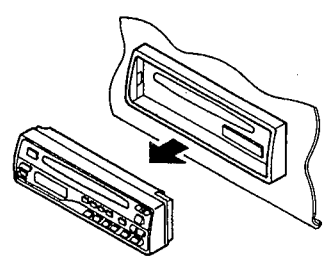
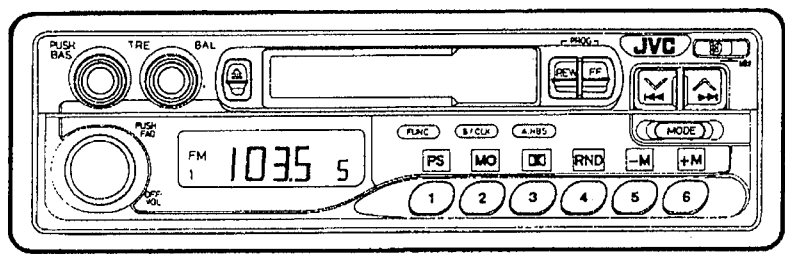


JVC

SERVICE MANUAL

MULTI-CHANGER CONTROL RECEIVER

KS- RT60 B/E/G/GI/GE



Area Suffix

- B.....U.K.
- E.....Continental Europe
- G Germany
- GI Italy
- GE Austria, Switzerland and Eastern Europe

Contents

1. Main Features.....	2	8. Wiring Connections	27
2. Specifications.....	2	9. Block Diagram	28
3. Instructions(Extract)	3	10. Standard Schematic Diagram	31
4. Location of Main Parts.....	14	11. Location of P.C. Board Parts.....	37
5. Removal of Main Parts	15	12. Electrical Parts List.....	39
6. Main Adjustment.....	17	13. Illustration of Packing and Parts List	52
7. Analytic Drawing and Parts List.....	22	14. Accessories	53

1. Main Features

- Detachable Control Panel
- Controller for the operation of CD changers containing up to 108 compact discs (for example, when 6 JVC XL-MG1800 CD Changers are connected, each containing 3 magazines with 6 discs, consequently having access of up to 108 discs)
- High Sensitivity Tuner
- AM/FM Stereo PLL Synthesizer Tuner
- 24-Station Preset Tuning (FM-18, AM [MW/LW]-6)
- Preset Scan/Seek/Manual Tuning
- SK/DK Traffic Information Reception (G/GE)
- U-Turn Auto-Reverse Mechanism
- Ignition Key-off Release/Key-on Play Mechanism
- Dolby® B Noise Reduction
- 4-Channel Amplifier System
- Maximum Power Output of 22 watts per channel (Front)/22 watts per channel (Rear)
- Active Hyper-Bass Sound
- Digital Clock Display
- Line Output Terminal

* Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

2. Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output: (Front) 22 W per channel (Rear) 22 W per channel
 Continuous Power Output (RMS): (Front) 8 W per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion. (Rear) 8 W per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.
 Load Impedance: 4 Ω (4 to 8 Ω allowance)
 Tone Control Range
 Bass: ± 10 dB at 100 Hz
 Treble: ± 10 dB at 10 kHz
 Frequency Response: 40 to 20,000 Hz
 Signal-to-Noise Ratio: 70 dB
 Line-Out Level/Impedance: 0.5 V/20 k Ω load (250 nWb/m)

RADIO SECTION

Frequency Range
 FM: 87.5 to 108.0 MHz
 AM: (MW) 522 to 1,620 kHz
 (LW) 144 to 279 kHz
 [FM Tuner]
 Usable Sensitivity: 12.1 dBf (1.1 μ V/75 Ω)
 50 dB Quieting Sensitivity: 16.3 dBf (1.8 μ V/75 Ω)
 Alternate Channel Selectivity: (400 kHz): 65 dB
 Frequency Response: 40 to 15,000 Hz
 Stereo Separation: 30 dB
 Capture Ratio: 1.5 dB
 [MW Tuner]
 Sensitivity: 20 μ V
 Selectivity: 35 dB
 [LW Tuner]
 Sensitivity: 50 μ V

CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WRMS)
 Fast-Wind Time: 100 sec. (C-60)
 Frequency Response: 50 to 16,000 Hz (± 3 dB)
 Signal-to-Noise Ratio (Dolby NR-ON): 60 dB
 (Dolby NR-OFF): 52 dB
 Stereo Separation: 40 dB

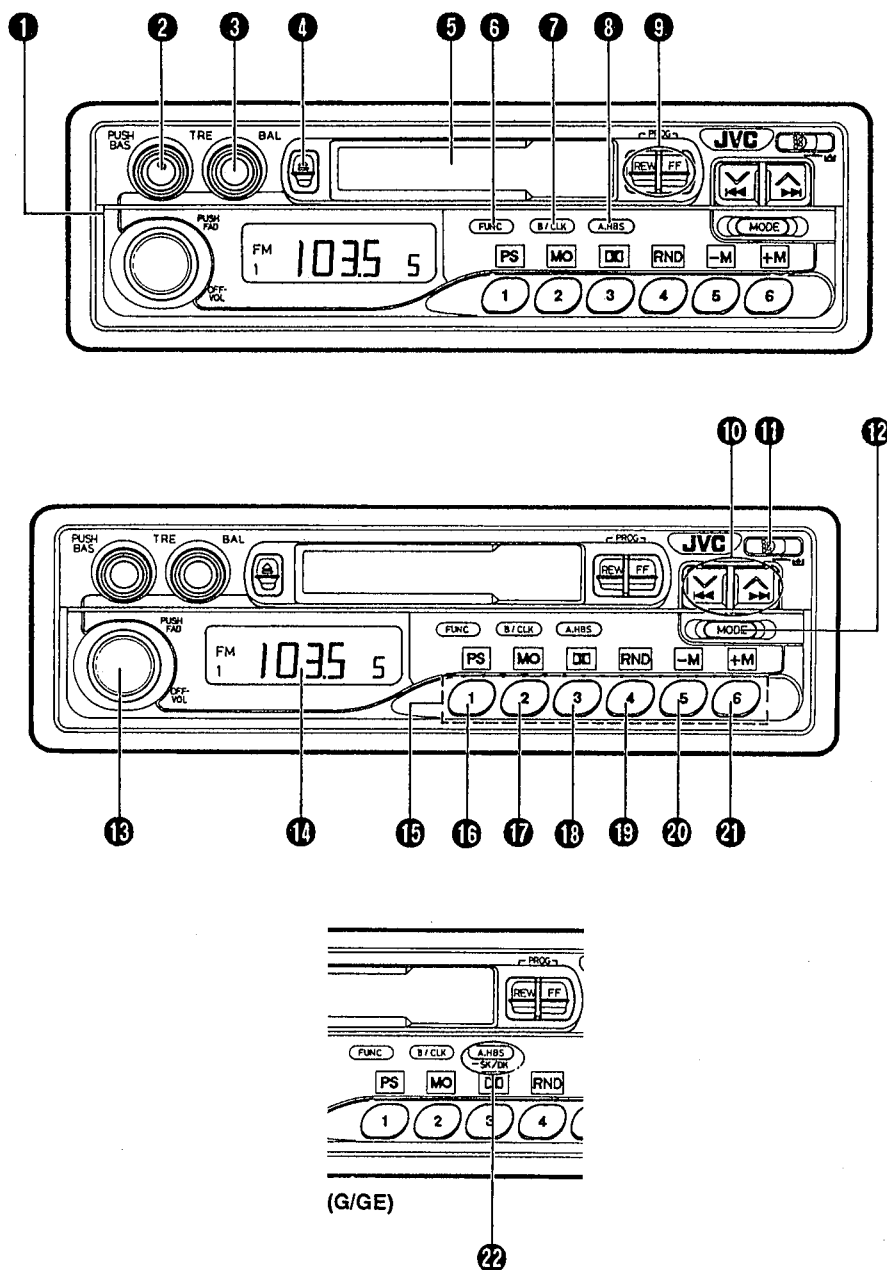
GENERAL

Power Requirement
 Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)
 Grounding System: Negative ground
 Dimensions (W x H x D) Installation Size:
 178 x 50 x 151 mm (7-1/16" x 2" x 6")
 Panel Size: 190 x 58 x 18 mm
 (7-1/2" x 2-5/16" x 3/4")
 Gross Weight: 2.1 kg (4.7 lbs)

Design and specifications subject to change without notice.

3. Instructions (Extract)

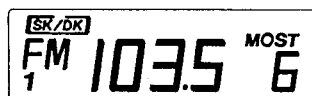
LOCATION OF CONTROLS



- ① Control panel
- ② Treble (TRE)/Push bass (PUSH BAS) Control
- ③ Balance (BAL) Control
- ④ Eject (▲) button
- ⑤ Cassette loading slot
- ⑥ Function (FUNC) button
- ⑦ Band (B)/Clock (CLK) button
- ⑧ Active Hyper-Bass Sound (A.HBS) button (B/E/GI)
- ⑨ Program (PROG)/REW, FF buttons

- ⑩ Tuning/Time Adjustment/Skip (search) button
Down frequency/Hour adjustment (▼)/(◀◀)
- Up frequency/Minute adjustment (▲)/(▶▶)
- ⑪ Control Panel Release (⏏) switch
- ⑫ MODE button
- ⑬ Power ON-OFF/Volume (VOL)/Push fader (PUSH FAD) controls
- ⑭ Display window

23



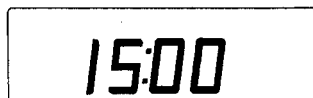
24



25



26



- 15 Preset Station buttons (No.1 to No.6)
- Disc Number buttons (No.1 to No.6)
- 22 Active Hyper-Bass Sound (A.HBS) button
- SK/DK button (G/GE)

- Press the following buttons after the MODE button has been pressed and its red indicator is lit. Five seconds after completing the operation, the MODE button's red indicator goes out.

- 16 Preset Scan (PS) button
- 17 MONO (MO) button
- 18 Dolby B NR (□) button
- 19 Random (RND) button
- 20 Magazine select (-M) button
- 21 Magazine select (+M) button

- 23 Indicators (for Tuner section)
- Band (FM1-FM2-FM3-AM)
- Radio frequency
- Preset Station
- FM Stereo (ST)
- Mono (MO)
- SK/DK (G/GE)
-

- 24 Indicators (for Tape Deck section)
- TAPE mode
- Tape direction (◀▶)
- Dolby B (□) NR

- 25 Indicators (for CD Changer Control sections)
- Disc number
- Track number
- Magazine number
- DISC
- TRACK
- MAG
- RND
-

○ E1 - ○ E8

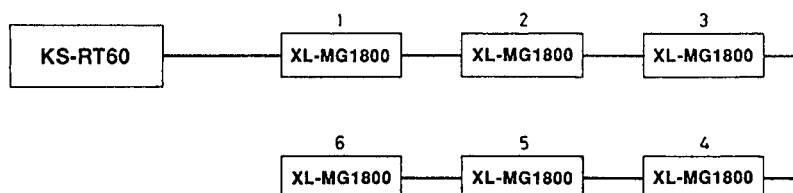
- 26 Indicators (for other controls)
- Time

CD AUTOMATIC CHANGER OPERATION

PRECAUTIONS

- This unit is for the control of a JVC CD Automatic Changer (to be purchased separately).
- (Applicable models; XL-MK500/MG700RF/MG800RF/MG1800)
- For correct usage, refer to the Instructions of the CD Automatic Changer.
- When a cassette is loaded while a CD is playing, cassette playback has priority.
- When there are no discs in the CD changer's magazine or the discs are inserted upside down, "----" will be shown in the display. If this happens, remove the magazine and set the discs correctly.
- When "○ E1 - ○ E8" is shown in the display of the unit, confirm that the cord is connected and press the RESET button of the CD Changer.
- * The "○" shows the number of CD changers connected to this unit.

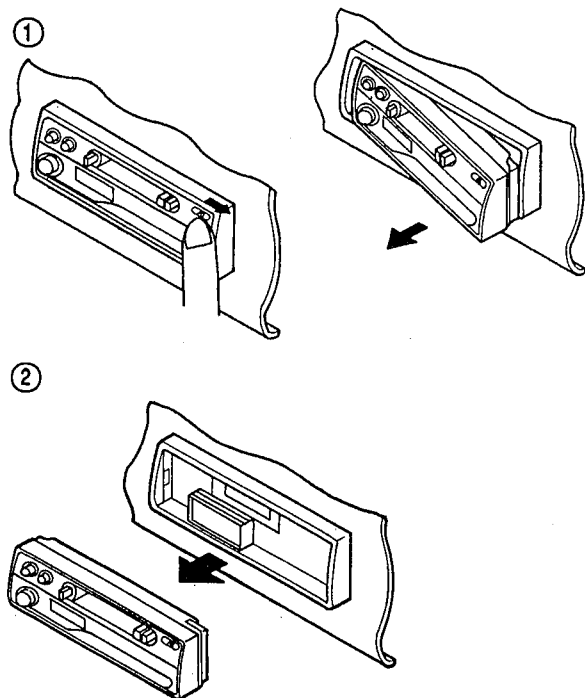
Example: When 6 XL-MG1800 changers are connected.



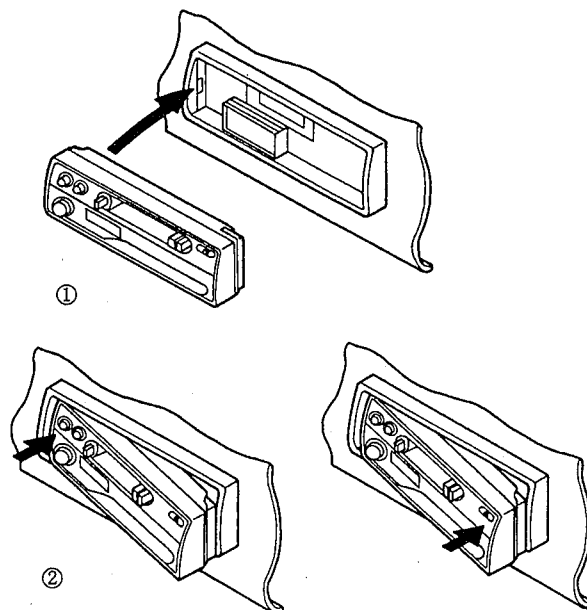
("E1" means that the 5th CD changer is the cause of the trouble.)

How To Detach The Control Panel

- ① Slide the Control Panel Release (▲) switch in the direction of the arrow to detach the control panel.
- ② Pull the control panel out of the main unit, as shown below.
 - Put the control panel in the provided case for protection.

**How To Attach The Control Panel**

- ① Align the left side of the control panel with the left side of the holder.
- ② Press the left side of the control panel first, then the right side to set it correctly.

**Note:**

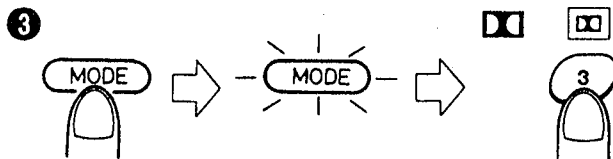
- Be careful not to damage the connector terminals when attaching/detaching the control panel or while the control panel is removed.

Active Hyper-Bass Sound Button

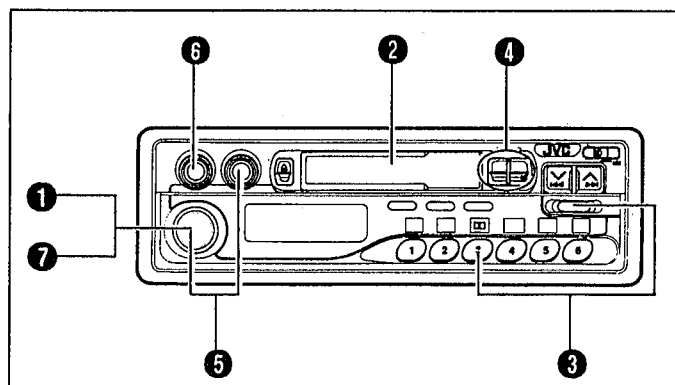
Press the A.HBS button to listen to hyper-bass sound. (The A.HBS button lights red.)

TAPE OPERATION

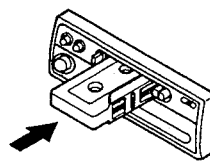
Operate in the order shown.



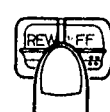
See page 19.

**1 OFF - VOL**

Switch on.

2

Insert a cassette.

4 PROG

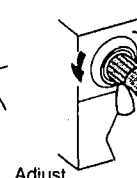
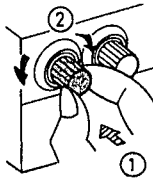
Select program.

5 VOL

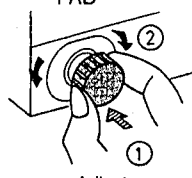
BAL



Adjust.

6 PUSH BAS

Adjust.

7 PUSH FAD

Adjust.

• DOLBY B NR button

Set the Dolby B NR (□□) button as required after the MODE button has been pressed and its red indicator is lit.

ON — (□□) indicator lights.

OFF — (□□) indicator goes out.

Ignition Key-Off Release (Key-On Play) Mechanism

When the ignition key is turned OFF, the "key-OFF release" mechanism automatically releases the tape from the magnetic head, then enters Standby mode. When the ignition is turned ON, Playback mode automatically restarts.

How To Fast-Forward And Rewind Tapes

Press the FF button to fast-forward the side being played; when the tape end is detected, the tape is reversed and playback starts from the beginning of the other side.

Press the REW button to rewind the tape to its beginning, where playback restarts.

Lightly press the PROG button to start playback from the current position during fast-forward or rewind.

Auto-Reverse Mechanism

When the tape reaches its end, this mechanism automatically switches over to play back the other side. To listen to the other side of the tape during playback, press the PROG button. The change in direction can be checked in the Tape Direction indicator.

Manual Tuning

Set Manual mode using the MODE button. When the MODE button's red indicator is lit, the unit is in Manual mode. Then, by pressing the Tuning button, you can move up/down the frequency band. The band is scanned as long as either side of the button is pressed.

Frequency scan steps are as follows:

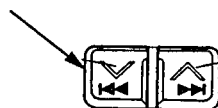
FM — in 50 kHz units

MW/LW — in 9 kHz units.

In AM operation, the frequency continuously moves from the MW (522 to 1,620 kHz) to LW (144 to 279 kHz) band and vice versa.

- When approx. 5 seconds have elapsed after completing manual tuning, the unit switches back to Seek mode and the MODE button's red indicator goes out.

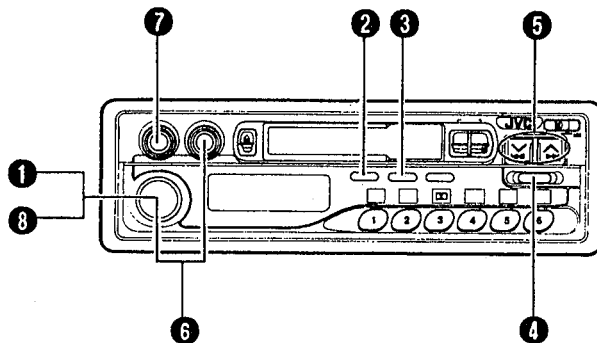
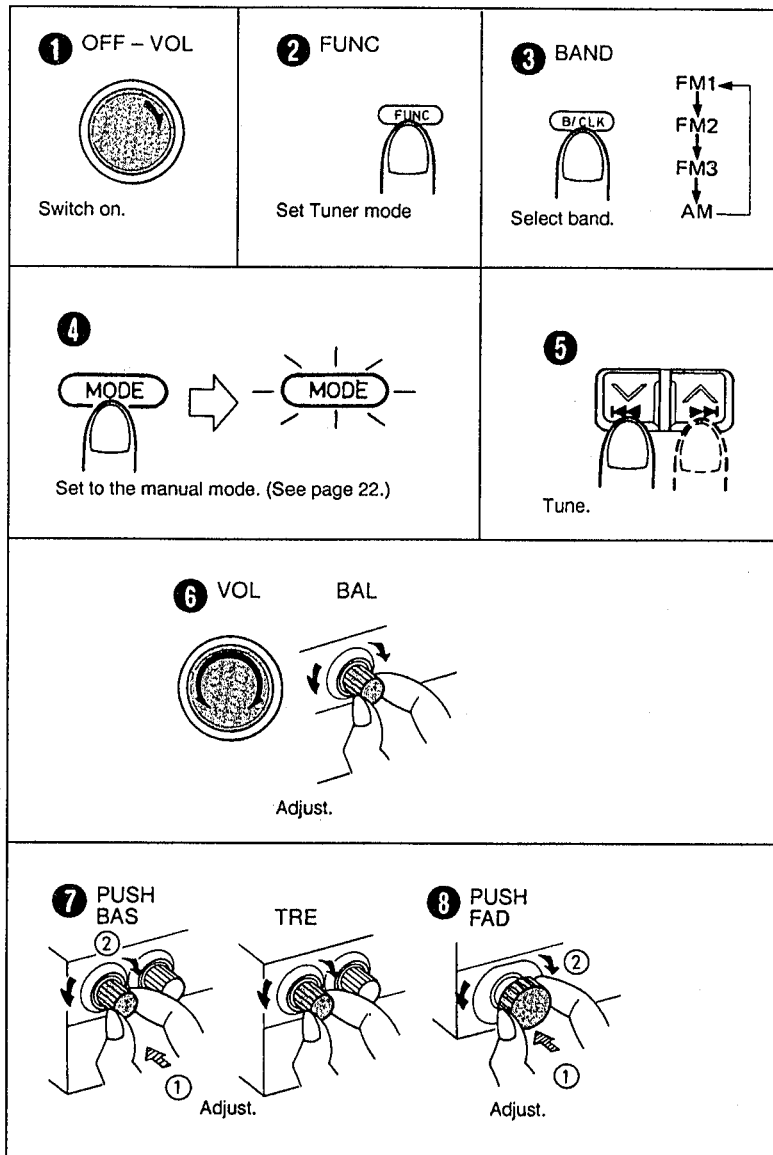
Press to move to lower frequencies.



Press to move to higher frequencies.

RADIO OPERATION

Operate in the order shown.



Seek Tuning

The unit is in Seek mode when the MODE button's red indicator goes out. Then, by pressing the $\wedge$ or $\vee$ button the unit tunes to the adjacent station with a higher or lower frequency. In AM operation, the frequency continuously moves from the MW to LW band and vice versa.

Preset Button Tuning

How to Preset Stations

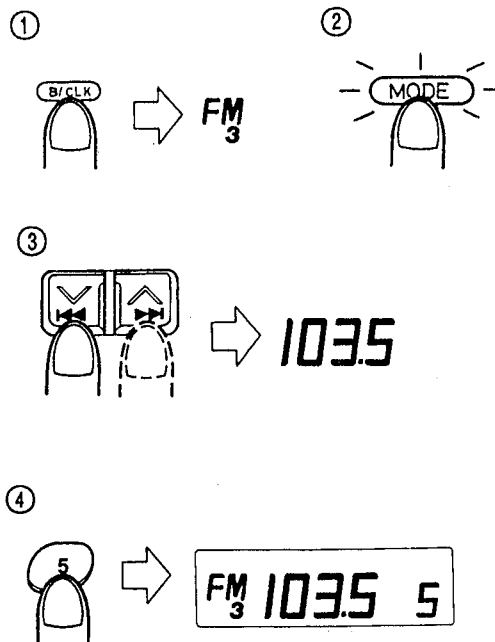
6 stations in each band (FM1, FM2, FM3 and AM [MW/LW]) can be preset as follows:

- Example (when presetting Preset Station button "5" of the FM3 band to an FM station at 103.5 MHz)

- ① Select the FM3 band using the Band (B) button.
 - ② Set Manual mode.
 - ③ Tune to the desired station.
 - ④ Press Preset Station button "5" for more than 2 seconds. (When "5" blinks in the Preset Station display, the station is preset.)
- Repeat the above procedure for the other 5 Preset Station buttons and other bands (FM1, FM2 and AM [MW/LW]).

Notes:

- A previously preset station is erased when a new station is stored in memory.
- The preset stations are erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the stations again.



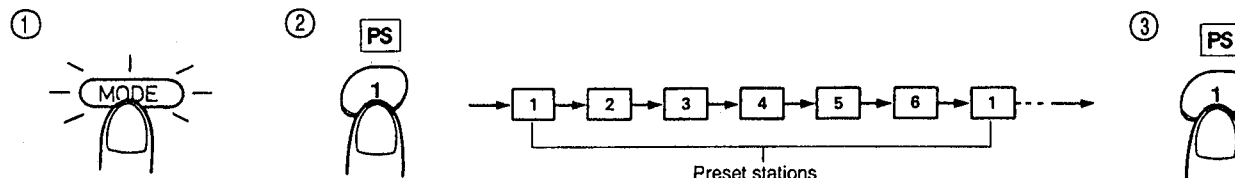
Preset Tuning

- ① Select the band.
- ② Press the required Preset Station buttons (No.1 to No.6).

Preset Scan Button Tuning

This function makes it possible to automatically scan preset FM and AM (MW/LW) stations.

- ① Press the MODE button (its red indicator lights).
- ② Press the PS button.
 - Scanning is performed in the order of the preset stations in each frequency band (FM1, FM2, FM3 and AM [MW/LW]). Each preset station is heard for approx. 5 seconds.
- ③ When the required station is heard, press the PS button again.



**Receiving Traffic Information
Broadcasts (G/GE version only)**

- 1. Select the FM1, FM2 or FM3 band using the Band (B) button.
- 2. Press the SK/DK button for more than 1 second before operation. The SK/DK indicator lights.
- 3. Perform Seek Tuning to search for a station broadcasting traffic information. When such a station is received, the **SK/DK** indicator will light and the broadcast can be heard.
- 4. As long as the tuner is set to receive traffic information stations, even if you are listening to a cassette tape or CD, when traffic information is broadcast, it is automatically heard. When the broadcast is over, cassette or CD playback restarts. While listening to traffic information broadcasts, if the signal becomes weak, a stronger station is searched for automatically.

Notes:

- 1. The SK/DK button operates when in FM mode only.
- 2. When listening to an FM broadcast, if the tuner is not set to a traffic information station, after approx. 5 seconds an alarm tone will be heard. If the reception is poor, after approx. 30 seconds an alarm tone will be heard. In such a case, perform Seek Tuning or press the SK/DK button for more than 1 second.

Mono Button

When listening to FM, set the MO button to STEREO or MONO after the MODE button has been pressed and its red indicator is lit.

Note:

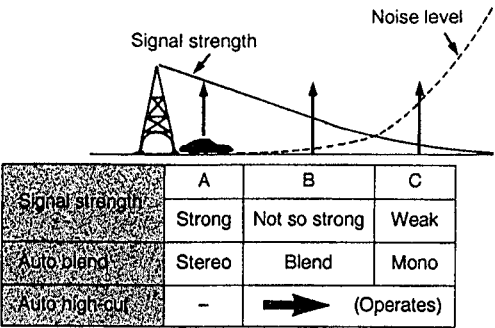
Set to MONO when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

FM Pulse Noise Suppressor

This unit has built-in circuitry to effectively eliminate engine noise picked up by the antenna, etc. in the form of FM pulses, for a more favorable FM reception.

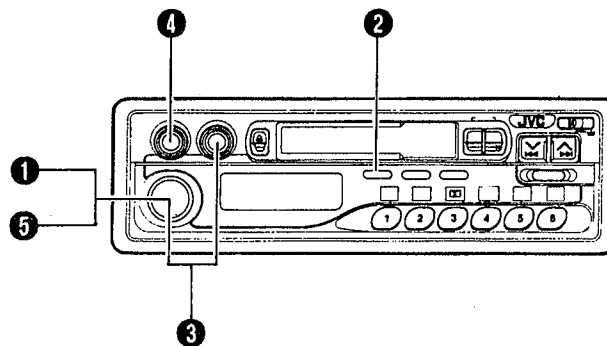
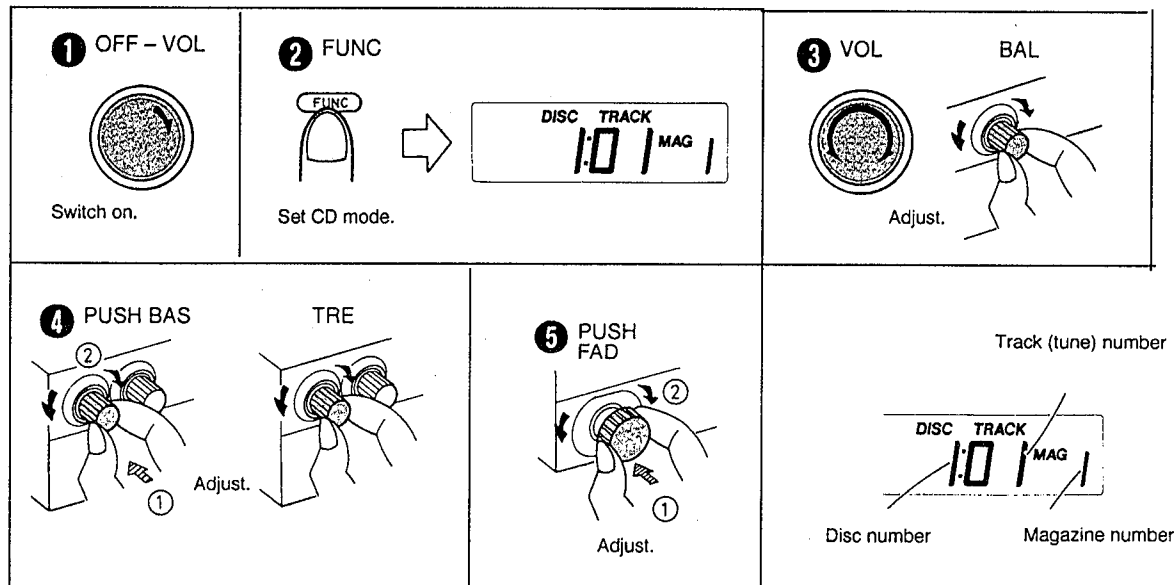
Automatic FM Noise Suppressor (AFNS)

This unit incorporates an automatic FM noise suppression circuit to ensure satisfactory reception of FM broadcasts when a vehicle is moving and signal strengths are continuously fluctuating.



PLAYING COMPACT DISCS

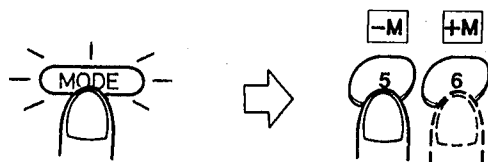
How To Play All Tracks
Operate in the order shown.



- When all tracks on the first disc have been played, the second disc starts automatically from the first track.

Magazine Selection

- Press the Magazine Select button (+M/-M) after the MODE button has been pressed and its red indicator is lit; to select the required magazine.
(Example: to select the 3rd magazine in the XL-MG1800 changer.)



- When selecting the 10th or higher magazine with four or more connected XL-MG1800 changers, the unit digit of the magazine number blinks.
(For example, when the 18th magazine is being selected, the "8" blinks.)

Note:

The KS-RT60 can be connected to up to 6 XL-MG1800s, each containing 3 magazines, which means that the KS-RT60 can control up to 18 magazines.

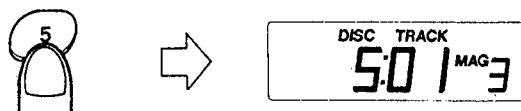
Disc Selection

• Direct Disc Selection

Press the Disc No. button (No.1 to No.6) corresponding to the required disc. CD play starts when the Disc No. and Track No. indicators light.

Example:

(How to designate Disc 5)

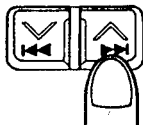


Skip Playback

- During playback, you can easily skip to the beginning of the previous, current, or next track, and playback will start again from there.

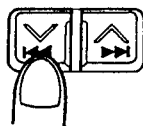
How to listen to the next track...

Press the (▶▶) button once to skip to the beginning of the next track.



How to listen to the previous track...

Press the (◀◀) button once to skip to the beginning of the current track, then again to skip to the previous track.



- When Magazine Select, Disc Select and Skip operations are performed in sequence, the required track from a designated disc can be selected.

Search Playback

(How to locate a required position on the disc.)

- The required position can be located using fast-forward or reverse search during playback.
- Hold down the button to commence searching. (The search speed increases the longer the button is pressed.)
- Since a low sound level can be heard (approx. one quarter of playback), monitor the sound and release the button when the required position is located.

Keep pressed for fast-reverse searching.



Keep pressed for fast-forward searching.

Random Playback

Each time the RND button is pressed after the MODE button has been pressed and its red indicator is lit, the mode changes from Random 1 (the RND indicator lights) to Random 2 (the RND indicator blinks) to Clear mode, in this order.

Random 1:

Randomly plays all tracks on the current disc once, then on each of the following discs in order.

Random 2:

Randomly selects and plays tracks from all of the CDs in the loaded magazine.

DIGITAL CLOCK DISPLAY

• How to turn the clock display ON/OFF.

When listening to a tape (or CD), each time the CLK button is pressed, the time or "TAPE" (or CD information) can be displayed.

When the unit is in Tuner mode, press the CLK button for more than 2 seconds to select the time.

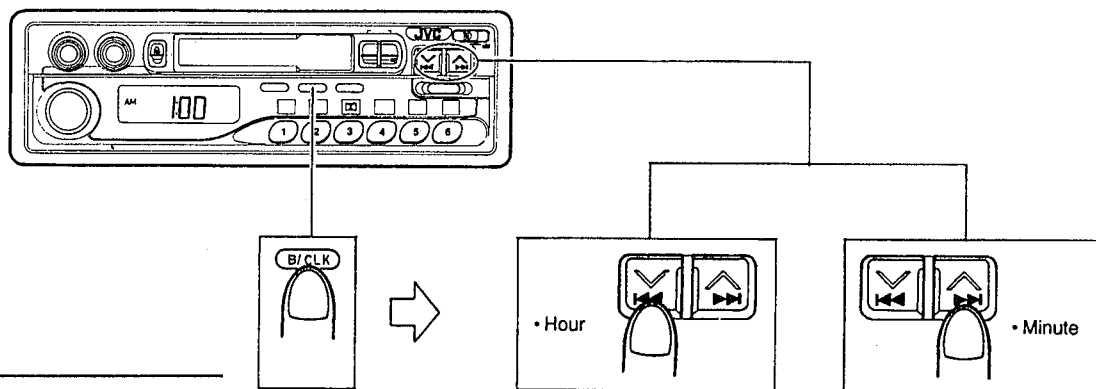
When the tuner or CD is operated in Time mode, the display will switch to tuner or CD information, then, after a brief period will return to Time mode.

When listening to a tape, "TAPE" or the current time is shown in the display.

How To Adjust The Time

Make sure the display is in Time mode, then, while pressing the CLK button, press the Hour Adjustment button (⌞) to adjust the "hours", and press the Minute Adjustment button (⌠) to adjust the "minutes".

- Each time the hour digits change from 11 to 12, the display alternates between AM and PM. (12 midnight is indicated as "AM 12:00" and 12 noon is indicated as "PM 12:00".)



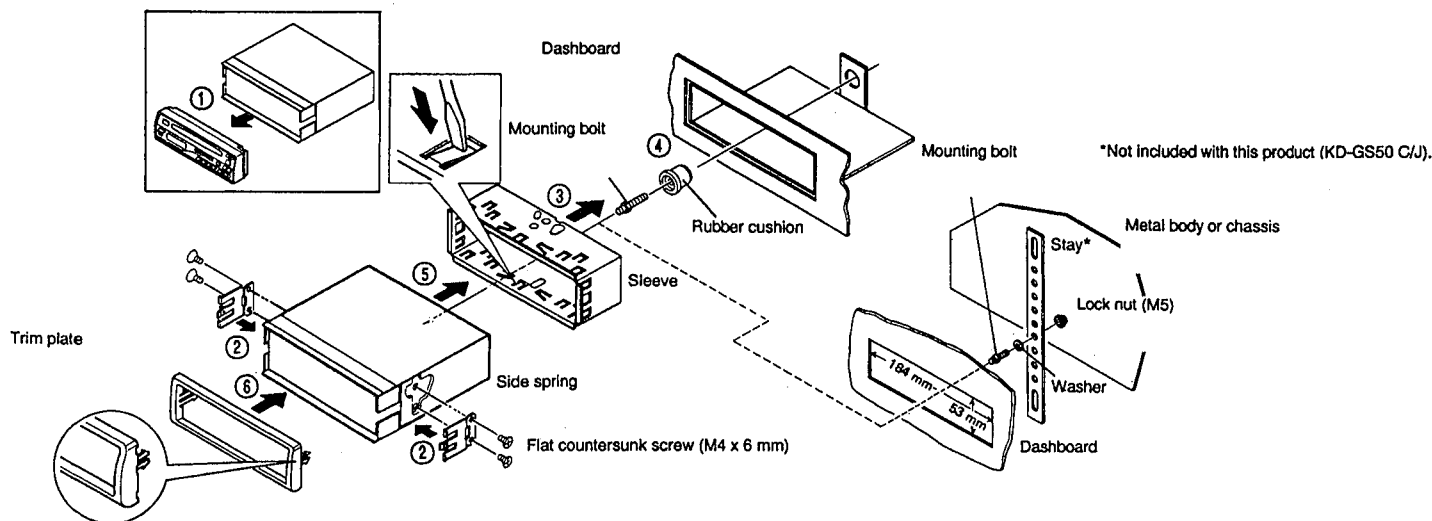
INSTALLATION (IN-DASH MOUNTING)

IMPORTANT

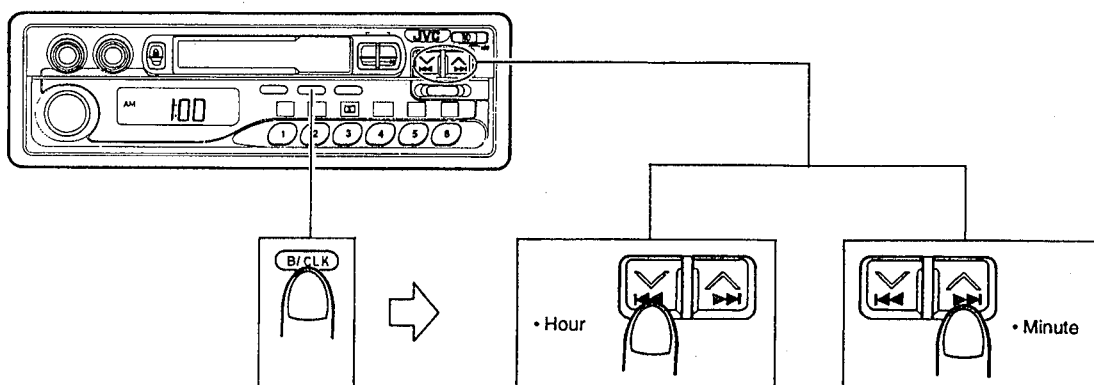
- Before using this unit for the first time, press the Eject button fully, to reset the mechanism.

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC "IN-CAR ENTERTAINMENT" dealer.

- Follow the numbers for mounting.



- ① Slide the Control Panel Release (⏏) switch to the right and remove the control panel.
- ② Attach the 2 side springs.
- ③ Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
- ④ Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.
- ⑤ Slide the unit into the sleeve until they are locked together.
- ⑥ Attach the trim plate.



INSTALLATION (IN-DASH MOUNTING)

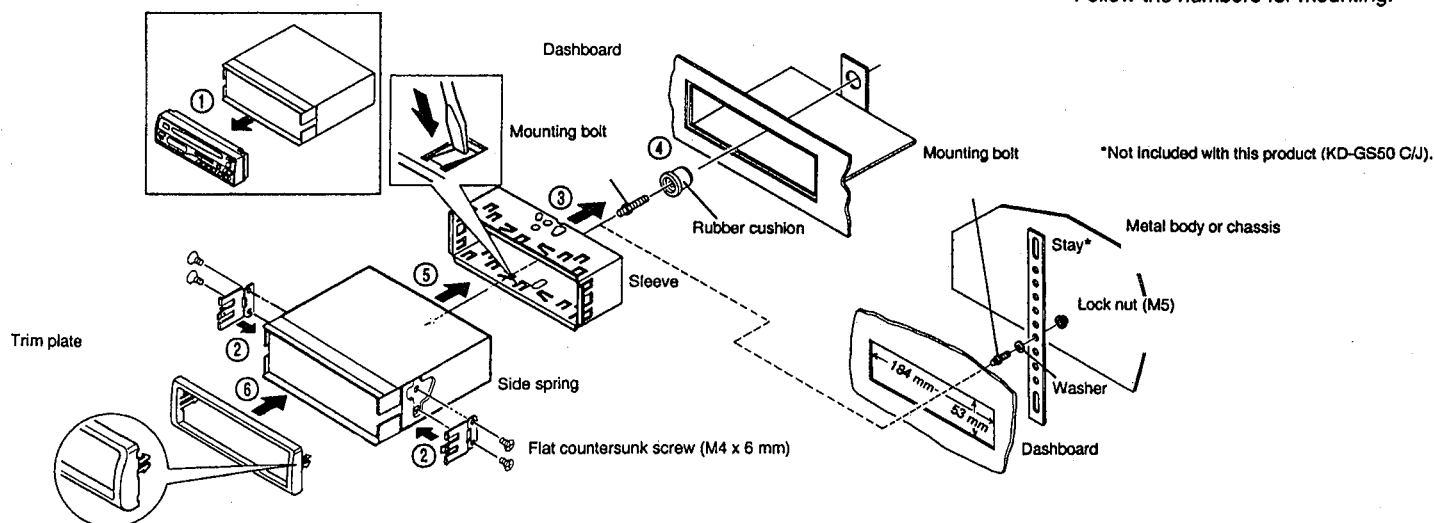
IMPORTANT

- Before using this unit for the first time, press the Eject button fully, to reset the mechanism.

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC "IN-CAR ENTERTAINMENT" dealer.

- ① Slide the Control Panel Release (A) switch to the right and remove the control panel.
- ② Attach the 2 side springs.
- ③ Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
- ④ Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.
- ⑤ Slide the unit into the sleeve until they are locked together.
- ⑥ Attach the trim plate.

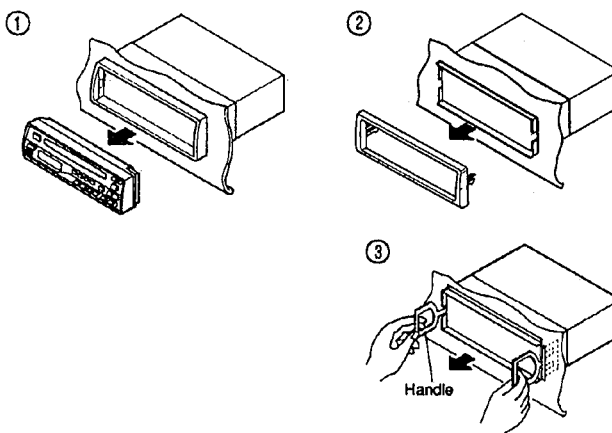
- Follow the numbers for mounting.



Removing the unit

- Before removing the unit, release the rear section.

- ① Remove the control panel.
- ② Remove the trim plate.
- ③ Insert the 2 handles between the side springs and the sleeve, as shown. Then, while gently pulling the handles away from each other, slide out the unit.



ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:

This unit is designed for a 12-volt DC negative ground. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

- Maximum input of the speakers should be more than 22 watts at the rear and 22 watts at the front, with an impedance of 4 to 8 ohms.

CAUTIONS:

As this unit uses BTL (Balanced Transformerless) amplifier circuitry (floating ground system), please comply with the following:

1. Do NOT connect the black-lined speaker leads to a common point.
2. Do NOT connect the speaker leads to the metal body or chassis.
3. Cover the terminals of the leads that are NOT used with insulating tape, to prevent them from shorting.

- Be sure to ground this unit to the car's chassis.

A. 4-Speaker Connections

- When attaching the connectors, make sure a click sound is heard.
- When detaching the connectors, first disengage the lock.

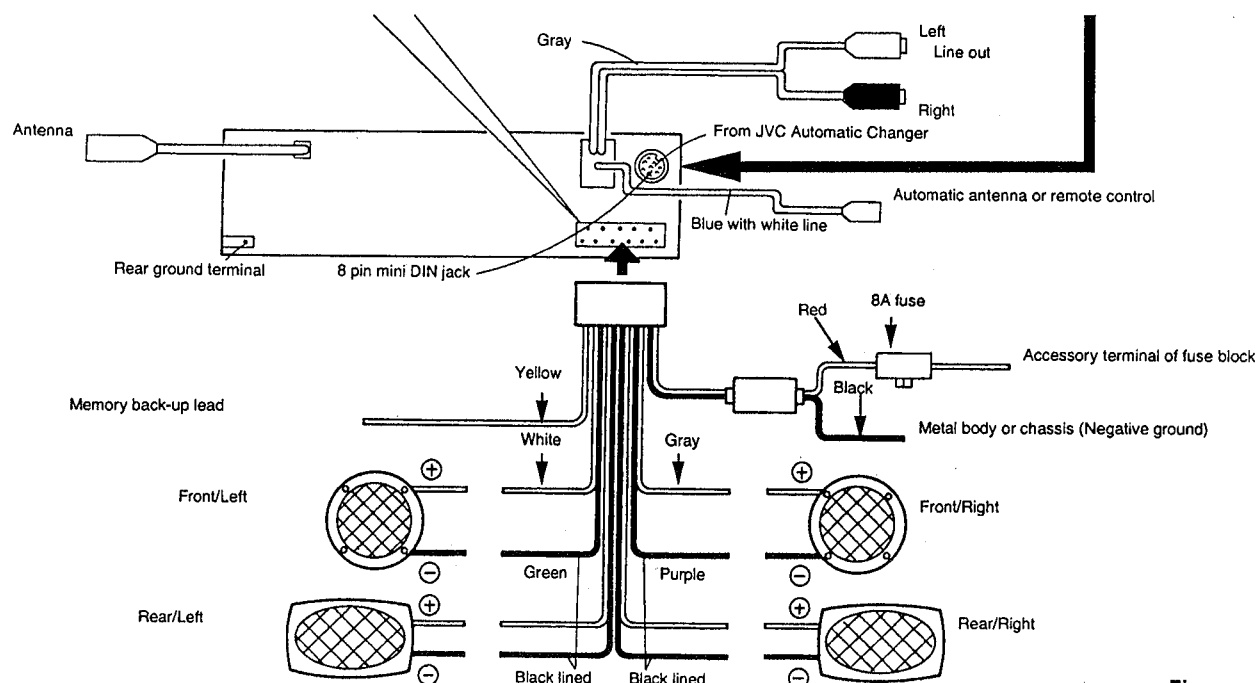
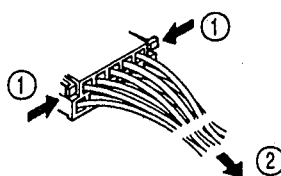


Fig. a

B. Line Terminal Connections (Line Out)

Since this unit has line-out terminals, an amplifier and other equipment can be used to upgrade your car stereo system.

- With an amplifier, connect this unit's line-out terminals to the amplifier's line-in terminals.

C. Automatic Antenna Connections

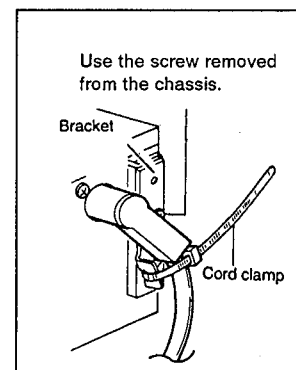
To use the automatic antenna, connect its remote lead (blue with white lines) terminal. For details of installation, see the automatic antenna's Instruction Manual.

D. Memory Back-Up Lead

Connect this lead to a LIVE power source (supplied even when vehicle ignition is OFF).

E. Fader Control

- When used in a 4-speaker system
When the PUSH FAD control is turned counterclockwise, the sound will be heard from the front speakers, and when turned clockwise, from the rear speakers.
- When used in a 2-speaker system
Set this control to the center position.



4. Location of Main Parts

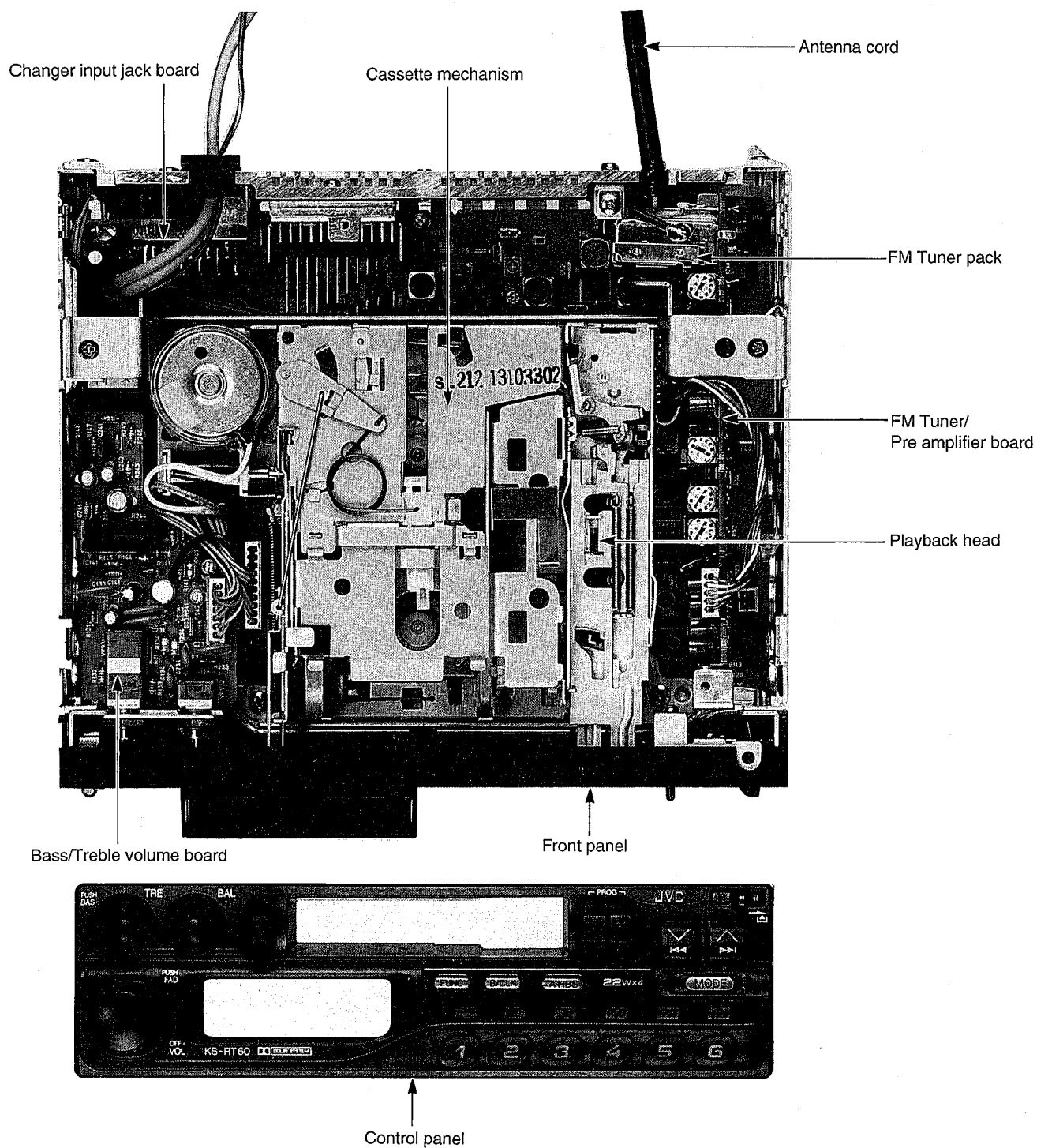


Fig. 4-1

5. Removal of Main Parts

■ Method of removing the top cover

(Refer to Fig. 5 - 1, 5 - 2, and 5 - 3)

1. From the back of the body, remove the two screws(1) retaining the top cover.
2. Insert a minus screw driver into the clearance between the body and top cover and disengage the two engagements(A and B) retaining the top cover.

■ Method of removeing the bottom cover

(Refer to Fig. 5 - 1)

1. From the back of the body, remove the one screw(2) retaining the bottom cover.
2. Insert a minus screw driver into the clearance between the body and bottom cover and disengage the two engagements(C and D) retaining the top cover.

■ Method of removeing the front panel

(Refer to Fig. 5 - 2 and 5 - 3)

1. Press the control panel release button and remove the control panel from the body.
2. Disengage the four engagements (a, b, c and d) retaining the front panel with a minus screw driver.
3. When the front panel has been removed, the connector CP701 on the relay P.C. board attached to the front panel and the connector CJ701 on the main amplifier P.C. board will be disconnected automatically.

■ Method of removing the cassette mechanism assembly (Refer to Fig. 5 - 4)

1. From the connector CP911 on the preamplifier P. C. board, remove the #5 PIN connector outgoing from the head relay P.C. board.
2. Remove the four screws(3 × 2 and 4 × 2) retaining the cassette mechanism assembly.
3. From the connector on the mechanism switch P.C. board, remove the #10 PIN connector outgoing from W901 on the main amplifier P.C. board.

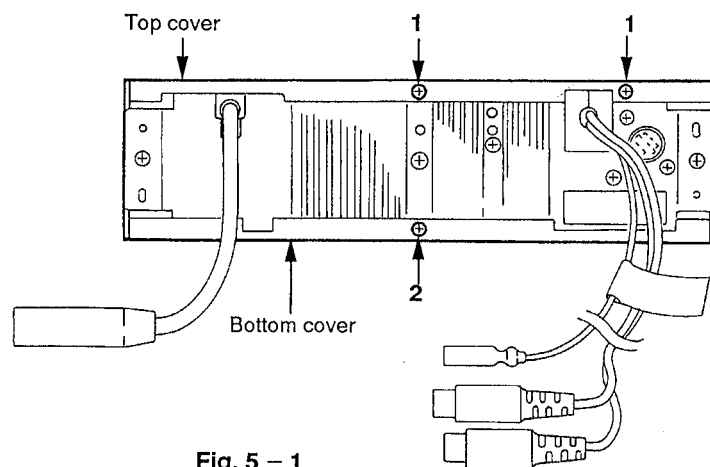


Fig. 5 - 1

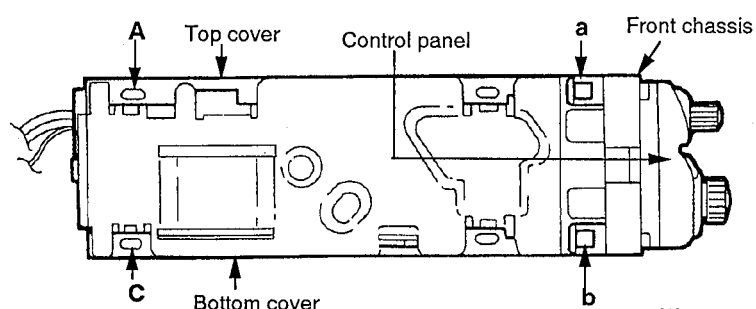


Fig. 5 - 2

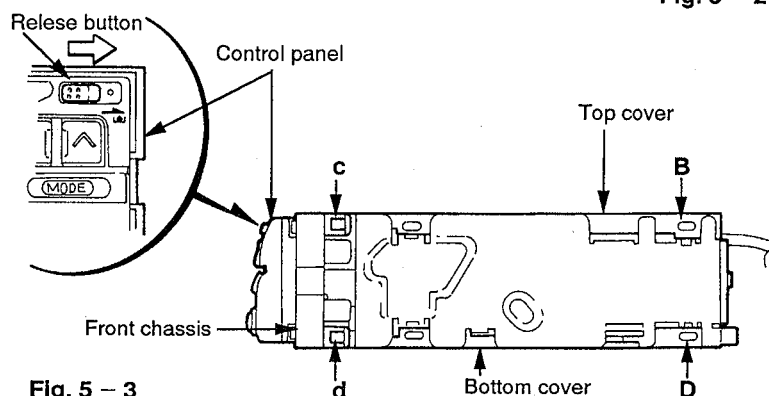


Fig. 5 - 3

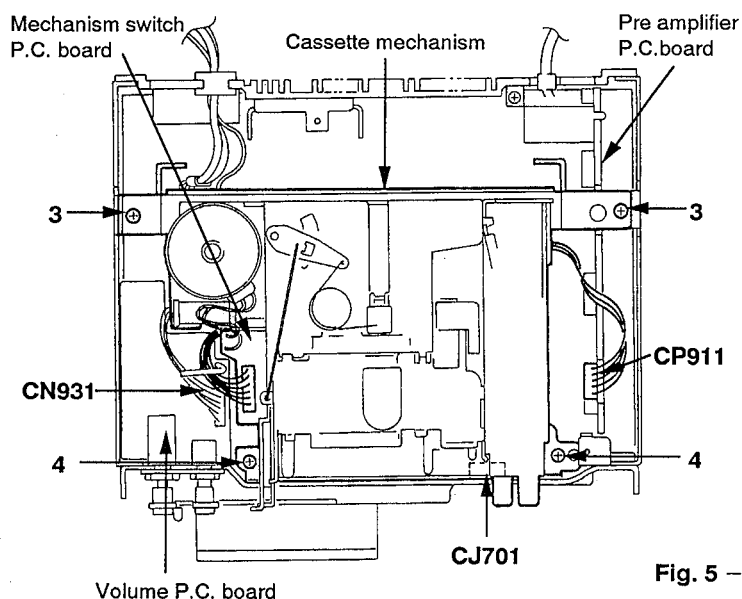


Fig. 5 - 4

■ **Method of removing the preamplifier P.C. board**
(Refer to Fig. 5 – 5 and 5 – 6)

1. Remove the one screw(5)retaining the antenna cord.
2. Remove the one screw(6)retaining the preamplifier P.C. board.
3. Disengage the connection between the fourconnectors(CJ1, CJ2, CJ3, CJ912)on the preamplifier P.C. board and the four connectors(CP1, CP2, CP3, CP912)on the main amplifier P.C. board.

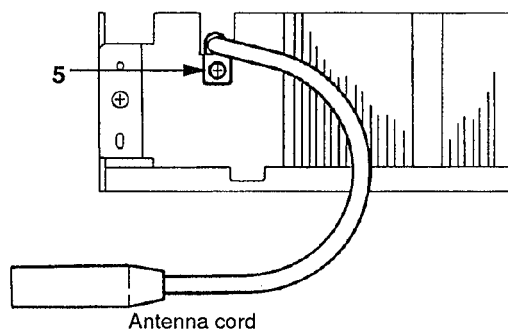


Fig. 5 – 5

■ **Method of removing the volume P.C. board**
(Refer to Fig. 5 – 4 and 5 – 6)

1. Remove the two shaft knobs from the "BASS/TREBLE/BALANCE"volume shaft.
2. From the body, remove the two nuts retaining the "BASS/TREBLE/BALANCE"volume.
3. Remove the volume P.C. board from the front bracket.(Refer to Fig. 5 – 4)

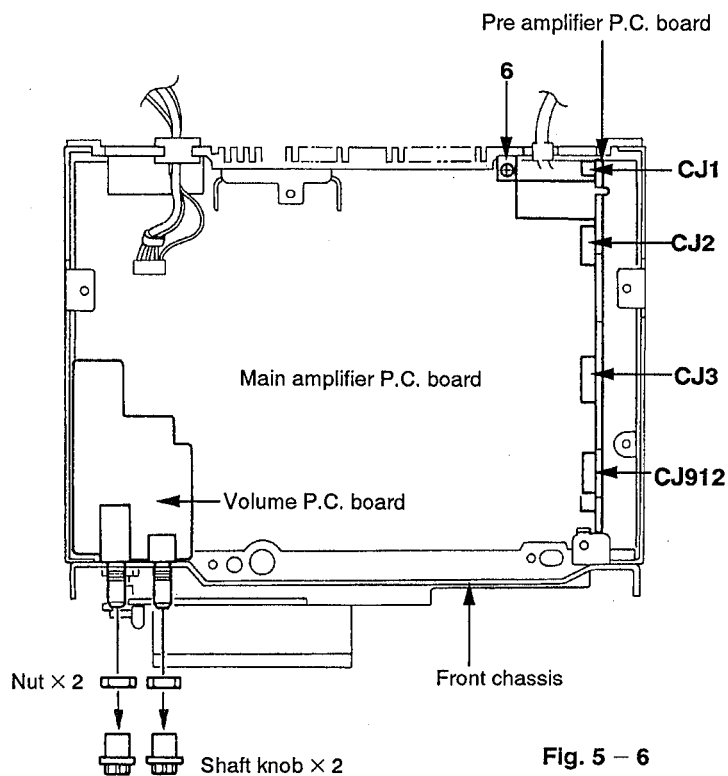


Fig. 5 – 6

6. Main Adjustment

■ Test Instruments required for adjustment

1. Digital oscilloscope(100 MHz)
2. AM Standard signal generator
3. FM Standard signal generator
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Pulse jitter meter
9. Test Tapes
 - VTT721 For Output level measurement
 - VTT726 For distortion measurement
 - VTT736 For playback frequency measurement
 - VTT712 For wow flutter&tape speed measurement
 - VTT704 For head azimuth measurement
10. Torque gauge.....Cassette type for CTG – N
(mechanism adjustment)
TW – 2111A(FWD PLAY)
TW – 2121A(REV PLAY)

■ Measuring conditions (Amplifier section)

- Power supply voltage..... DC14.4V(10.5~16V)
Load impedance.....4 Ω (4 Speaker connection)
20k Ω (LINE OUT : 2ch)

● Standard volume position

Balance and Bass & Treble volume to be centre. Output level to be adjusted to 2V with test tape VTT724.

■ Arrangement of adjusting position

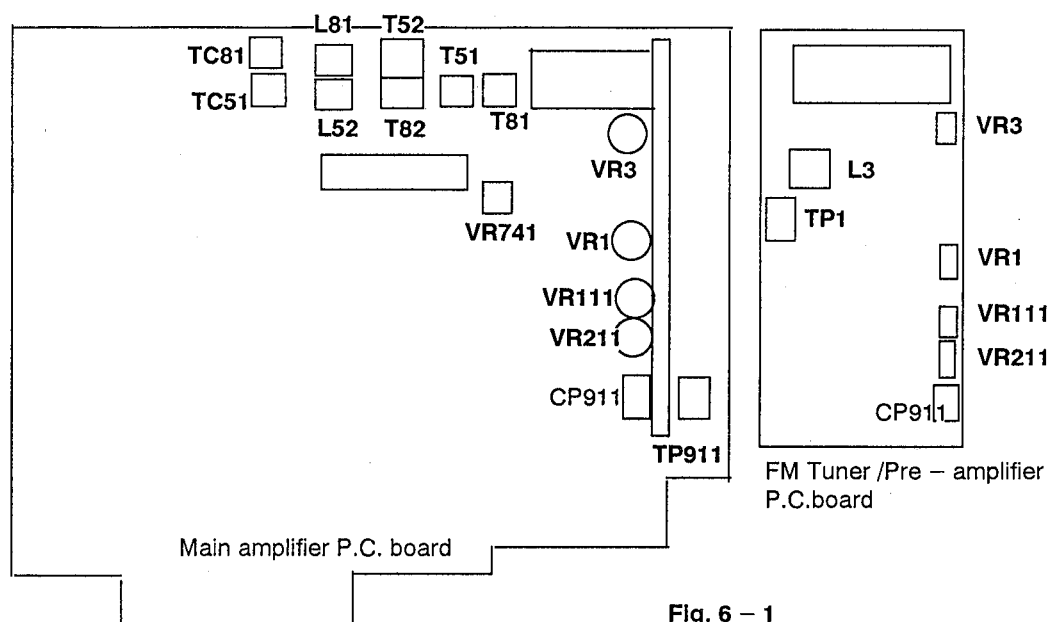


Fig. 6 – 1

■ Tuner section

Manual tuning up/down frequency

FM : 200kHz step

MW : 10kHz step, LW : 1kHz step

Setting of reference frequency of SSG

MW, LW mode 400Hz, 30% modulation

FM mono mode 400Hz, 22.5kHz deviation

FM stereo mode 1kHz, 67.5kHz dev.,
pilot 7.5kHz dev.

Output level 0dB(1 μ , 50 Ω /open terminal)

Dummy load

Exclusive dummy for AM, FM should be used. Using FM dummy load, 6dB loss occurs between SSG output and antenna input.

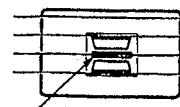
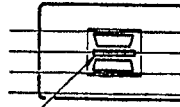
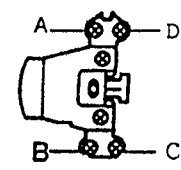
Standard input AM:74dB μ , FM:66dB μ

The 6dB loss need not to be considered since direct reading figures are applied in this working standard.

Initial preset stations

Band	1	2	3	4	5
FM1(MHz)	87.5	89.9	97.9	105.9	107.9
MW(kHz)	522	603	999	1404	1620
LW(kHz)	144	153	216	270	281

■ Cassette mechanism & Amplifier Sections

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. Head Azimuth Adjustment	Test tape: SCC – 1659 VTT704	★ In case the head and its height have been changed, it will be necessary to adjust the height of the head. 1. Adjustment of the height of head 1)When the mirror tape SCC – 1659(2line tape) is travelling in the FWD. direction ,adjust the screws A and B so that the line A is located at the center of the shield plate between the head channels. 2)When the mirror tape SCC – 1659(2line tape) is travelling in the REV.direction, adjust the screws C and D so that the line B is located at the center of the shield plate between the head channels. 2. Head azimuth 1)Adjust the screw B so that the output level becomes maximum and the phase difference becomes minimum when VTT704 is travelling in the FWD. direction. 2)Adjust the screw C so that the output level become maximum the phase difarence become minimum when VTT704 is travelling in the REV. direction. 3)By repeating the avove adjustments steps 1) and 2),make sure that the output level and phase difference as specifed respectively . 4)There is no need to preform bonding after adjustment.	S.Values	Adjust  A Line Head shield The head is at low position during FWD.  B Line Head shield The head is at high position during REV. Output level: Maximum screw – D  Output level: Maximum screw – C
2. Tape speed and wow flutter confirmantion	Test tape:VTT712 (3kHz)	1.Check to see if the reading of the F.counter /wow flutter meter is within 3015~3045 (FWD/REV), and less than 0.35%(JIS RMS) . 2. In case of out of specefication,adjust the motor with a built – in volume resistor.	Tape speed: 3015 ~3045Hz Wow flutter:less than0.35%	Built – in volume resistor
3.Playback frequency response confirmation	Test tape:VTT724 (1kHz) VTT736 (125Hz/1kHz/8kHz)	1. Play test tape VTT724, the set the volume position at 2V 2. Play test tape VTT736 confirm 1kHz/8kHz:0 ± 3dB 1kHz/125Hz:0 ± 3dB 3. When 8 kHz is out of specification, it will be nessessary to read just the azimuth	Speaker out 1kHz/125Hz :0 ± 3dB 1kHz/8kHz :0 ± 3dB	

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
4. DOLBY level adjustment	• Test tape : VTT724(1kHz) • DOLBY NR : OFF	1. Playback test tape VTT724. 2. Adjust VR111 and VR211 so that output level become $31.8 \text{ mV} \pm 2 \text{ mV}$.	Output level : $31.8 \text{ mV} \pm 2 \text{ mV}$	VR111, VR211

■ MW/ LW Tuner Section

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
MW VT alignment	• Test point : TP51	① At the indication of 522kHz, adjust L52 to obtain 1.2V at TP51. ② At the indication of 1620 kHz, adjust TC51 to obtain 7.5V at TP51. ③ ①, ② repeat.	1.2V at TP51 7.5V at TP51	L52 TC51 L52, TC51
MW Tracking alignment	• SSG: Reduce input level, just recognized the peak point. • Measuring point : Speaker output	① At the receiving 603 kHz, adjust T51, T52, T54 to obtain maximum output. ② At the receiving 1620 kHz, adjust TC51 to obtain maximum output. ③ Repeat the adjustment ①. ④ Make sure that output is below 8.2V at 1620 kHz.	Maximum output Below 8.2V	T51, T52, T54 TC51 T51, T52, T54
LW VT alignment	• Test point : TP51	① At the indication of 144kHz, adjust L81 to obtain 1.2V at TP51. ② At the indication of 279kHz, adjust TC81 to obtain 5.0V at TP51. ③ ①, ② repeat.	$1.2 \pm 0.05 \text{ V}$ $5.0 \pm 0.2 \text{ V}$	L81 TC81
LW tracking 1 adjustment	• SSG : Reduce input level, just recognized the peak point. • Measuring point : Speaker out	① At the receiving 153 kHz, adjust T81, T82 to obtain maximum output. ② At the receiving 279 kHz, adjust TC81 to obtain maximum output. ③ Repeat the adjustment ①. ④ Make sure that output is below 8.2V at 1620kHz.	Maximum output	T81, T82 TC81 T81, T82
LW tracking 2 adjustment	• SSG : Reduce input level, just recognized the peak point. • Measuring point : Speaker out	① At the receiving 153 kHz, adjust L81 to obtain maximum output. ② At the receiving 279 kHz, adjust TC81 to obtain maximum output. ③ Repeat the adjustment ①. ④ Make sure that output is below 8.2V at 1620kHz.	Maximum output 8.2V at 1620kHz	L81 TC81 L81

■ FM Tuner section

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
SK Filter adjustment (G/GE version only)	- SSG : 97.9MHz, SK input : 66dB - Test point : TP601	- Adjust VR601 so that output level become maximum. - Modulation to be set less than 10%. Note;FM 0V adjust, at FA is not necessary(Complete at 1st alignment) In case of repara, receiving FM 97.9MHz, 66dB, adjust L3 to $0 \pm 30\text{mV}$ at TP1.	Output level : Maximum $0 \pm 30\text{mV}$	VR601 L3
Stop sensitivity adjustment	SSG : 97.9MHz, non modulation 28dB Test point : TP701	Adjust VR741 so that voltage at TP701 become $0 \rightarrow 5\text{V}$.(Using oscilloscope of DC range.	$0 \rightarrow 5\text{V}$	VR741
Separation adjustment	SSG : 97.9MHz, 66dB modulate only Rch T. point : Speaker out	Adjust VR1 so that Lch output become minimum loutput evel.	minimum level	VR1
FM 0volt adjustment	Test point : TP1 SSG: 97.9MHz, non modulation 66dB	FM 0V adjust at FA is not necessary.In case of repara, receiving FM 97.9MHz, 66dB, adjust L3 so that DC level $0 \pm 30\text{mV}$ can be obtained at TP1.	$0 \pm 30\text{mV}$	L3
Blend adjustment	.Test point : Speaker out SSG : 97.9MHz, Stereo, modulate only Rch 52dB	Adjust VR3 so that the diviation between Lch and Rch should be 20dB when receiving signal. ※ CAUTION : After aligning blend, do not adjust stop sensitivity. because blend will shift.	Diviation : 20 dB	VR3

7. Analytic Drawing and Parts List

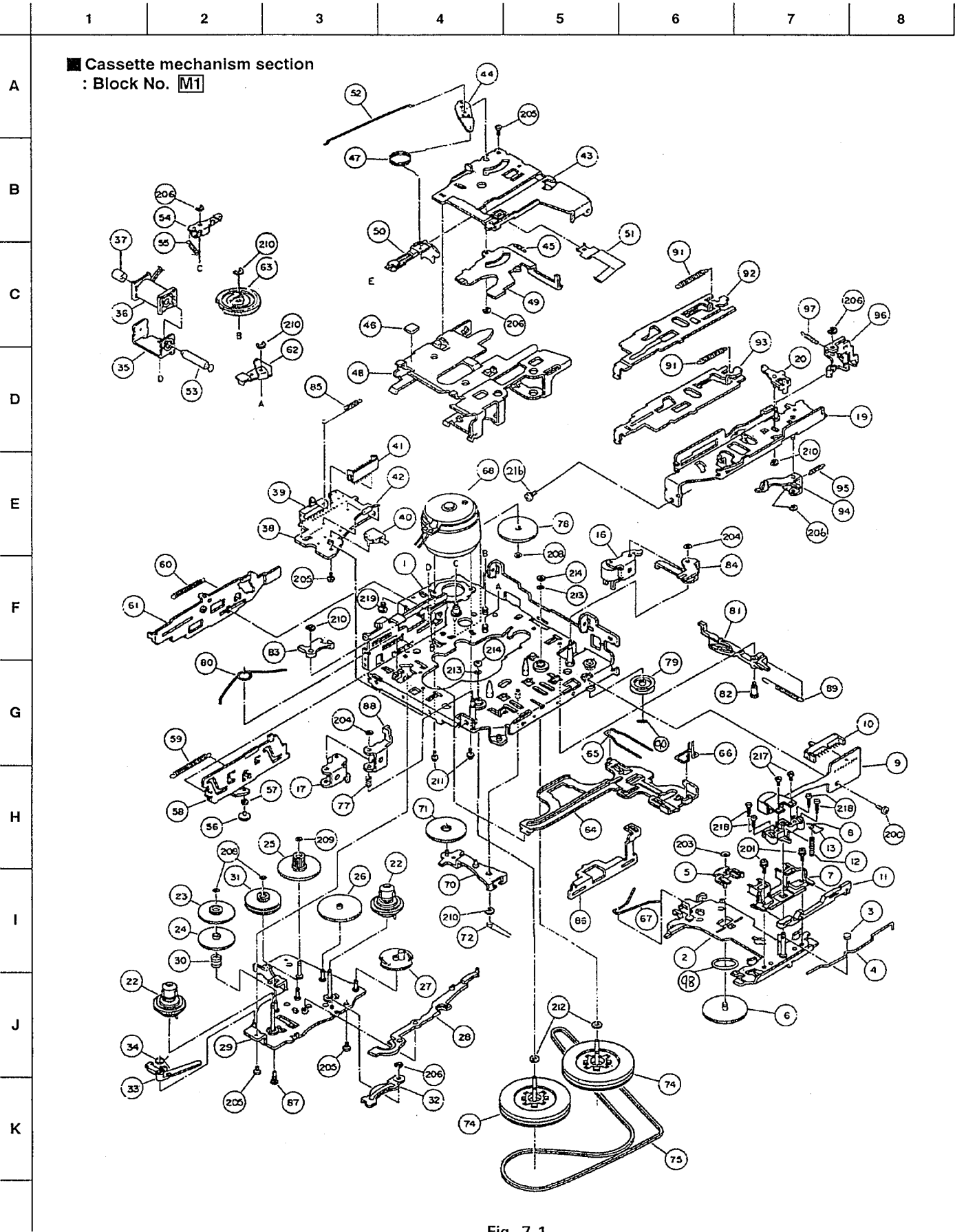


Fig. 7-1

■ Cassette mechanism parts list

 BLOCK NO. **M1MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	194001512AT	CHASSIS ASS'Y		1		
	2	194016503T	HEAD PANEL ASY.		1		
	3	19400303T	SP ROLLER		1		
	4	19400304T	P.R.SPRING		1		
	5	19400305T	P.GEAR METAL		1		
	6	19400306T	P.GEAR		1		
	7	19400312T	TAPE GUIDE U		1		
	8	19400327T	HEAD HOLDER B		1		
	9	62011702T	HEAD	P-7542-BB0571	1		
	10	64020207T	SLIDE SWITCH	SSSSA3002A	1		
	11	19400328T	SHIFT PLATE B		1		
	12	19400315T	H.G SPRING		1		
	13	9F2635010T	FASTEN WASHER		1		
	16	194004301T	P.ROLL.ARM(F)AS		1		
	17	194004302T	P.ROLL.ARM(R)AS		1		
	19	194005503T	F.R.BKT(M)ASS'Y		1		
	20	194005504T	SEESAW P(M)ASY.		1		
	22	194006302T	T.REEL ASS'Y		2		
	23	19400612T	P.GEAR (R)		1		
	24	19400613T	F.GEAR (R)		1		
	25	19400615T	P.D.GEAR		1		
	26	19400616T	E.D.GEAR		1		
	27	19400617AT	REVERSE GEAR(M)		1		
	28	19400648T	E.D.PLATE B		1		
	29	194002501T	M.G.P.SEMI-ASY.		1		
	30	19400635T	TN SPRING		1		
	31	194006312T	P.CLUTCH ASS'Y		1		
	32	194014129T	LIFT UP PLATE		1		
	33	19401464T	ANTI-REV ARM		1		
	34	19401460T	TRI ARM SPRING		1		
	35	19401431T	P.BRACKET(K)		1		
	36	19401432T	K.F COIL ASS'Y		1		
	37	19401433T	CORE(K)		1		
	38	19400704T	SW SUBSTRATE		1		
	39	64020206T	SLIDE SWITCH	SSSSA2001A	1		
	40	64020405T	PUSH SWITCH	SPVC11001A	1		
	41	68140248T	CONNECTOR	53253-1020	1		
	42	ERB12-01	DIODE	ERB12-01	1		
	43	19400801T	CASE LIFTER		1		
	44	184008503T	P.E PLATE ASS'Y		1		
	45	18400820T	SPRING		1		
	46	18400875T	CUSSHION RUBBER		1		
	47	18400813GT	REVERSE SP.C		1		
	48	19401410T	CASSETTE CASE M		1		
	49	19400804T	C.D PLATE B		1		
	50	19400810T	PACK SLIDER		1		
	51	19400806T	PACK PRESS.SP.		1		
	52	18400823T	P.E SPRING		1		
	53	19401434T	PLUNGER(K)		1		
	54	194020505T	T.A.PLATE ASS'Y		1		
	55	19401437T	T.A.PLATE SP.		1		
	56	19400901T	H.P.ROLLER(A)		1		
	57	19400902T	H.P.ROLLER(B)		1		
	58	19400953T	C.H.PUSH PLAT.M		1		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
59	19400905T	C.H.SPRING		1		
60	19400906T	PUSH LEVER SP.		1		
61	19400907T	PUSH LEVER M		1		
62	194020502AT	K.F PLATE ASS'Y		1		
63	194014739T	K.F CAM GEAR		1		
64	19401001T	MAIN PLATE		1		
65	19401002T	M.S.SPRING		1		
66	19401007T	H.S.SPRING		1		
67	19401444T	K.F.SPRING		1		
68	194011310T	MOTOR ASS'Y	MCI-5U3LCKA	1		
70	194012504T	FR W.PLT.SEM.AS		1		
71	19401703T	F.GEAR		1		
72	19401704T	FR SPRING M		1		
74	194013303T	F.L.CAPS.ASS'Y		2		
75	19401417T	MAIN BELT		1		
77	18400437T	P.P SPRING		1		
78	194014123T	MAIN GEAR M		1		
79	194014115T	MIDDLE PULLEY		1		
80	19401443T	HEAD PANEL SP.M		1		
81	19401405T	TRIGGER ARM(C)		1		
82	19401406T	COLLAR SCREW(T)		1		
83	19401442T	H.P.PUSH ARM(K)		1		
84	19401409T	SEESAW WRK.PLT.		1		
85	19401412T	POWER SW.SPRING		1		
86	194014127T	FR SLIDE PLT.M		1		
87	19401415T	COLLAR SCREW(P)		1		
88	19401416T	H.P.RETURN ARM		1		
89	19401407T	T.A.SPING(C)		1		
90	9W0225010T	P.WASHER CUT	0.85X2.8X0.25	1		
91	19401589T	FR LEVER SPRING		2		
92	19401590T	FF LEVER (MH)		1		
93	19401591T	REW LEVER(MH)		1		
94	19401503T	P.C.PLATE		1		
95	19401504T	P.C.SPRING		1		
96	19401505T	ROCK PLATE (M)		1		
97	19401506T	ROCK PLATE SP.M		1		
98	9W0540020T	HL WASHER	10 X 14 X 0.4	1		
200	9P1220051T	S TAPPING SCREW	M2 X 5	1		
201	9P0220051T	TAMS SCREW	M2 X 5	2		
203	9W0640070T	HL WASHER CUT	2.1 X 4 X 0.4	1		
204	9W0630060T	HL WASHER CUT	1.6 X 3.8 X 0.3	2		
205	9C0420303T	S TAPPING SCREW	FOR CAMERA M2X3	4		
206	9E0100152T	E RING	S 1.5	5		
208	9W0625030T	HL WASHER CUT	1.2X3X0.25	3		
209	9W0630050T	HL WASHER CUT	1.6 X 3.4 X 0.3	1		
210	9E0100202T	E RING	S2.0	3		
211	9P0220031T	TAMS SCREW	M2 X 3	2		
212	9W0513060T	HL WASHER	2.1 X 5 X 0.13	2		
213	9W0520010T	HL WASHER CUT	1.85 X 3.2 X 0.	2		
214	9W0650030T	HL WASHER CUT	1.5 X 3.2 X 0.5	2		
216	9P0226041T	TAMS SCREW	M2.6 X 4	1		
217	9F2720401T	FIX SCREW	FOR HEAD	2		
218	9F2220071T	ADJUST SCREW		4		
219	9P0226531T	SCREW	M2.6 X 3.5	1		

■ Enclosure assembly part: Block No. **M** **2**

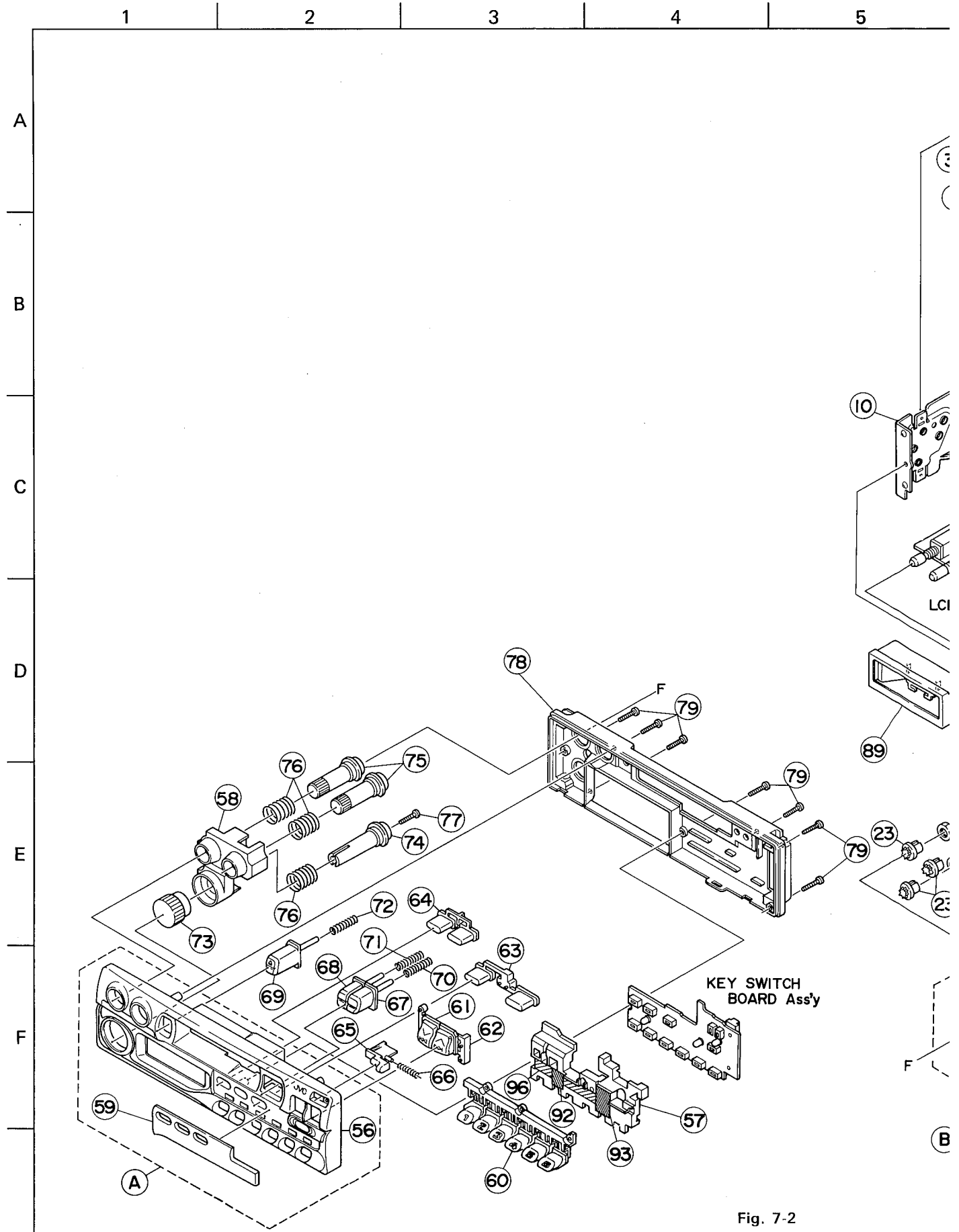
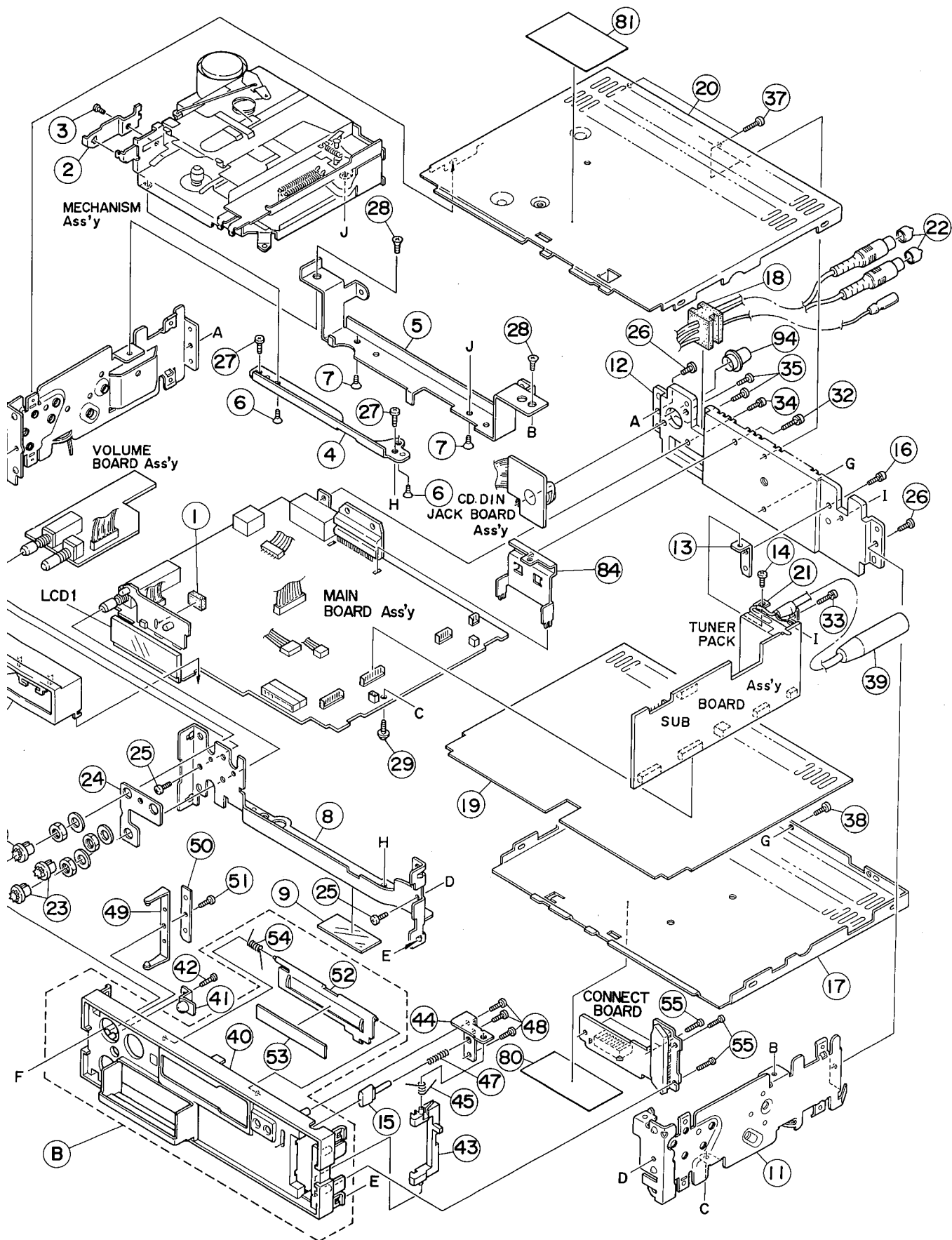


Fig. 7-2



■ Enclosure assembly parts list

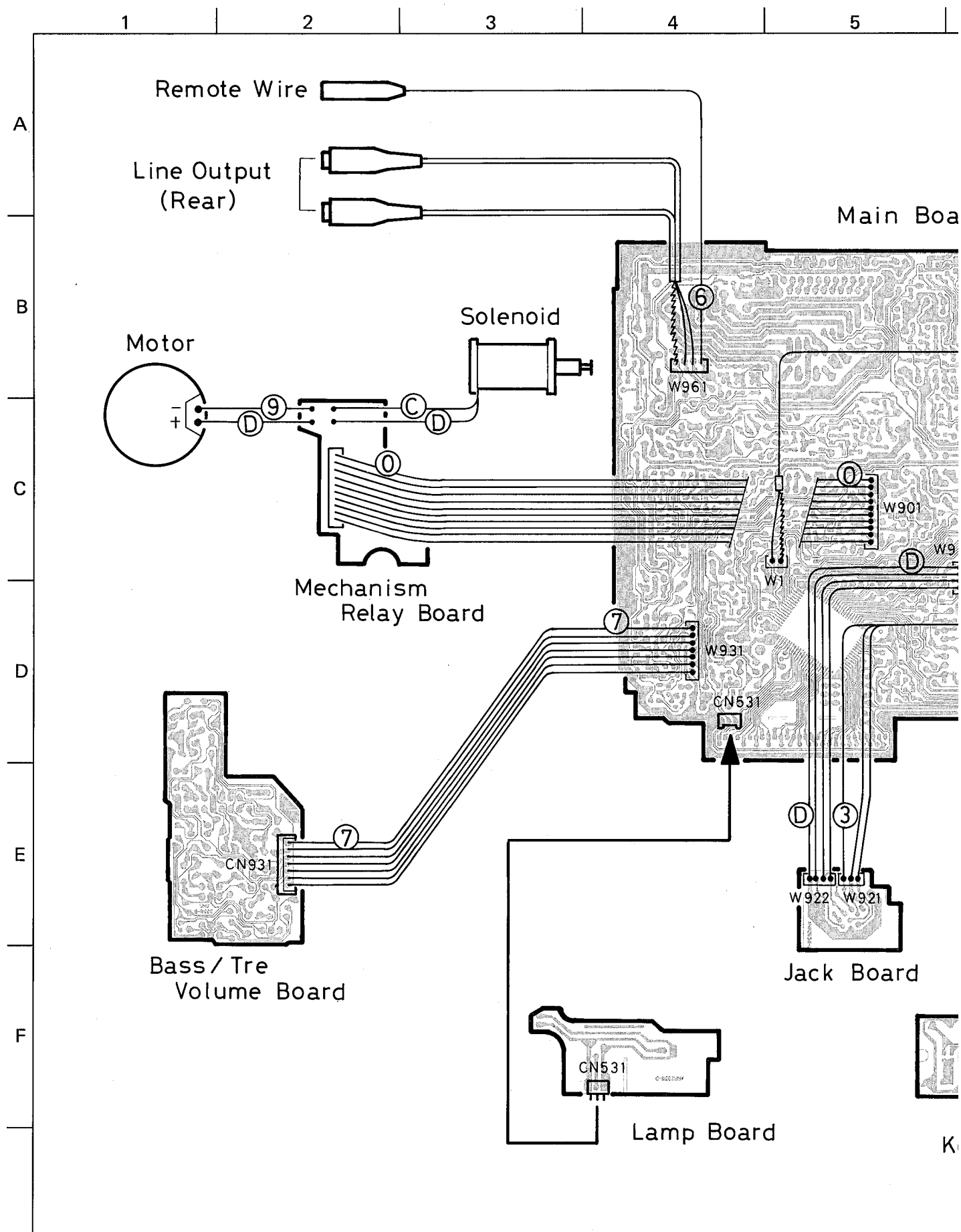
BLOCK NO. M2MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCKSRT60K-NPA	NOSEPIECE ASSY	REF.56,59	1		
	B	ZCKSRT60RK-FB	FRONT PANEL	REF.40,52-54	1		
	1	VYSR103-048	SPACER	LCD	1		
	2	VKL7226-003	EJECT LEVER		1		
	3	SPSK2625Z	MINI SCREW	MECHA+EJ.LEVER	1		
	4	VKM3645-001	MECHA BRACKET F		1		
	5	VKM3594-001	MECHA BRACKET R		1		
	6	SSSP3005Z	SCREW	MECHA BRACKET(F	2		
	7	SSSP3005Z	SCREW	MECHA BRACKET(R	2		
	8	VKM3642-002	FRONT BRACKET		1		
	9	VYSS1R4-040	SPACER	FRONT BKT	1		
	10	VKL2723-001	SIDE BKT(L)		1		
	11	VKL2724-002SS	SIDE BKT(R)		1		
	12	VJC3260-002	REAR PANEL		1		
	13	VKL7276-001	BRACKET	REAR PANEL	1		
	14	SDST2606Z	SCREW	VKL7276+VMA4397	1		
	15	VXP5139-001	RLS KNOB		1		
	16	LPSP2606Z	SCREW	REAR PANEL+VKL7	1		
	17	VKM3352-004	BOTTOM COVER		1		
	18	VMP3249-001	PIN CORD ASS'Y	W961	1		
	19	VMA3216-001	INSULATOR		1		
	20	VKM3398-005	TOP COVER		1		
	21	VMA4397-003	SHEILD PLATE		1		
	22	VYTA500-001	PIN CAP	LINE OUTX2	2		
	23	VKS5439-001	SHAFT KNOB		3		
	24	VKL7274-002	VOLUME HOLDER		1		
	25	SDST2606Z	SCREW	FRONT+SIDE(L,R)	2		
	26	SDST2606Z	SCREW	SIDE(L,R)+REAR	2		
	27	SDST2606Z	SCREW	FRONT BRACKET	2		
	28	SSST2606Z	SCREW	M.BKT+SIDE(L,R)	2		
	29	SDST2606Z	SCREW	MAIN PWB+SIDE B	1		
	32	LPSP2606Z	SCREW	IC BKT+S.BKT(L)	1		
	33	LPSP2606Z	SCREW	REAR BKT+ANT CO	1		
	34	LPSP2606Z	SCREW	CONNECTOR+REAR	1		
	35	SDSF2608Z	SCREW	REAR PANEL+DIN	2		
	37	LPSP2606Z	SCREW	R.PANEL+TOP	2		
	38	LPSP2606Z	ASSY SCREW	R.PANEL+BOTTOM	1		
	39	VMP0029-027	ANT CORD		1		
	40	FSJC2004-002	FRONT CHASSIS		1		
	41	VJK4399-002	LENS		1		
	42	SPSN1755N	MINI SCREW	F.CHASSIS+LENS	1		
	43	VKS5438-001	LOCK LEVER		1		
	44	VKL7267-001	LEVER BRACKET		1		
	45	FSKW4005-002	TORSION SPRING	LOCK LEVER	1		
	47	VKW3001-298	COMP.SPRING		1		
	48	SDSF2006Z	SCREW	F.CHASSIS+L.BKT	3		
	49	VKY4665-00E	LOCK SP ASS'Y		1		
	50	VKL7647-001	PLATE		1		
	51	SDSF2008M	SCREW	F.CHASSIS+L.SPR	1		
	52	VJC4145-002SS	CASSETTE LID		1		
	53	VJC4146-024	LID PLATE		1		
	54	VKW4947-003	DOOR SPRING		1		
	55	SPSN1755N	MINI SCREW	F.CHASSIS+C.PWB	4		
	56	FSJC1010-007	FRONT PANEL		1		
	57	VJK2195-004	LIGHT LENS		1		

BLOCK NO. M2MM

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	58	VJK2182-001	KNOB LENS		1		
	59	VJK3642-001	FINDER LENS		1		
		VJK3642-002	FINDER LENS		1	G,GE	
	60	VXP2066-002	PRESET BUTTON	1/2/3/4/5/6	1		
	61	VXP3571-003	DOWN BUTTON	LIGHTGOLD(93-25	1		
	62	VXP3572-003	UP BUTTON	LIGHTGOLD(93-25	1		
	63	VXP3577-005	PUSH BUTTON	MODE/A HBS	1		
	64	VXP3652-001	PUSH BUTTON	FUNC/B CLK	1		
	65	FSXP3007-003	DETACH BUTTON		1		
	66	VKW3001-302	COMP. SPRING	DETACH BUTTON	1		
	67	FSXP3009-001	FF BUTTON		1		
		FSXP3011-00A	BUTTON ASS'Y		1		
	68	FSXP3010-001	REW BUTTON		1		
	69	FSXP3008-001	EJECT BUTTON		1		
	70	VKW3001-304	COMP. SPRING	FF BUTTON	1		
	71	VKW3001-304	COMP. SPRING	REW BUTTON	1		
	72	VKW3001-304	COMP. SPRING	EJECT BUTTON	1		
	73	VXL4428-001	VOL KNOB		1		
	74	VKS5445-001	VOL KNOB(R)		1		
	75	VXL4429-001	TONE KNOB		2		
	76	VKW5071-001	SPRING	TONE KNOB	3		
	77	SPSN1755N	MINI SCREW	VOL.KNOB(F)+(R)	1		
	78	FSJC1012-002	REAR COVER		1		
	79	SPSN1755N	MINI SCREW	FRONT+REAR	7		
	80	VYN3496-S012SA	NAME PLATE		1	G,GE	
		VYN3496-S001SA	NAME PLATE		1	B,E	
		VYN3496-S003SA	NAME PLATE		1	GI	
	81	VND4391-001	CAUTION LABEL		1		
	84	VKL7687-001	IC BRACKET		1		
	92	VYTT590-010	SEAL		1		
	93	VYTT590-014	SEAL		1		
	94	VYTA510-001	MINI DIN CAP	8PIN DIN JACK	1		
	96	VYTT590-012	SEAL	B/CLK BUTTON	1		

8. Wiring Connections



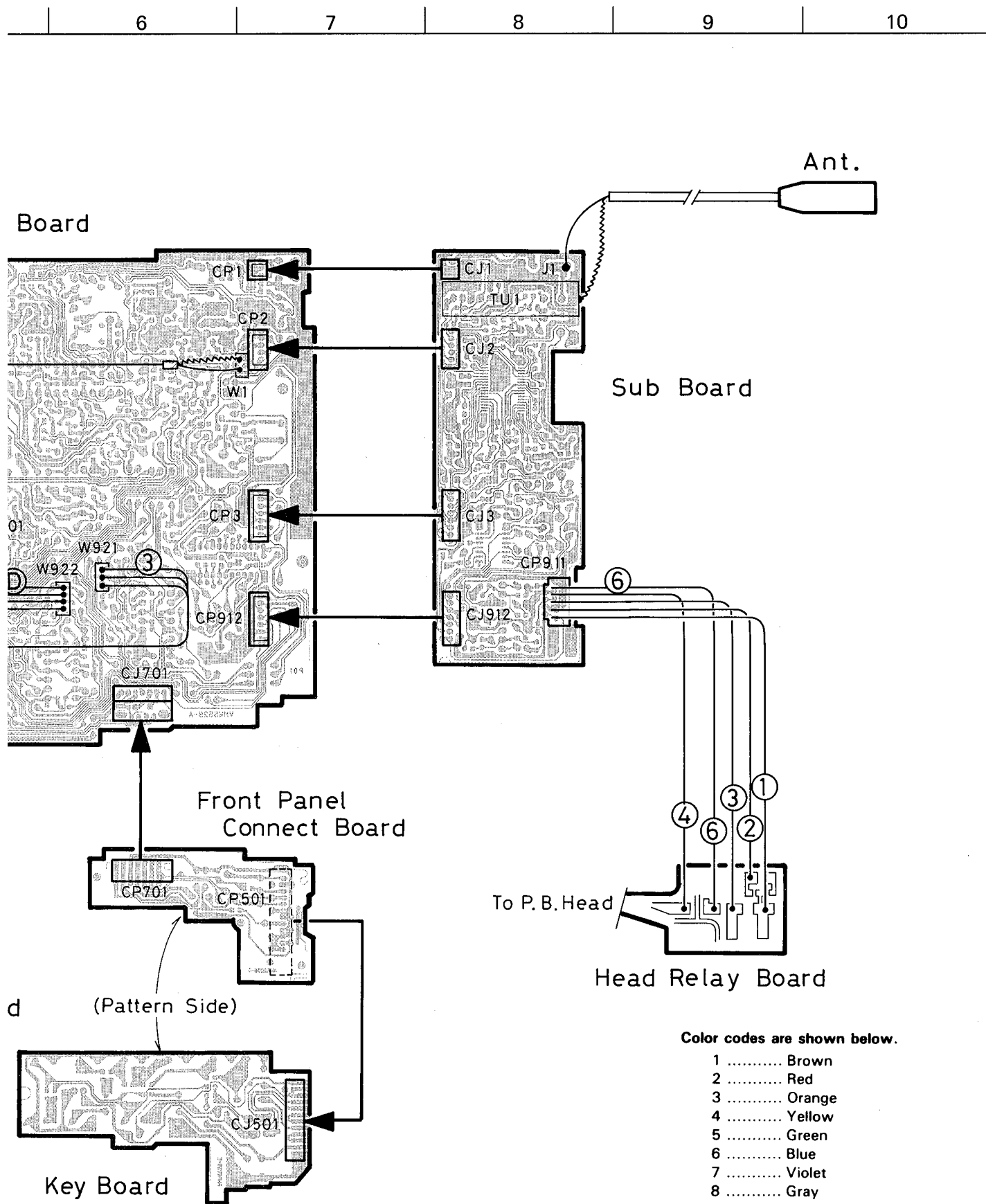
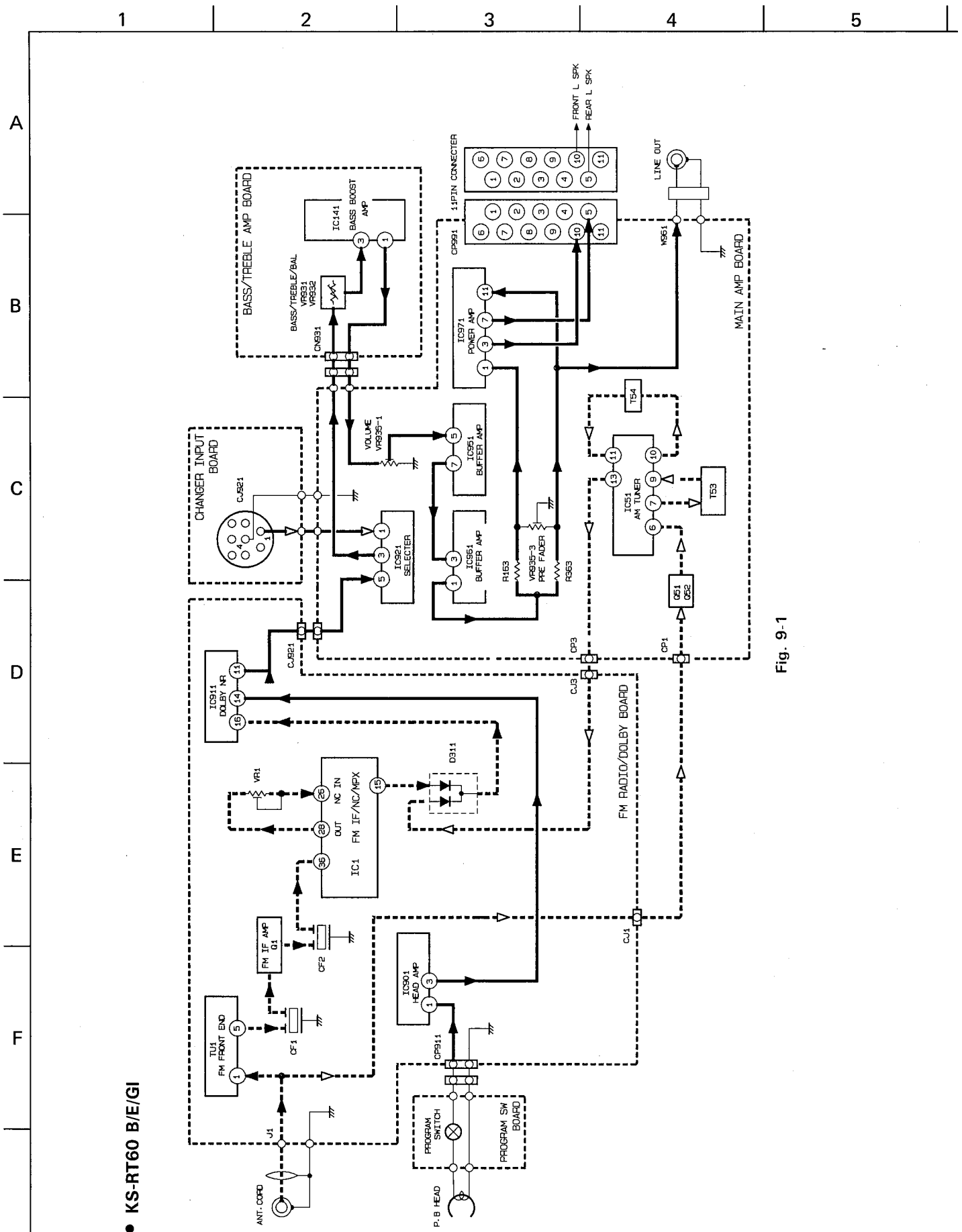


Fig. 8-1

9. Block Diagram



6

7

8

9

10

• KS-RET60 G/GE

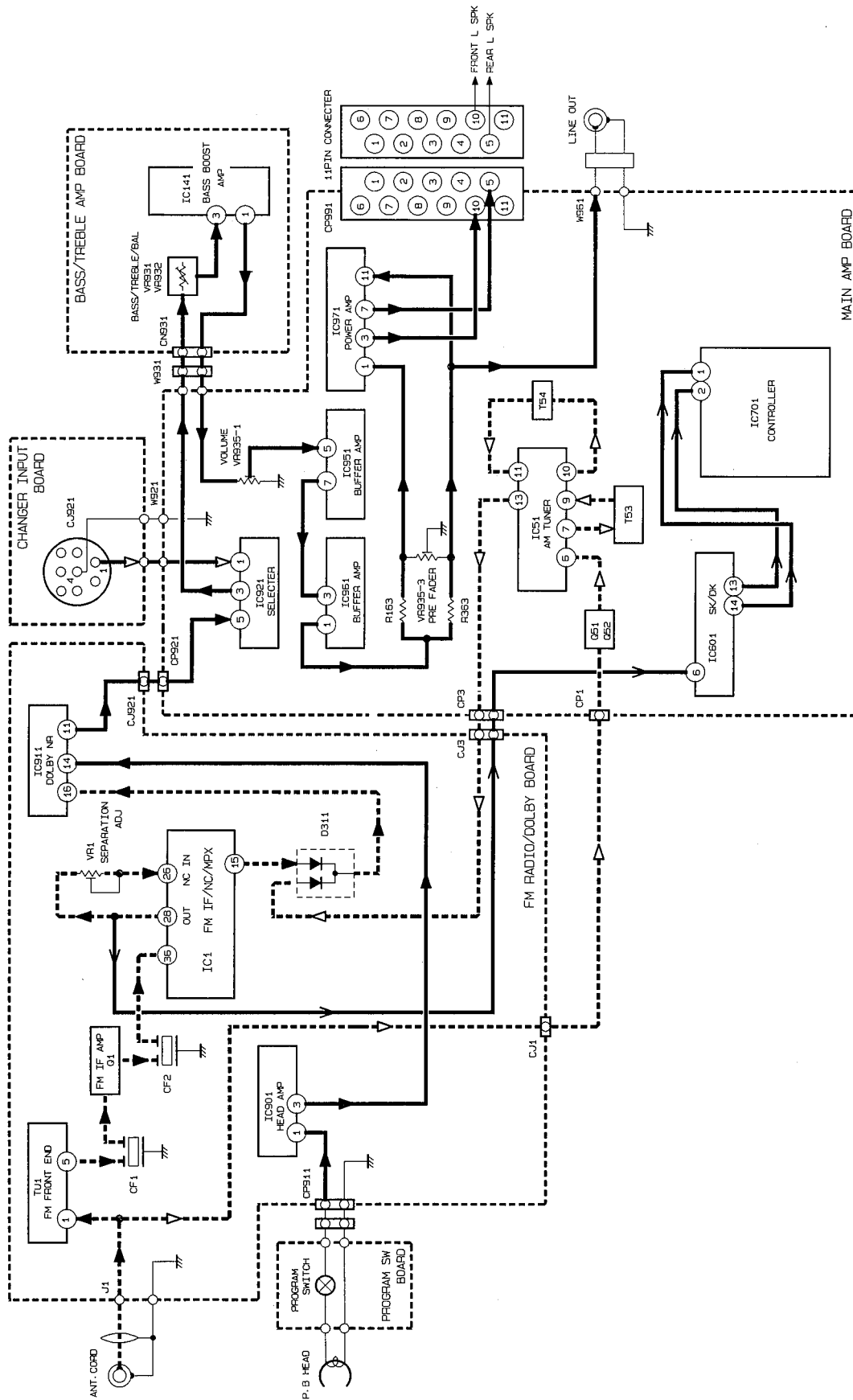


Fig. 9-2

Main IC Block Diagram

● IC701 (CONTROLLER) : μ PD17003AGF - 652

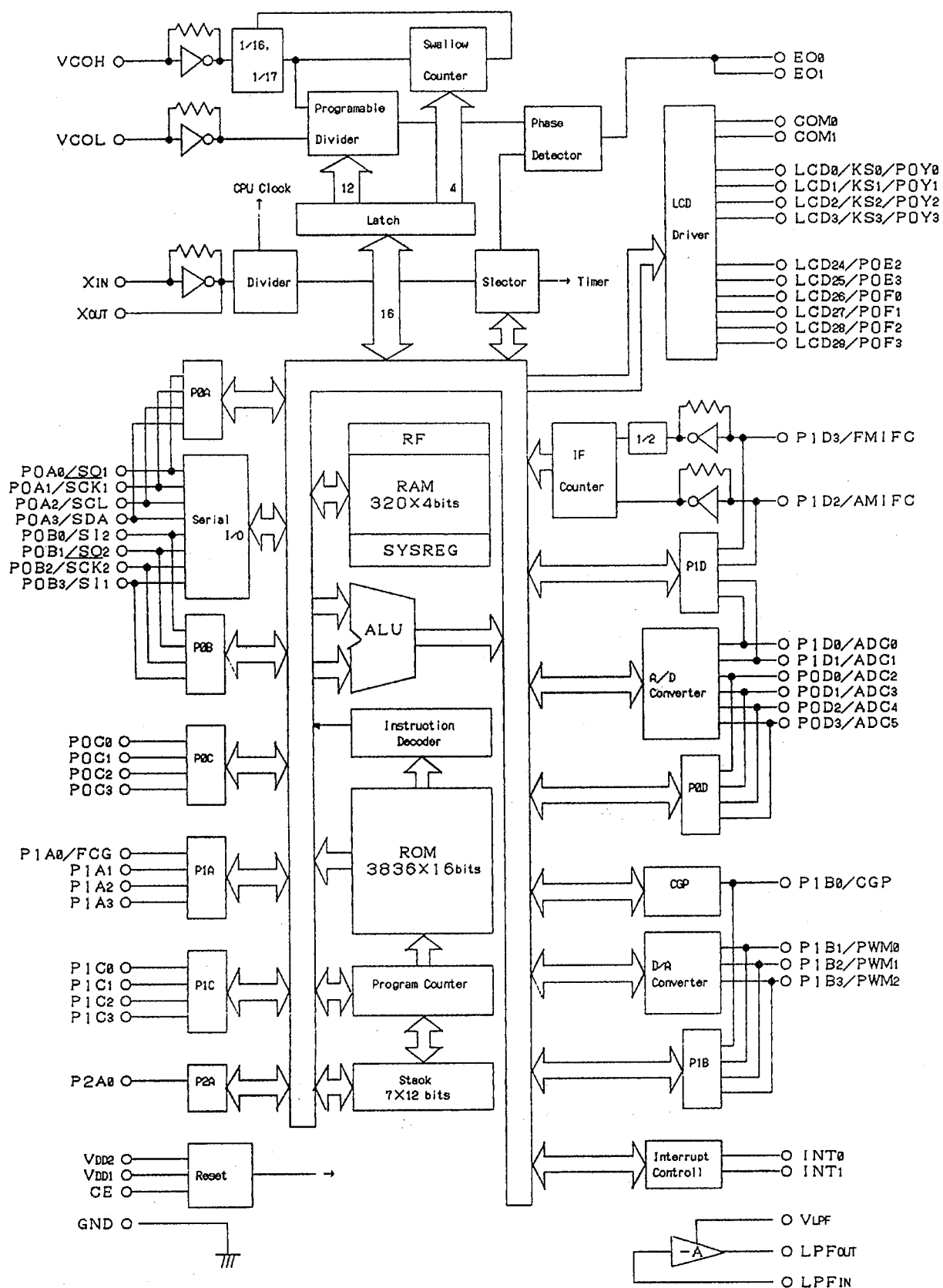


Fig. 9-3

● IC701(μ PD17003AGF – 652): Terminal connections

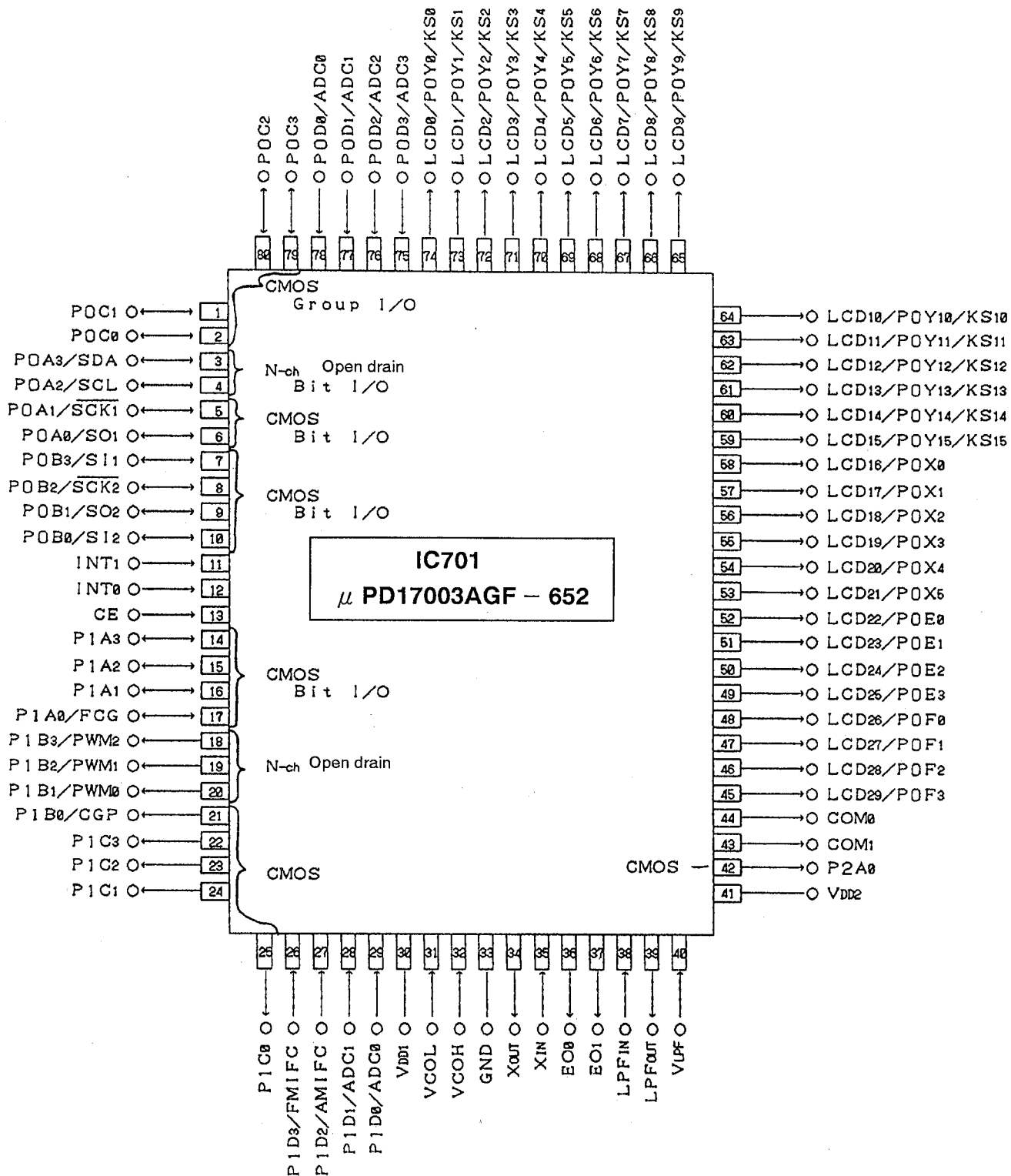
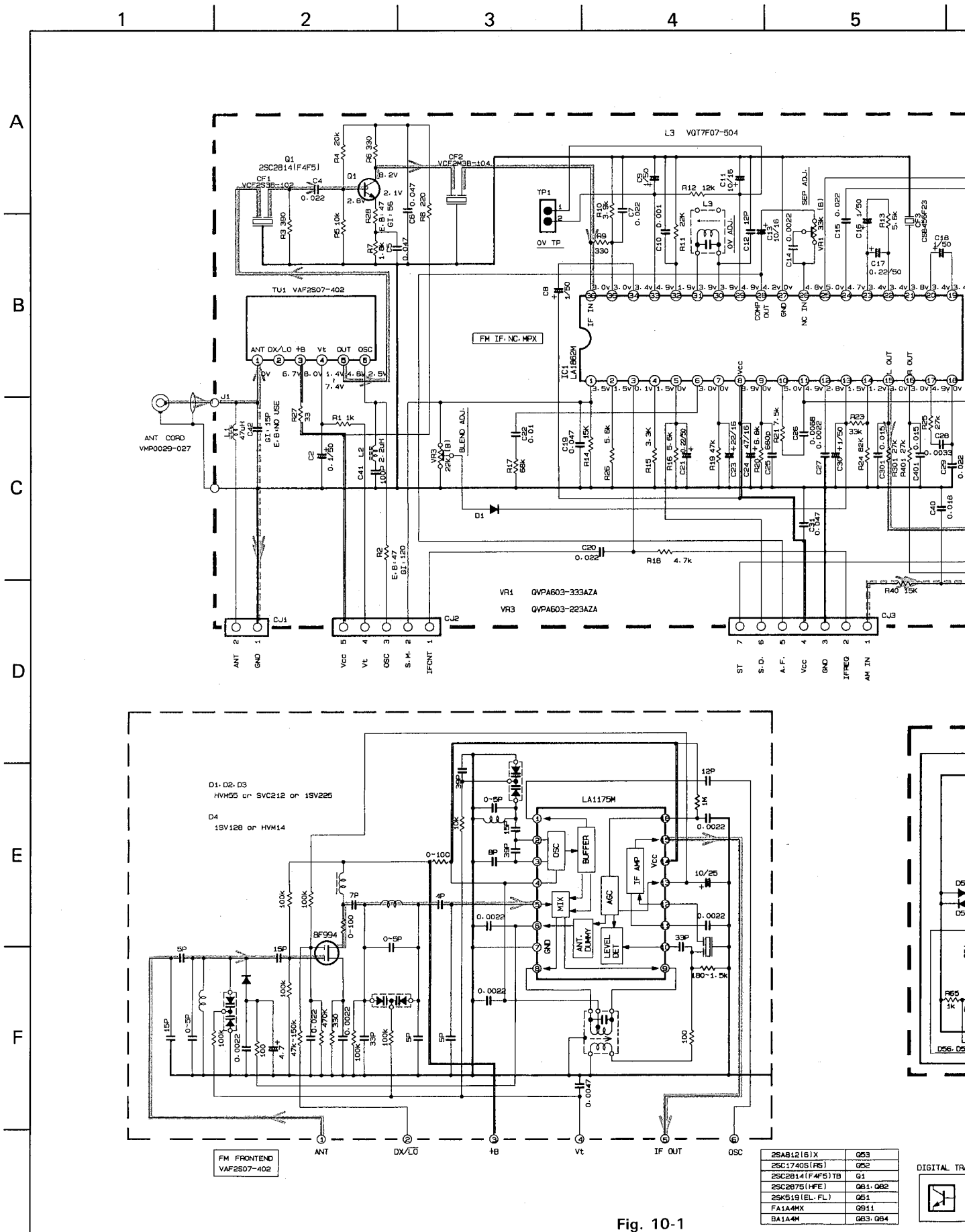
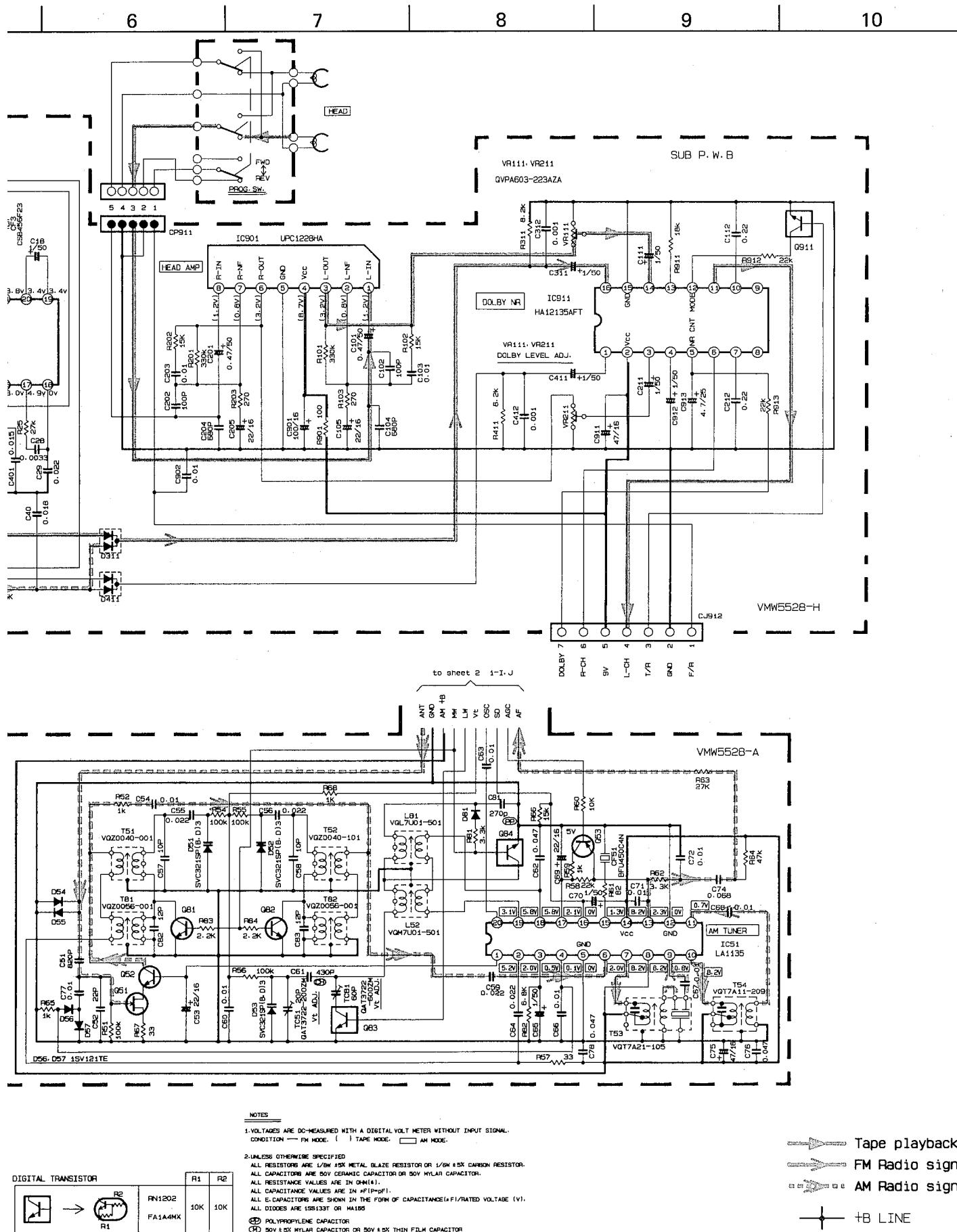


Fig. 9-4

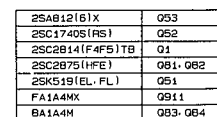
10. Standard Schematic Diagram ■ Tuner/Pre-amplifier Circuit: Drawing No. VDH3496-003TV



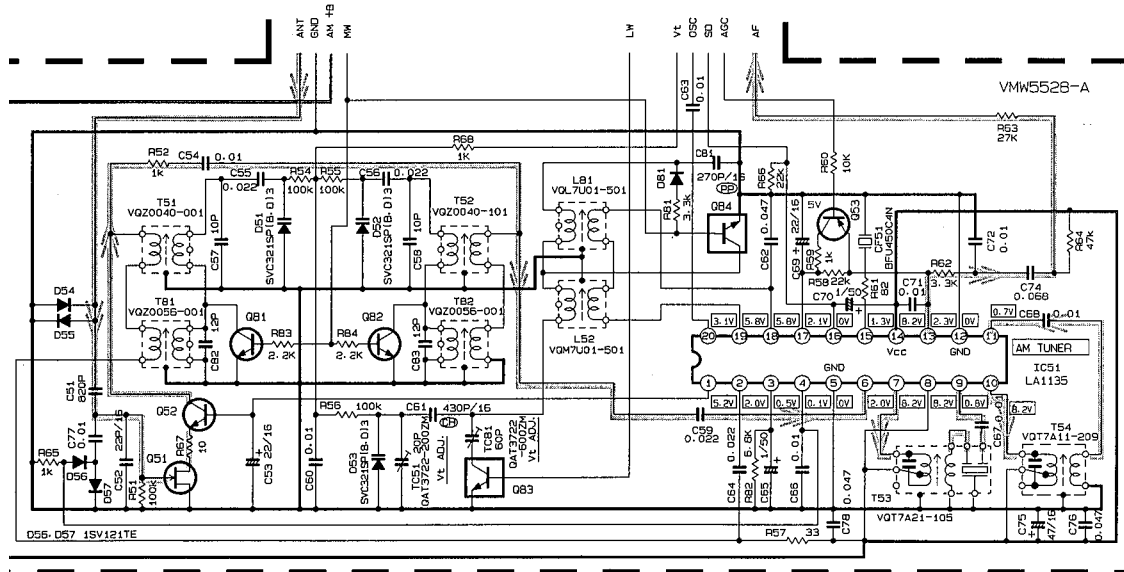
03TV (KS-RT60 B/E/GI)



F

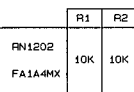


(No. 49206) 32



(M) 50V $\pm$ 5% MYLAR CAPACITOR OR 50V $\pm$ 5% THIN FILM CAPACITOR

 +B LINE



■ Changer Control/LCD Controller Circuit: Drawing No. VDH3496-003CV (KS-RT60 G/GE)

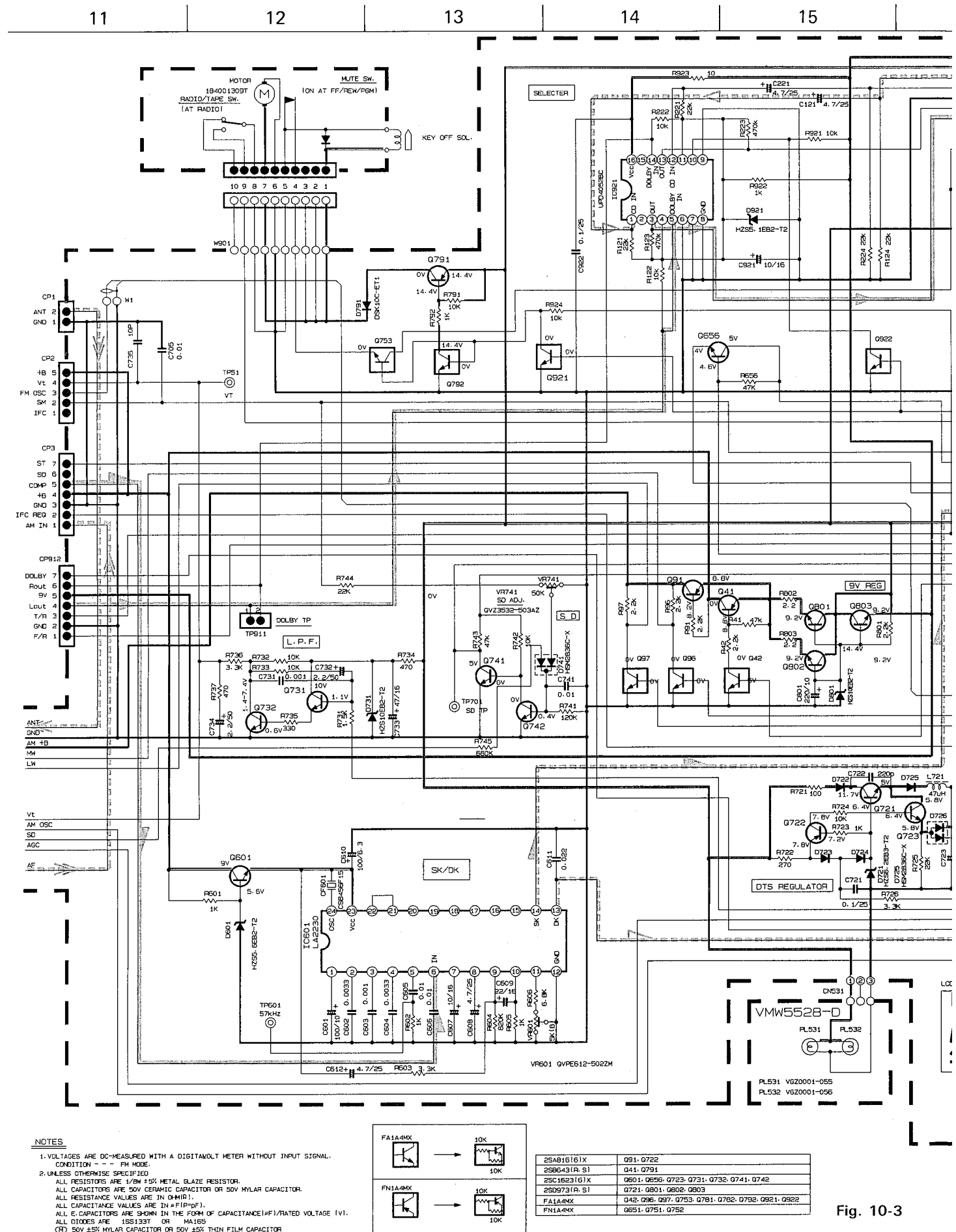
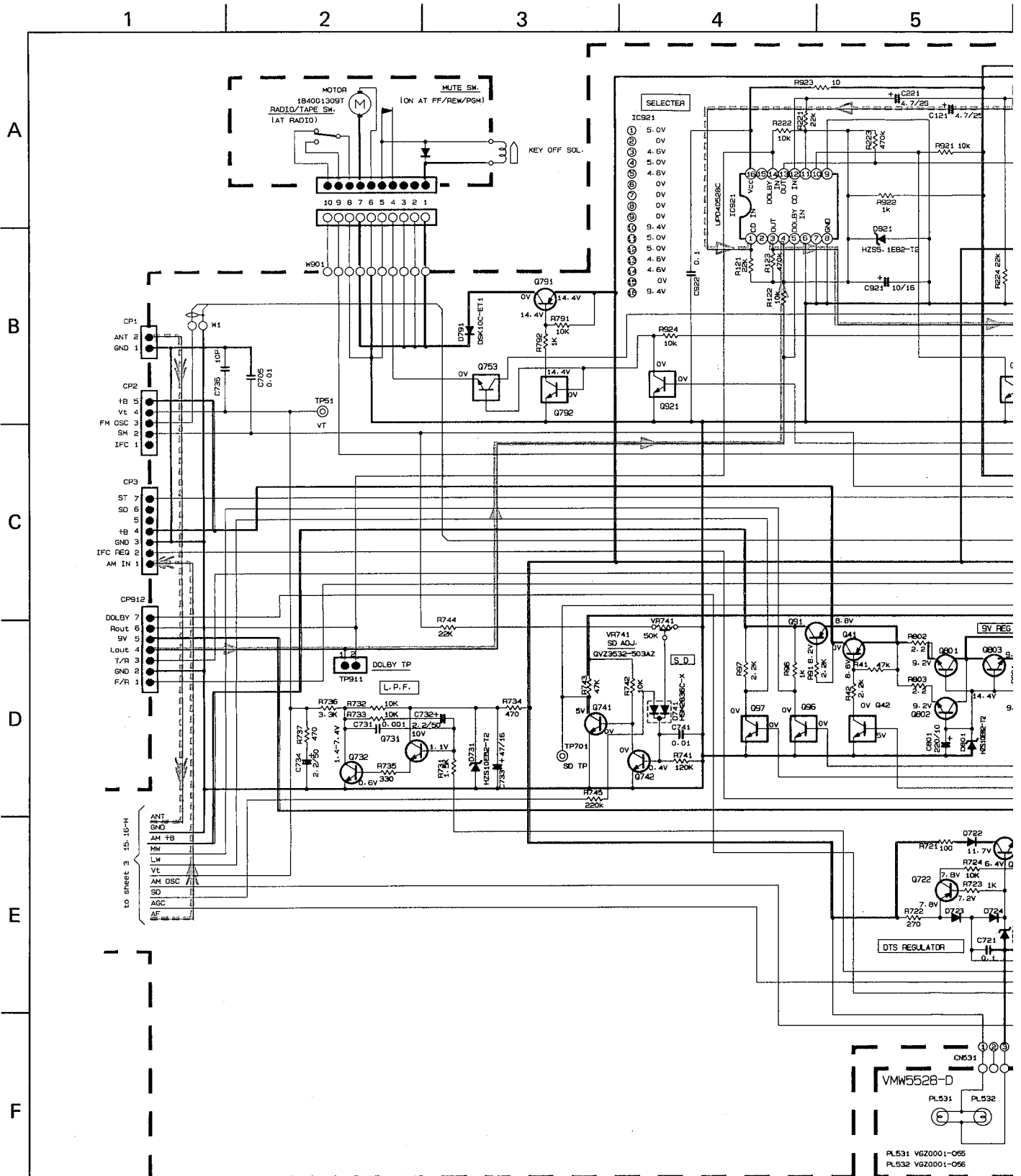


Fig. 10-3



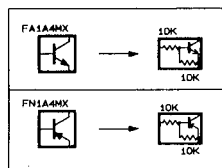
 +B LINE

■ Changer Control/LCD Controller Circuit: Drawing No. VDH3496-002CV (KS-RT60 B/E/GI)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAVOLT METER WITHOUT INPUT SIGNAL. CONDITION --- FM MODE.
2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(S).
ALL CAPACITANCE VALUES ARE IN PICO(F).
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(F)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133T OR 1N4165
(C) 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR



2SAB16(E)X	091: 0722
2SB643(R, S)	041: 0701
2SC1623(E)X	0556: 0723, 0731, 0732, 0741, 0742
2SD073(R, S)	0721, 0901, 0902, 0903
FA1A4MX	042, 096, 097, 0753, 0781, 0782, 0792, 0921, 0922
FN1A4MX	0651, 0751, 0752

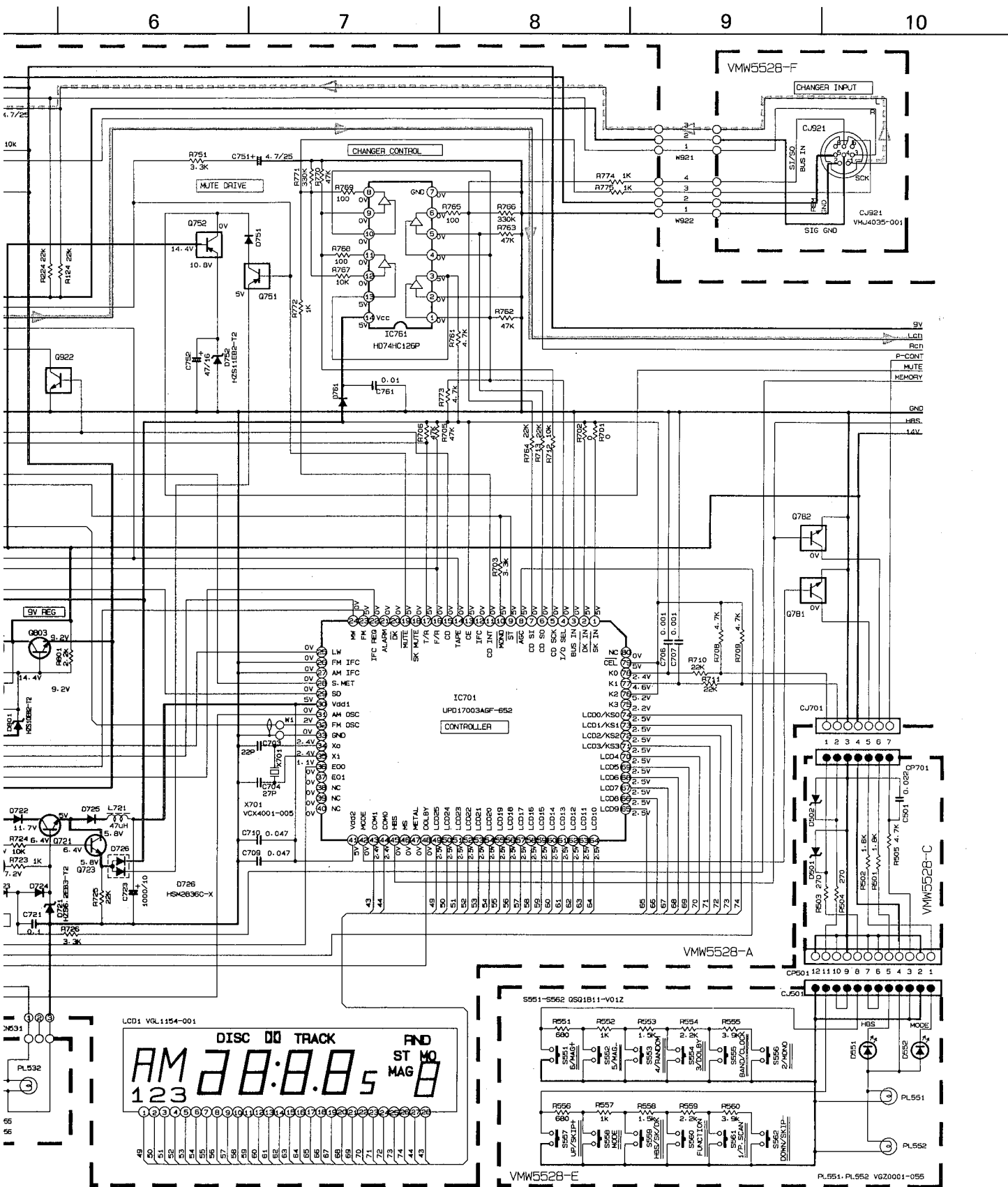
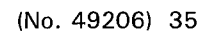


Fig. 10-4

15

2SC1623(6)X	Q156, Q256, Q157, Q257, Q161, Q261, Q361, Q461 Q958, Q959, Q992
2SK301(P, Q)TA	Q141, Q241
FA1A4MX	Q957
FN1A4MX	Q956, Q991



(No. 49206) 36

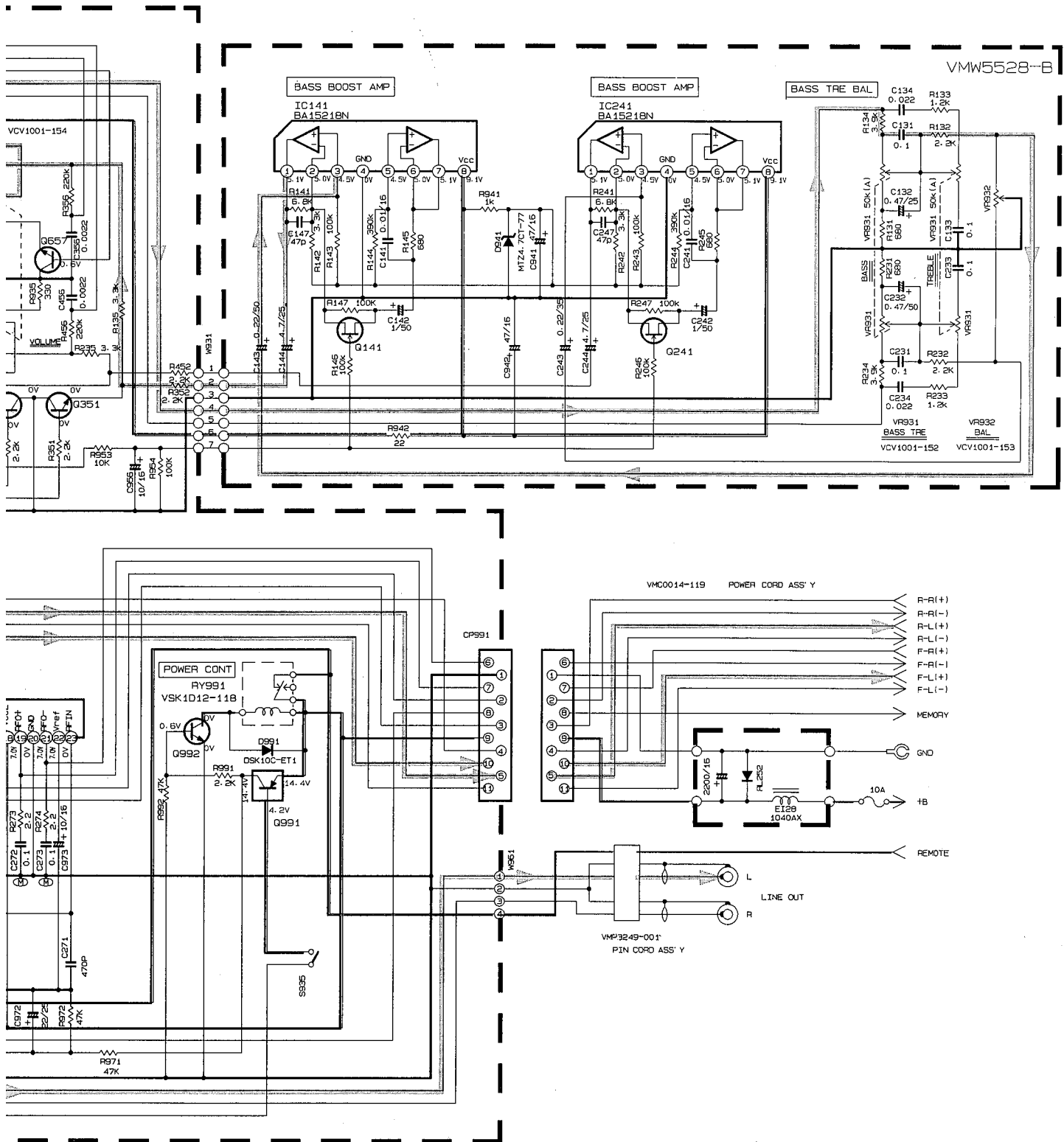
6

7

8

9

10



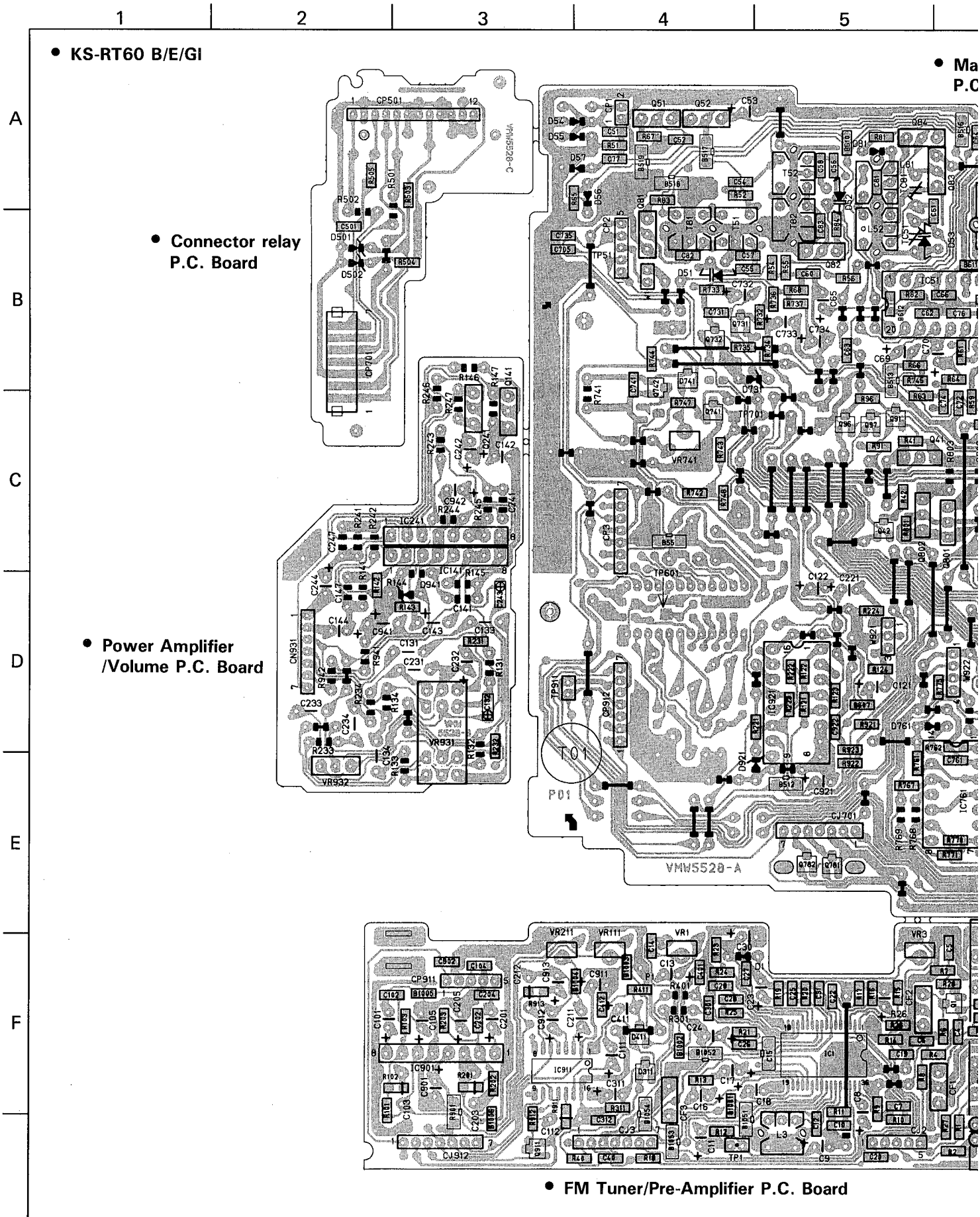
57: Q257, Q161, Q261, Q361, Q461
58: Q959, Q992

Fig. 10-6

Tape playback signal

+B LINE

11. Location of P.C. Board Parts



1

2

3

4

5

• KS-RT60 G/GE

• M
P.

• Connector relay
P.C. Board

• Power Amplifier
/Volume P.C. Board

• FM Tuner/Pre-Amplifier P.C. Board

6

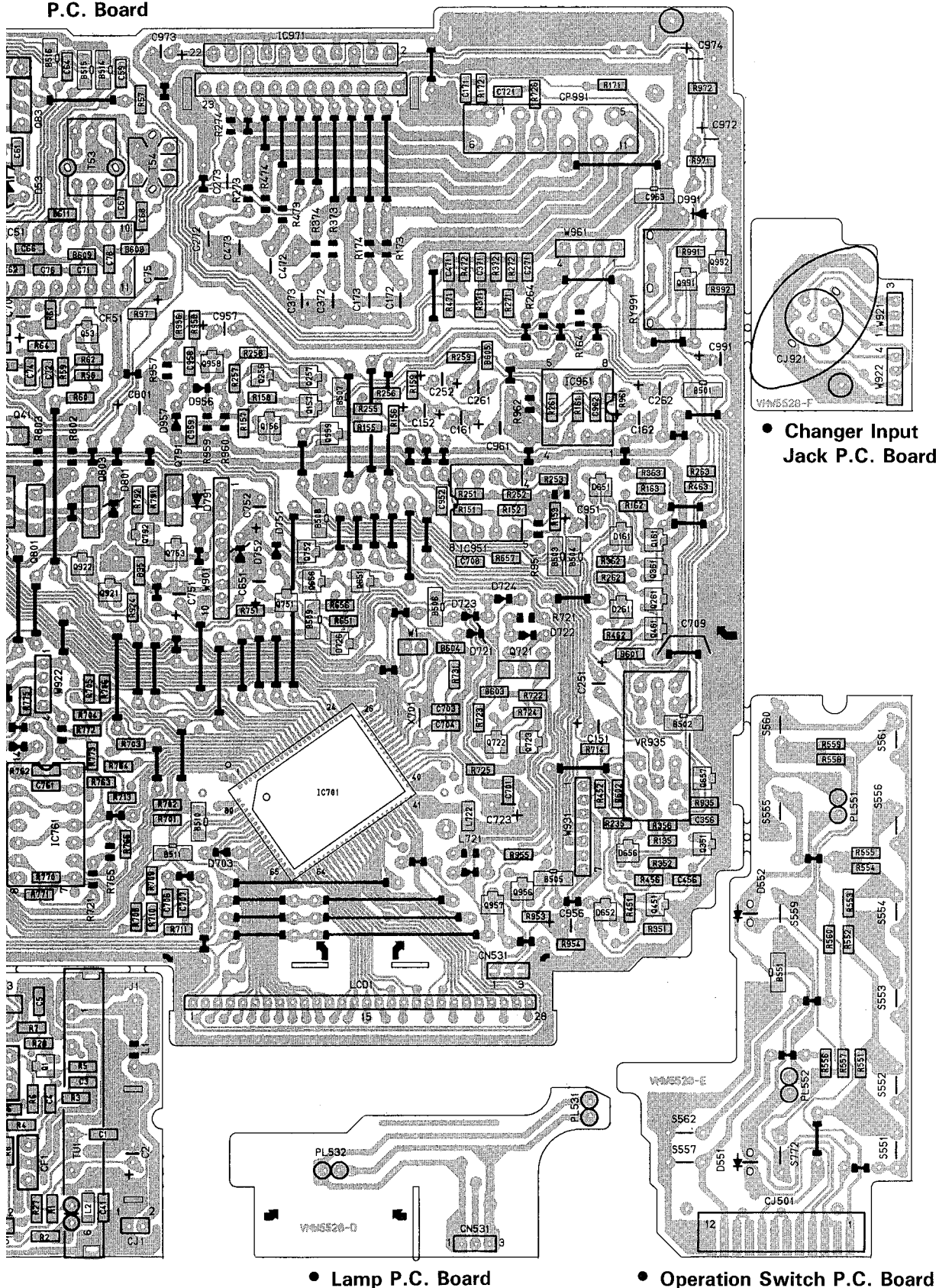
7

8

9

10

- Main Amplifier
P.C. Board



- Changer Input
Jack P.C. Board

- Lamp P.C. Board

- Operation Switch P.C. Board

Fig. 11-2

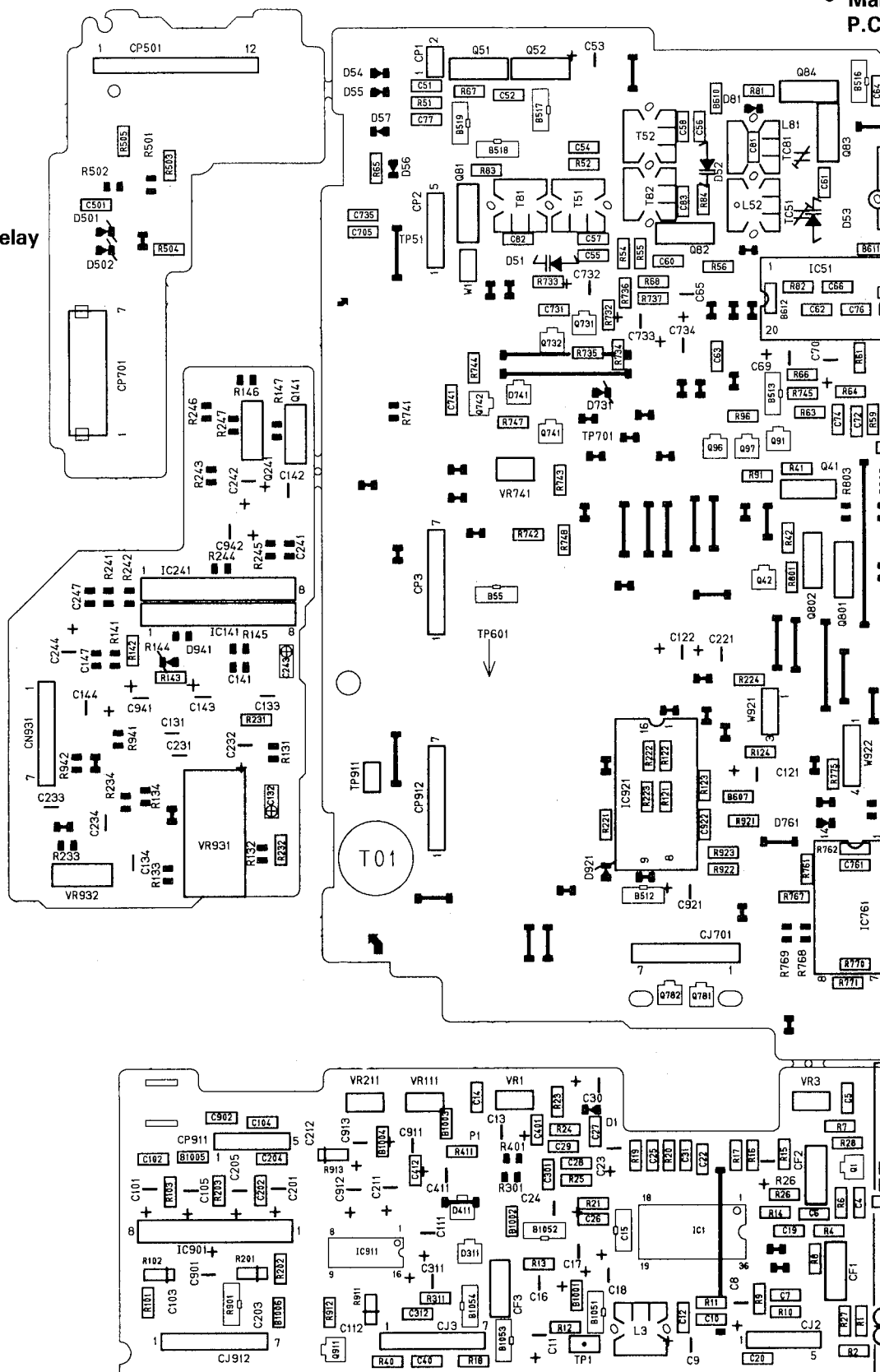
12. Electrical Parts List

■ Main P.C. Board Parts

● Connector relay P.C. Board

● Power Amplifier /Volume P.C. Board

● Mai P.C



● FM Tuner/Pre-Amplifier P.C. Board

● Main P.C. Board (KS-RT60 B/E/GI)

BLOCK NO. 01				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 2	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 4	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 5	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 6	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 7	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 8	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 9	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 10	NCB21HK-102AY	C CAPACITOR	100PF 10% 50V	
C 11	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C 12	NCT21CH-120AY	C CAPACITOR	12PF +50:-10% 1	
C 13	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C 14	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 15	QCY81HK-223Y	C.CAPACITOR	.022MF 10% 50V	
C 16	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 17	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
C 18	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 19	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 20	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 21	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
C 22	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 23	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 24	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C 25	NCB21HJ-681AY	C CAPACITOR	680PF 5% 50V	
C 26	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 27	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 28	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
C 29	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 30	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 31	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 40	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C 41	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
C 51	NCB21HJ-821AY	C CAPACITOR	820PF 5% 50V	
C 52	NCT21CH-220AY	C CAPACITOR	22PF +50:-10% 1	
C 53	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 54	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 55	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 56	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 57	NCB21HJ-100AY	C CAPACITOR	10PF 50V	
C 58	NCB21HJ-100AY	C CAPACITOR	10PF 50V	
C 59	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 60	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 61	NCT21CH-431AY	C CAPACITOR	430PF +50:-10%	
C 62	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 63	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 64	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C 65	QEK41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C 66	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 67	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 68	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 69	QEK41CM-226VM	E.CAPACITOR	22MF 20% 16V	
C 70	QEK41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C 71	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 72	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 74	NCB21HK-683AY	C CAPACITOR	.068MF 10% 25V	
C 75	QEK41CM-476M	E.CAPACITOR	47MF 20% 16V	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 76	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 77	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 78	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 81	NCT21CH-271AY	C CAPACITOR	270PF +50:-10%	
C 82	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V	
C 83	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V	
C 101	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 102	NCB21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C 103	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
C 104	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C 105	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 111	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 112	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 121	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 122	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 131	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 132	NEF11EM-474RY	TS.E.CAPACITOR	.47MF 20% 25V	
C 133	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 134	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C 141	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 142	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 143	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
C 144	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 147	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C 151	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 152	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C 161	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C 162	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C 171	NCT21CH-471AY	C CAPACITOR	470PF +50:-10%	
C 172	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C 173	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C 201	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 202	NCB21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C 203	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
C 204	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C 205	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 211	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 212	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 221	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 222	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 231	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 232	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 233	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 234	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C 241	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 242	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 243	NEF11EM-224RY	TS.E.CAPACITOR	.22MF 20% 35V	
C 244	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 247	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C 251	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 252	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C 261	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C 262	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C 271	NCT21CH-471AY	C CAPACITOR	470PF +50:-10%	
C 272	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 273	QEV41HJ-104	FILM CAPACITOR	.10MF 5% 50V		
C 301	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V		
C 311	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V		
C 312	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C 371	NCB21CH-471AY	C CAPACITOR	470PF +50%-10%		
C 372	QEV41HJ-104	FILM CAPACITOR	.10MF 5% 50V		
C 373	QEV41HJ-104	FILM CAPACITOR	.10MF 5% 50V		
C 401	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V		
C 411	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V		
C 412	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C 471	NCB21CH-471AY	C CAPACITOR	470PF +50%-10%		
C 472	QEV41HJ-104	FILM CAPACITOR	.10MF 5% 50V		
C 473	QEV41HJ-104	FILM CAPACITOR	.10MF 5% 50V		
C 501	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V		
C 703	NCB21CH-220AY	C CAPACITOR	22PF +50%-10% 1		
C 704	NCB21CH-270AY	C CAPACITOR	27PF +50%-10% 1		
C 705	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 706	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C 707	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C 708	NCB21HK-104	C CAPACITOR	.10MF 10% 25V		
C 709	NCB21HK-104	C CAPACITOR	.10MF 10% 25V		
C 710	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		
C 721	NCB21HK-104	C CAPACITOR	.10MF 10% 25V		
C 723	QETC1AM-108ZN	E-CAPACITOR	1000MF 20% 10V		
C 731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C 732	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		
C 733	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C 734	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		
C 735	NCB21HJ-100AY	C CAPACITOR	10PF 50V		
C 741	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 751	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V		
C 752	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C 761	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 801	QERF1AM-227ZM	E-CAPACITOR	220MF 20% 10V		
C 901	QEKF1CM-107ZN	E-CAPACITOR	100MF 20% 16V		
C 902	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 911	QEK41CM-476	E-CAPACITOR	47MF 20% 16V		
C 912	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V		
C 913	QEK41EM-475	E-CAPACITOR	4.7MF 20% 25V		
C 921	QER41CM-106	E-CAPACITOR	10MF 20% 16V		
C 922	NCB21HK-104	C CAPACITOR	.10MF 10% 25V		
C 941	QEK41CM-476	E-CAPACITOR	47MF 20% 16V		
C 942	QEK41CM-476	E-CAPACITOR	47MF 20% 16V		
C 951	QERFQJM-476ZN	E-CAPACITOR	47MF 20% 6.3V		
C 952	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 956	QEK41CM-106	E-CAPACITOR	10MF 20% 16V		
C 957	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		
C 958	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V		
C 959	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V		
C 961	QERFQJM-476ZN	E-CAPACITOR	47MF 20% 6.3V		
C 962	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C 963	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 972	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V		
C 973	QEK41CM-106	E-CAPACITOR	10MF 20% 16V		
C 974	QETC1CM-477ZN	E-CAPACITOR	470MF 20% 16V		

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 992	NCB21HK-104	C CAPACITOR	.10MF 10% 25V		
CF 1	VCF2S3B-104Z	C FILTER			
CF 2	VCF2M3B-103	CERAMIC FILTER			
CF 3	CSB456F23	CERA LOCK			
CF 51	BFU450C4N	CERAMIC FILTER			
CJ 1	VMCO136-002	CONNECTOR			
CJ 2	VMCO136-005	CONNECTOR			
CJ 3	VMCO136-007	CONNECTOR			
CJ501	VMCO259-002	CONNECTOR			
CJ701	VMCO232-507	CONNECTOR			
CJ912	VMCO136-007	CONNECTOR			
CJ921	VMJ4035-001	MINI DIN JACK			
CN531	VMCO198-003	CONNECTOR			
CN931	TXLP-007-B	CONNECTOR			
CP 1	VMCO135-002	CONNECTOR			
CP 2	VMCO135-005	CONNECTOR			
CP 3	VMCO135-007	CONNECTOR			
CP501	VMCO278-002	CONNECTOR			
CP701	VMCO232-607	CONNECTOR			
CP911	TXLL-005-M	CONNECTOR			
CP912	VMCO135-007	CONNECTOR			
CP991	VGZ0007-030	FEED THROUGH			
D 1	MA165	SI DIODE			
D 51	SVC321SP	VARI CAP			
D 52	SVC321SP	VARI CAP			
D 53	SVC321SP	VARI CAP			
D 54	MA165	SI DIODE			
D 55	MA165	SI DIODE			
D 56	1SV121	SI DIODE			
D 57	1SV121	SI DIODE			
D 81	MA165	SI DIODE			
D 161	HSM2836C	DIODE			
D 261	HSM2836C	DIODE			
D 311	HSM2838C	DIODE			
D 411	HSM2838C	DIODE			
D 501	HZS5.6EB2	ZENER DIODE			
D 502	HZS5.6EB2	ZENER DIODE			
D 551	SLR-342VCA49	LED I/M			
D 552	SLR-342VCA49	LED I/M			
D 651	HSM2838C	DIODE			
D 652	HSM2836C	DIODE			
D 721	HZS6.2EB3	ZENER DIODE			
D 722	MA165	SI DIODE			
D 723	MA165	SI DIODE			
D 724	MA165	SI DIODE			
D 725	MA165	SI DIODE			
D 726	HSM2836C	DIODE			
D 731	HZS10EB2	ZENER DIODE			
D 741	HSM2838C	DIODE			
D 751	MA165	SI DIODE			
D 752	HZS11EB2	ZENER DIODE			
D 761	MA165	SI DIODE			
D 791	DSK10C-E	DIODE			
D 801	HZS10EB2	ZENER DIODE			
D 921	HZS5.1EB2	ZENER DIODE			

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D 941	MT24-7C	ZENER DIODE		
D 956	MA700	ZENER DIODE		
D 957	MA700	ZENER DIODE		
D 991	DSK10C-E	DIODE		
IC 1	LA1862M	IC		
IC 51	LA1135	IC		
IC141	BA15218N	IC		
IC241	BA15218N	IC		
IC701	UPD17003AGF-652	IC		
IC761	HD74HC126P	IC		
IC901	UPC1228HA	IC		
IC911	HA12135AFT	IC		
IC921	UPD4052BC	IC		
IC951	VC4580D	IC		
IC961	VC4580D	IC		
IC971	HA13152	IC		
J 1	VMZ0015-014	POST PIN		
L 1	VQP0018-470	INDUCTOR		
L 2	VQP1002-2R2Y	INDUCTOR		
L 3	VQ17F07-504	IFT	FM OV ADJ.	
L 4	VQP1003-R22Y	INDUCTOR		
L 52	VQM7U01-501	OSC COIL(MW)		
L 81	VQL7U01-501	OSC COIL(LW)		
L 721	VQP0018-470	INDUCTOR		
LCD 1	VGL1154-001	LCD		
PL531	VG70001-056	LAMP		
PL532	VG70001-056	LAMP		
PL551	VG70001-055	LAMP		
PL552	VG70001-055	LAMP		
Q 1	2SC2814(F4F5)HL	TRANSISTOR		
Q 41	2SB643	TRANSISTOR		
Q 42	FA1A4M	TRANSISTOR		
Q 51	2SK519(EL,FL)	TRANSISTOR(FET)		
Q 52	2SC1740S(R,S)	TRANSISTOR		
Q 53	2SA812(6)	TRANSISTOR		
Q 81	2SC2785	TRANSISTOR		
Q 82	2SC2785	TRANSISTOR		
Q 83	BA1A4M	TRANSISTOR		
Q 84	BA1A4M	TRANSISTOR		
Q 91	2SA812(6)	TRANSISTOR		
Q 96	FA1A4M	TRANSISTOR		
Q 97	FA1A4M	TRANSISTOR		
Q 141	2SK301(P,Q)	TRANSISTOR(FET)		
Q 156	2SC1623(6)	TRANSISTOR		
Q 157	2SC1623(6)	TRANSISTOR		
Q 161	2SC1623(6)	TRANSISTOR		
Q 241	2SK301(P,Q)	TRANSISTOR(FET)		
Q 256	2SC1623(6)	TRANSISTOR		
Q 257	2SC1623(6)	TRANSISTOR		
Q 261	2SC1623(6)	TRANSISTOR		
Q 351	2SC1623(6)	TRANSISTOR		
Q 361	2SC1623(6)	TRANSISTOR		
Q 451	2SC1623(6)	TRANSISTOR		
Q 461	2SC1623(6)	TRANSISTOR		
Q 721	2SD973	TRANSISTOR		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 722	2SA812(6)	TRANSISTOR		
Q 723	2SC1623(6)	TRANSISTOR		
Q 731	2SC1623(6)	TRANSISTOR		
Q 732	2SC1623(6)	TRANSISTOR		
Q 741	2SC1623(6)	TRANSISTOR		
Q 742	2SC1623(6)	TRANSISTOR		
Q 751	FN1A4MX	TRANSISTOR		
Q 752	FN1A4MX	TRANSISTOR		
Q 753	FA1A4M	TRANSISTOR		
Q 781	FA1A4M	TRANSISTOR		
Q 782	FA1A4M	TRANSISTOR		
Q 791	2SB643	TRANSISTOR		
Q 792	FA1A4M	TRANSISTOR		
Q 801	2SD973	TRANSISTOR		
Q 802	2SD973	TRANSISTOR		
Q 803	2SD973	TRANSISTOR		
Q 911	FA1A4M	TRANSISTOR		
Q 921	FA1A4M	TRANSISTOR		
Q 922	FA1A4M	TRANSISTOR		
Q 956	FN1A4MX	TRANSISTOR		
Q 957	FA1A4M	TRANSISTOR		
Q 958	2SC1623(6)	TRANSISTOR		
Q 959	2SC1623(6)	TRANSISTOR		
Q 991	FN1A4MX	TRANSISTOR		
Q 992	2SC1623(6)	TRANSISTOR		
R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 2	NRSA02J-470NY	MG RESISTOR	47 5% 1/10W	
R 3	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
R 4	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
R 5	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 6	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 7	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 8	NRSA02J-221NY	MG RESISTOR	220 5% 1/10W	
R 9	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 10	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 11	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 12	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 13	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 14	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 15	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 16	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 17	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R 18	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 19	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 20	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 21	NRSA02J-752NY	MG RESISTOR	7.5K 5% 1/10W	
R 23	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 24	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R 25	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R 26	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 27	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R 28	NRSA02J-470NY	MG RESISTOR	47 5% 1/10W	
R 40	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 41	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 42	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	51	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	52	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	54	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	55	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	57	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	56	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R	58	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	59	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	60	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R	61	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
R	62	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	63	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R	64	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	65	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	66	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	67	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R	68	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	69	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R	81	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	82	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R	83	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	84	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	91	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	96	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	97	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	101	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R	102	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	103	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	121	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	122	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R	123	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R	124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	131	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	132	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	133	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	134	QRD161J-392	CARBON RESISTOR	390K 5% 1/6W	
R	135	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	141	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R	142	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	143	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	144	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
R	145	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	146	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	147	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	151	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	152	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	153	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	155	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	156	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	157	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	158	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	159	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	161	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	162	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	163	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	164	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	171	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	172	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R	173	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	174	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	201	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R	202	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	203	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	221	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	222	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R	223	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R	224	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	231	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R	232	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	233	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	234	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	235	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	241	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R	242	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	243	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	244	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
R	245	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	246	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	247	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	251	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	252	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	253	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	255	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	256	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	257	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	258	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	259	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	261	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	262	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	263	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	264	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	271	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	272	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R	273	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	274	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	301	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R	311	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R	351	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	352	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	362	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	363	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	371	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	372	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R	373	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	374	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	401	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R	411	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R	451	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	452	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	462	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 463	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 471	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 472	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 473	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 474	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 501	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 502	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 503	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 504	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 505	NRSA02J-472NY	MG RESISTOR	47K 5% 1/10W	
R 551	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R 552	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 553	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 554	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 555	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 556	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R 557	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 558	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 559	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 560	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 701	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R 702	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R 703	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 704	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 705	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 706	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 708	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 709	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 710	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 711	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 712	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 713	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 714	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 721	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 722	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 724	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 725	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 726	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 731	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 732	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 733	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 734	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 735	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 736	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 737	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 741	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 743	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 744	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 745	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R 747	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R 748	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R 751	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 761	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 762	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 763	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 764	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 765	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 766	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R 767	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 768	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 769	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 770	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 771	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R 772	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 773	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 774	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 775	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 791	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 792	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 801	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 802	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 803	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 901	NRS181J-101NY	MG RESISTOR	100 5% 1/8W	
R 911	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 912	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 913	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 921	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 922	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 923	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 924	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 935	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R 941	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 942	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 951	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 952	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 953	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 954	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 955	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 956	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 957	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R 958	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 959	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
R 960	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R 961	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 962	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 971	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 972	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 991	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 992	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 9991	VSK1D12-118	RELAY	6/MAG.+	
S 551	QS01B11-V01Z	TACT SWITCH	5/MAG.-	
S 552	QS01B11-V01Z	TACT SWITCH	4/RANDOM	
S 553	QS01B11-V01Z	TACT SWITCH	3/DOLBY	
S 554	QS01B11-V01Z	TACT SWITCH	BAND/CLOCK	
S 555	QS01B11-V01Z	TACT SWITCH	2/MONO	
S 557	QS01B11-V01Z	TACT SWITCH	UP/SKIP+	
S 558	QS01B11-V01Z	TACT SWITCH	MODE	

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S 559	QS01B11-V01Z	TACT SWITCH	HBS/SK.DK	
	S 560	QS01B11-V01Z	TACT SWITCH	FUNCTION	
	S 561	QS01B11-V01Z	TACT SWITCH	1/P-SCAN	
	S 562	QS01B11-V01Z	TACT SWITCH	DOWN/SKIP-	
	T 51	VQZ0040-001	AM RF		
	T 52	VQZ0040-101	AM RF		
	T 53	VQI7A21-105	IFT		
	T 54	VQI7A11-209	IFT		
	T 81	VQZ0056-001	LW RF COIL		
	T 82	VQZ0056-001	LW RF COIL		
	TC 51	QAT3722-200ZM	T-CAPACITOR		
	TC 81	QAT3722-600ZM	T-CAPACITOR		
	TP 1	VMC0075-002N	CONNECTOR	FMOV T.POINT	
	TP911	VMC0075-002N	CONNECTOR		
	TU 1	VAF2S07-402	FM FRONT END		
	VR 1	QVPA603-333A	SEMI-V.RESISTOR	SEPARATION ADJ	
	VR 3	QVPA603-223A	SEMI-V.RESISTOR	BLEND ADJ.	
	VR111	QVPA603-223A	SEMI-V.RESISTOR	DOLBY LEVL-ADJ	
	VR211	QVPA603-223A	SEMI-V.RESISTOR	DOLBY LEVE-ADJ	
	VR741	QVPA601-503A	V.RESISTOR	STOP SENS-ADJ	
	VR931	VCV1001-152	V RESISTOR	BASS/TREBLE	
	VR932	VCV1001-153	V RESISTOR	BALANCE	
	VR935	VCV1001-154	V RESISTOR	VOLUME	
	X 701	VCK4001-005	CRYSTAL		

● Main P.C. Board (KS-RT60 G/GE)

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	2	QEK41HM-104	E.CAPACITOR	-1.0MF 20% 50V	
C	4	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	5	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	6	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	7	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	8	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	9	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	10	NCB21HK-102AY	C CAPACITOR	1000PF 5% 50V	
C	11	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C	12	NCB21HK-120AY	C CAPACITOR	12PF +50:-10% 1	
C	13	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C	14	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C	15	QCV81HK-223Y	E.CAPACITOR	.022MF 10% 50V	
C	16	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	17	QEK41HM-224	E.CAPACITOR	.022MF 20% 50V	
C	18	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	19	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	20	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	21	QEK41HM-224	E.CAPACITOR	.022MF 20% 50V	
C	22	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	23	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C	24	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C	25	NCB21HK-681AY	C CAPACITOR	680PF 5% 50V	
C	26	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C	27	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C	28	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
C	29	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	30	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	31	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	40	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C	41	NCB21HK-101AY	E.CAPACITOR	100PF +50:-10% 1	
C	51	NCB21HK-821AY	C CAPACITOR	820PF 5% 50V	
C	52	NCB21HK-220AY	C CAPACITOR	22PF +50:-10% 1	
C	53	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C	54	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	55	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	56	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	57	NCB21HK-100AY	C CAPACITOR	10PF 50V	
C	58	NCB21HK-100AY	C CAPACITOR	10PF 50V	
C	59	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	60	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	61	NCB21HK-431AY	C CAPACITOR	430PF +50:-10% 1	
C	62	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	63	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	64	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	65	QEK41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C	66	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	67	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	68	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	69	QEK41CM-226VM	E.CAPACITOR	22MF 20% 16V	
C	70	QEK41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C	71	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	72	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	74	NCB21HK-683AY	C CAPACITOR	.068MF 10% 25V	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	75	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
C	76	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	77	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	78	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	81	NCB21HK-271AY	C CAPACITOR	270PF +50:-10% 1	
C	82	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V	
C	83	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V	
C	101	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C	102	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C	103	QV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
C	104	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C	105	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C	111	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	112	QV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C	121	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C	122	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C	131	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C	132	NEF11EM-474RY	TS.E.CAPACITOR	.47MF 20% 25V	
C	133	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C	134	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C	141	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C	142	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	143	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
C	144	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C	147	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C	151	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	152	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C	161	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C	162	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C	171	NCB21HK-471AY	C CAPACITOR	470PF +50:-10% 1	
C	172	QV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	173	QV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	201	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C	202	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C	203	QV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
C	204	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C	205	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C	211	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	212	QV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C	221	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C	222	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C	231	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C	232	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C	233	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C	234	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C	241	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C	242	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	243	NEF11EM-224RY	TS.E.CAPACITOR	.22MF 20% 35V	
C	244	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C	247	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C	251	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C	252	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C	261	QER41HM-224VS	E.CAPACITOR	.22MF 20% 50V	
C	262	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C	271	NCB21HK-471AY	C CAPACITOR	470PF +50:-10% 1	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	272	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	273	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	301	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V	
C	311	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C	312	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	356	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C	371	NET21CH-471AY	C CAPACITOR	470PF +50:-10%	
C	372	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	373	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	401	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V	
C	411	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C	412	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	456	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C	471	NET21CH-471AY	C CAPACITOR	470PF +50:-10%	
C	472	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	473	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
C	501	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	601	QEK41HM-107	E-CAPACITOR	100MF 20% 10V	
C	602	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
C	603	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	604	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
C	605	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	606	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	607	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C	608	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C	609	QER41CM-226VM	E-CAPACITOR	22MF 20% 16V	
C	610	QETA1AM-477N	E-CAPACITOR	470MF 20% 10V	
C	611	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
C	612	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C	631	QER41HM-224VS	E-CAPACITOR	.22MF 20% 50V	
C	703	NET21CH-220AY	C CAPACITOR	22PF +50:-10% 1	
C	704	NET21CH-270AY	C CAPACITOR	27PF +50:-10% 1	
C	705	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	706	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	707	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	708	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C	709	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C	710	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	721	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C	723	QETC1AM-108ZN	E-CAPACITOR	1000MF 20% 10V	
C	731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	732	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V	
C	733	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C	734	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V	
C	735	NCB21HK-100AY	C CAPACITOR	10PF 50V	
C	741	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	751	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C	752	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C	761	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	801	QERF1AM-227ZM	E-CAPACITOR	220MF 20% 10V	
C	901	QEKF1CM-107ZN	E-CAPACITOR	100MF 20% 16V	
C	902	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	911	QEK41CM-476	E-CAPACITOR	47MF 20% 16V	
C	912	QEK41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C	913	QEK41EM-475	E-CAPACITOR	4.7MF 20% 25V	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	921	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C	922	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C	941	QEK41CM-476	E-CAPACITOR	47MF 20% 16V	
C	942	QEK41CM-476	E-CAPACITOR	47MF 20% 16V	
C	951	QERF0JM-476ZN	E-CAPACITOR	47MF 20% 6.3V	
C	952	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	956	QEK41CM-106	E-CAPACITOR	10MF 20% 16V	
C	957	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V	
C	958	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V	
C	959	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V	
C	961	QERF0JM-476ZN	E-CAPACITOR	47MF 20% 6.3V	
C	962	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	963	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
C	972	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V	
C	973	QEK41CM-106	E-CAPACITOR	10MF 20% 16V	
C	974	QETC1CM-477ZN	E-CAPACITOR	470MF 20% 16V	
C	992	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
CF	1	VCF233B-104Z	C FILTER		
CF	2	VCF233B-103	CERAMIC FILTER		
CF	3	CSB456F23	CERA LOCK		
CF	51	BFU450C4N	CERAMIC FILTER		
CF	601	CSB456F15	CERA LOCK		
CJ	1	VMC0136-002	CONNECTOR		
CJ	2	VMC0136-005	CONNECTOR		
CJ	3	VMC0136-007	CONNECTOR		
CJ501		VMC0259-002	CONNECTOR		
CJ701		VMC0232-507	CONNECTOR		
CJ912		VMC0136-007	CONNECTOR		
CJ921		VMJ4035-001	MINI DIN JACK		
CN531		VMC0198-003	CONNECTOR		
CN931		TXLP-007-B	CONNECTOR		
CP	1	VMC0135-002	CONNECTOR		
CP	2	VMC0135-005	CONNECTOR		
CP	3	VMC0135-007	CONNECTOR		
CP501		VMC0278-002	CONNECTOR		
CP701		VMC0232-807	CONNECTOR		
CP911		TXLL-005-M	CONNECTOR		
CP912		VMC0135-007	CONNECTOR		
CP991		VGZ0007-030	FEED THROUGH		
D	1	MA165	SI DIODE		
D	51	SVC321SP	VARI CAP		
D	52	SVC321SP	VARI CAP		
D	53	SVC321SP	VARI CAP		
D	54	MA165	SI DIODE		
D	55	MA165	SI DIODE		
D	56	1SV121	SI DIODE		
D	57	1SV121	SI DIODE		
D	81	MA165	SI DIODE		
D	161	HSM2836C	DIODE		
D	261	HSM2836C	DIODE		
D	311	HSM2838C	DIODE		
D	411	HSM2838C	DIODE		
D	501	HZS5-6EB2	ZENER DIODE		
D	502	HZS5-6EB2	ZENER DIODE		
D	551	SLR-342VCA49	LED I/M	MODE	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D	552	SLR-342VCA49	LED I/M	HBS	
D	601	HZ55-6EB2	ZENER DIODE		
D	651	HSM2838C	DIODE		
D	652	HSM2836C	DIODE		
D	703	MA165	SI DIODE		
D	721	HZ56-2EB3	ZENER DIODE		
D	722	MA165	SI DIODE		
D	723	MA165	SI DIODE		
D	724	MA165	SI DIODE		
D	725	MA165	SI DIODE		
D	726	HSM2836C	DIODE		
D	731	HZ510EB2	ZENER DIODE		
D	741	HSM2838C	DIODE		
D	751	MA165	SI DIODE		
D	752	HZ511EB2	ZENER DIODE		
D	761	MA165	SI DIODE		
D	791	DSK10C-E	DIODE		
D	801	HZ510EB2	ZENER DIODE		
D	921	HZ55-1EB2	ZENER DIODE		
D	941	MT74-7C	ZENER DIODE		
D	956	MA700	ZENER DIODE		
D	957	MA700	ZENER DIODE		
D	991	DSK10C-E	DIODE		
IC	1	LA1862M	IC		
IC	51	LA1135	IC		
IC	141	BA15218N	IC		
IC	241	BA15218N	IC		
IC	601	LA2230	IC		
IC	701	UPD17003AGF-652	IC		
IC	761	HD74HC126P	IC		
IC	901	UPC1228HA	IC		
IC	911	HA12135AFT	IC		
IC	921	UPD4052BC	IC		
IC	951	VC4580D	IC		
IC	961	VC4580D	IC		
IC	971	HA13152	IC		
J	1	VMZ0015-014	POST PIN		
L	1	VQP0018-470	INDUCTOR		
L	2	VQP1002-2R2Y	INDUCTOR		
L	3	VQT7F07-504	IFT		
L	4	VQP1003-R22Y	INDUCTOR		
L	52	VGM7U01-501	OSC COIL (MW)		
L	81	VQL7U01-501	OSC COIL (LW)		
L	721	VQP0018-470	INDUCTOR		
LCD	1	VGL1154-001	LCD		
PL	531	VGZ0001-056	LAMP		
PL	532	VGZ0001-056	LAMP		
PL	551	VGZ0001-055	LAMP		
PL	552	VGZ0001-055	LAMP		
Q	1	2SC2814(F4F5)HL	TRANSISTOR		
Q	41	2SB643	TRANSISTOR		
Q	42	FA1A4M	TRANSISTOR		
Q	51	2SK519(CEL, FL)	TRANSISTOR (FET)		
Q	52	2SC1740S(R, S)	TRANSISTOR		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q	53	2SA812(6)	TRANSISTOR		
Q	81	2SC2785	TRANSISTOR		
Q	82	2SC2785	TRANSISTOR		
Q	83	BA1A4M	TRANSISTOR		
Q	84	BA1A4M	TRANSISTOR		
Q	91	2SA812(6)	TRANSISTOR		
Q	96	FA1A4M	TRANSISTOR		
Q	97	FA1A4M	TRANSISTOR		
Q	141	2SK301(P, Q)	TRANSISTOR (FET)		
Q	156	2SC1623(6)	TRANSISTOR		
Q	157	2SC1623(6)	TRANSISTOR		
Q	161	2SC1623(6)	TRANSISTOR		
Q	241	2SK301(P, Q)	TRANSISTOR (FET)		
Q	256	2SC1623(6)	TRANSISTOR		
Q	257	2SC1623(6)	TRANSISTOR		
Q	261	2SC1623(6)	TRANSISTOR		
Q	351	2SC1623(6)	TRANSISTOR		
Q	361	2SC1623(6)	TRANSISTOR		
Q	451	2SC1623(6)	TRANSISTOR		
Q	461	2SC1623(6)	TRANSISTOR		
Q	601	2SC1623(6)	TRANSISTOR		
Q	651	FN1A4MX	TRANSISTOR		
Q	656	2SC1623(6)	TRANSISTOR		
Q	657	2SD1048X71-HL	TRANSISTOR		
Q	721	2SD973	TRANSISTOR		
Q	722	2SA812(6)	TRANSISTOR		
Q	723	2SC1623(6)	TRANSISTOR		
Q	731	2SC1623(6)	TRANSISTOR		
Q	732	2SC1623(6)	TRANSISTOR		
Q	741	2SC1623(6)	TRANSISTOR		
Q	742	2SC1623(6)	TRANSISTOR		
Q	751	FN1A4MX	TRANSISTOR		
Q	752	FN1A4MX	TRANSISTOR		
Q	753	FA1A4M	TRANSISTOR		
Q	781	FA1A4M	TRANSISTOR		
Q	782	FA1A4M	TRANSISTOR		
Q	791	2SB643	TRANSISTOR		
Q	792	FA1A4M	TRANSISTOR		
Q	801	2SD973	TRANSISTOR		
Q	802	2SD973	TRANSISTOR		
Q	803	2SD973	TRANSISTOR		
Q	911	FA1A4M	TRANSISTOR		
Q	921	FA1A4M	TRANSISTOR		
Q	922	FA1A4M	TRANSISTOR		
Q	956	FN1A4MX	TRANSISTOR		
Q	957	FA1A4M	TRANSISTOR		
Q	958	2SC1623(6)	TRANSISTOR		
Q	959	2SC1623(6)	TRANSISTOR		
Q	991	FN1A4MX	TRANSISTOR		
Q	992	2SC1623(6)	TRANSISTOR		
R	1	NPSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	2	NPSA02J-ORONY	MG RESISTOR	5% 1/10W	
R	3	NPSA02J-391NY	MG RESISTOR	390 5% 1/10W	
R	4	NPSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
R	5	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	123	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R	124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	131	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	132	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	133	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	134	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	135	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	141	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R	142	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	143	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	144	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
R	145	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	146	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	147	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	151	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	152	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	153	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	155	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	156	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	157	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	158	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	
R	159	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	161	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	162	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	163	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	164	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	171	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	172	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R	173	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	174	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	201	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R	202	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	203	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	221	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	222	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R	223	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R	224	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	231	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R	232	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	233	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	234	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	235	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	241	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R	242	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	243	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	244	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
R	245	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R	246	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	247	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	251	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	252	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	253	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	255	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	256	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	257	NRSA02J-335NY	MG RESISTOR	3.3M 5% 1/10W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	6	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R	7	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R	8	NRSA02J-221NY	MG RESISTOR	220 5% 1/10W	
R	9	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R	10	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R	11	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	12	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R	13	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R	14	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	15	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	16	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R	17	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R	18	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R	19	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	20	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R	21	NRSA02J-752NY	MG RESISTOR	7.5K 5% 1/10W	
R	23	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R	24	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R	25	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R	26	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R	27	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R	28	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
R	40	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	41	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	42	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	51	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	52	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	54	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	55	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	56	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R	57	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R	58	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	59	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	60	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R	61	NRSA02J-822NY	MG RESISTOR	82 5% 1/10W	
R	62	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	63	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R	64	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R	65	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	66	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	67	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R	68	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	69	NRSA02J-0R0NY	MG RESISTOR	5% 1/10W	
R	81	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R	82	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R	83	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	84	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	91	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	96	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R	97	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R	101	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R	102	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R	103	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R	121	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R	122	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 258	NRSA02J-352NY	MG RESISTOR	3.3K 5% 1/10W	
R 259	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 261	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 262	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 263	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 264	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 271	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 272	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 273	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 274	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 301	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 311	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 331	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 332	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 336	NRSA02J-224NY	MG RESISTOR	22K 5% 1/10W	
R 362	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 363	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 371	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 372	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 373	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 374	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 401	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 411	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 431	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 452	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 456	NRSA02J-224NY	MG RESISTOR	22K 5% 1/10W	
R 462	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 463	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 471	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 472	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 473	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 474	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 501	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 502	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 503	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 504	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 505	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 551	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R 552	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 553	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 554	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 555	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 556	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R 557	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 558	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 559	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 601	NRSA02J-102NY	MG RESISTOR	3.9K 5% 1/10W	
R 602	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 603	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 604	QRD161J-824	CARBON RESISTOR	820K 5% 1/6W	
R 605	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 606	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 651	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 656	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 02

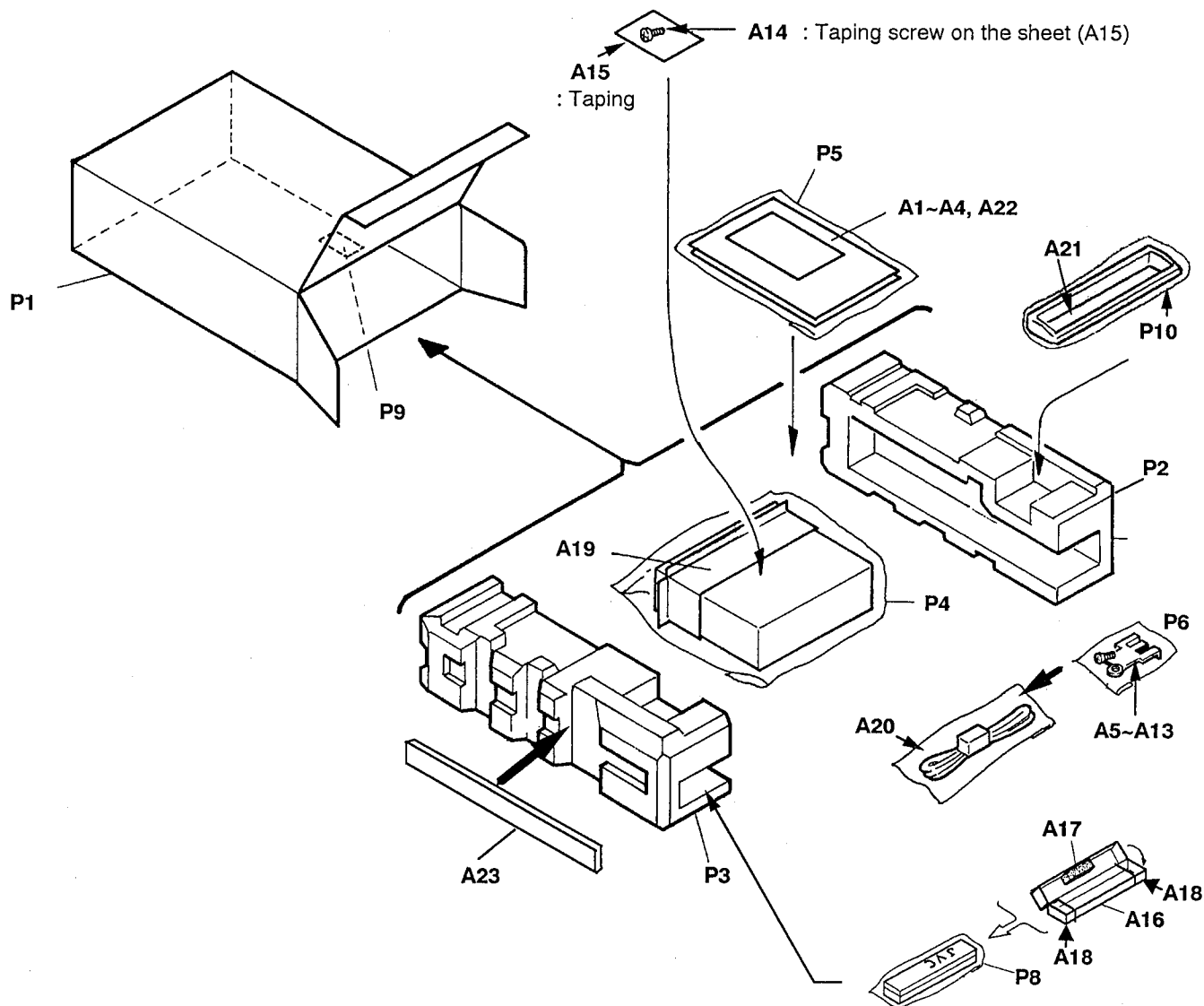
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 657	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 701	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 702	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 703	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 704	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 705	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 706	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 708	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 709	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 710	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 711	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 712	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 713	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 714	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 721	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 722	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 723	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
R 724	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
R 725	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 726	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 731	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 732	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
R 733	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
R 734	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 735	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 736	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 737	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 741	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 743	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 744	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 745	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R 747	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
R 748	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
R 751	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 761	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 762	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 763	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 764	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 765	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 766	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R 767	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 768	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 769	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 770	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 771	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
R 772	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 773	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 774	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 775	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
R 791	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 792	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 801	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 802	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 803	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	

[illegible]

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 901	NR5181J-101NY	MG RESISTOR	100 5% 1/8W	
R 911	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 912	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 913	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 921	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 922	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 923	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 924	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 935	NRSA02J-561NY	MG RESISTOR	560 5% 1/10W	
R 941	QRD161J-120	CARBON RESISTOR	1.0K 5% 1/6W	
R 942	QRD161J-202	CARBON RESISTOR	22 5% 1/6W	
R 951	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 952	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 953	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 954	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 955	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 956	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 957	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R 958	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 959	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
R 960	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R 961	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 962	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 971	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 972	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 991	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 992	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
RY991	VSK1D12-118	RELAY		
S 551	QSQ1B11-V01Z	TACT SWITCH	6/MAG.+	
S 552	QSQ1B11-V01Z	TACT SWITCH	5/MAG.-	
S 553	QSQ1B11-V01Z	TACT SWITCH	4/RANDOM	
S 554	QSQ1B11-V01Z	TACT SWITCH	3/DOLBY	
S 555	QSQ1B11-V01Z	TACT SWITCH	BAND/CLOCK	
S 556	QSQ1B11-V01Z	TACT SWITCH	2/MONO	
S 557	QSQ1B11-V01Z	TACT SWITCH	UP/SKIP+	
S 558	QSQ1B11-V01Z	TACT SWITCH	MODE	
S 559	QSQ1B11-V01Z	TACT SWITCH	HBS/SK-DK	
S 560	QSQ1B11-V01Z	TACT SWITCH	FUNCTION	
S 561	QSQ1B11-V01Z	TACT SWITCH	1/P.SCAN	
S 562	QSQ1B11-V01Z	TACT SWITCH	DOWN/SKIP-	
T 51	VQZ0040-001	AM RF		
T 52	VQZ0040-101	AM RF		
T 53	VQ7A21-105	IFT		
T 54	VQ7A11-209	IFT		
T 81	VQZ0056-001	LW RF COIL		
T 82	VQZ0056-001	LW RF COIL		
TC 51	QAT3722-200ZM	T-CAPACITOR		
TC 81	QAT3722-600ZM	T-CAPACITOR		
TP 1	VMC0075-002N	CONNECTOR		
TP911	VMC0075-002N	CONNECTOR		
TU 1	VAF2S07-402	FM FRONT END		
VR 1	QVPA603-333A	SEMI.-V.RESISTOR	SEPARATION ADJ	
VR 3	QVPA603-223A	SEMI.-V.RESISTOR	BLEND ADJ.	
VR111	QVPA603-223A	SEMI.-V.RESISTOR		
VR211	QVPA603-223A	SEMI.-V.RESISTOR		

13. Illustration of Packing and Parts List



■ Packing parts list

BLOCK NO. M3MM

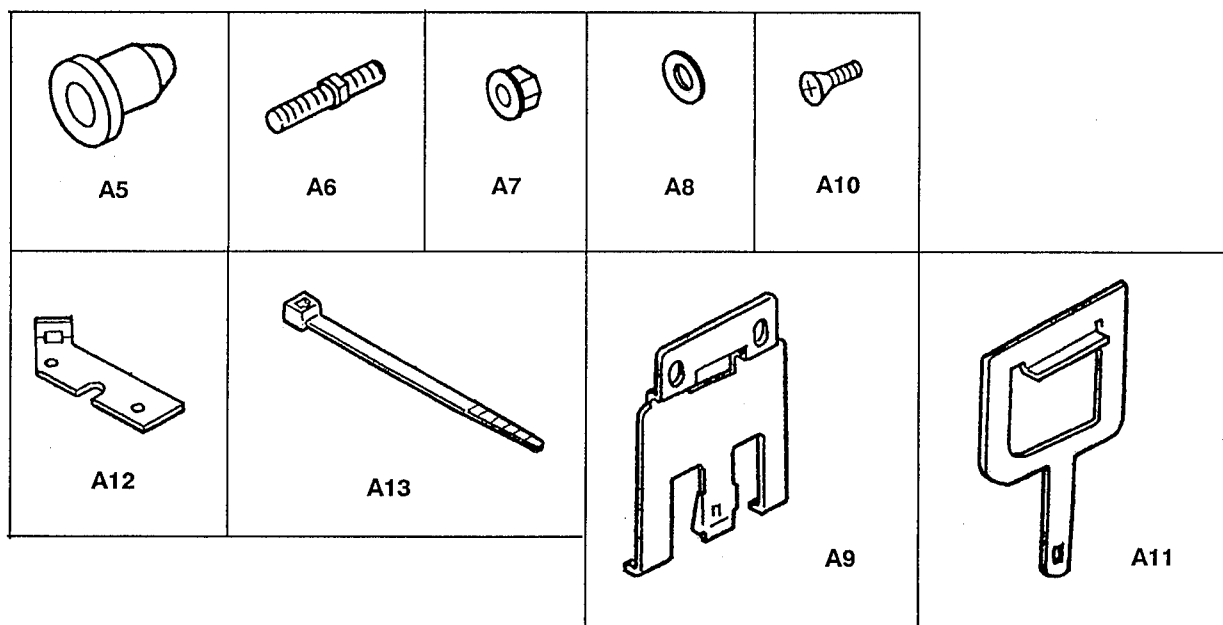
△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC3496-S003	CARTON	PRINTED IN SING	1		
	P 2	VPH1647-002	CUSHION(L)		1		
	P 3	VPH1648-002	CUSHION(R)		1		
	P 4	VPE3005-066	POLY BAG	SET	1		
	P 5	QPG8017-02404	POLY BAG	INSTRUCTIONS	1		
	P 6	QPGA008-01205	POLY BAG	SCREW KIT	1		
	P 8	QPGA010-03003	POLY.BAG	FOR HARD CASE	1		
	P 9	VND3046-005	SERIAL TICKET		1	G	
		VND3046-003	SERIAL TICKET		1	E	
		VND3046-001	SERIAL TICKET	CARTON	1	GI,GE	
		VND3046-004	SERIAL TICKET		1	B	
	P 10	QPGA010-03003	POLY.BAG	FOR TRIM PLATE	1		

14. Accessories

BLOCK NO. M4MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	VNN3496-211S	INSTRUCTIONS		1	E,B,GI,G,GE	
	VNN3496-471S	INSTRUCTIONS		1	GI	
	VNN3496-451S	INSTRUCTIONS		1	E	
	VNN3496-481S	INSTRUCTIONS		1	E	
A 2	VNC2400-090	CAUTION SHEET		1		
A 3	BT-20066A	WARRANTY CARD		1	B	
	BT-20135	WARRANTY CARD		1	G	
A 4	BT20060	WARRANTY CARD		1	B	
A 5	VKZ4027-002	PLUG NUT		1		
A 6	VKH4871-001	MOUNT BOLT		1		
A 7	VKZ4328-001	LOCK NUT	M5	1		
A 8	WNS5000Z	WASHER		1		
A 9	VKY3124-001	SIDE SPRING		2		
A 10	SSSP4006Z	SCREW	SIDE SPRING	4		
A 11	VKL7233-001	HOOK		2		
A 12	VKL7649-001	CORD HOLDER		1		
A 13	QHXS080-001	WIRE CLAMP	FOR CORD HOLDER	1		
A 14	SPSJ1725M	MINI SCREW		1		
A 15	VND4619-001	SHEET		1		
A 16	VJB2014-001	HARD CASE		1		
A 17	VYSH118-002	SPACER		1		
A 18	FSYH3008-002	SPACER	HARD CASE: INNER	2		
A 19	VKL3732-018SS	MOUNTING SLEEVE		1		
A 20	VMC0014-145	11P CORD ASS'Y		1		
A 21	FSJD2004-002	TRIM PLATE		1		
A 22	VND3050-001	IDENTITY CARD		1		
A 23	VKL5460-001	STAY		1		
KIT 1	KSRT60K-SCREW	SCREW PARTS KIT	P6,A5-A13	1		

■ Breakdown of screw kit (KIT 1)



JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan