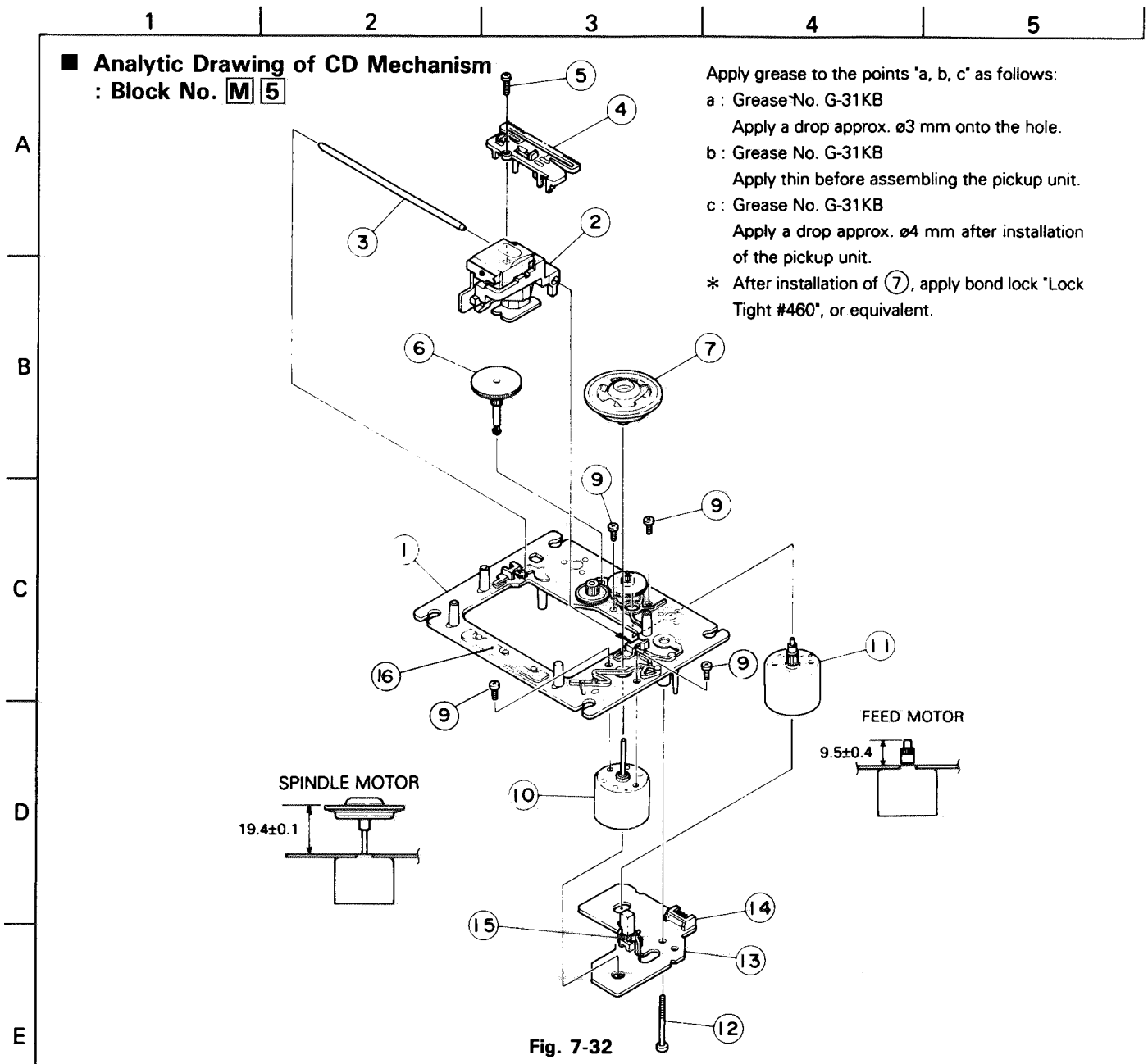


Fig. 7-32

■ CD Mechanism Parts List

BLOCK NO. M 5 M M

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	OPTICAL PICK-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW		1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	TURN TABLE		1		
	8	SDSP2003N	SCREW		1		
	10	E406783-001	DC MOTOR	SPINDLE	1		
	11	E406784-001SA	DC MOTOR ASSY	FEED	1		
	12	E75832-001	SPECIAL SCREW		1		
	13	EMW10190-001	PRINTED BOARD		1		
	14	EMV5109-006B	CONN.TERMINAL		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

8. Main Adjustments

■ Test Instruments reqired for adjustment

1. Low frequency oscillator
   (oscillation frequency: 50Hz to 20kHz)
   (Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
   VTT712 ····· Tape speed, wow & flutter 3kHz
   VTT724 ····· Reference level 1kHz
   TMT7036 ····· Playback frequency response
   VTT704 ····· Head azimuth 12.5kHz
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge····· Cassette type for CTG – N mechanism adjustment
7. Wow and Flutter meter , Frequency counter

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.
2. Replaced output load with a dummy and that lead wire to be used as big as posible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

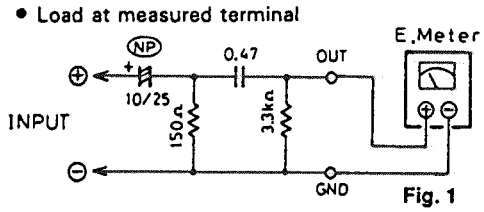


Fig. 1

■ Measuring conditions (Amplifier section)

Sopply voltage AC 230V(50/60Hz); E/G/GI/EN
AC240V(50/60Hz): B
Reference output : Speaker ····· 0 dBs (0.775V) / 4 Ω
: Headphone · – 10 dBs (0.245V)/ 32 Ω

● Standard position of functionswitches

Function switch ····· TAPE
Tape select switch ····· NORMAL
Timer , DOLBY NR , Active hyper bassswitch ····· OFF
MODE switch ····· MODE

● Standard position of volume control

BASS, TREBLE ····· CENTER
Test tape for REC/PB ····· Normal tape : UR8
Standard input level for 0VU recording
; Test point(CNA05)· – 11dBs
Standard frequency for alignment and measurement
As a general rule 1kHz, but unless otherwise specified.

■ Measuring condition (Radio section)

Refer to rating source ····· Tuner+B : DC 5.8V
Reference output ····· Speaker : 50mW(0.45 V) / 4 Ω
AM frequency ····· 400Hz modulation 30%
FM frequency ····· 400Hz modulation
frequency deviation 22.5kHz

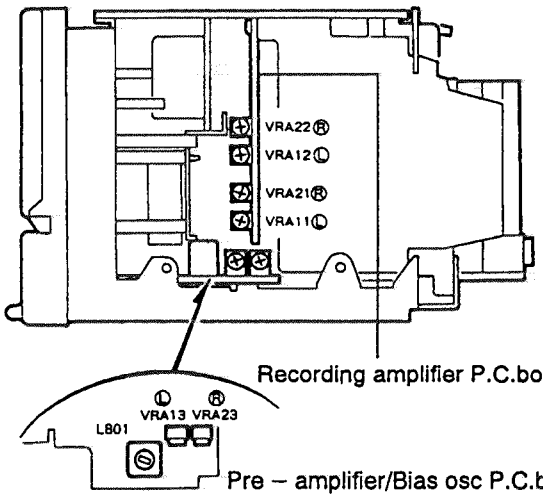
● Standard position of switches and controllers

Function ····· RADIO
Mode ····· STEREO
Active Hyper Bass ····· OFF
Bass/Treble ····· Center

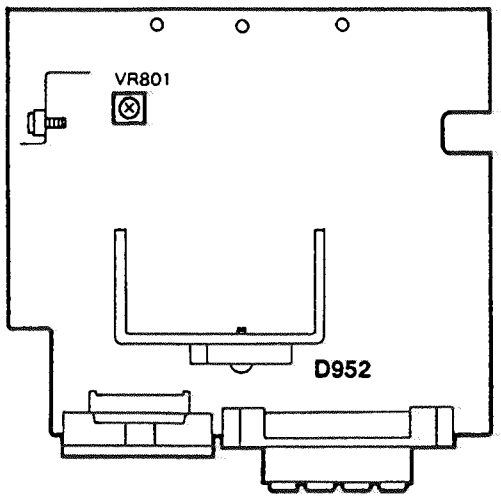
● Careful points for adjustment

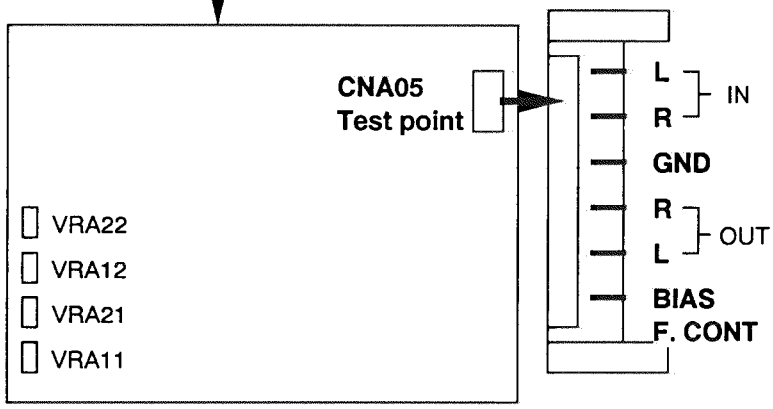
1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μF capacitor and 100k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
   Procedure of the steps of tracking should be kept.

● Tape deck/amplifier section

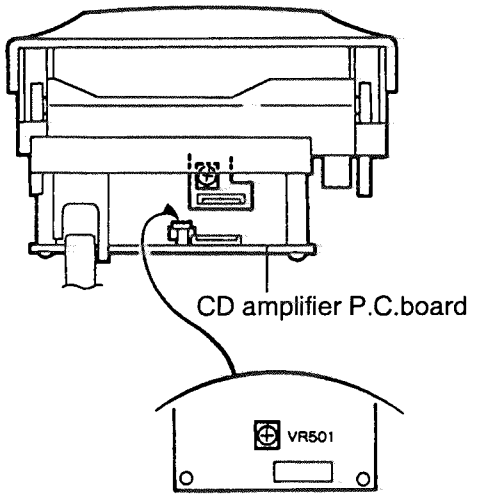


● Mechanism control P.C. board

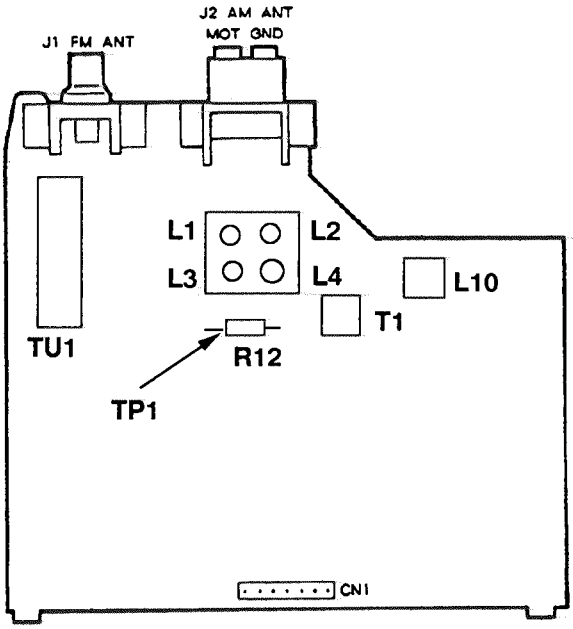




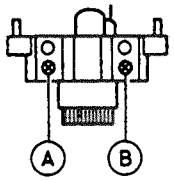
● CD Player assembly



● Tuner P.C.board

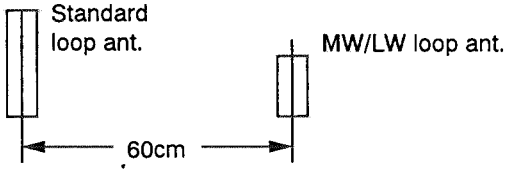


■ Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape :VTT704(12.5kHz) Test point :Headphones	Play Test tape VTT704(12.5kHz) and adjust the head azimuth so that output level to maximum and then phase discrepancy to minimum between the both channels. In case the auto reverse function to be aligned both direction for forward and reverse mode. **※ Whenever the head is changed the azimuth should be readjusted.**	Output :maximum Phase difference :minimum	Forward screw:A Reverse screw:B 
Tape speed adjustment	Test tape : VTT712(3kHz) Test point : Headphone	Playback the Test tape VTT712 (3kHz) and near the end posiition, Should the following specified tape speed allowance, if necessary for that to adjust the speed controller. In case that speed controller assemble position is not described on this working standard, controller has been assembled in the motor case. Tape sped allowance. controller/ semifixed resistor.	Normal speed : within 3000~3020Hz	VR801
Wow and flutter check	Test tape :VTT712(3kHz) Test point :Headphone	Playback the Test tape VTT712(3kHz) to tape start, middle and end position. Wow & flutter should be kept the following allowance on above three points. In case that doing the playback in auto reverse mode, generally to check the both direction on forward and reverse mode.	Playback FWD / REV should be less than o.2% (JIS RMS)	–
Playback output level adjustment	Test tape :VTT724(1kHz) Test point : CNA05	1. Turn tape select switch to Normal position. 2. Play Test tape VTT724(1kHz) and adjust VRA11(LcH) and VRA21(RcH) so that output level on test point CNA05 to – 11dB ±½ dB. 3. L, R difference level within 1dB.	Within – 11dB ±½dB 1dB	Lch : VRA11 Rch : VRA21
Frequency response check	Test tape :TMT – 7063 Test point : CNA05	Turn tape select switch to Normal position. Play Test tape TMT7063. Compare the level 12.5kHz with 1kHz. Then difference level should be within 0dB ± 3dB.	1k / 12.5kHz : within 0 ± 3dB	–

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
REC /PB frequency response adjustment	Test tape : UR(Normal tape) Standard frequency : 1kHz (REF. – 20dB) Test point :CNA05	Turn tape select switch to Normal position. Beat cut switch to normal position . Repeated REC/PB reference level reduced – 31dB. playback the recorded signal, adjust VRA13(Lch), and VRA23(Rch), so that the level of the 10kHz signal is 0dB ± 1dB to the level of the 1kHz signal.	1k/ 10 kHz : 0 ± 1 dB	Lch : VRA13 Rch : VRA23
Bias frequency adjustment	• Tape mode • Test point : CNA05 (Bias TP) ☆ Add 100k Ω between Test point and F.counter	Adjust L801 to 100kHz ± 0.2kHz at tuner FM position, then check bias frequency within 96.5kHz ± 0.5kHz at AM 531kHz. • Auto beat cut ——— Bias frequency FM position ——— 100kHz ± 0.2kHz AM531 ——— 96.5kHz ± 0.5kHz AM198 ——— 93.0kHz ± 1.0kHz	CNA05 :100 ± 0.2kHz	L801
Rec./ PB sensitivity adjustment	Test tape : UR(Normal tape) Test point : CNA05	Turn NR switch to off , tape select switch to Normal position and beat cut switch to normal position. Record the standard level (– 20dB) reduced – 31dB. 1kHz. Adjust VRA12(Lch), VRA22(Rch) so that Test point output level in play and record mode.	– 31dB	Lch :VRA12 Rch :VRA22
• Bias leakage check	Test point : Speaker out	After all alignment, under any position the function and select switches. Bias leakage level should be kept as follows. Speaker terminal : Less than – 40dBs	– Less than : – 40dBs	–
REC/PB distortion check	Test point : CNA05	Turn tape select switch to normal, beat cut to normal. Play out distortion should be within 5%.	Within 5%	–

■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
AM IF adjust		No alignment is required in this section.	–	–
FM IF adjust		No alignment is required in this section.	–	–
AM RF tracking adjust		No alignment is required as AM coil block has been preset.  Note : For MW/LW measurement, SSG reading minus 20dB loss to obtain actual reading.	–	–
FM RF tracking adjust		No alignment is required as coil has been preset.	–	–
RDS Function check		• RDS operate at tuner FM mode only. • No remote control function for RDS. • Press RDS mode +PTY SEARCH together for more than 2 seconds, RDS LCD display all characters.	–	–
RDS Sensitivity check		RDS SSG input signal to test FM antenna point, with RDS SSG pattern set to "1" and FM at 98MHz signal. Then adjust the output level to a nominal value of 23dB, such that "RDS" & "PS" appears in display, follow by "TESTING 2" DISPLAY.	–	–

■ CD player Section (Test point positions: refer to page 63)

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Test disc :CTS1000 Oscilloscope **Note 1** Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. **Note 2** The oscilloscope input should be DC – coupled. **Note 3** VREF: Ground level on the oscilloscope.	①Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ②Replay the test disc CTS1000. ③When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤Repeat the steps ②~④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501

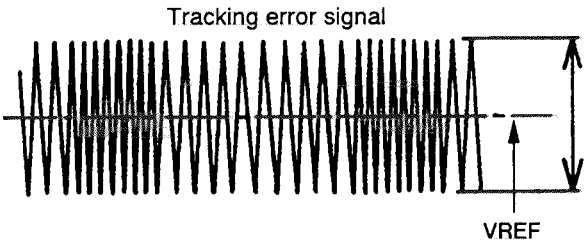
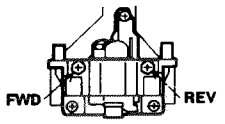
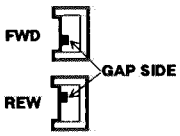
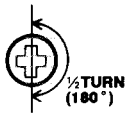
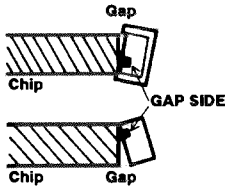
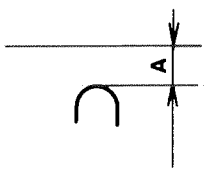


Fig. 6-6

■ Cassette mechanism part

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
1. Thrust gap flywheel		Check with finger feeling.	0.2 ~ 1.0mm (BOTH FWD, REV)	
2. Mecha operation	Mecha control	Following operation to be normal (Both FWD, REV) and, in that time, noise, vibration should not occur. (Running noise during PLAY, FF, REW, is accepted if noise can't be heard with loading cassette type.)	PLAY, DIR, FF, REW, SCAN (FF, REW), PAUSE, STOP	
3. Signal of auto stop	Mecha control	Lead light to be and off normally play (SIG) (Caution: Without tape fwd side only, led to be on and off.)		
4. Leaf switch position		1. All switch leds, should light when putting cassette gauge for confirming leaf SW on. 2. All SW leds should not light when putting cassette gauge for confirming leaf SW off.		
5−1. Azimuth	M300 gauge t=3.4mm chip VVT 704(12.5KHz)	Adjust azimuth to the peak point by play back 12.5KHz. At that time, difference Lch− Rch below 4dB and difference Lch− Rch FWD/REV below 3dB.		
5−2. Guide height	Head amp	t=3.4mm chip can be inserted into guide of R/P head after adjusting azimuth.(t=3.4mm chip can after be inserted into dummy guide, both FWD, REV.)		
5−3. Tape running		Curl running should not occur at guide of R/P head with loading C−90 at midle.(Both FWD, REV)		MECHA CONTROL
	Upper side curling of FWD, lower side curling of REV.	Curling at oposite of gap is corrected by turning azimuth screw within ½ turns can be acceptable.(After checking above item azimuth screw to be returned to previous position.)		C−90
	Lower side curing of FWD, upper side curling of REV	Curling at gap side is corrected by turning azimuth screw within ¼ turns can be acceptable (After checking above item, azimuth screw to be returned to be returned to previous position.)		
5−4. Stertching		Stretching not to occur at the beginning of C−90. (Without pad)	Sampling check	C−90
5−5. Head position	IN PLAY A 3.10~3.65mm (3.25~3.80) IN MS A 4.4~5.1mm (1.8~2.5)			Head position jig. Figuires in ( ) is against standard cassette guide
6. Separation		Reversing L and R crass talk not to occur by play back 1KHz.		Mecha control OSC scope VVT 752

9. Block Diagram

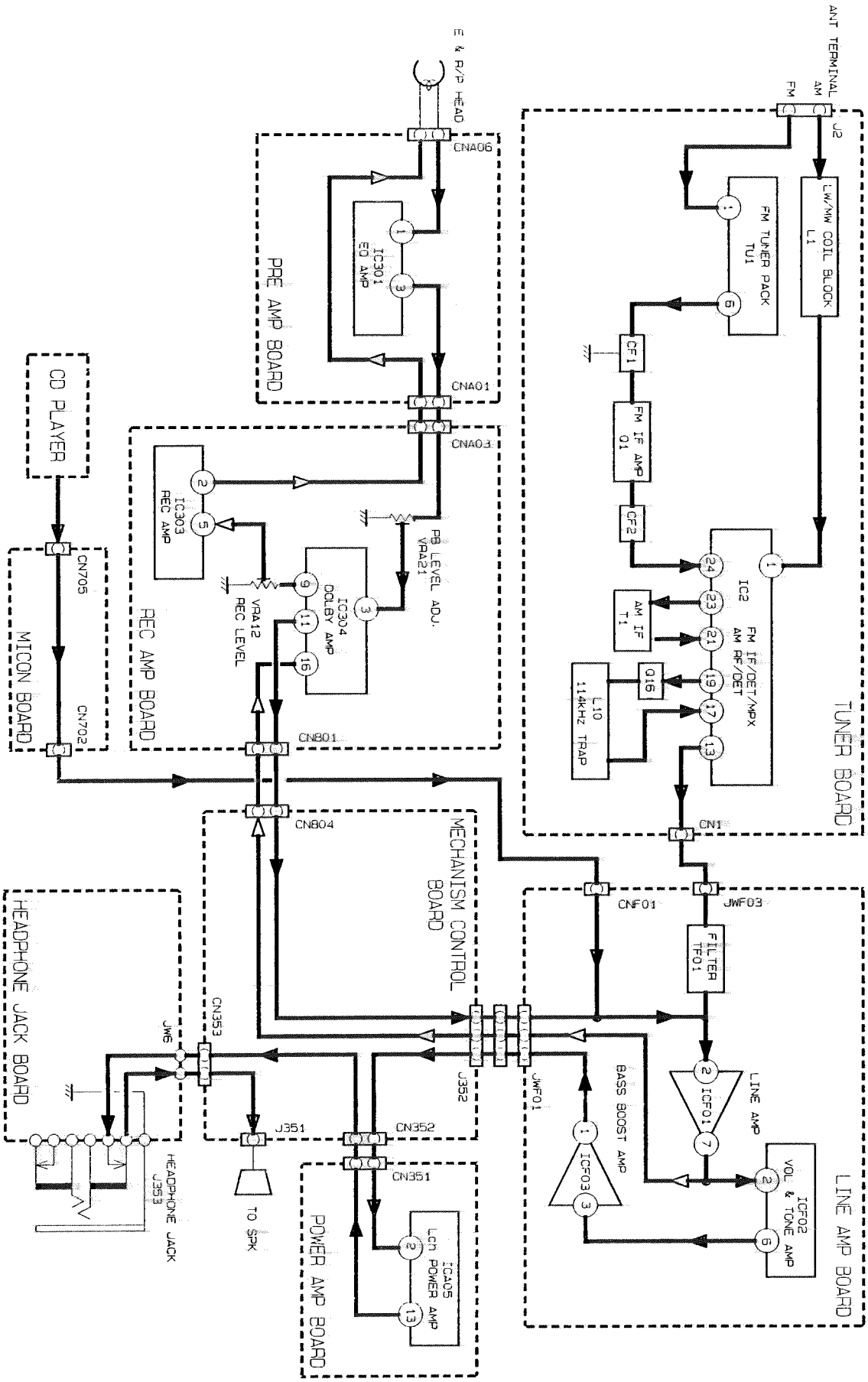


Fig. 9-1

■ IC Block diagram

● IC601 : TC9236AF (CD 1 CHIP PROSSESSER)

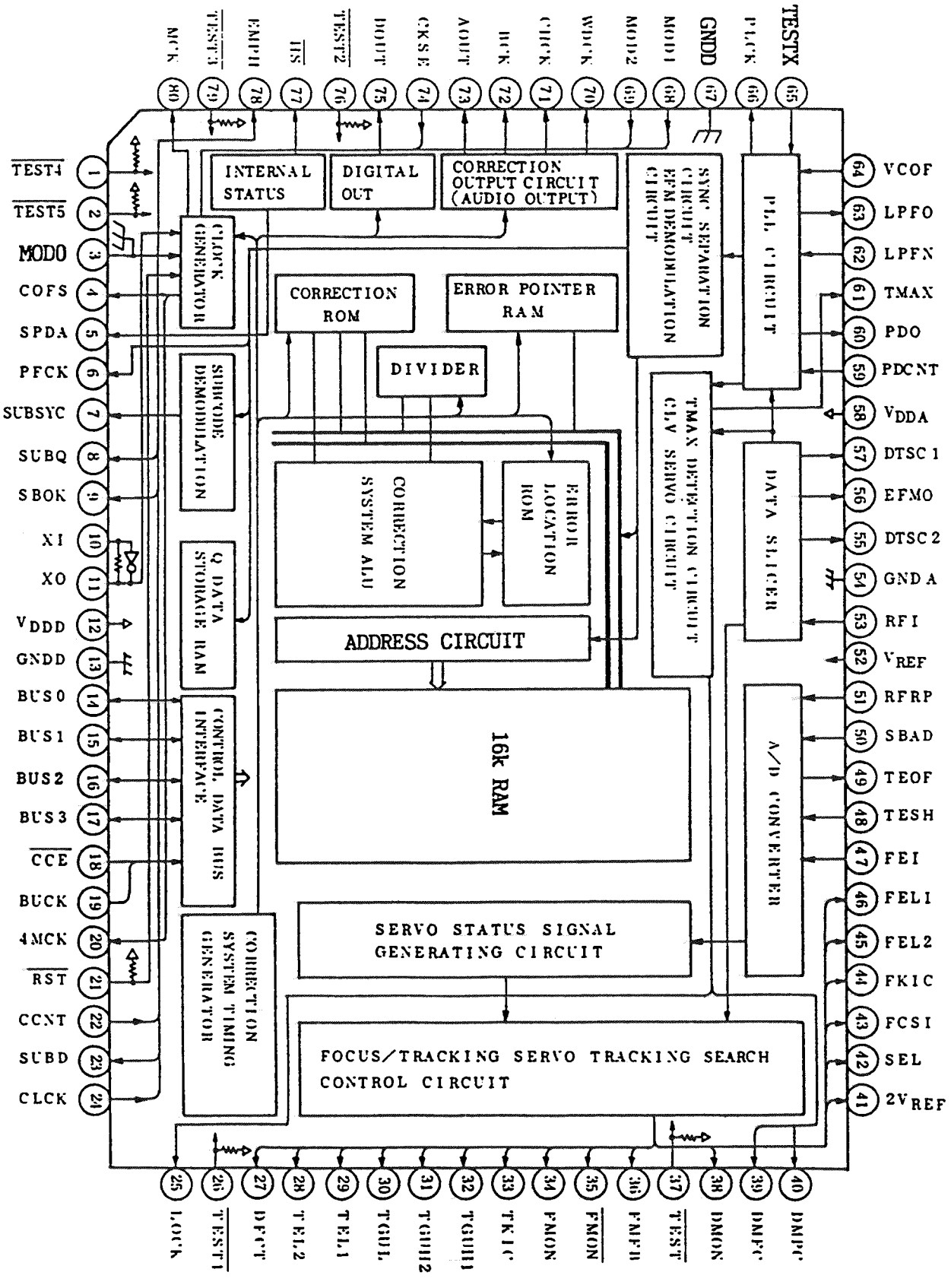


Fig. 9-2

● IC704 : μ PD75308GF – R59 (RDS MICROCOMUPUTER)

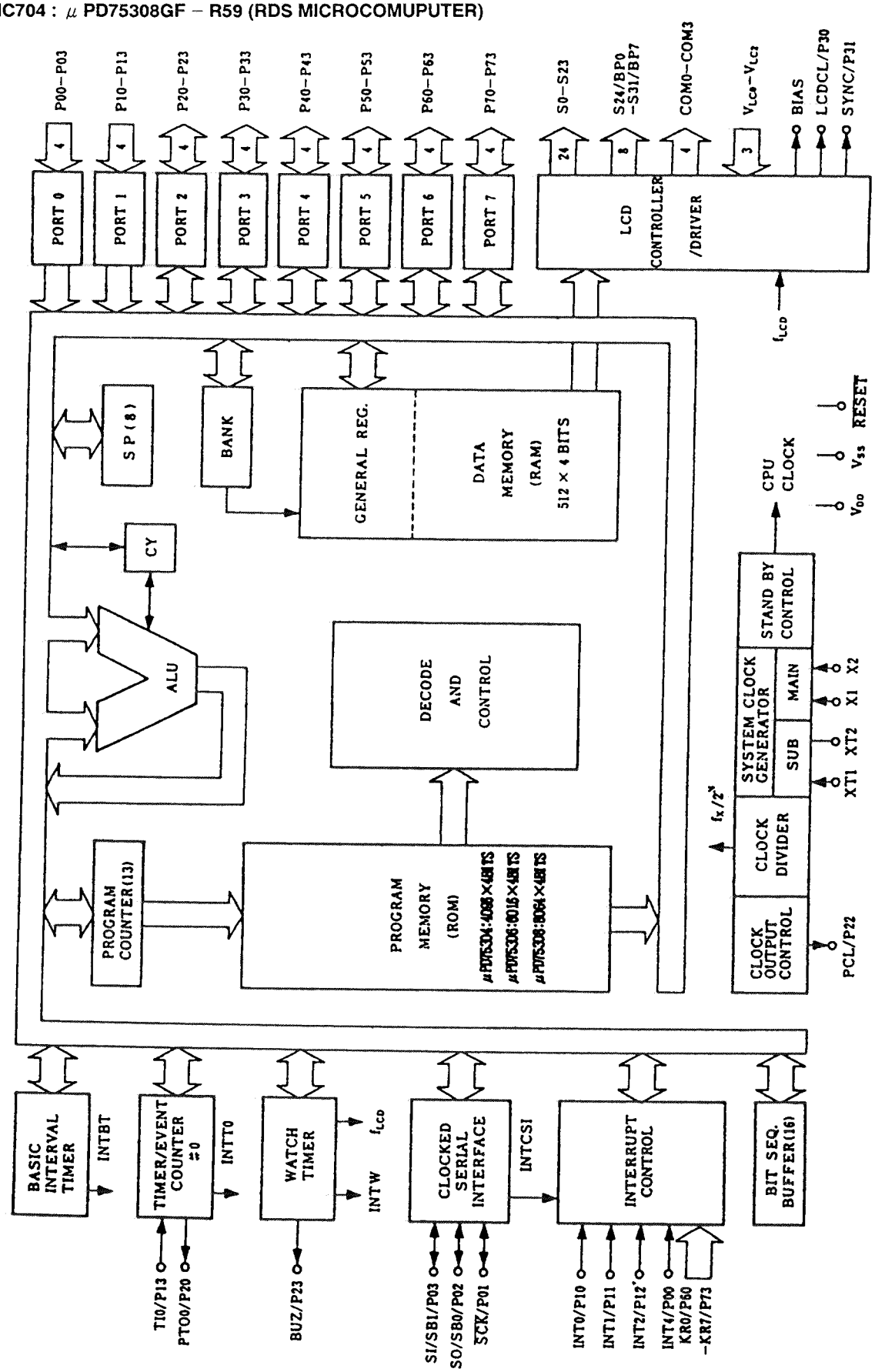


Fig. 9-3

■ IC701 : MN171603 – JJE (SYSTEM MICROCOMPUTER)

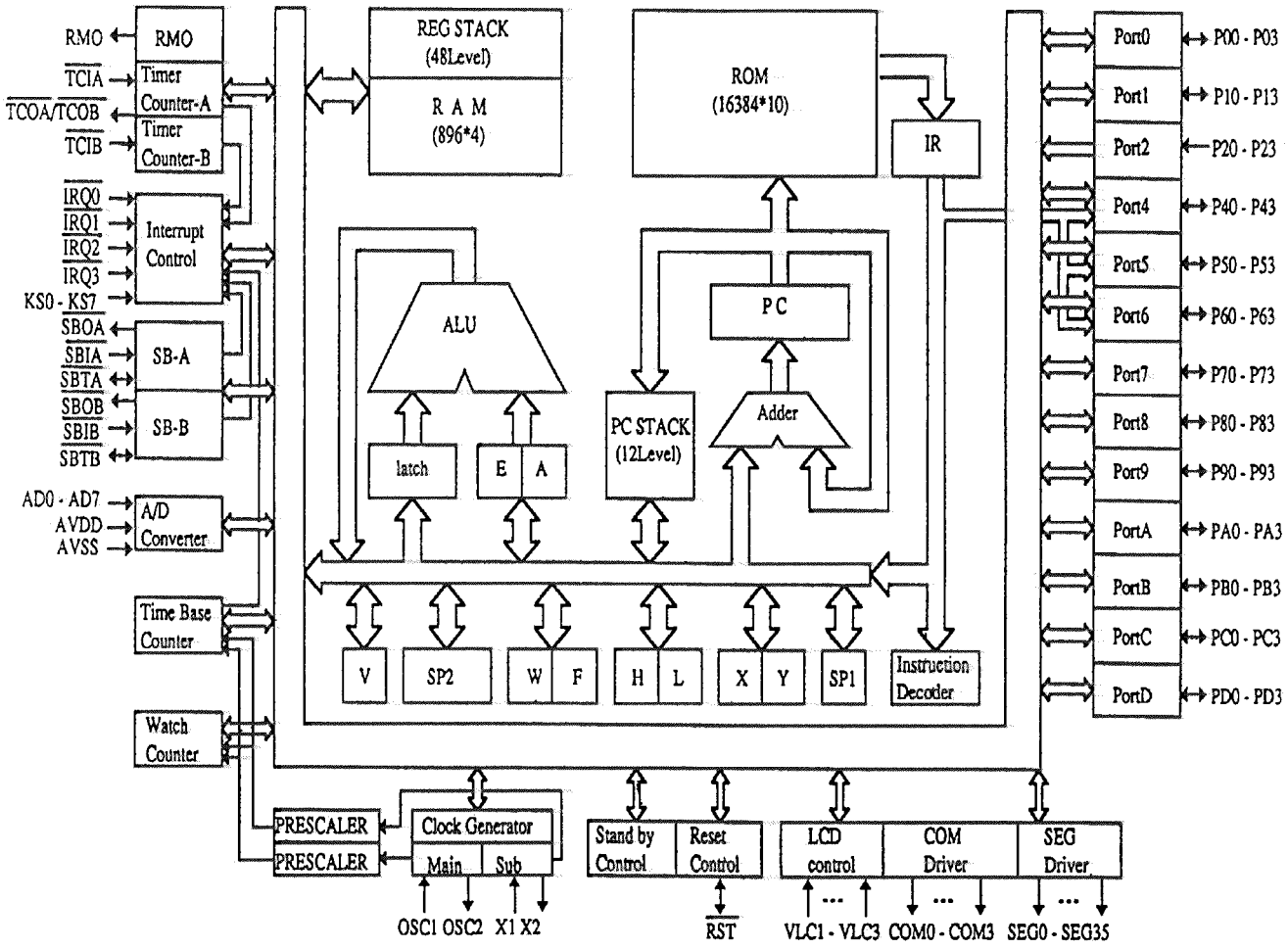
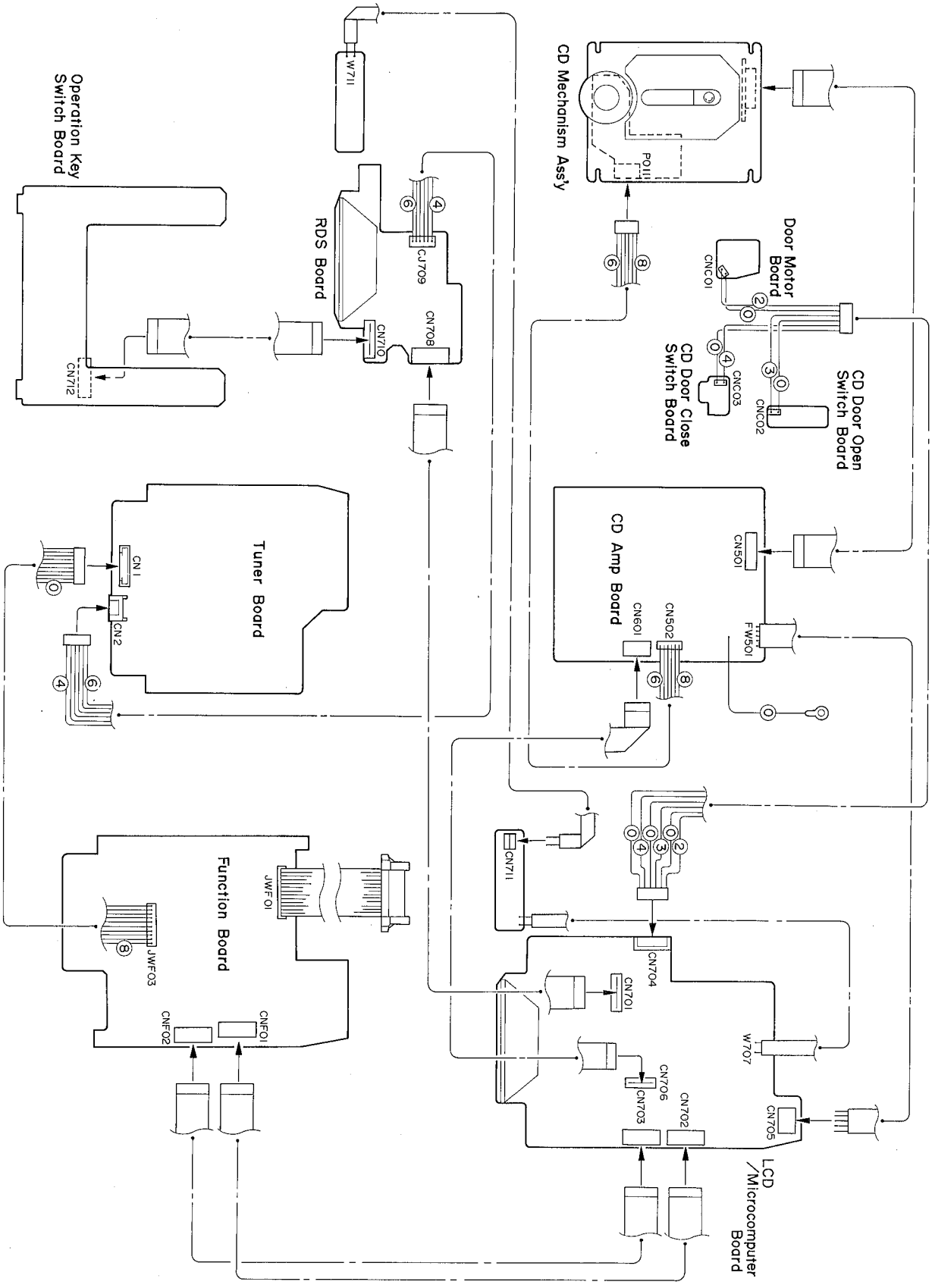


Fig. 9-4

10. Wiring Connections

■ CD/Tuner Section

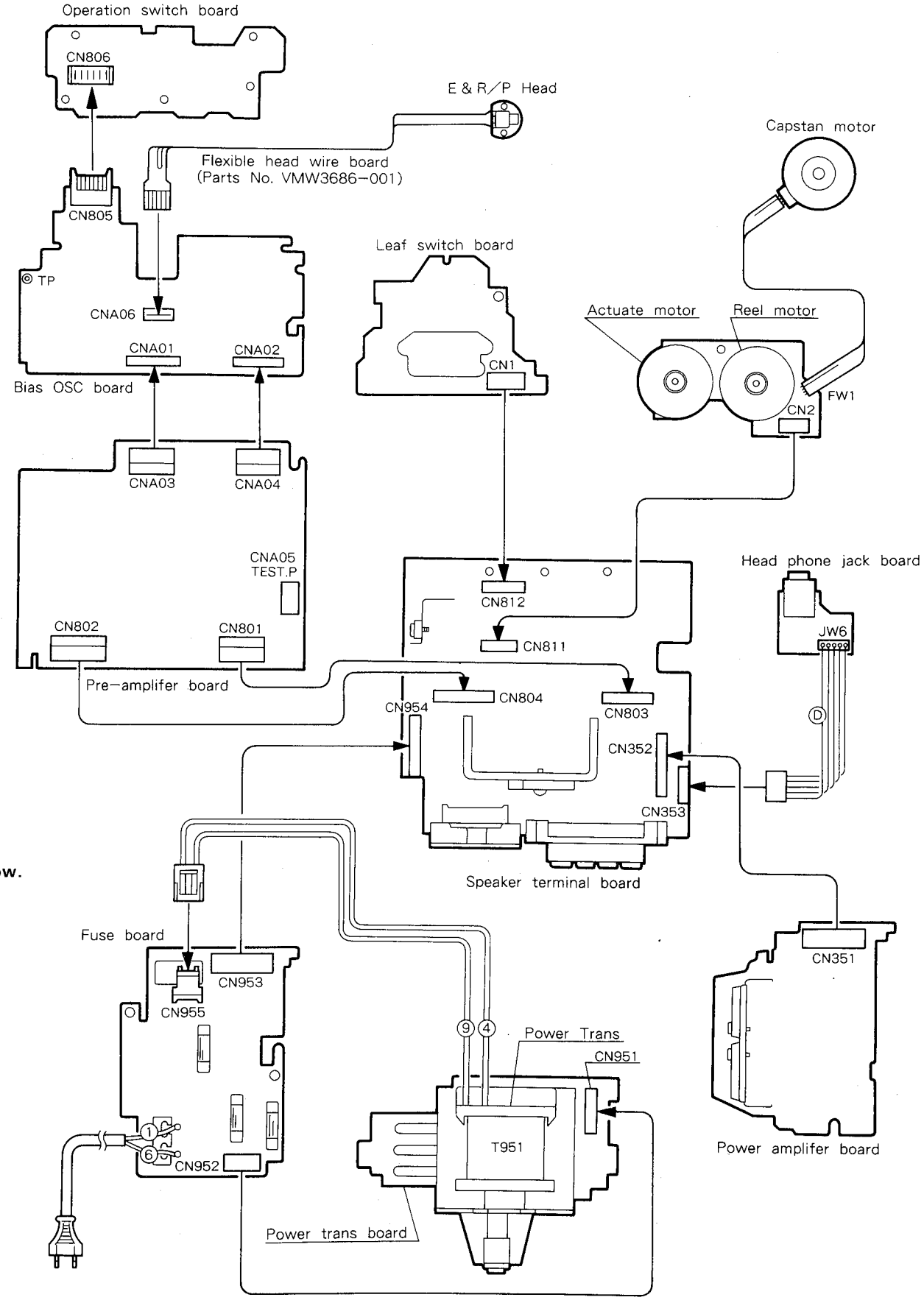


Color codes are sho

1 ..... Brow
2 ..... Red
3 ..... Orang
4 ..... Yellov
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Gray
9 ..... White
0 ..... Black
D ..... Pink
C ..... Light

Fig. 10-1

■ Tape Deck/Amplifier Section

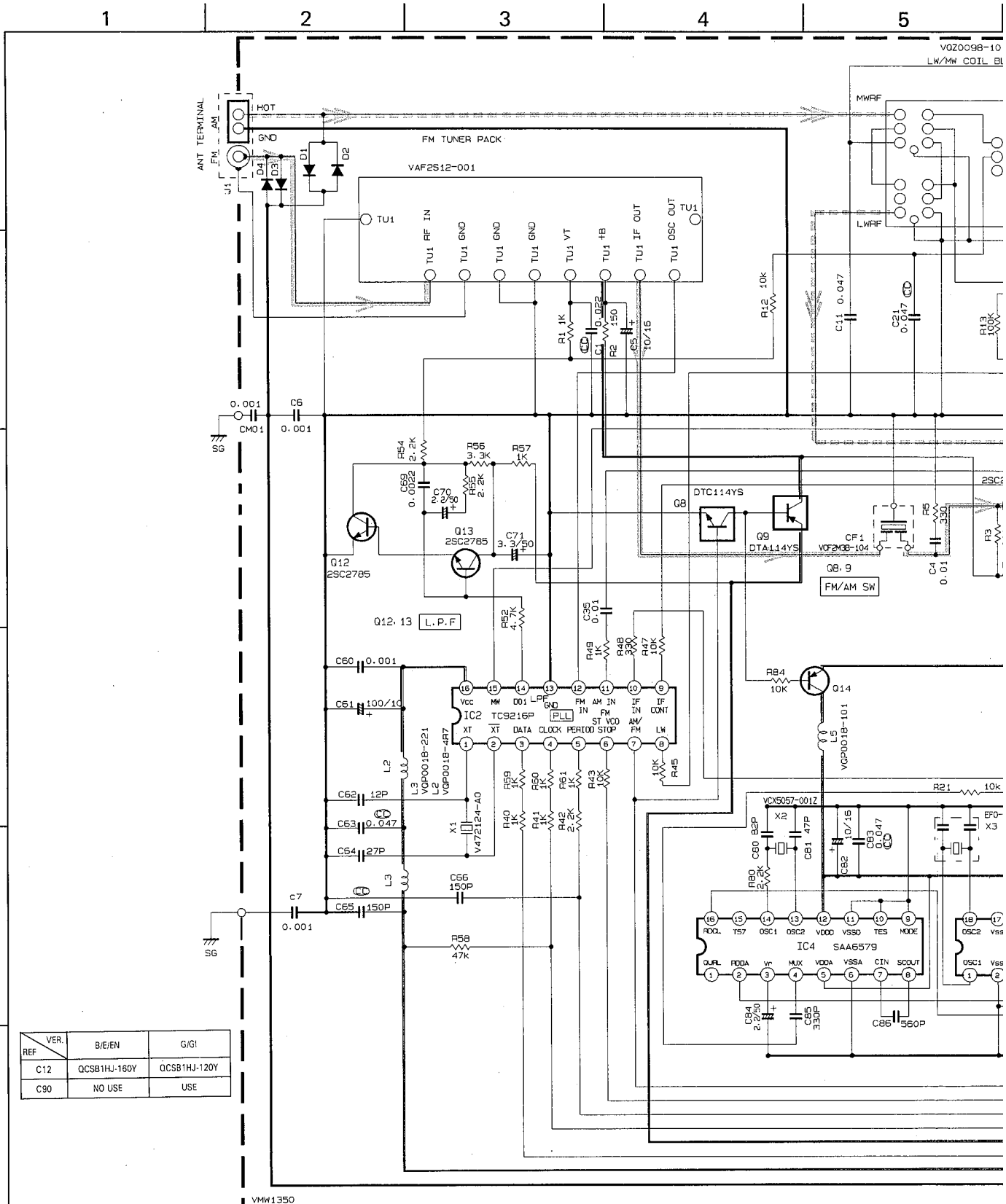


ıre shown below.

. Brown
. Red
. Orange
. Yellow
. Green
. Blue
. Violet
. Gray
. White
. Black
. Pink
. Light Blue

Fig. 10-2

11. Standard Schematic Diagram ■ Tuner Circuit: Drawing No. FSDH4001-005

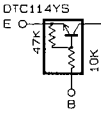


REF \ VER.	B/E/EN	G/GI
C12	QCSB1HJ-160Y	QCSB1HJ-120Y
C90	NO USE	USE

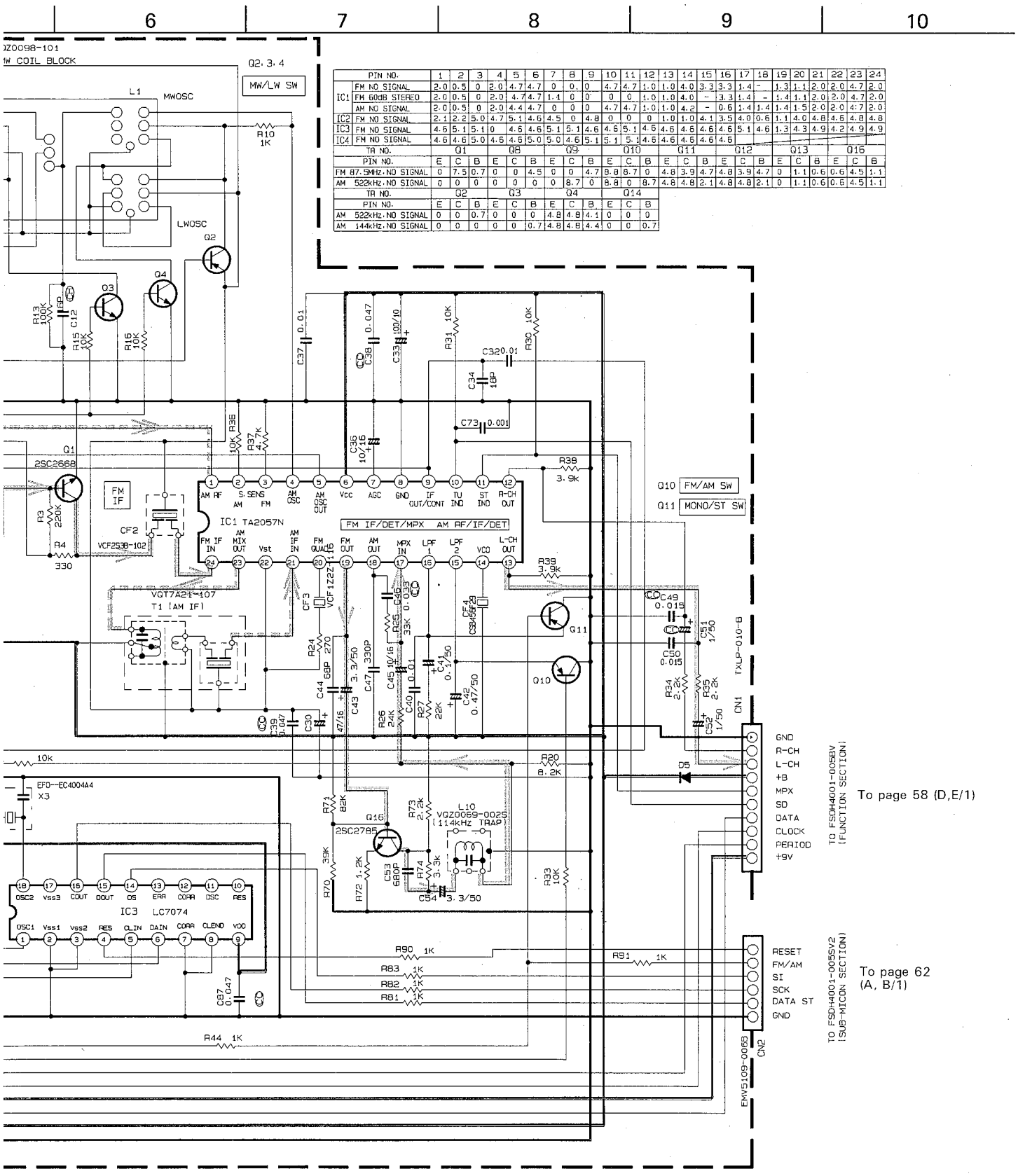
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM (Ω).
4. ALL CAPACITANCE VALUES ARE IN μF (P=pF).
5. ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)
6. SI.DIODES(▶|) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HS5104TJ.
7. PARTS NO. OF TRANSISTOR ARE AS FOLLOWS.

Q1	2SC2668(O)	Q2, Q10, Q11, Q14	2SA1175(HFE)
Q3, Q4, Q12, Q13, Q16	2SC2785(E,F)	Q9	DTA114YS
Q8	DTC114YS		

8. INSIDE OF DIGIT



I-005TW

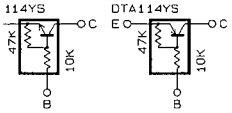


PIN NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	4.7	4.7	0	0	0	4.7	4.7	1.0	1.0	4.0	3.3	3.3	1.4	-	1.3	1.1	2.0	2.0	4.7	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	4.7	4.7	1.1	0	0	0	0	1.0	1.0	4.0	-	3.3	1.4	-	1.4	1.1	2.0	2.0	4.7	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	4.4	4.7	0	0	0	4.7	4.7	1.0	1.0	4.2	-	0.6	1.4	1.4	1.4	1.5	2.0	2.0	4.7	2.0
IC2	FM NO SIGNAL	2.1	2.2	5.0	4.7	5.1	4.6	4.5	0	4.8	0	0	0	1.0	1.0	4.1	3.5	4.0	0.6	1.1	4.0	4.8	4.6	4.8	4.8
IC3	FM NO SIGNAL	4.6	5.1	5.1	0	4.6	4.6	5.1	5.1	4.6	4.6	5.1	4.6	4.6	4.6	4.6	4.6	5.1	4.6	1.3	4.3	4.9	4.2	4.9	4.9
IC4	FM NO SIGNAL	4.6	4.6	5.0	4.6	4.6	5.0	5.0	4.6	5.1	5.1	5.1	4.6	4.6	4.6	4.6	4.6								

TR NO.	Q1			Q8			Q9			Q10			Q11			Q12			Q13			Q16		
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	B
FM 87.5MHz NO SIGNAL	0	7.5	0.7	0	0	4.5	0	0	4.7	8.8	8.7	0	4.8	3.9	4.7	4.8	3.9	4.7	0	1.1	0.6	0.6	4.5	1.1
AM 522kHz NO SIGNAL	0	0	0	0	0	0	0	8.7	0	8.8	0	8.7	4.8	4.8	2.1	4.8	4.8	2.1	0	1.1	0.6	0.6	4.5	1.1

TR NO.	Q2			Q3			Q4			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
AM 522kHz NO SIGNAL	0	0	0.7	0	0	0	4.8	4.8	4.1	0	0	0
AM 144kHz NO SIGNAL	0	0	0	0	0	0.7	4.8	4.8	4.4	0	0	0.7

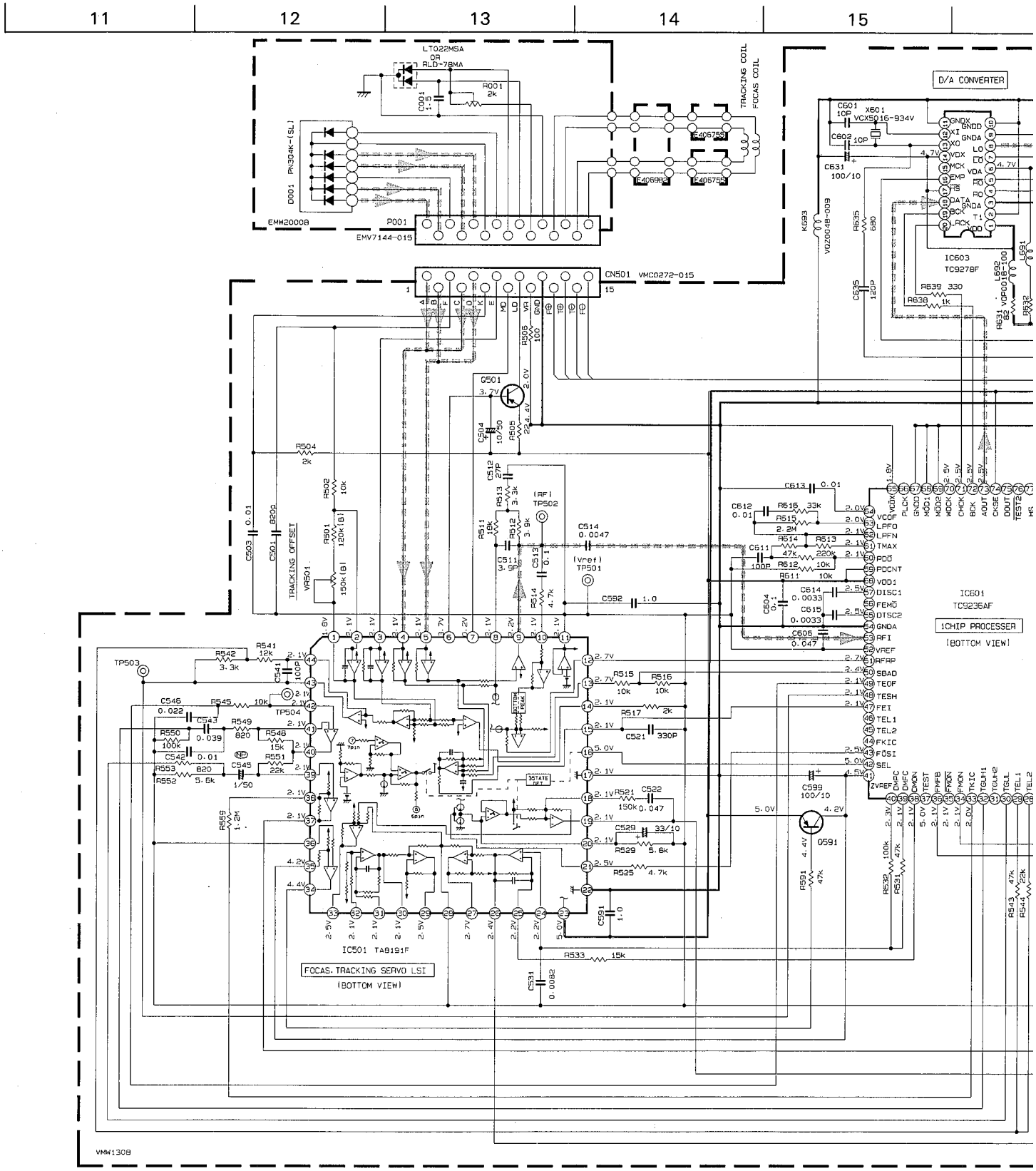
OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



FM Signal
AM Signal
+B Line

Fig. 11-1

■ CD Amplifier Circuit: Drawing No. FSDH4001-005CV



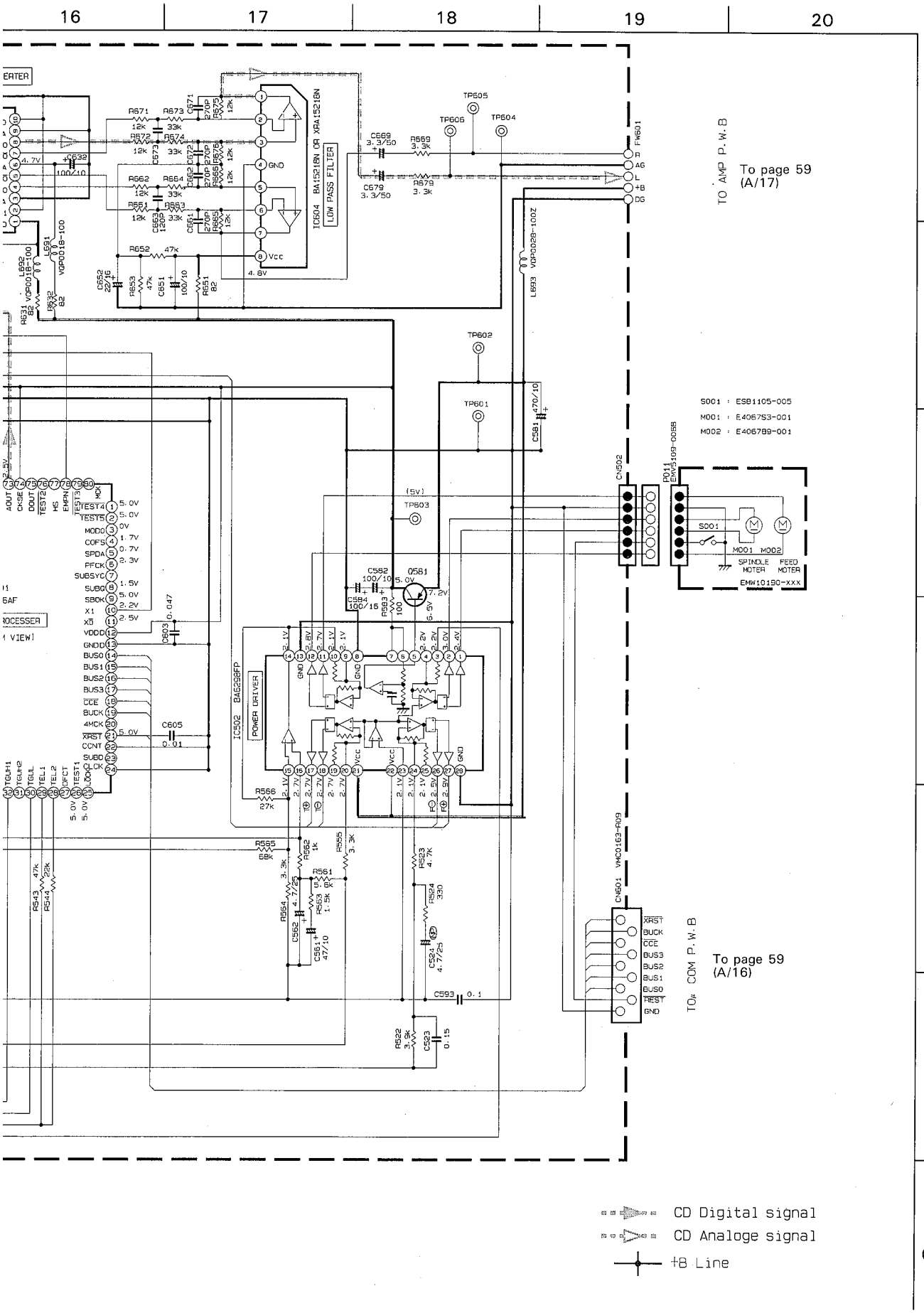
NOTES

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

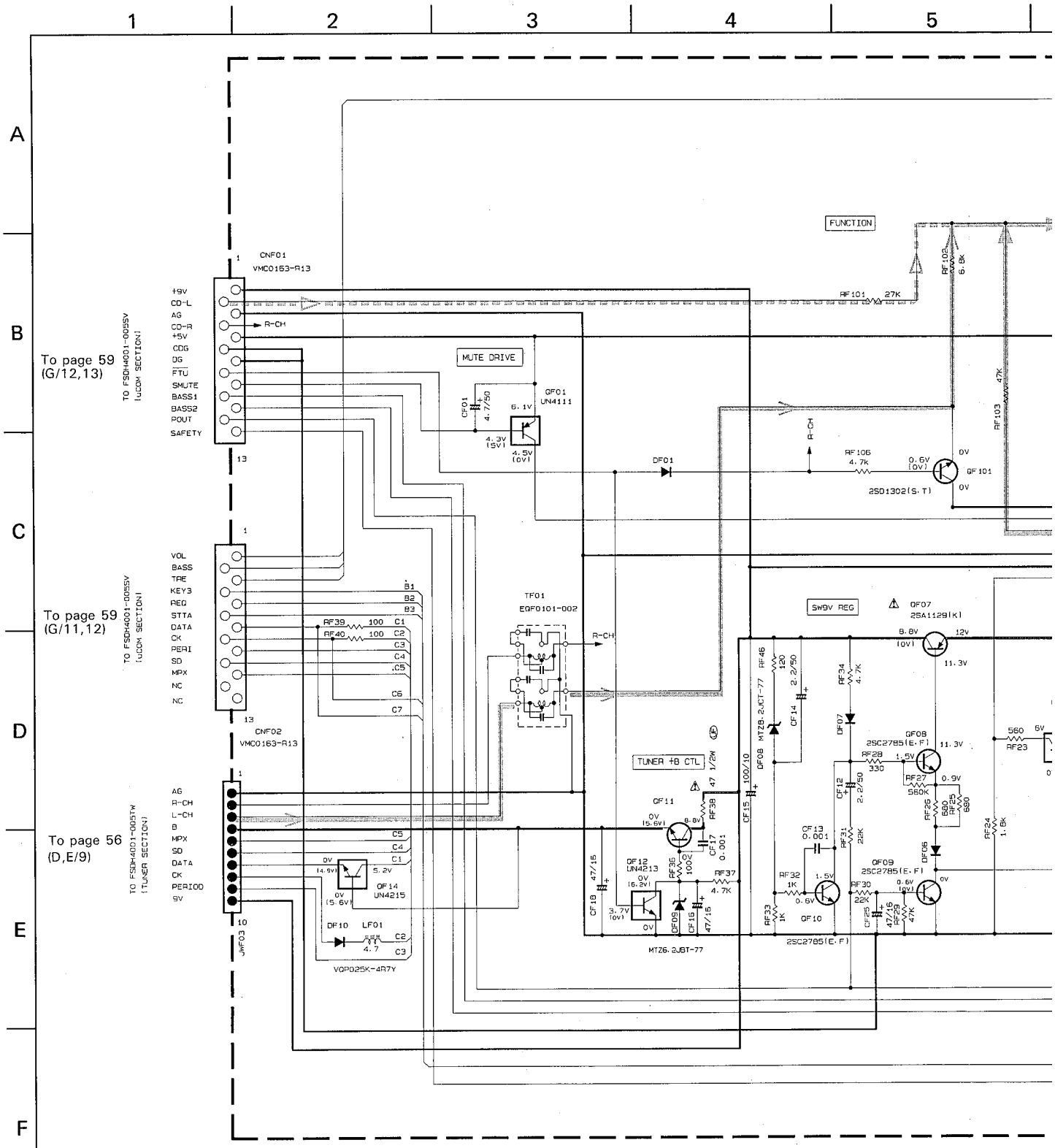
Q501	2SA952(L,K)
Q581	
Q591	2SA1309(A,S) OR 2SA1175(HFE) OR 2SA933S(RS)

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

Fig. 11-2


16
17
18
19
20
A
B
C
D
E
F
G
IC504 BA15218N OR XRA15218N
LOW PASS FILTER
IC502 BA6298FP
POWER DRIVER
TO AMP P.W.B
To page 59 (A/17)
To page 59 (A/16)
TO COM P.W.B
S001 : ESB1105-005
M001 : E40783-001
M002 : E40678-001
SPINDLE MOTER
FEED MOTER
EMW1019-XXX
CD Digital signal
CD Analoge signal
+B Line

■ Function/Line Amplifier Circuit: Drawing No. FSDH4001-005BV



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD MODE (DC 12V INPUT)
   SOUND MODE-NORMAL (BASS/TRE 0/0)
   VOLUME LEVEL-18

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA165 (WITHOUT DF04/DF08/DF09)
   ALL OF NPN TRANSISTORS ARE 2SC2785 OR 2SC1740S

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

REF \ VER.	B/E/EN	G/GI
CF26	QCB81HK-151Y	QCF11HP-473

TABLE 1 *MARK PARTS

CF301	G/GI ONLY

TABLE 2 DIGITAL TR LIST

QF01	UN4111 OR DTA114ES	QF12	
QF05	UN411E OR DTA144WS	QF14	

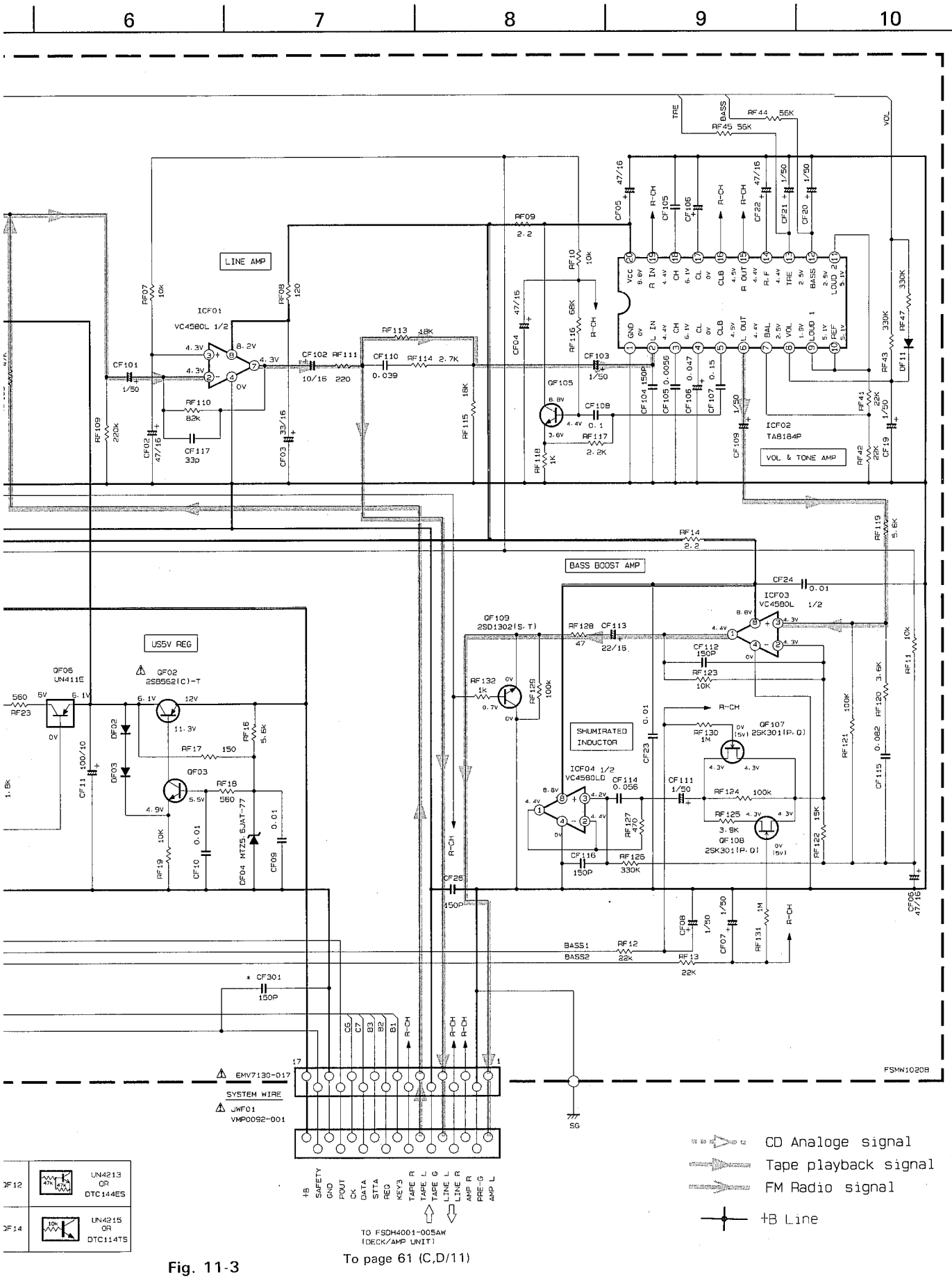


Fig. 11-3

To page 61 (C,D/11)

■ LCD/Microcomputer Circuit: Drawing No. FSDH4001-005SV1

11	12	13	14	15

To page 57 (E,F/

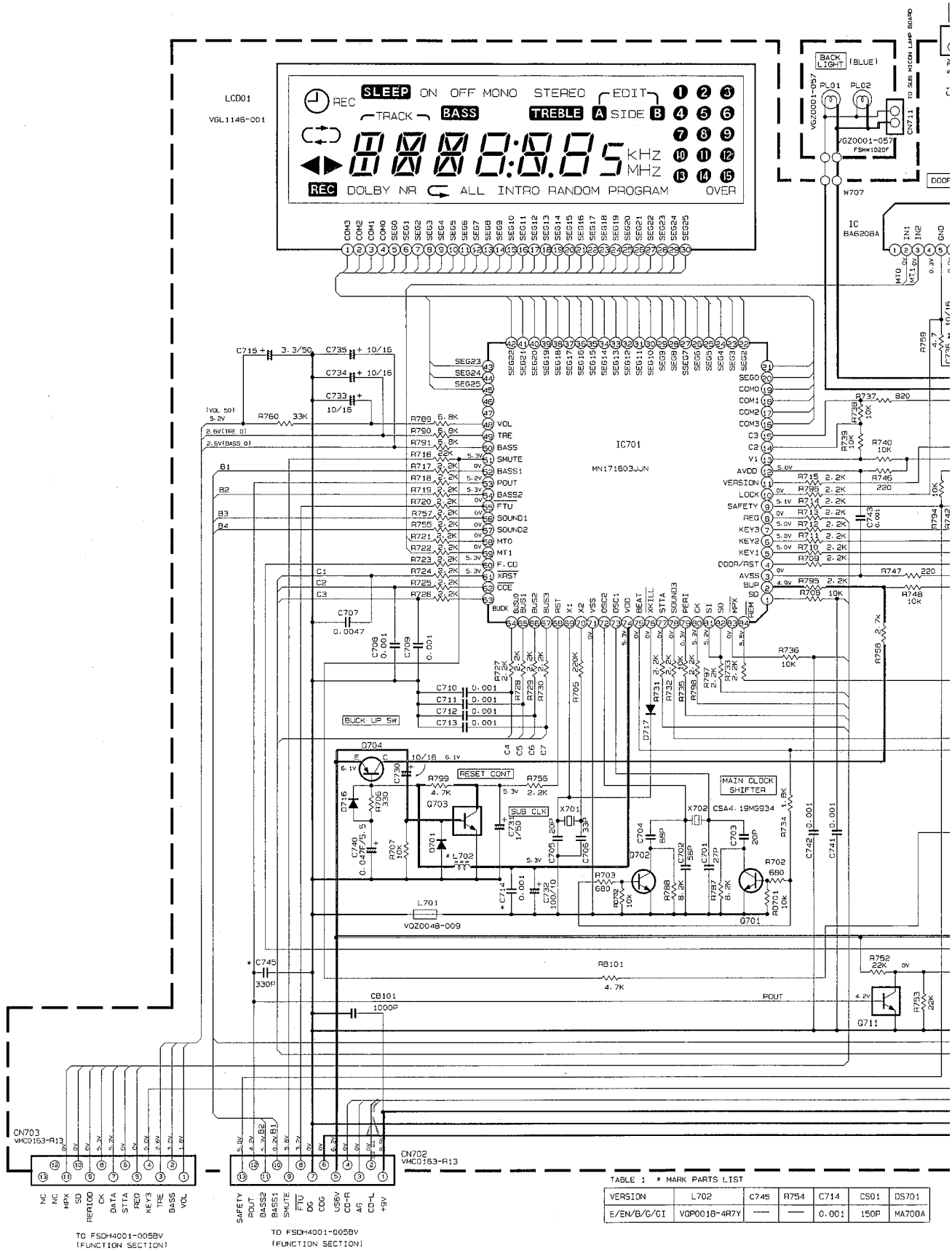


TABLE 1 * MARK PARTS LIST

VERSION	L702	C745	R754	C714	CS01	DS701
E/EN/B/G/GI	VQP0018-4R7Y	——	——	0.001	150P	MA700A

Fig. 11-4

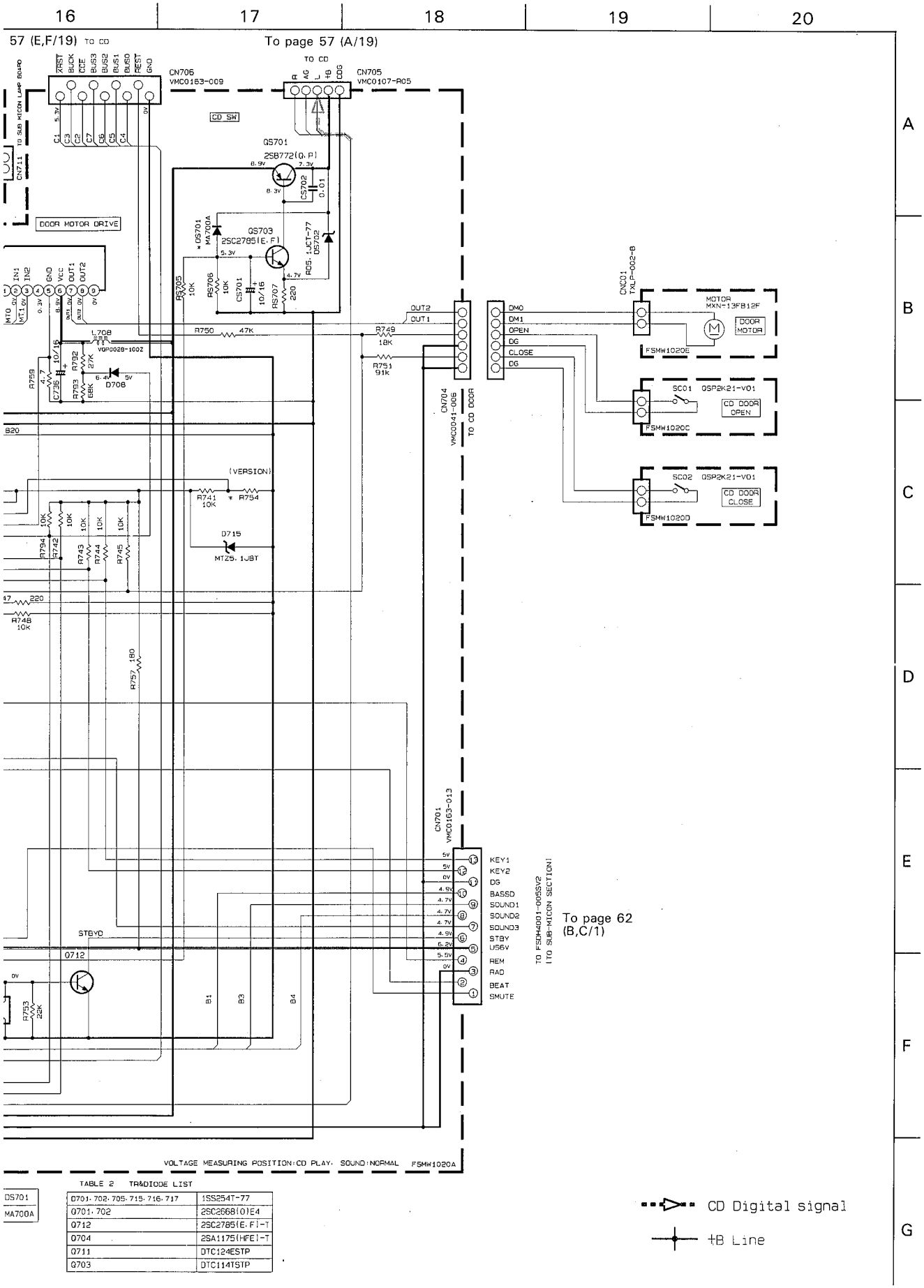


TABLE 2 TR&DIODE LIST

0701,702,705,715,716,717	1SS254T-77
0701,702	2SC2668(O)E4
0712	2SC2785(E,F)-T
0704	2SA1175(HFE)-T
0711	DTC124ESTP
0703	DTC114TSTP

DS701 MA700A

■ Pre-Amplifier Circuit: Drawing No. FSDH4001-005PV

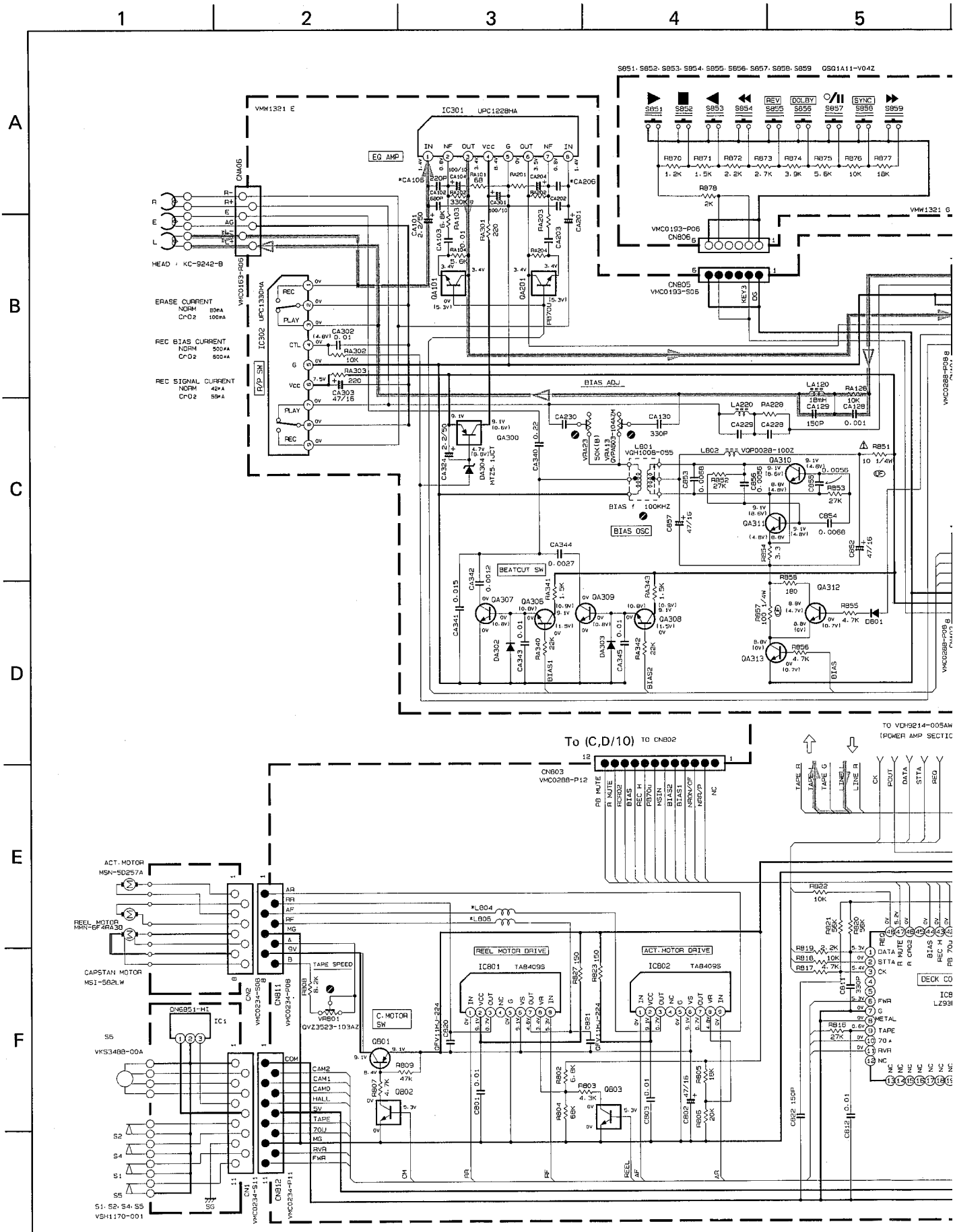
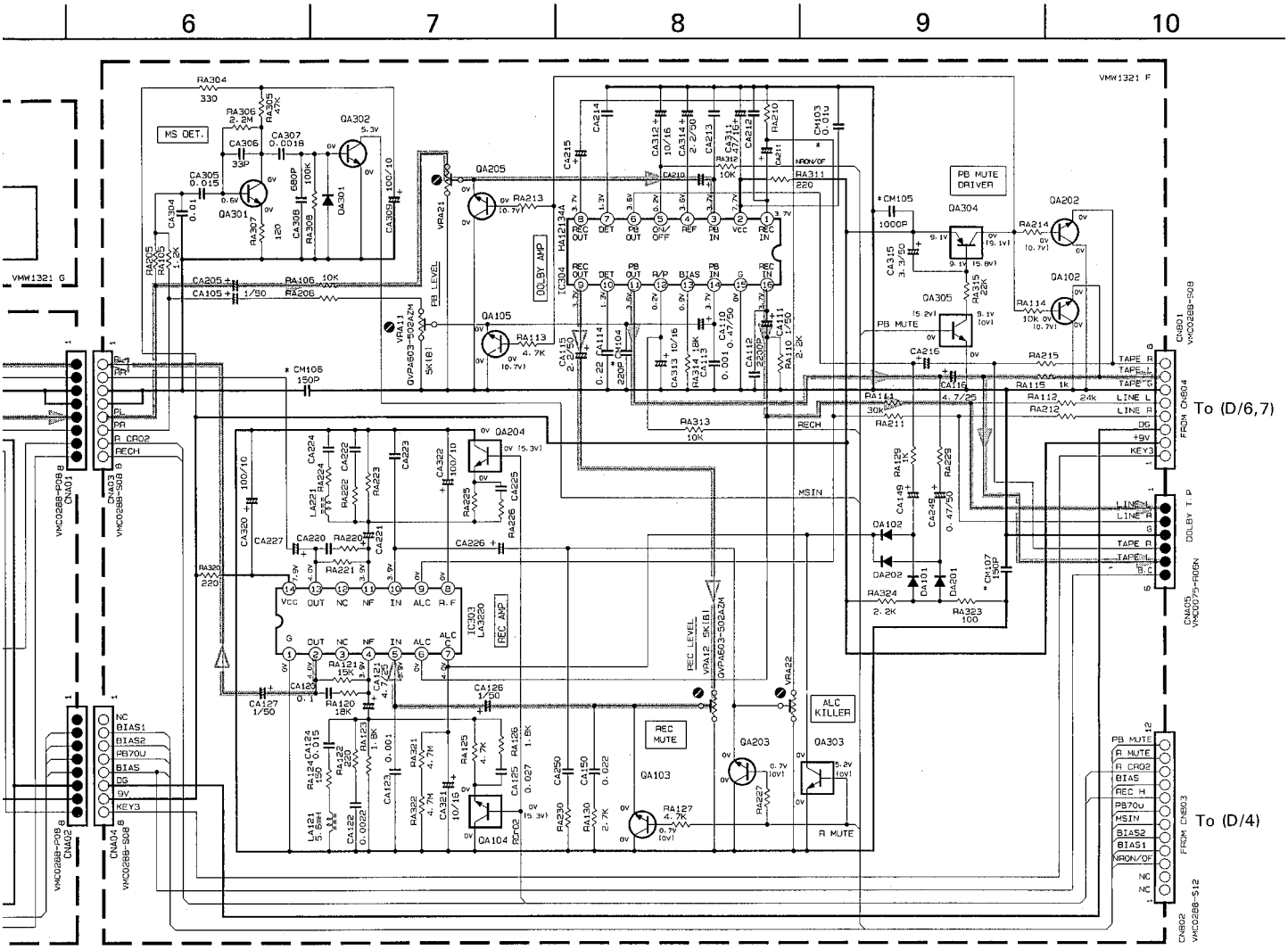


Fig. 1



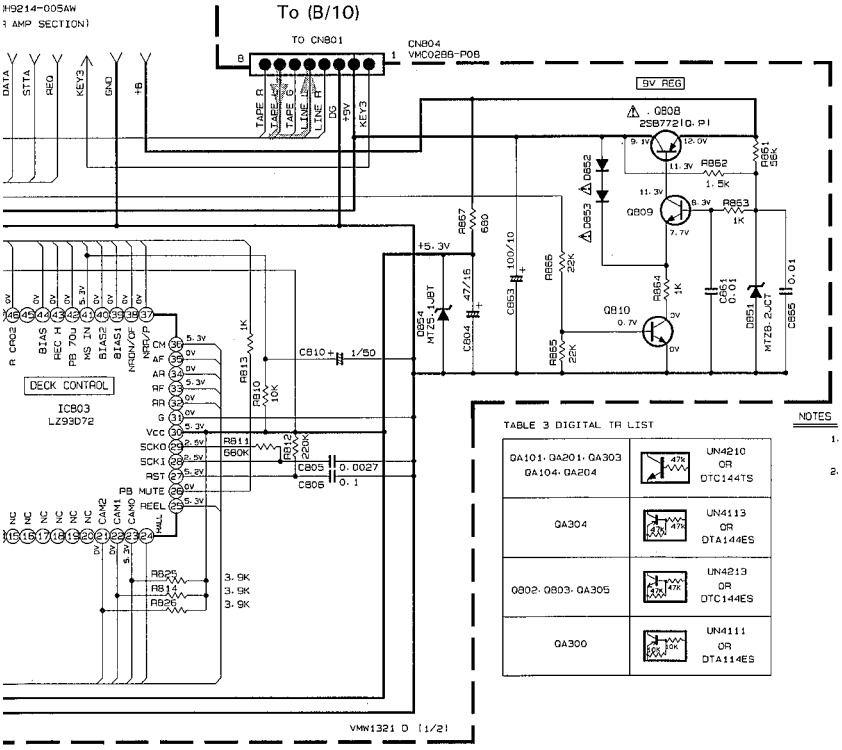


TABLE 1 T.R LIST

QA301, QA302, QA306 QA308, QB09, QB10	2SC2785(E, F) OR 2SC1740S(R, S)
QA102, QA103, QA105 QA202, QA203, QA205 QA310, QA311, QA312 QA313	2SD1302(S, T)
QA307, QA309	2SC1845(E, U)
QB01	2SA952(L, K)

TABLE 2 * MARK PARTS LIST

REF. \ VER.	E/EN	B	G/GI
CA106/206	NO USE	NO USE	USE
CM103	NO USE	NO USE	USE
CM104	NO USE	NO USE	USE
CM105	NO USE	NO USE	USE
CM106	NO USE	NO USE	USE

TABLE 3 DIGITAL TR LIST

QA101, QA201, QA303 QA104, QA204	UN4210 OR DTC144TS
QA304	UN4113 OR DTA144ES
QB02, QB03, QA305	UN4213 OR DTC144ES
QA300	UN4111 OR DTA114ES

NOTES

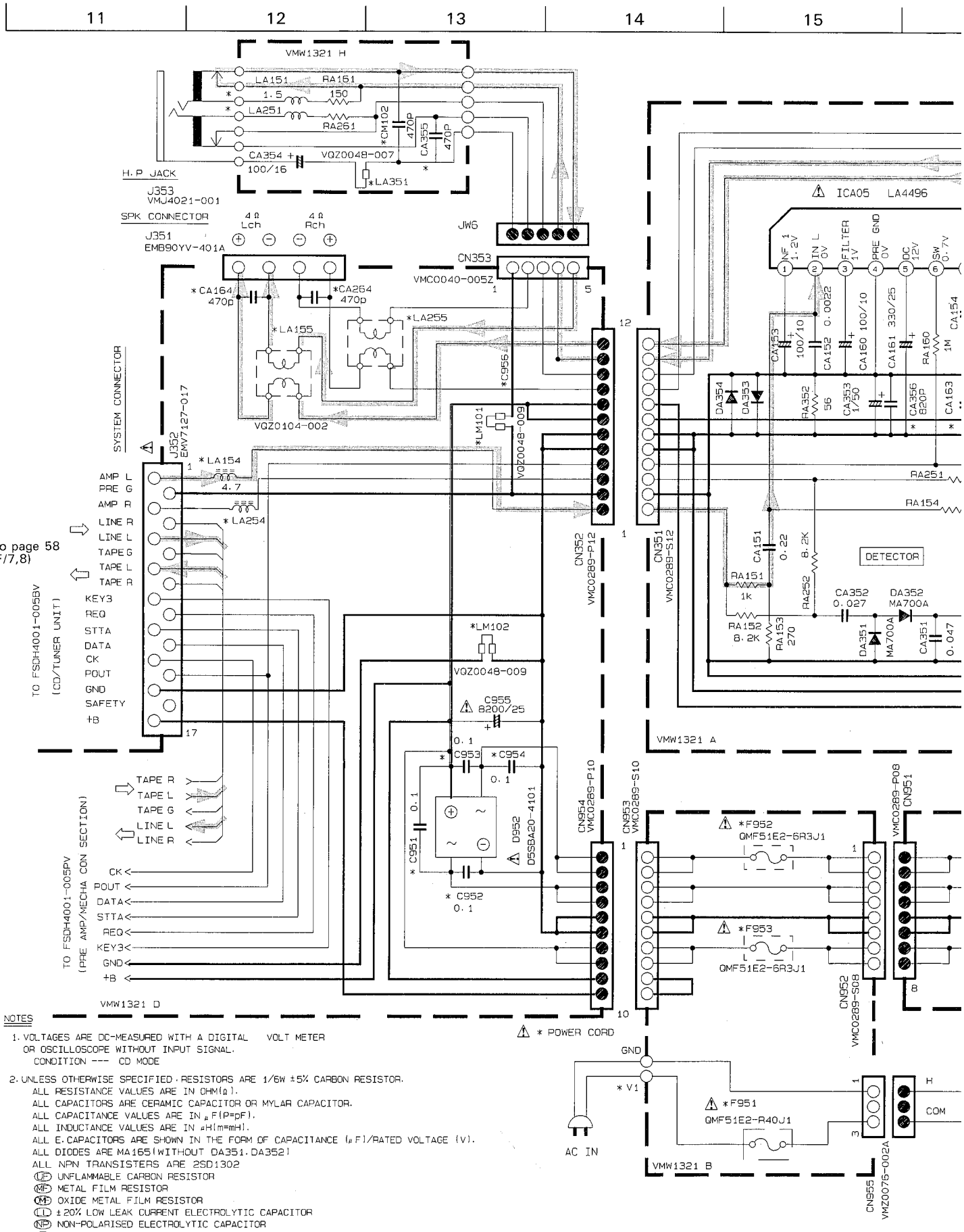
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- TAPE PB MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(=pF).
   ALL INDUCTANCE VALUES ARE IN μH(=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE [μF]/RATED VOLTAGE [V].
   ALL DIODES ARE MA165 (OR MSS104TJ)

(CF) UNFLAMMABLE CARBON RESISTOR
(MF) METAL FILM RESISTOR
(OF) OXIDE METAL FILM RESISTOR
(FU) FUSIBLE RESISTOR
(CT) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
(NP) NON-POLARISED ELECTROLYTIC CAPACITOR
(PP) POLYPROPYLENE CAPACITOR
(PS) POLYSTYROL CAPACITOR

Tape playback signal
REC signal
+B ライン

Fig. 11-5

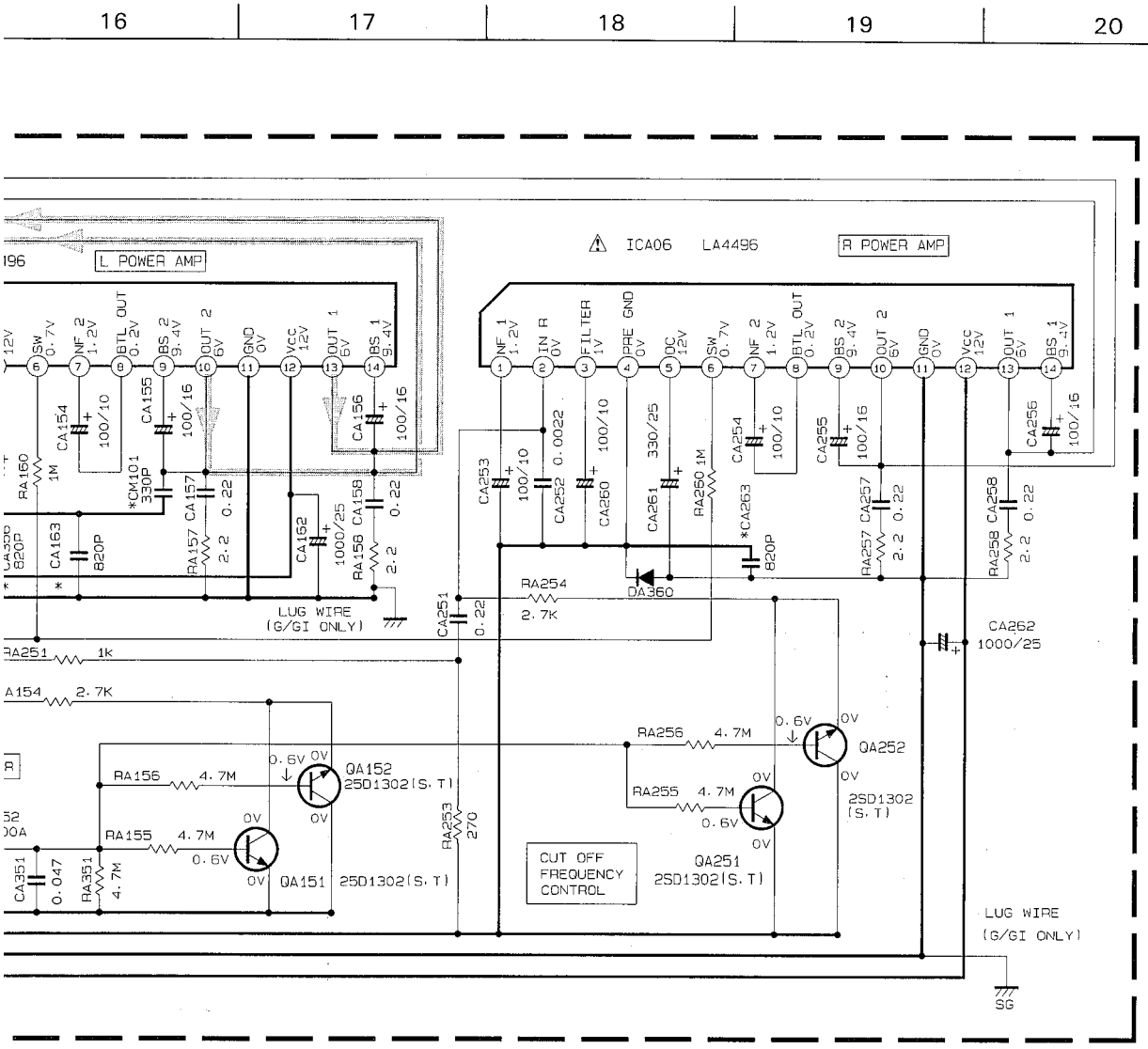
■ Power Supply & Power Amplifier Circuit: Drawing No. FSDH4001-005AW



NOTES

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

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA165(WITHOUT DA351,DA352)
   ALL NPN TRANSISTERS ARE 2SD1302
   (UF) UNFLAMMABLE CARBON RESISTOR
   (MF) METAL FILM RESISTOR
   (MT) OXIDE METAL FILM RESISTOR
   (EL) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
   (NP) NON-POLARISED ELECTROLYTIC CAPACITOR
   (PP) POLYPROPYLENE CAPACITOR
   (PS) POLYSTYROL CAPACITOR



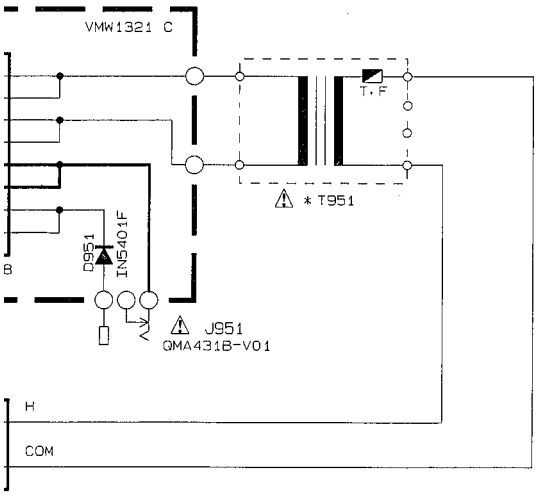


TABLE1 *MARK PARTS LIST

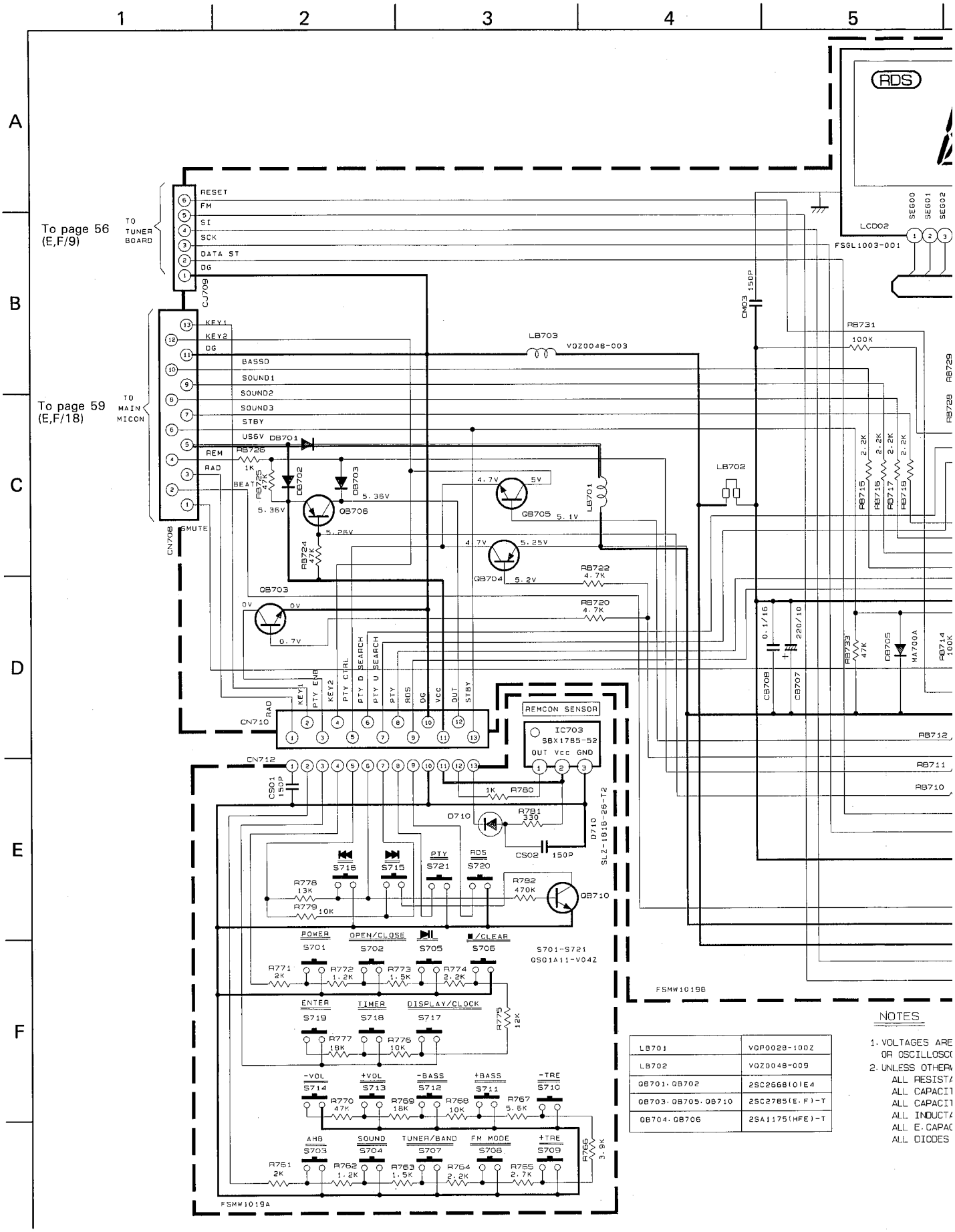
MODEL / REF	E/EN	B	G/GI
T951	VTP86J2-120	VTP66T2-120	VTP86J2-120
F951	QMF51E2-R40J1	QMF51E2-R40J1	QMF51E2-R40J1
F952/F953	QMF51E2-6R3J1	QMF51E2-6R3J1	QMF51E2-6R3J1
V1	230V	240V	230V
POWER CORD	QMP3900-200E	QMP5530-008E	QMP3900-200E
LA151/251	NO USE	NO USE	VQP025K-1R5Y
LA154/254	NO USE	NO USE	VQP025K-4R7Y
LA155/255	NO USE	NO USE	VQZ0104-002
CA163/263	NO USE	NO USE	USE
CA164/264	NO USE	NO USE	USE
CA355	NO USE	NO USE	USE
CA356	NO USE	NO USE	USE
CM101	NO USE	NO USE	USE
CM102	NO USE	NO USE	USE
DA360	NO USE	NO USE	USE
LM101	BUS WIRE(BM101)	BUS WIRE(BM101)	USE
LM102	BUS WIRE(BF131)	BUS WIRE(BF131)	USE

Tape playback signal

+B Line

Fig. 11-6

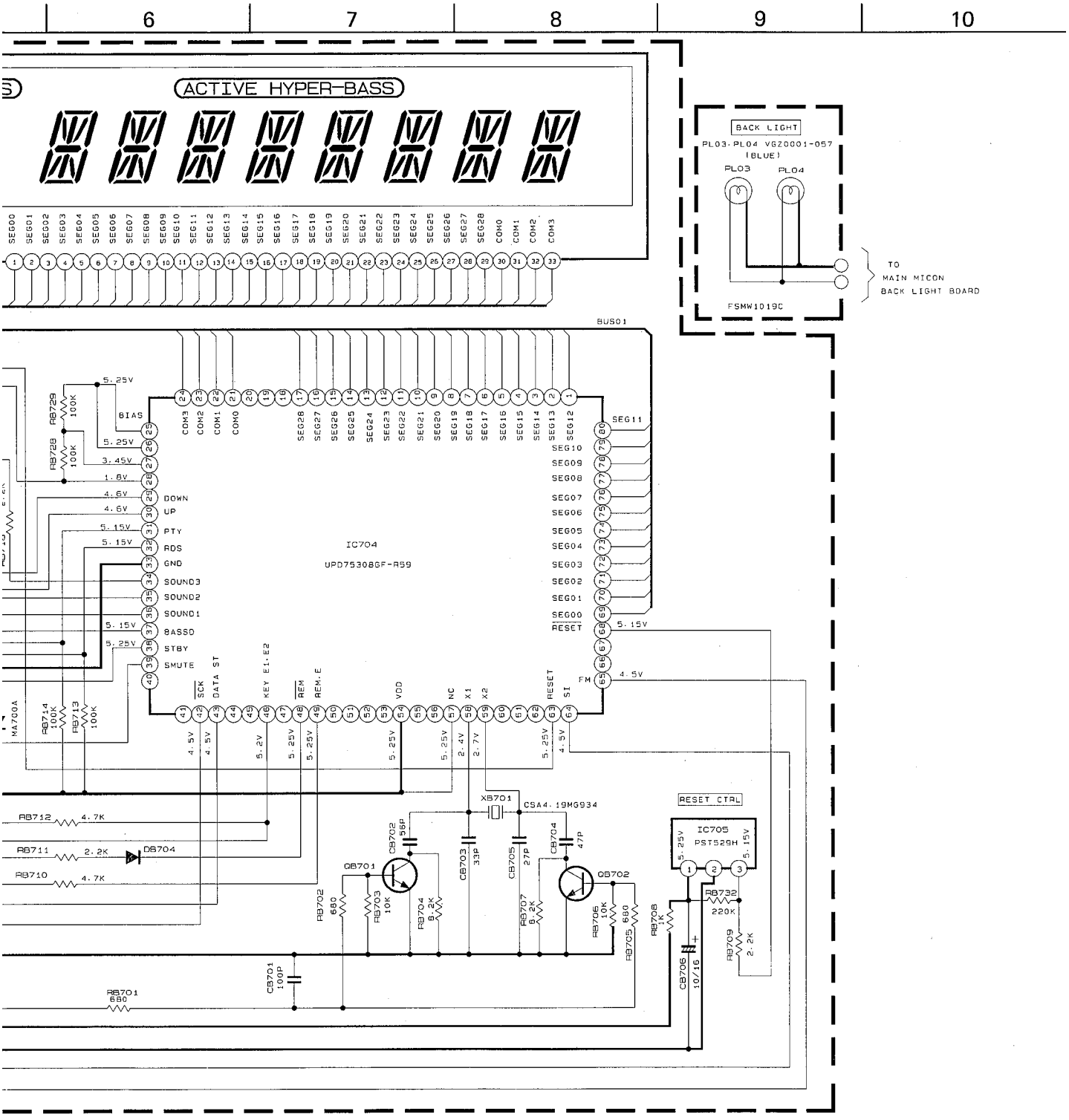
■ Operation Switch & RDS Circuit: Drawing No. FSDH4001-005SV2



LB701	VQP0028-100Z
LB702	VQZ0048-009
QB701, QB702	2SC2566(O)E4
QB703, QB705, QB710	2SC2785(E,F)-T
QB704, QB706	2SA1175(HFE)-T

NOTES

1. VOLTAGES ARE
   OR OSCILLOSC
2. UNLESS OTHER
   ALL RESIST
   ALL CAPACIT
   ALL CAPACIT
   ALL INDUCT
   ALL E.CAPAC
   ALL DIODES



ES

AGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
SCILLOSCOPE WITHOUT INPUT SIGNAL.
SS OTHERWISE SPECIFIED · RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
_ RESISTANCE VALUES ARE IN OHM(Ω).
_ CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
_ CAPACITANCE VALUES ARE IN μF(P=pF).
_ INDUCTANCE VALUES ARE IN μH(m=mH).
_ E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
_ DIODES ARE 1SS133 OR 1SS254T-77

+B Line

Fig. 11-7

12. Location of P.C. Board Parts

■ Tuner P.C. Board: Block No. [0][1]

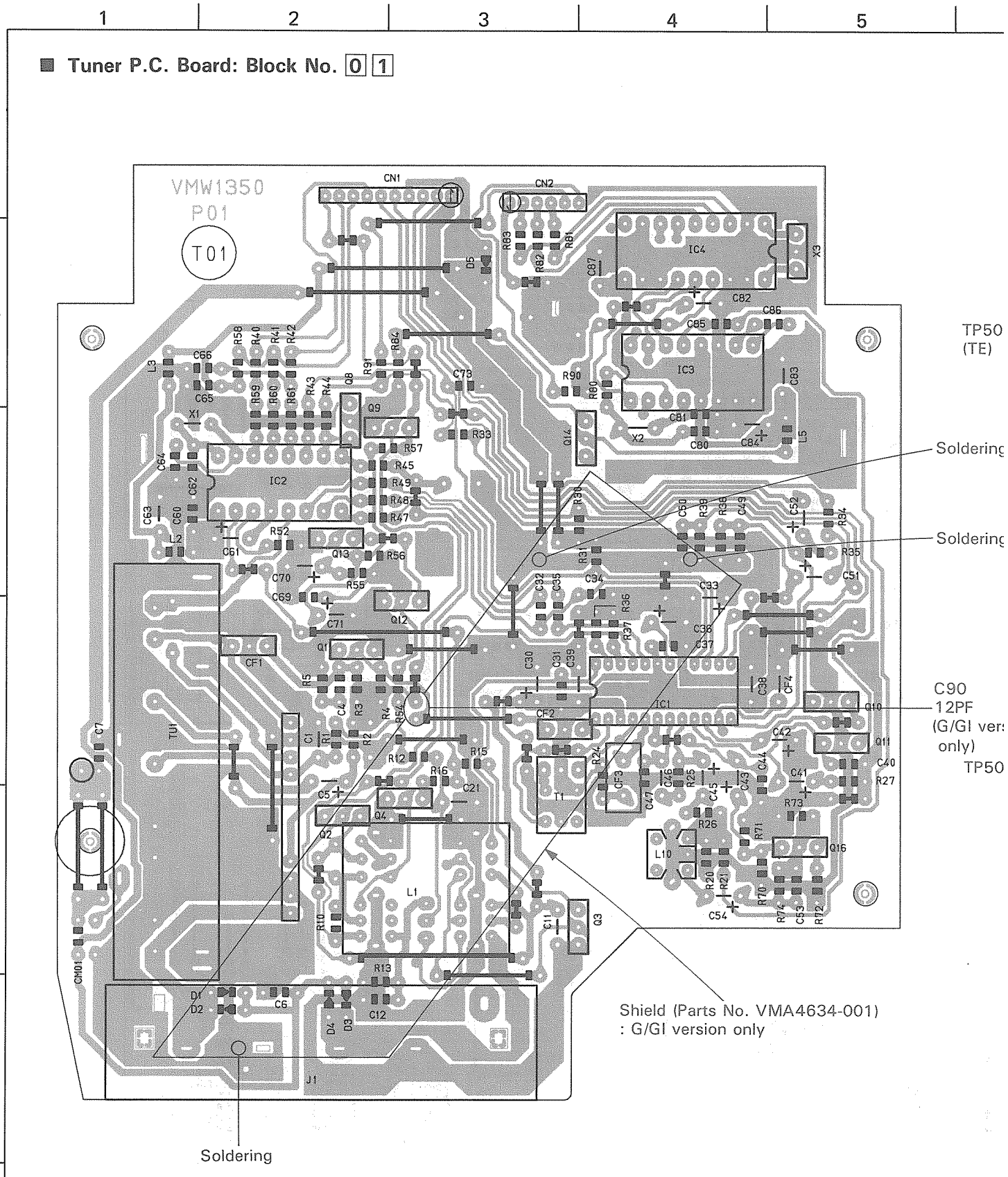


Fig. 12-1

6 | 7 | 8 | 9 | 10

■ CD Ampliifer P.C. Board: Block No. 0 2

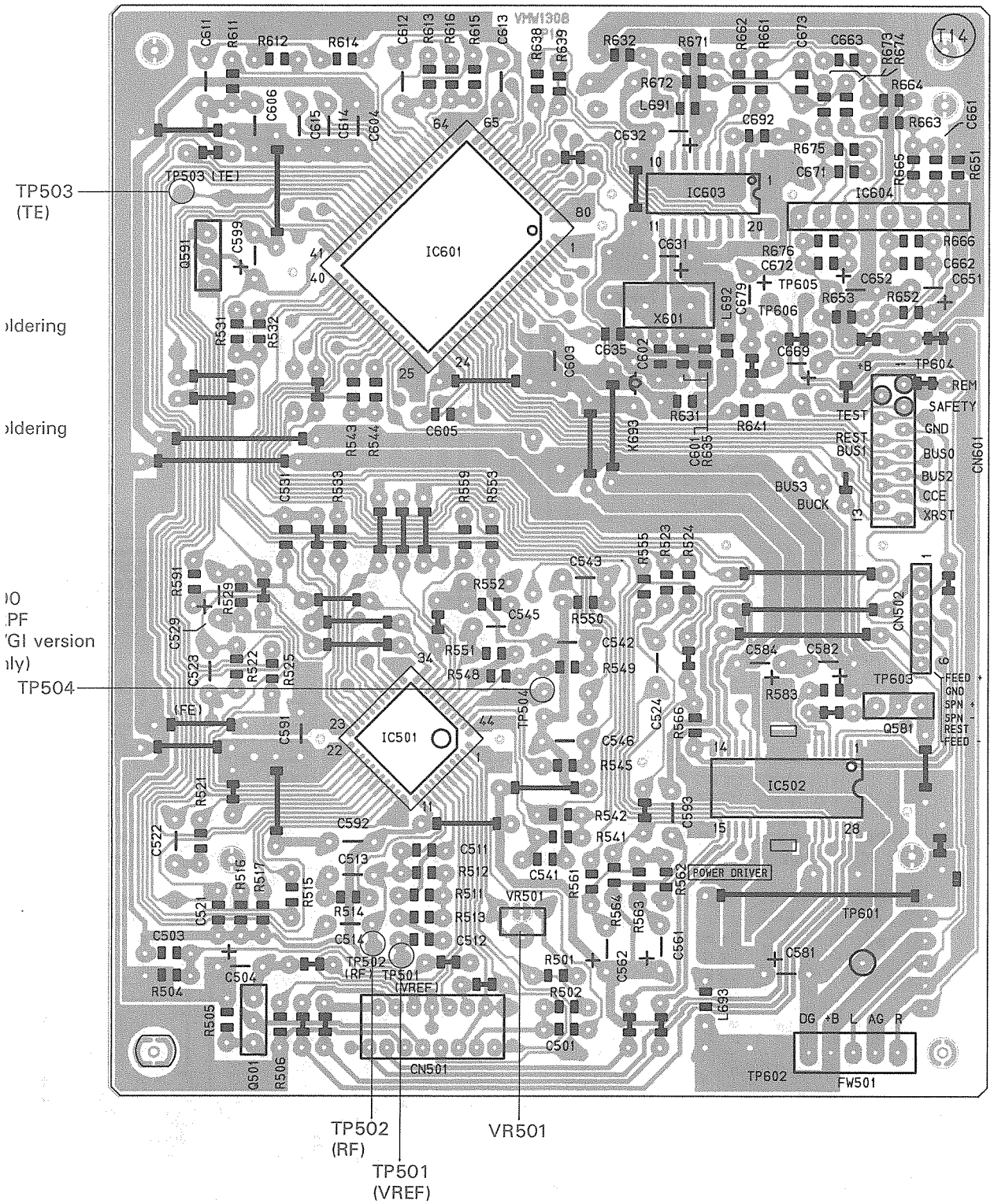


Fig. 12-2

■ Function & Microcomputer P.C. Board: Block No. 0 3

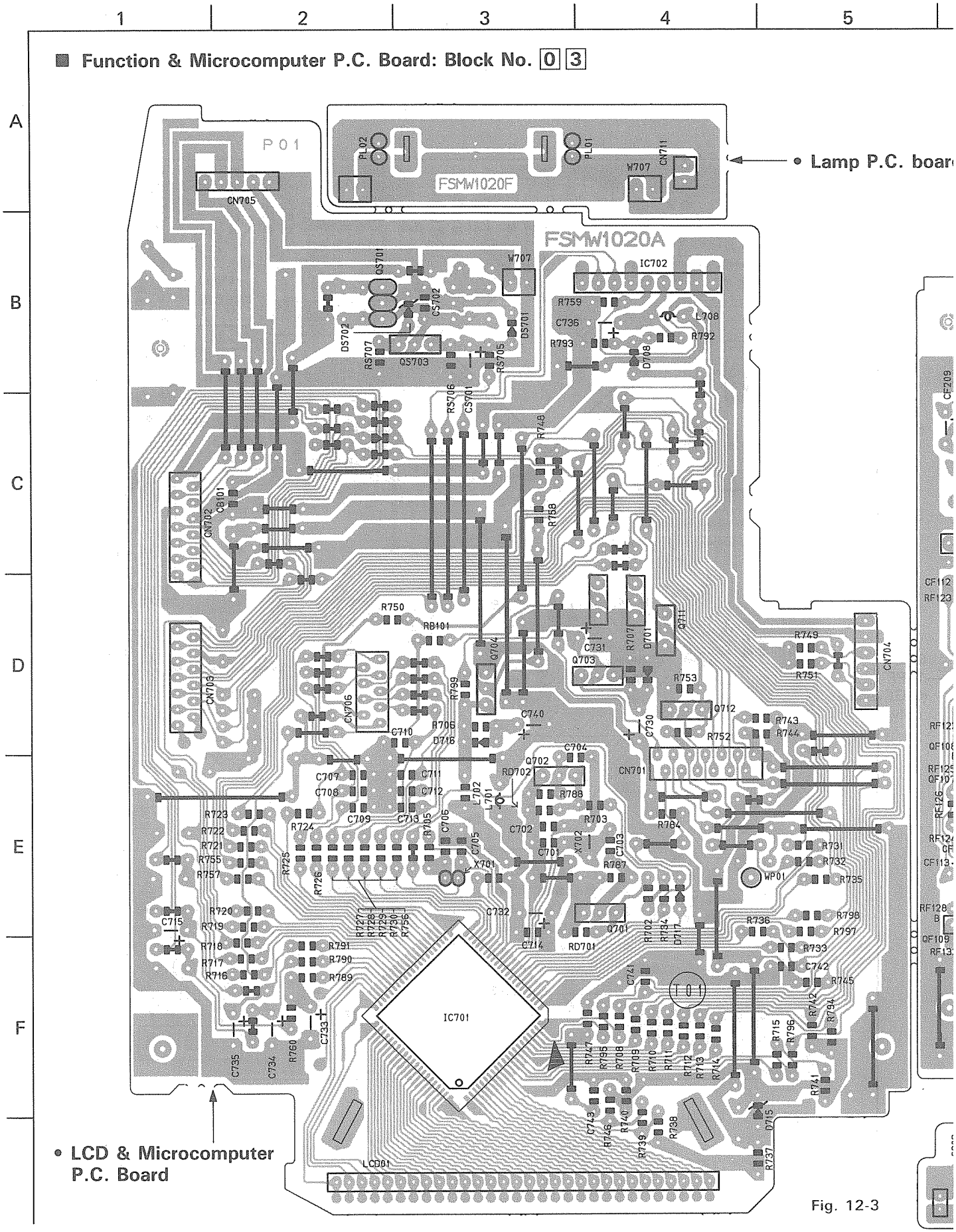


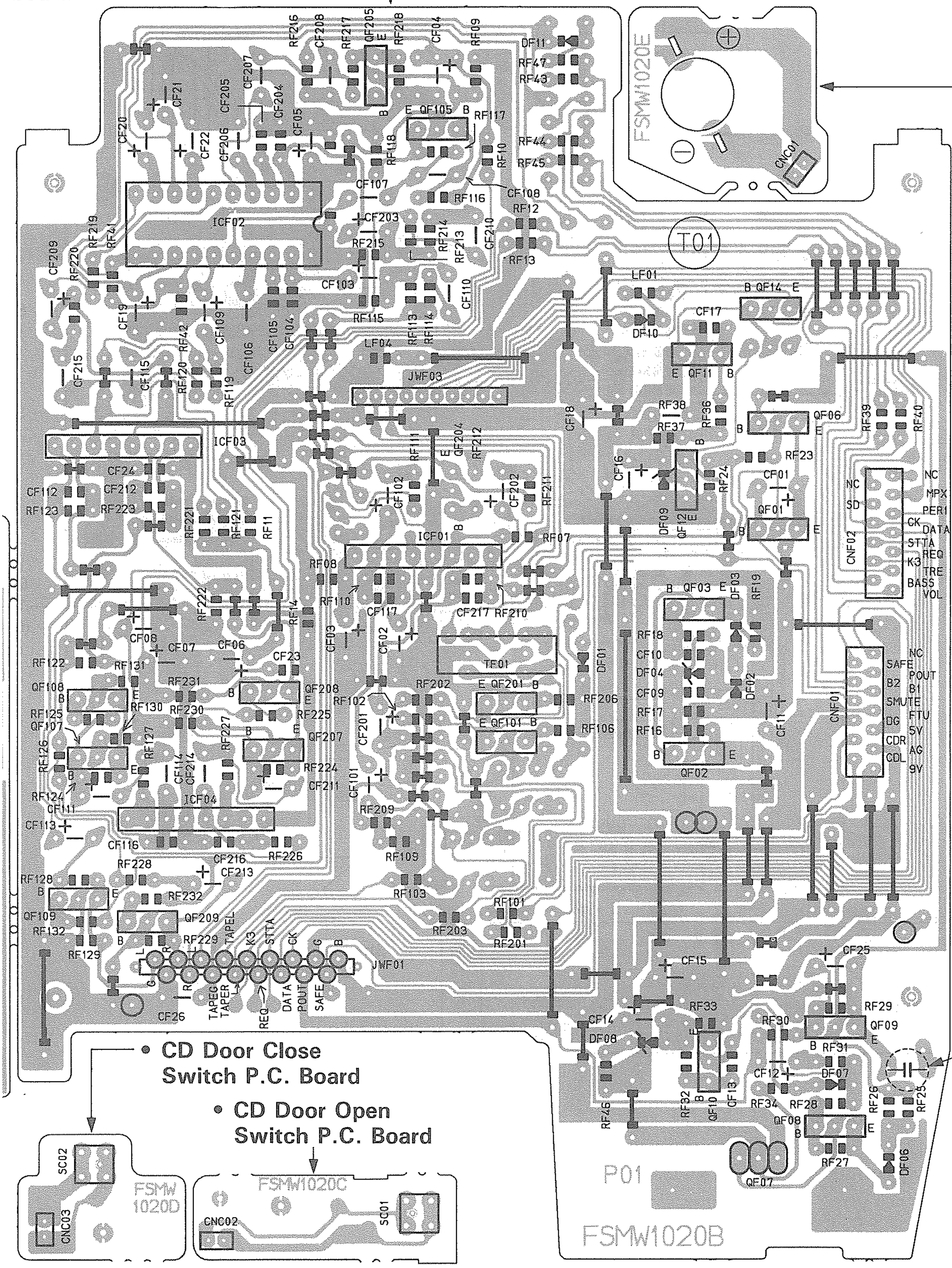
Fig. 12-3

6	7	8	9	10

• **Function & Line Amplifier P.C. Board**

board

• **Door Motor P.C. Board**



• **CD Door Close Switch P.C. Board**

• **CD Door Open Switch P.C. Board**

CF25
(G/GI version only)

■ Operation Switch & RDS P.C. Board: Block No. 0 4

• LCD & RDS System microcomputer P.C. Board

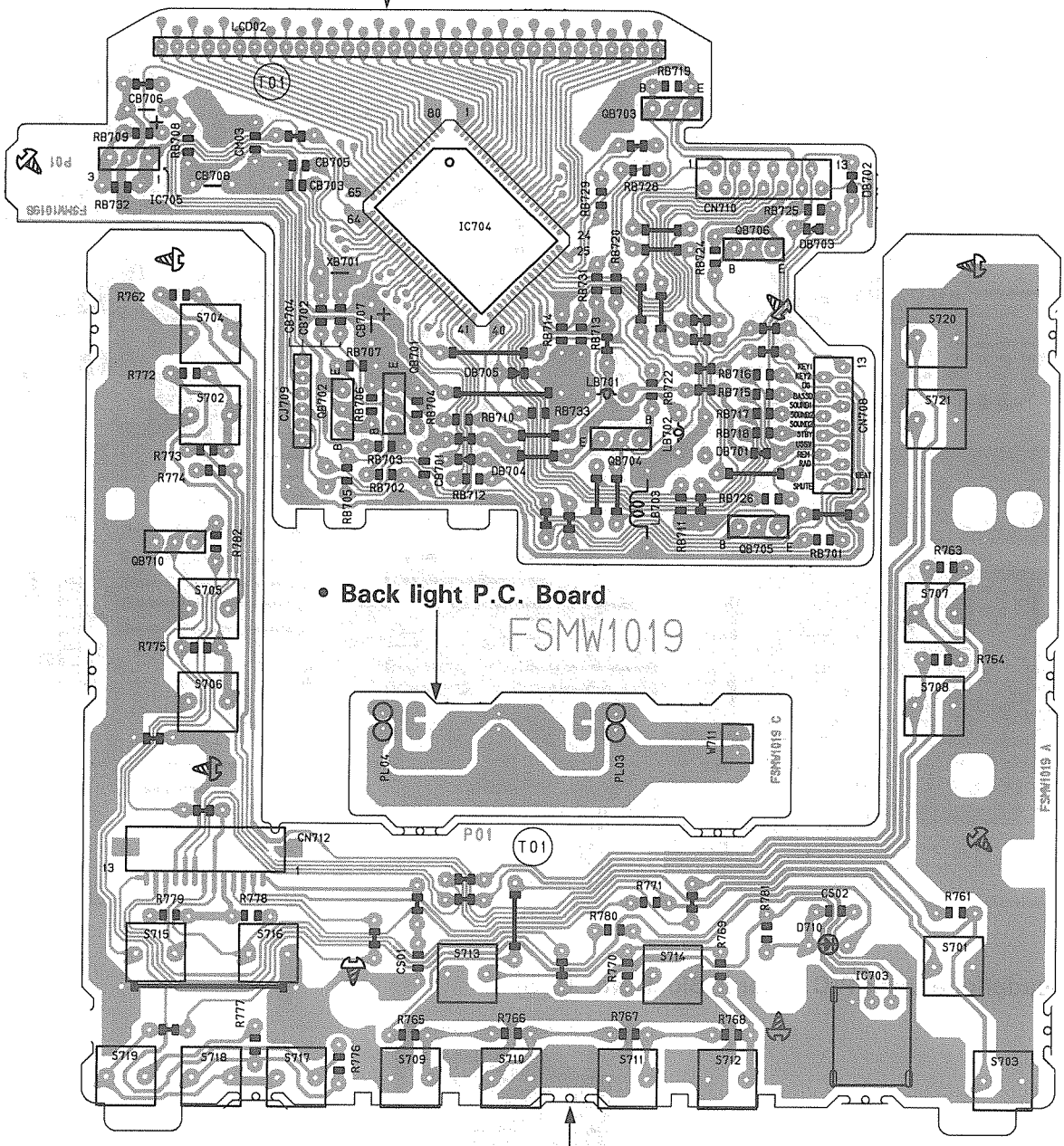


Fig. 12-4

16 17 18 19 20

■ Tape Deck & Amplifier Section

• Power Amplifier P.C. Board: Block No. 0 5

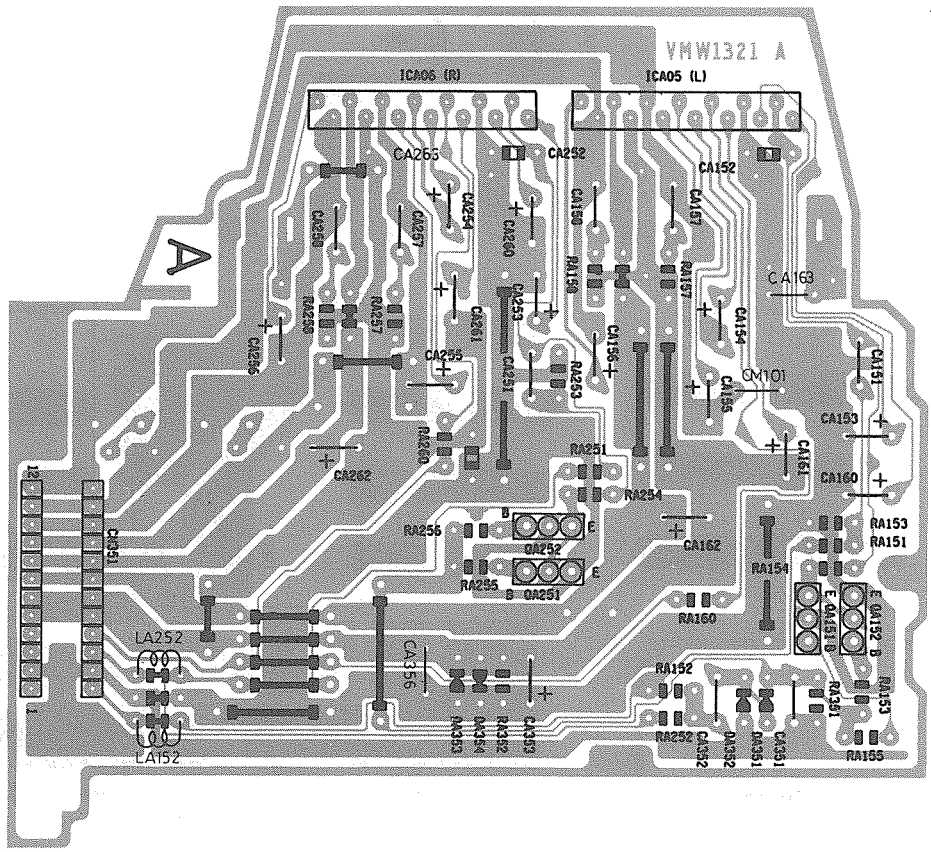


Fig. 12-5

• Fuse P.C. Board: Block No. 0 5

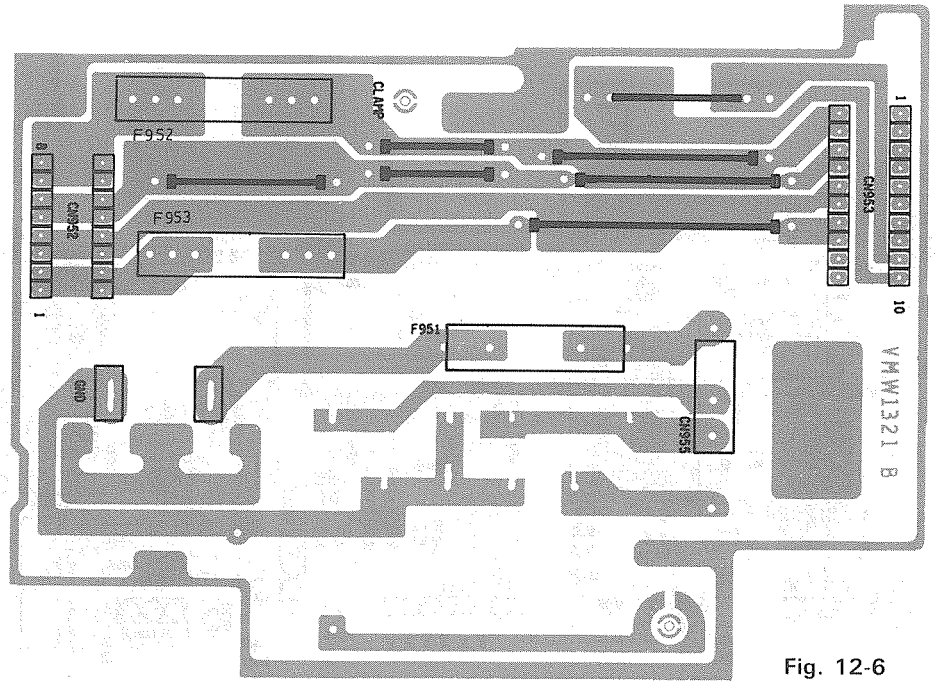


Fig. 12-6

1 2 3 4 5

A B C D E F

• Power Transformer P.C. Board: Block No. 0 5

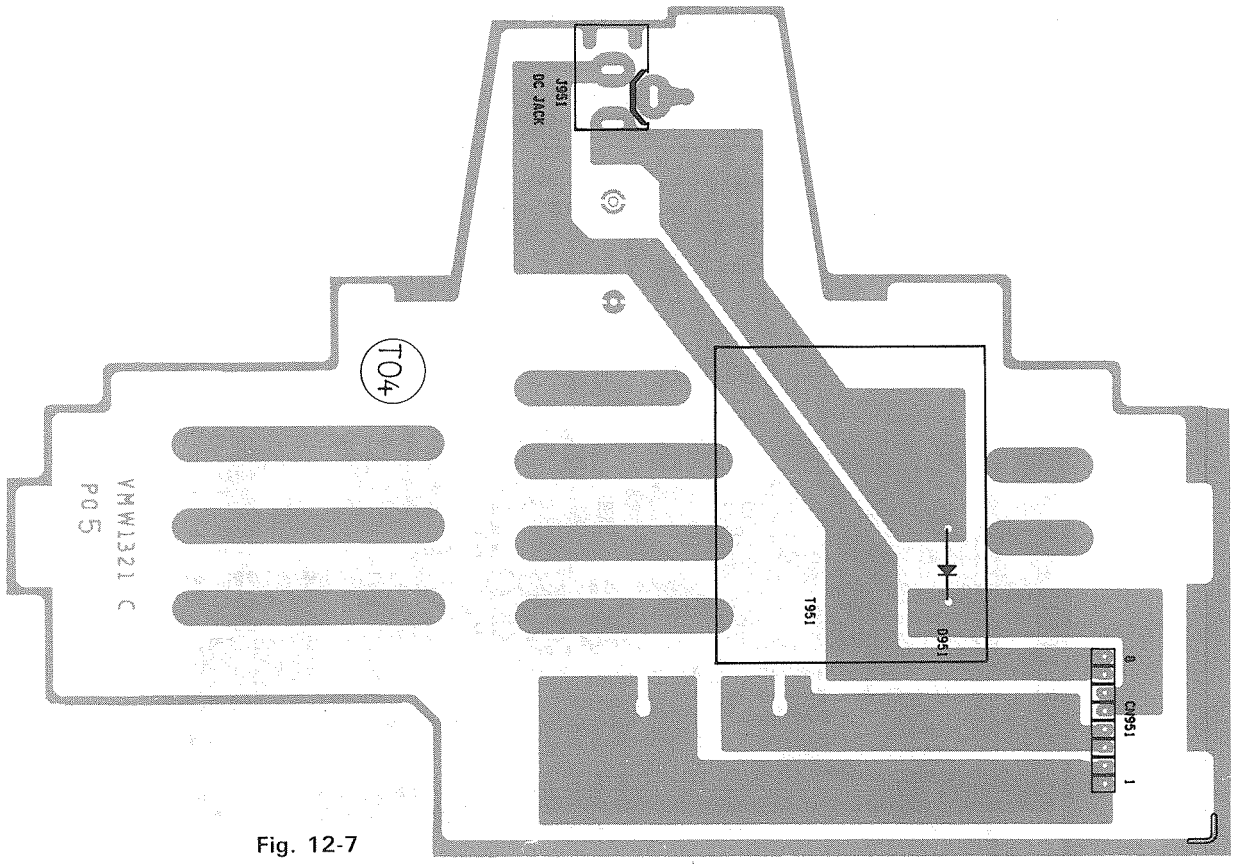


Fig. 12-7

• Pre-Amplifier P.C. Board: Block No. 0 5

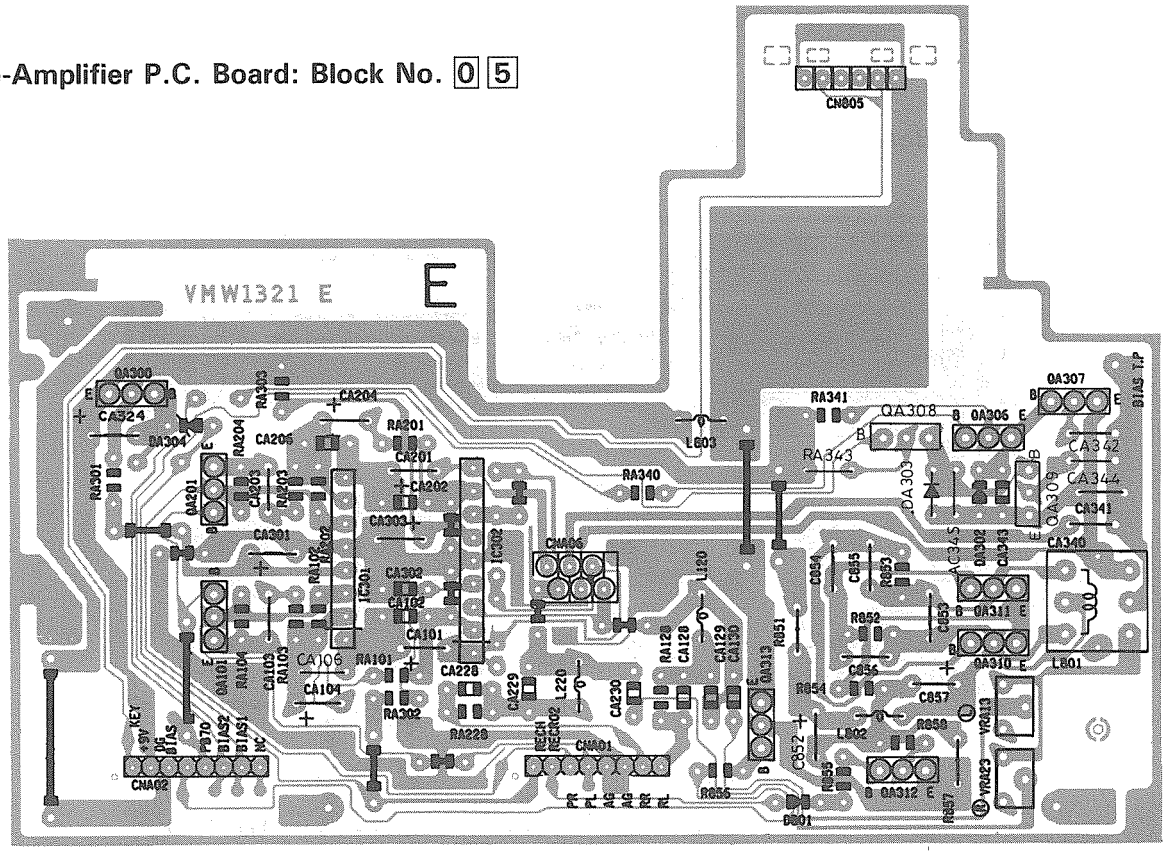


Fig. 12-8

6	7	8	9	10

• Mechanism Control P.C. Board: Block No. 0 5

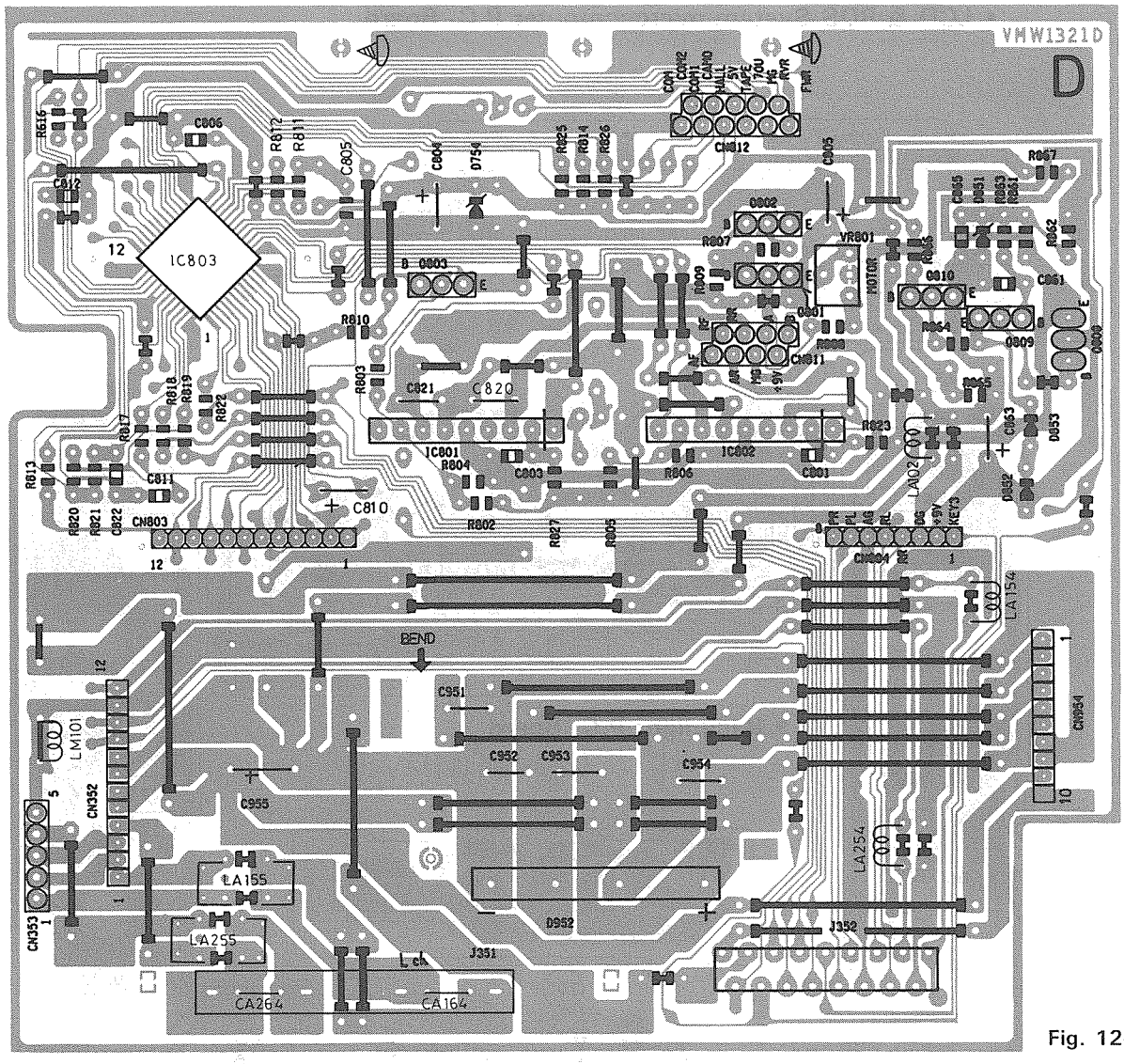


Fig. 12-9

• Headphone Jack P.C. Board: Block No. 0 5

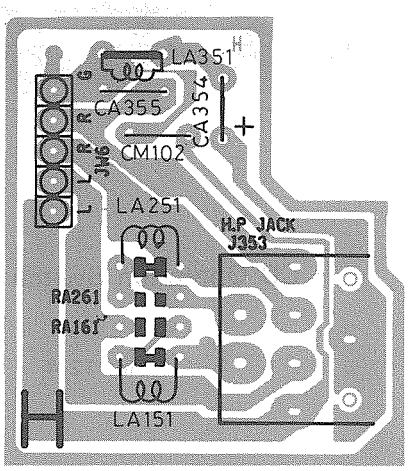


Fig. 12-10

• Recording Amplifier P.C. Board: Block No. 0 5

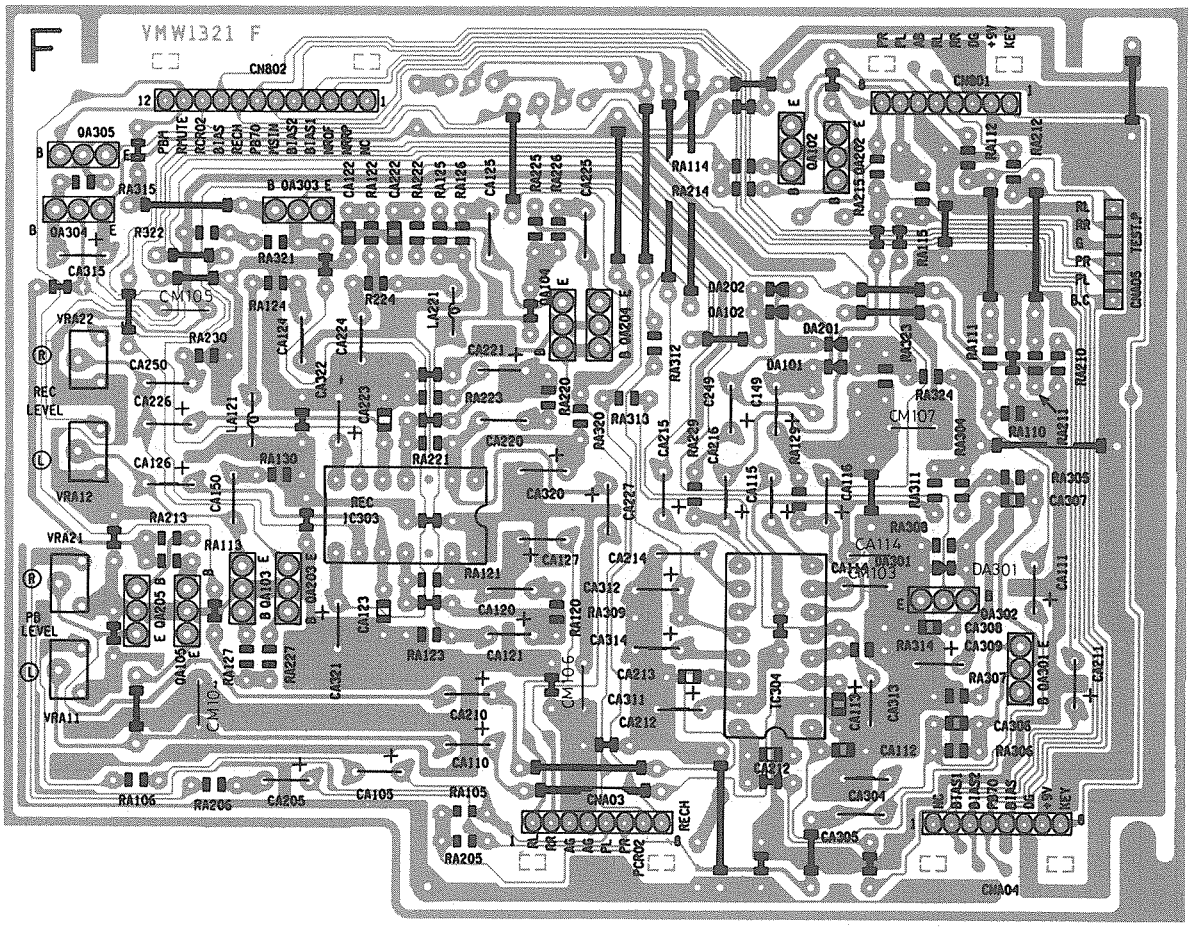


Fig. 12-11

• Cassette operation Switch P.C. Board: Block No. 0 5

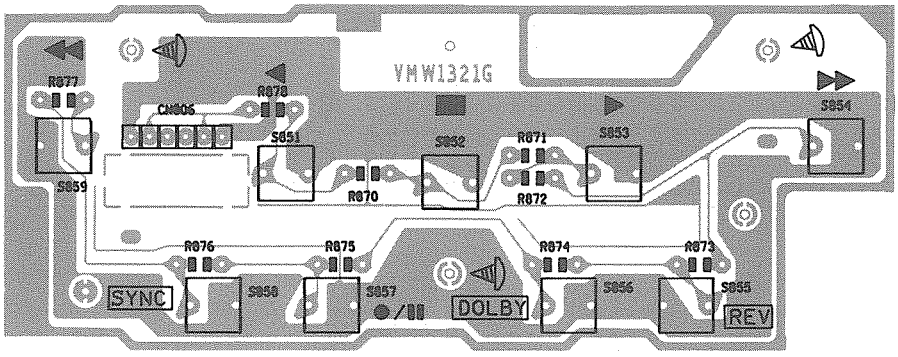


Fig. 12-12

16 17 18 19 20

A B C D E F G

• Leaf Switch P.C. Board: Block No. 0 6

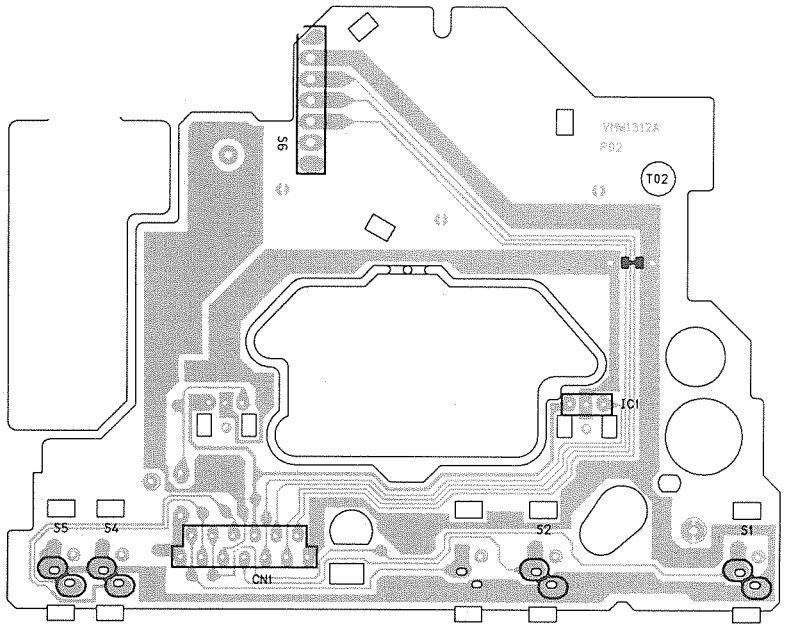


Fig. 12-13

■ Actuator/Reel Motor P.C. Board: Block No. 0 6

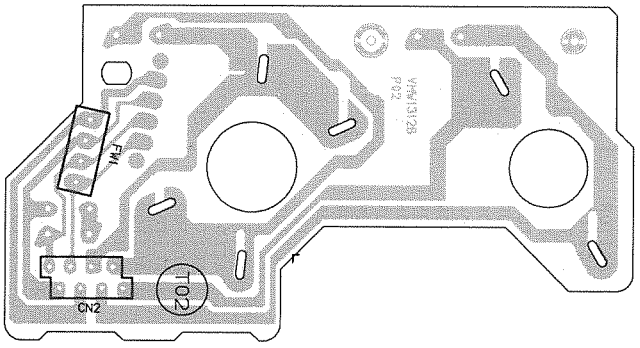


Fig. 12-14

• Tuner P.C. Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 4	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 5	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 6	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 7	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 11	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 12	QCS11HJ-160	C.CAPACITOR	16PF 5% 50V	E,B,EN
	C 12	QCSB1HJ-120Y	C.CAPACITOR	12PF 5% 50V	G,GI
	C 21	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 31	QCS31HJ-390Z	C.CAPACITOR	39PF 5% 50V	
	C 32	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 34	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 35	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 37	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 38	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 39	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 40	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 41	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 42	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 43	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 44	QCBB1HK-820Y	C.CAPACITOR	82PF 10% 50V	
	C 45	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 46	QCC31EM-333ZV	C.CAPACITOR	.033MF 20% 25V	
	C 47	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 49	QCXB1CM-682Y	C.CAPACITOR	6800PF 20% 16V	
	C 50	QCXB1CM-682Y	C.CAPACITOR	6800PF 20% 16V	
	C 51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 53	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	C 54	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 60	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 61	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 62	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 63	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 64	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	C 65	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 66	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 69	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 70	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 71	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 73	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 80	QCBB1HK-820Y	C.CAPACITOR	82PF 10% 50V	
	C 81	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
	C 82	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 83	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 84	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 85	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 86	QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	C 87	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 90	QCSB1HJ-120Y	C.CAPACITOR	12PF 5% 50V	G,GI
	CF 1	VCF2M3B-104	CERAMIC FILTER	FM IF	
	CF 2	VCF2S3B-102	C FILTER	FM IF	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CF 3	VCF1Z2Z-116Z	CERAMIC FILTER		
	CF 4	CSB456F29	CERA LOCK		
	CM 01	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CN 1	VMC0075-010N	CONNECTOR	TO FUNCTION	
	CN 2	EMV5109-006B	6P PLUG ASS'Y	TO RDSMICON	
	D 5	1SS133	SI DIODE		
	D 12	1SS133	SI DIODE		
	D 34	1SS133	SI DIODE		
	IC 1	TA2057N	IC		
	IC 2	TC9216P	IC		
	IC 3	LC7074	IC		
	IC 4	SAA6579	IC		
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
	L 1	VQZ0098-101	COIL BLOCK	MW/LW RF/QSC	
	L 2	VQP0018-4R7	INDUCTOR		
	L 3	VQP0018-221	INDUCTOR		
	L 5	VQP0018-101	INDUCTOR		
	L 10	VQZ0069-002S	TRAP COIL	114KHZ TRAP	
	Q 1	2SC2668(O)	TRANSISTOR		
	Q 2	2SA1175	TRANSISTOR		
	Q 3	2SC2785	TRANSISTOR		
	Q 4	2SC2785	TRANSISTOR		
	Q 8	DTC114YS	TRANSISTOR		
	Q 9	DTA114YS	TRANSISTOR		
	Q 10	2SA1175	TRANSISTOR		
	Q 11	2SA1175	TRANSISTOR		
	Q 12	2SC2785	TRANSISTOR		
	Q 13	2SC2785	TRANSISTOR		
	Q 14	2SA1175	TRANSISTOR		
	Q 16	2SC2785	TRANSISTOR		
	R 1	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 2	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 3	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 4	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 5	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 10	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 12	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 13	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 15	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 16	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 20	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 21	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 24	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 25	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 26	QRD161J-243	CARBON RESISTOR	24K 5% 1/6W	
	R 27	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 30	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 31	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 33	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 34	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 35	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 36	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 37	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 38	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 39	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	

• CD Amplifier P.C. Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 40	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 41	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 42	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 43	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 44	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 45	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 47	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 48	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 49	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 52	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 53	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 54	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 55	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 56	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 57	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 58	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 59	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 60	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 61	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 70	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 71	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 72	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 73	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 74	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 80	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 81	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 82	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 83	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 84	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 90	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 91	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	T 1	VQT7A21-107	IFT		
	TU 1	VAF2S12-001	FRONT END	FM TU	
	X 1	V472124-A0	CRYSTAL		
	X 2	VCX5057-001	CRYSTAL		
	X 3	EFO-EC4004T4	CERA LOCK		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 501	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 503	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 504	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 511	QCSB1HJ-3R9	C.CAPACITOR	3.9PF 10% 50V	
	C 512	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	C 513	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 514	QFJ31HJ-472Z	M.CAPACITOR	4700PF 5% 50V	
	C 521	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 522	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C 523	QFV81HJ-154	FILM CAPACITOR	.15MF 5% 50V	
	C 524	QEPC1EM-475ZM	NP.E.CAPACITOR	4.7MF 20% 25V	
	C 529	QETC1AM-336ZM	E.CAPACITOR	33MF 20% 10V	
	C 531	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 541	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 542	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 543	QFV41HJ-393Z	FILM CAPACITOR	.039MF 5% 50V	
	C 545	QEPC1HM-105Z	NP.E.CAPACITOR	1.0MF 20% 50V	
	C 546	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
	C 561	QET41AM-476	E.CAPACITOR	47MF 20% 10V	
	C 562	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	
	C 581	QET41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 582	QER51CM-107	E.CAPACITOR	100MF 20% 16V	
	C 584	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 591	VCP0012-105Z	C.CAPACITOR		
	C 592	VCP0012-105Z	C.CAPACITOR		
	C 593	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 599	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 601	QCS11HJ-100	C.CAPACITOR	FOR CRYSTAL	
	C 602	QCS11HJ-100	C.CAPACITOR	FOR CRYSTAL	
	C 603	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 604	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 605	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 606	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 611	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C 612	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V	
	C 613	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V	
	C 614	QFN41HJ-332	M CAPACITOR	3300PF 5% 50V	
	C 615	QFN41HJ-332	M CAPACITOR	3300PF 5% 50V	
	C 631	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 632	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 635	QCBB1HK-121Y	C.CAPACITOR	120PF 10% 50V	
	C 651	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 652	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 661	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 662	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 663	QCBB1HK-121Y	C.CAPACITOR	120PF 10% 50V	
	C 669	QER61EM-335Z	E.CAPACITOR	3.3MF 20% 25V	
	C 671	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 672	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 673	QCBB1HK-121Y	C.CAPACITOR	120PF 10% 50V	
	C 679	QER61EM-335Z	E.CAPACITOR	3.3MF 20% 25V	
	CN501	VMC0272-015	CONNECTOR	TO PICK UP	
	CN601	VMC0163-R09	CONNECTOR	TO CPU	
	IC501	TA8191F	IC	SERVO LSI	
	IC502	BA6298FP	IC	POWER DRIVER	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC601	TC9236AF	IC	1 CHIP PROCESSE	
	IC603	TC9278FS	IC	D/A CONVERTER	
	IC604	BA15218N	IC	L.P.F	
	K 693	VQZ0048-009	INDUCTOR	FOR FTZ	
	L 691	VQP0018-100	INDUCTOR	FOR FTZ	
	L 692	VQP0018-100	INDUCTOR	FOR FTZ	
	L 693	VQP0028-100Z	INDUCTOR		
	Q 501	2SA952(L,K)	TRANSISTOR		
	Q 581	2SA952(L,K)	TRANSISTOR	5V REGULATOR	
	Q 591	2SA1175	TRANSISTOR		
	R 501	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 502	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 504	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 505	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 506	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 511	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 512	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 513	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 514	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 515	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 516	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 517	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 521	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R 522	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 523	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 524	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 525	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 529	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 531	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 532	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 533	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 541	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 542	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 543	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 544	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 545	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 548	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 549	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 550	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 551	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 552	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 553	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 555	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 559	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
	R 561	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 562	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 563	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 564	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 565	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 566	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 583	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 591	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 611	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 614	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 615	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
	R 616	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 631	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 632	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 635	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 638	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 639	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 651	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 652	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 653	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 661	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 662	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 663	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 664	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 665	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 666	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 669	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 671	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 672	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 673	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 674	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 675	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 676	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 679	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	VR501	QVZ3523-154AZ	V.RESISTOR	TR OFFSET ADJ.	
	X 601	VCX5016-934V	CRYSTAL	16.9344MHZ	

• Function & Microcomputer P.C. Board

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 701	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	C 702	QCS11HJ-560	C.CAPACITOR	56PF 5% 50V	
	C 703	QCS11HJ-200	C.CAPACITOR	20PF 5% 50V	
	C 704	QCS11HJ-680	C.CAPACITOR	68PF 5% 50V	
	C 705	QCS11HJ-200	C.CAPACITOR	20PF 5% 50V	
	C 706	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 707	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	C 708	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 709	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 710	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 711	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 712	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 713	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 714	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 715	QETC1HM-335Z	E.CAPACITOR	VOL PWM	
	C 730	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 731	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 732	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 733	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 734	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 735	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 736	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 740	EECS5R5T473	GOLD CAPACITOR		
	C 741	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 742	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 743	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CB101	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CF 01	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CF 02	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 03	QEK41CM-336	E.CAPACITOR	33MF 20% 16V	
	CF 04	QEK41CM-476	E.CAPACITOR	E.VOL	
	CF 05	QEK41CM-476	E.CAPACITOR	E.VOL	
	CF 06	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 07	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF 08	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF 09	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CF 10	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CF 11	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CF 12	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CF 13	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CF 14	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CF 15	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CF 16	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 17	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CF 18	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 19	QEK41HM-105	E.CAPACITOR	VOL	
	CF 20	QEK41HM-105	E.CAPACITOR	BASS	
	CF 21	QEK41HM-105	E.CAPACITOR	TRE	
	CF 22	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 23	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CF 24	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CF 25	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CF 25	QCVB1CN-103Y	CER.CAPACITOR	.010MF 30% 16V	G,GI
	CF 26	QCF11HP-473	CER.CAPACITOR-S	.047MF +100:-0%	G,GI
	CF 26	QCS11HJ-151	C.CAPACITOR	150PF 5% 50V	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CF101	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF102	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CF103	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF104	QCBB1HK-151Y	C.CAPACITOR	E.VOL	
	CF105	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	CF106	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CF107	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	CF108	QFV41HJ-104ZM	FILM CAPACITOR	E.VOL	
	CF109	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF110	QFV11HJ-393AZM	FILM CAPACITOR	.039MF 5% 50V	
	CF111	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF112	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CF113	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	CF114	QFV11HJ-563AZM	FILM CAPACITOR	.056MF 5% 50V	
	CF115	QFV41HJ-823	FILM CAPACITOR	.082MF 5% 50V	
	CF116	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CF117	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	CF201	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF202	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CF203	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF204	QCBB1HK-151Y	C.CAPACITOR	E.VOL	
	CF205	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	CF206	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CF207	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	CF208	QFV41HJ-104ZM	FILM CAPACITOR	E.VOL	
	CF209	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF210	QFV11HJ-393AZM	FILM CAPACITOR	.039MF 5% 50V	
	CF211	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CF212	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CF213	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	CF214	QFV11HJ-563AZM	FILM CAPACITOR	.056MF 5% 50V	
	CF215	QFV41HJ-823	FILM CAPACITOR	.082MF 5% 50V	
	CF216	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CF217	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	CNF01	VMC0163-R13	CONNECTOR	FOR UCOM.1	
	CNF02	VMC0163-R13	CONNECTOR	FOR UCOM.2	
	CN701	VMC0161-013	CONNECTOR	FOR RDS-UCOM	
	CN702	VMC0163-R13	CONNECTOR	FOR FUNC.1	
	CN703	VMC0163-R13	CONNECTOR	FOR FUNC.2	
	CN704	VMC0041-006	CONNECTOR	FOR CD DOOR	
	CN705	VMC0107-R05	SOCKET	FOR CD	
	CN706	VMC0161-009	CONNECTOR	FOR CD BUS	
	CS701	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CS702	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	D 701	1SS133	SI DIODE		
	D 708	1SS133	SI DIODE		
	D 715	MTZ5.1JB	ZENER DIODE		
	D 716	1SS133	SI DIODE		
	D 717	1SS133	SI DIODE		
	DF 01	1SS133	SI DIODE		
	DF 02	1SS133	SI DIODE		
	DF 03	1SS133	SI DIODE		
	DF 04	MTZ5.6JA	ZENER DIODE		
	DF 06	1SS133	SI DIODE		
	DF 07	1SS133	SI DIODE		

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	DF 08	MTZ8.2JC	ZENER DIODE		
	DF 09	MTZ6.2JB	ZENER DIODE		
	DF 10	1SS133	SI DIODE		
	DF 11	1SS133	SI DIODE	PWM VOL	
	DS701	MA700	ZENER DIODE		
	DS702	MTZ5.1JC	ZENER DIODE		
	ICF01	NJM4580L-S	IC	LINE AMP	
	ICF02	TA8184P	IC	E.VOL&TONE	
	ICF03	NJM4580L-S	IC	BASS.B	
	ICF04	NJM4580L-S	IC	S.INDUCT	
	IC701	MN171603JJN	IC	UCOM(CTL)	
	IC702	BA6208A	IC	CD DOOR	
	L 701	VQZ0048-009	INDUCTOR		
	L 702	VQP0018-4R7	INDUCTOR		
	L 708	VQP0028-100Z	INDUCTOR		
	LF 01	VQP025K-4R7Y	INDUCTOR		
	PL 01	VGZ0001-057	PILOT LAMP	BACK LIGHT	
	PL 02	VGZ0001-057	PILOT LAMP	BACK LIGHT	
	Q 701	2SC2668(O)	TRANSISTOR		
	Q 702	2SC2668(O)	TRANSISTOR		
	Q 703	DTC114TS	TRANSISTOR		
	Q 704	2SA1175	TRANSISTOR		
	Q 711	DTC124ES	TRANSISTOR		
	Q 712	2SC2785	TRANSISTOR		
	QF 01	DTA114ES	TRANSISTOR	MUTE.D	
⚠	QF 02	2SB562(C)	TRANSISTOR	US6V	
	QF 03	2SC2785	TRANSISTOR	US6V	
	QF 06	DTA144WS	TRANSISTOR		
⚠	QF 07	2SA1129(K)	TRANSISTOR		
	QF 08	2SC2785	TRANSISTOR		
	QF 09	2SC2785	TRANSISTOR		
	QF 10	2SC2785	TRANSISTOR		
	QF 11	2SC2785	TRANSISTOR	TUNER SW	
	QF 12	DTC144ES	TRANSISTOR		
	QF 14	DTC114TS	TRANSISTOR		
	QF101	2SD1302	TRANSISTOR		
	QF105	2SC2785	TRANSISTOR	TONE	
	QF107	2SK301(P,Q)	TRANSISTOR(FET)	BASS 1	
	QF108	2SK301(P,Q)	TRANSISTOR(FET)	BASS 2	
	QF109	2SD1302	TRANSISTOR	S MUTE2	
	QF201	2SD1302	TRANSISTOR		
	QF205	2SC2785	TRANSISTOR	TONE	
	QF207	2SK301(P,Q)	TRANSISTOR(FET)	BASS 1	
	QF208	2SK301(P,Q)	TRANSISTOR(FET)	BASS 2	
	QF209	2SD1302	TRANSISTOR	S MUTE2	
	QS701	2SB772(Q,P)	TRANSISTOR	CD SW	
	QS703	2SC2785	TRANSISTOR		
	R 702	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 703	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 705	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 706	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 707	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 708	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 709	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 710	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 711	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 712	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 713	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 714	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 715	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 716	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 717	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 718	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 719	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 720	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 721	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 722	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 723	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 724	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 725	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 726	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 727	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 728	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 729	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 730	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 731	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 732	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 733	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 734	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 735	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 736	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 737	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 738	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 739	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 740	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 741	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 742	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 743	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 744	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 745	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 746	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 747	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 748	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 749	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 750	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 751	QRD161J-913	CARBON RESISTOR	CLOSE	
	R 752	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 753	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 755	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 756	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 757	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 758	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 759	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 760	QRD161J-333	CARBON RESISTOR	VOL PWM	
	R 784	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	R 787	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 788	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 789	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 790	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 791	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 792	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 793	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 794	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 795	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 796	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 797	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 798	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 799	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RB101	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RD701	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RD702	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF 07	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF 08	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
	RF 09	QRD161J-2R2	CARBON RESISTOR	E.VOL	
	RF 10	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF 11	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF 12	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
⚠	RF 13	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
⚠	RF 14	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	RF 16	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RF 17	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RF 18	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	RF 19	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF 23	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	RF 24	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	RF 25	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RF 26	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RF 27	QRD161J-564	CARBON RESISTOR	560K 5% 1/6W	
	RF 28	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	RF 29	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RF 30	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RF 31	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RF 32	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RF 33	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RF 34	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RF 36	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	RF 37	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RF 38	QRD12CJ-470SX	CARBON RESISTOR	47 5% 1/2W	
	RF 39	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	RF 40	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	RF 41	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RF 42	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RF 43	QRD161J-334	CARBON RESISTOR	PWM VOL	
	RF 44	QRD161J-563	CARBON RESISTOR	PWM BASS	
	RF 45	QRD161J-563	CARBON RESISTOR	PWM TRE	
	RF 46	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
	RF 47	QRD161J-334	CARBON RESISTOR	PWM VOL	
	RF101	QRD161J-273	CARBON RESISTOR	CD	
	RF102	QRD167J-682	CARBON RESISTOR	TUNER	
	RF103	QRD161J-473	CARBON RESISTOR	TAPE	
	RF106	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RF109	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	RF110	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	RF111	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RF113	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RF114	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RF115	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RF116	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	RF117	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RF118	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RF119	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RF120	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
	RF121	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF122	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RF123	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF124	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF125	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	RF126	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	RF127	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	RF128	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	RF129	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF130	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RF131	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RF132	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RF201	QRD161J-273	CARBON RESISTOR	CD	
	RF202	QRD167J-682	CARBON RESISTOR	TUNER	
	RF203	QRD161J-473	CARBON RESISTOR	TAPE	
	RF206	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RF209	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	RF210	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	RF211	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RF213	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RF214	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RF215	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RF216	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	RF217	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RF218	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RF219	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RF220	QRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
	RF221	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF222	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RF223	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RF224	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF225	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	RF226	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	RF227	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	RF228	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	RF229	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RF230	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RF231	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RF232	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RS705	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RS706	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RS707	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	TF 01	EQF0101-002	FILTER	DOLBY FILTER	
	WP 01	VMZ0015-005	POST PIN		
	X 701	VCX5000-001	CRYSTAL		
	X 702	CSA4.19MG933	CERA LOCK		

• CD Operation Switch & RDS P.C. Board

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CB701	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	CB702	QCS11HJ-560	C.CAPACITOR	56PF 5% 50V	
	CB703	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	CB704	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
	CB705	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	CB706	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	CB707	QER51AM-227	E.CAPA I.M	220MF 20% 10V	
	CB708	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	CM 03	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CN708	VMC0163-013	CONNECTOR	TO MAIN UCOM	
	CN710	VMC0161-013	CONNECTOR	TO KEY	
	CN712	FSMC1001-R13	CONNECTOR		
	CS 01	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CS 02	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	D 710	SLZ-181B-26-T2	DIODE	STAND-BY	
	DB701	1SS133	SI DIODE		
	DB702	1SS133	SI DIODE		
	DB703	1SS133	SI DIODE		
	DB704	1SS133	SI DIODE		
	DB705	MA700	ZENER DIODE		
	IC703	SBX1785-52A	RM RECIVER		
	IC704	UPD75308GF-R59	IC		
	IC705	PST529H-T	IC		
	LB701	VQP0028-100Z	INDUCTOR		
	LB702	VQZ0048-009	INDUCTOR		
	LB703	VQZ0048-003	INDUCTOR		
	PL 03	VGZ0001-057	LAMP	BACK LIGHT	
	PLO 4	VGZ0001-057	LAMP	BACK LIGHT	
	QB701	2SC2668(O)	TRANSISTOR		
	QB702	2SC2668(O)	TRANSISTOR		
	QB703	2SC2785	TRANSISTOR		
	QB704	2SA1175	TRANSISTOR		
	QB705	2SC2785	TRANSISTOR		
	QB706	2SA1175	TRANSISTOR		
	QB710	2SC2785	TRANSISTOR		
	R 761	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 762	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 763	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 764	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 765	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 766	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 767	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 768	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 769	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 770	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 771	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 772	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 773	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 774	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 775	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 776	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 777	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 778	QRD161J-133Y	CARBON RESISTOR	13K 5% 1/6W	
	R 779	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 780	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 781	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 782	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	RB701	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RB702	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RB703	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RB704	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	RB705	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RB706	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RB707	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	RB708	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RB709	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB710	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RB711	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB712	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB713	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB714	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB715	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB716	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB717	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB718	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RB720	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RB722	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RB724	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RB725	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RB726	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RB728	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB729	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB731	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RB732	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	RB733	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	S 701	QSQ1A11-V04Z	TACT SWITCH	POWER	
	S 702	QSQ1A11-V04Z	TACT SWITCH	OPEN/CLOSE	
	S 703	QSQ1A11-V04Z	TACT SWITCH	AHB	
	S 704	QSQ1A11-V04Z	TACT SWITCH	SOUND	
	S 705	QSQ1A11-V04Z	TACT SWITCH	CD PLAY	
	S 706	QSQ1A11-V04Z	TACT SWITCH	CD STOP	
	S 707	QSQ1A11-V04Z	TACT SWITCH	TUNER/BAND	
	S 708	QSQ1A11-V04Z	TACT SWITCH	FM MODE	
	S 709	QSQ1A11-V04Z	TACT SWITCH	TRE. +	
	S 710	QSQ1A11-V04Z	TACT SWITCH	TRE. -	
	S 711	QSQ1A11-V04Z	TACT SWITCH	BASS +	
	S 712	QSQ1A11-V04Z	TACT SWITCH	BASS -	
	S 713	QSQ1A11-V04Z	TACT SWITCH	VOL. +	
	S 714	QSQ1A11-V04Z	TACT SWITCH	VOL. -	
	S 715	QSQ1A11-V04Z	TACT SWITCH	UP	
	S 716	QSQ1A11-V04Z	TACT SWITCH	DOWN	
	S 717	QSQ1A11-V04Z	TACT SWITCH	CLOCK	
	S 718	QSQ1A11-V04Z	TACT SWITCH	TIMER	
	S 719	QSQ1A11-V04Z	TACT SWITCH	ENTER	
	S 720	QSQ1A11-V04Z	TACT SWITCH	RDS	
	S 721	QSQ1A11-V04Z	TACT SWITCH	PTY	
	SC 01	QSP2K21-V01	PUSH SWITCH		
	SC 02	QSP2K21-V01	PUSH SWITCH		
	XB701	CSA4.19MG933	CERA LOCK		

• Power Supply & Pre/Power Amplifier P.C. Board

BLOCK NO. 05□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 801	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 802	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 803	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 804	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 805	QCXB1CM-272Y	C.CAPACITOR	2700PF 20% 16V	
	C 806	QCFB1HZ-104Y	C.CAPACITOR	.10MF +80:-20%	
	C 810	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 811	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 812	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 820	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 821	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 822	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 852	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 853	QFLA1HJ-682Z	M.CAPACITOR	6800PF 5% 50V	
	C 854	QFLA1HJ-682Z	M.CAPACITOR	6800PF 5% 50V	
	C 855	QFLA1HJ-562Z	M.CAPACITOR	5600PF 5% 50V	
	C 856	QFLA1HJ-562Z	M.CAPACITOR	5600PF 5% 50V	
	C 857	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 861	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 863	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 865	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
⚠	C 951	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
⚠	C 952	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
⚠	C 953	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
⚠	C 954	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
⚠	C 955	QETM1EM-828	E.CAPACITOR	DECUP	
	CA101	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA102	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	CA103	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	CA104	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA105	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA106	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	CA110	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	CA111	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA112	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA113	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA114	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA115	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA116	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA120	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	CA121	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA122	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA123	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA124	QFV11HJ-153AZ	FILM CAPACITOR	.015MF 5% 50V	
	CA125	QFV11HJ-273Z	FILM CAPACITOR	.027MF 5% 50V	
	CA126	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA127	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA128	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA129	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA130	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	CA149	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	CA150	QFV81HJ-223	FILM CAPACITOR	.022MF 5% 50V	
	CA151	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	

BLOCK NO. 05□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CA152	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA153	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA154	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	CA155	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
	CA156	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
	CA157	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA158	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA160	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	CA161	QETC1EM-337Z	E.CAPACITOR	330MF 20% 25V	
	CA162	QET41EM-108	E.CAPACITOR	1000MF 20% 25V	
	CA163	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	CA164	QCVB1CN-103Y	C.CAPACITOR	FOR FTZ	
	CA201	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA202	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	CA203	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	CA204	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA205	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA206	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	CA210	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	CA211	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA212	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA213	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA214	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA215	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA216	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA220	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	CA221	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA222	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA223	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA224	QFV11HJ-153AZ	FILM CAPACITOR	.015MF 5% 50V	
	CA225	QFV11HJ-273Z	FILM CAPACITOR	.027MF 5% 50V	
	CA226	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA227	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA228	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CA229	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA230	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	CA249	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	CA250	QFV81HJ-223	FILM CAPACITOR	.022MF 5% 50V	
	CA251	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA252	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	CA253	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA254	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	CA255	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
	CA256	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
	CA257	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA258	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA260	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	CA261	QETC1EM-337Z	E.CAPACITOR	330MF 20% 25V	
	CA262	QET41EM-108	E.CAPACITOR	1000MF 20% 25V	
	CA263	QCY31HK-821Z	C.CAPACITOR	820PF 10% 50V	
	CA264	QCVB1CN-103Y	C.CAPACITOR	FOR FTZ	
	CA301	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA302	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CA303	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CA304	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CA305	QFV11HJ-153AZ	FILM CAPACITOR	.015MF 5% 50V	
	CA306	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	CA307	QCXB1CM-182Y	C.CAPACITOR	1800PF 20% 16V	
	CA308	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	CA309	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA311	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CA312	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA313	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA314	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA315	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V	
	CA320	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA321	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA322	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	CA324	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA340	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	CA341	QFP32AJ-153ZM	PP.CAPACITOR	.015MF 5% 100V	
	CA342	QFN41HJ-122	M.CAPACITOR	1200PF 5% 50V	
	CA343	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CA344	QFN81HJ-272	M CAPACITOR	2700PF 5% 50V	
	CA345	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CA351	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CA352	QFV11HJ-273AZM	FILM CAPACITOR	.027MF 5% 50V	
	CA353	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA354	QEK61CM-107	E.CAPACITOR	H.P GND	
	CA355	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	CA356	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	CM101	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CM102	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	CM103	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	CM104	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	CM105	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	CM106	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CM107	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CNA01	VMC0288-P08	CONNECTOR		
	CNA02	VMC0288-P08	CONNECTOR		
	CNA03	VMC0288-S08	CONNECTOR		
	CNA04	VMC0288-S08	CONNECTOR		
	CNA05	VMC0075-R06N	CONNECTOR	DOLBY T.P	
	CNA06	VMC0161-006	CONNECTOR	HEAD	
	CN351	VMC0289-S12	CONNECTOR	TO CN352	
	CN352	VMC0289-P12	CONNECTOR	TO CN351	
	CN353	VMC0040-005Z	CONNECTOR IM	TO JW6	
	CN801	VMC0288-S08	CONNECTOR		
	CN802	VMC0288-S12	CONNECTOR		
	CN803	VMC0288-P12	CONNECTOR		
	CN804	VMC0288-P08	CONNECTOR		
	CN805	VMC0193-S06	CONNECTOR		
	CN806	VMC0193-P06	CONNECTOR		
	CN811	VMC0234-P08	CONNECTOR		
	CN812	VMC0234-P11	CONNECTOR		
	CN951	VMC0289-P08	CONNECTOR	2ND	
	CN952	VMC0289-S08	CONNECTOR	2ND	
	CN953	VMC0289-S10	CONNECTOR		
	CN954	VMC0289-P10	CONNECTOR		
	CN955	VMZ0076-002A	CONNECTOR	1 ST	

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 801	1SS133	SI DIODE		
	D 851	MTZ8.2JC	ZENER DIODE		
	D 852	1SS133	SI DIODE		
	D 853	1SS133	SI DIODE		
	D 854	MTZ5.1JB	ZENER DIODE		
⚠	D 951	1N5401F	SI DIODE		
⚠	D 952	D5SBA20-4101	SI DIODE		
	DA101	1SS133	SI DIODE	ALC DET	
	DA102	1SS133	SI DIODE	ALC DET	
	DA201	1SS133	SI DIODE	ALC DET	
	DA202	1SS133	SI DIODE	ALC DET	
	DA301	1SS133	SI DIODE		
	DA302	1SS133	SI DIODE		
	DA303	1SS133	SI DIODE		
	DA304	MTZ5.1JC	ZENER DIODE		
	DA351	MA700	ZENER DIODE		
	DA352	MA700	ZENER DIODE		
	DA353	1SS133	SI DIODE		
	DA354	1SS133	SI DIODE		
	ICA05	LA4496	IC	L-CH	
	ICA06	LA4496	IC	R-CH	
	IC301	UPC1228HA	IC	PB AMP	
	IC302	UPC1330HA	IC	R/P SW	
	IC303	LA3220	IC		
	IC304	HA12134A	IC		
	IC801	TA8409S	IC		
	IC802	TA8409S	IC		
	IC803	LZ93D72	IC		
	J 351	EMB90YV-401A	S.TERMIMAL	SPK CONNECT	
	J 352	EMV7127-017S	CONNECTOR	SYSTEM CONNECT	
	J 353	VMJ4024-001	JACK		
	J 951	QMA431B-V01	FILM CAPACITOR		
	L 801	VQH1008-055	OSC COIL(BIAS)		
	L 802	VQP0028-100Z	INDUCTOR		
	LA120	VQP0001-183	INDUCTOR		
	LA121	VQP0001-562ZS	INDUCTOR		
	LA151	VQP0018-220	INDUCTOR		
	LA154	VQP0018-4R7	INDUCTOR		
	LA155	VQZ0104-003	INDUCTOR		
	LA220	VQP0001-183	INDUCTOR		
	LA221	VQP0001-562ZS	INDUCTOR		
	LA251	VQP0018-220	INDUCTOR		
	LA254	VQP0018-4R7	INDUCTOR		
	LA255	VQZ0104-003	INDUCTOR		
	LA351	VQZ0048-009	INDUCTOR	FTZ	
	LM101	VQZ0048-009	INDUCTOR		
	LM102	VQZ0048-009	INDUCTOR		
	Q 801	2SA952(L,K)	TRANSISTOR		
	Q 802	DTC144ES	TRANSISTOR		
	Q 803	DTC144ES	TRANSISTOR		
	Q 808	2SB772(Q,P)	TRANSISTOR		
	Q 809	2SC2785	TRANSISTOR		
	Q 810	2SC2785	TRANSISTOR		
	QA101	DTC144TS	TRANSISTOR	FOR JES	
	QA102	2SD1302	TRANSISTOR	PB MUTE	

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	QA103	2SD1302	TRANSISTOR	REC MUTE	
	QA104	DTC144TS	TRANSISTOR	CROM SW	
	QA105	2SD1302	TRANSISTOR		
	QA151	2SD1302	TRANSISTOR		
	QA152	2SD1302	TRANSISTOR		
	QA201	DTC144TS	TRANSISTOR	FOR JES	
	QA202	2SD1302	TRANSISTOR	PB MUTE	
	QA203	2SD1302	TRANSISTOR	REC MUTE	
	QA204	DTC144TS	TRANSISTOR	CROM SW	
	QA205	2SD1302	TRANSISTOR		
	QA251	2SD1302	TRANSISTOR		
	QA252	2SD1302	TRANSISTOR		
	QA300	DTA114ES	TRANSISTOR		
	QA301	2SC2785	TRANSISTOR		
	QA302	2SC2785	TRANSISTOR		
	QA303	DTC144TS	TRANSISTOR	ALC SW	
	QA304	DTA114ES	TRANSISTOR		
	QA305	DTC144ES	TRANSISTOR		
	QA306	2SC2785	TRANSISTOR		
	QA307	2SC1845	TRANSISTOR		
	QA308	2SC2785	TRANSISTOR		
	QA309	2SC1845	TRANSISTOR		
	QA310	2SD1302	TRANSISTOR		
	QA311	2SD1302	TRANSISTOR		
	QA312	2SD1302	TRANSISTOR		
	QA313	2SD1302	TRANSISTOR		
	R 802	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 803	QRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
	R 804	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 805	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 806	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
	R 807	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 808	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 809	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 810	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 811	QRD161J-684	CARBON RESISTOR	680K 5% 1/6W	
	R 812	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 813	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 814	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 816	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 817	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 818	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 819	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 820	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 821	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 822	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 823	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 825	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 826	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 827	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 851	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
	R 852	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 853	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 854	QRD161J-3R3	CARBON RESISTOR	3.3 5% 1/6W	
	R 855	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 856	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 857	QRD141J-101S	CARBON RESISTOR	100 5% 1/4W	
	R 858	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	R 861	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 862	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 863	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 864	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 865	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 866	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 867	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 870	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 871	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 872	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 873	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 874	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 875	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 876	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 877	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 878	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	RA101	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	RA102	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	RA103	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RA104	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RA105	QRD161J-122	CARBON RESISTOR	MS IN	
	RA106	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA110	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RA111	QRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
	RA112	QRD161J-243	CARBON RESISTOR	24K 5% 1/6W	
	RA113	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA114	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA115	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA120	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RA121	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RA122	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA123	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	RA124	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA125	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA126	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	RA127	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA128	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA129	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA130	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RA151	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA152	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	RA153	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	RA154	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RA155	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA156	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA157	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	RA158	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	RA160	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA161	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA201	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	RA202	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	RA203	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RA204	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RA205	QRD161J-122	CARBON RESISTOR	MS IN	
	RA206	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA210	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RA211	QRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
	RA212	QRD161J-243	CARBON RESISTOR	24K 5% 1/6W	
	RA213	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA214	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA215	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA220	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RA221	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RA222	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA223	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	RA224	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA225	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA226	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	RA227	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA228	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA229	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA230	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RA251	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA252	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	RA253	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	RA254	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RA255	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA256	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA257	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	RA258	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	RA260	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA261	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA301	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA302	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA303	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA304	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	RA305	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RA306	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
	RA307	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	RA308	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA311	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA312	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA313	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA314	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RA315	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA320	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA321	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA322	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA323	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	RA324	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RA340	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA341	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	RA342	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA343	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	RA351	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA352	QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
	S 851	QSQ1A11-V04Z	TACT SWITCH	REW	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S 852	QSQ1A11-V04Z	TACT SWITCH	REV	
	S 853	QSQ1A11-V04Z	TACT SWITCH	STOP	
	S 854	QSQ1A11-V04Z	TACT SWITCH	FWD	
	S 855	QSQ1A11-V04Z	TACT SWITCH	FF	
	S 856	QSQ1A11-V04Z	TACT SWITCH	REV.MODE	
	S 857	QSQ1A11-V04Z	TACT SWITCH	DOLBY	
	S 858	QSQ1A11-V04Z	TACT SWITCH	REC	
	S 859	QSQ1A11-V04Z	TACT SWITCH	SYNCHRO	
	VRA11	QVPA603-502AZM	SEMI.V.RESISTOR	PB LEVEL	
	VRA12	QVPA603-502AZM	SEMI.V.RESISTOR	REC LEVEL	
	VRA13	QVPA603-104A	SEMI.V.RESISTOR	BIAS LEVEL	
	VRA21	QVPA603-502AZM	SEMI.V.RESISTOR	PB LEVEL	
	VRA22	QVPA603-502AZM	SEMI.V.RESISTOR	REC LEVEL	
	VRA23	QVPA603-104A	SEMI.V.RESISTOR	BIAS LEVEL	
	VR801	QVZ3523-103AZ	V.RESISTOR	TAPE SPEED ADJ.	

• Leaf Switch & Actuator/Reel Motor

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN 1	VMC0234-R11	CONNECTOR		
	CN 2	VMC0234-R08	CONNECTOR		
	S 1	VSH1170-001	CASSETTE SWITCH		
	S 2	VSH1170-001	LEAF SWITCH		
	S 3	VSH1170-001	LEAF SWITCH		
	S 4	VSH1170-001	LEAF SWITCH		
	S 5	VSH1170-001	LEAF SWITCH		
	S 6	VKS3631-001	CAM MOVEMENT		

14. Illustration of Packing and Parts List

● **Packing : Block No. M6**
● **Accessories : Block No. M7**

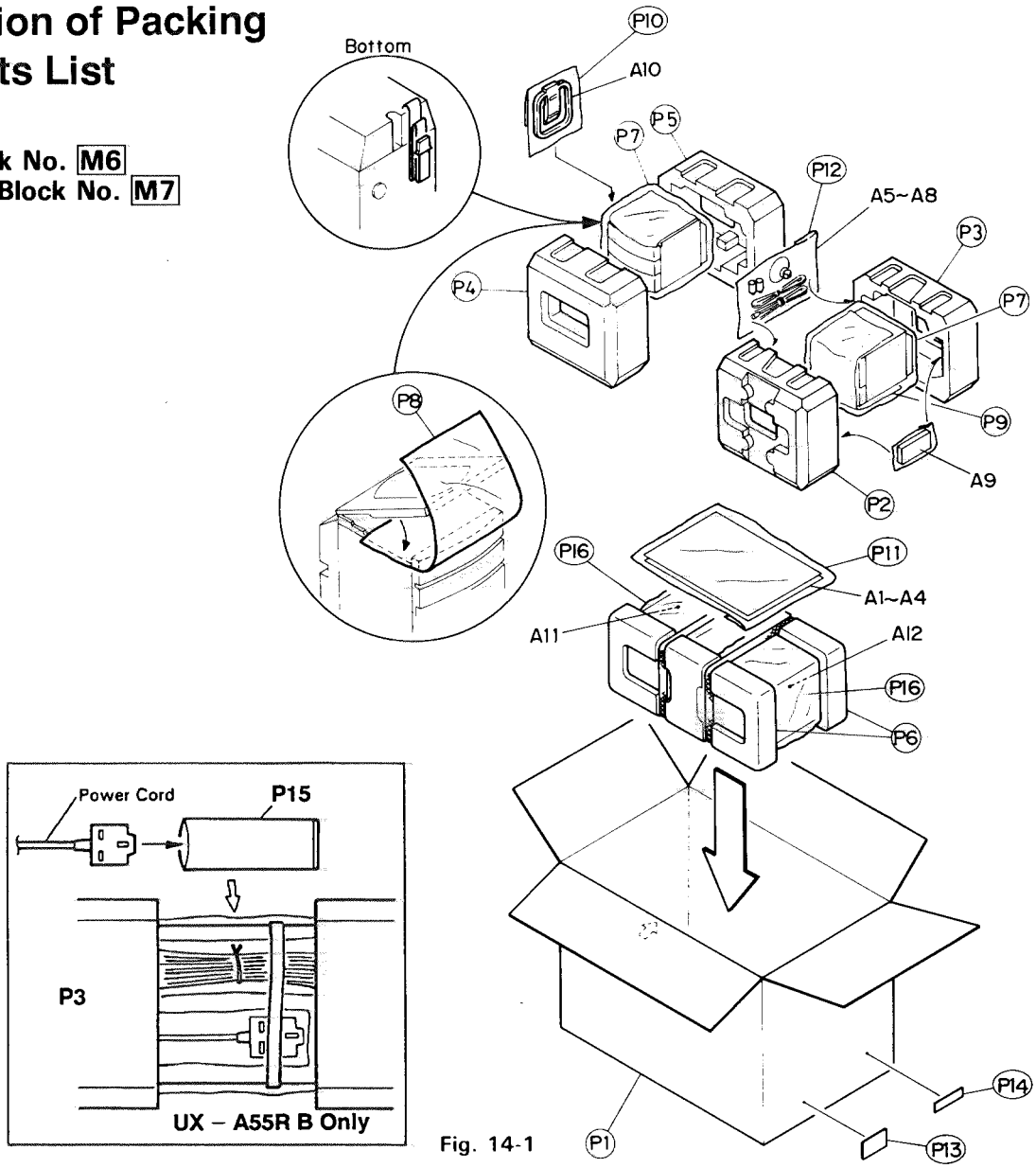


Fig. 14-1

■ **Packing parts list**

BLOCK NO. M6MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPD3002-001	CARTON		1		
	P 2	VPH1639-003	CUSHION(FRONT)	DECK/AMP	1		
	P 3	VPH1639-004	CUSHION(REAR)	DECK/AMP	1		
	P 4	VPH1599-203	CUSHION(FRONT)	CD/TUNER	1		
	P 5	VPH1599-204	CUSHION(REAR)	CD/TUNER	1		
	P 6	DH404-UX-A3	SIDE CUSHION	SPEAKER BOX	1		
	P 7	VPE3005-065	POLY BAG	DECK/AMP	1		
		VPE3005-065	POLY BAG	CD/TUNER	1		
	P 8	VPK3001-003	SHEET	CD/TUNER	1		
	P 9	VPK4002-009	SHEET	DECK/AMP	1		
	P 10	VPE3005-042	POLY BAG	AM LOOP ANT	1		
	P 11	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
	P 12	QPGA010-03003	POLY.BAG	FOR ACCESSORIES	1		
	P 13	**********	COMPUTER LABEL		1		
	P 14	**********	BAR CODE LABEL		1		
	P 15	QPGA012-02505	POLY BAG	POWER CORD	1	B	
	P 16	MIRRORBAG-SK015	POLY BAG	SPEAKER BOX	2		

15. Accessories

BLOCK NO. M7MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN4001-671S	INSTRUCTIONS		1	B	
		FSUN4001-261S	INSTRUCTIONS		1	E,G,EN	
		FSUN4001-271S	INSTRUCTIONS		1	EN	
		FSUN4001-251S	INSTRUCTIONS		1	GI, E	
	A 2	BT-20066A	WARRANTY CARD		1	B	
		BT-20135	WARRANTY CARD		1	G	
	A 3	BT20060	WARRANTY CARD		1	B	
	A 4	E4386-340B	SAFETY INS.HEET		1	B	
	A 5	VMP0093-002	SPEAKER CORD		2		
	A 6	UM-3(DJ)-2PSA	BATTERY	REMOTE CONTROL	1		
	A 7	E03614-004	FM ANTENNA		1		
	A 8	EMZ2001-014	ADAPTER		1		
	A 9	VGR0023-101	REMOCON UNIT	RM-RXUA4	1		
	A 10	EQB4001-015	AM LOOP ANT		1		
	A 11	UXB55K-SPBOX-L	SPEAKER BOX L		1		
	A 12	UXB55K-SPBOX-R	SPEAKER BOX R		1		

UX-A55R B/E/G/GI/EN

JVC

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AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

(No. 1906B)

Printed in Japan
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