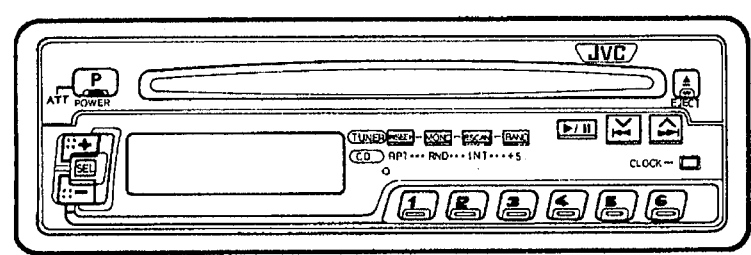


JVC

SERVICE MANUAL

CD RECEIVER

KD-GS40 C/J



| Area Suffix | |
|-------------|--------|
| C | Canada |
| J | U.S.A. |

Contents

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1. Precautions

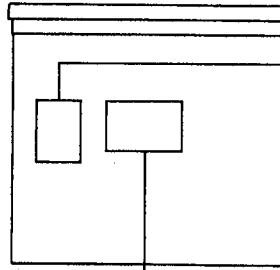
IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

Precautions

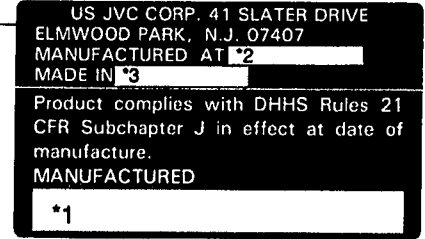
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation, however, is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Identification And Certification Labels

Bottom panel of the main unit



NAME/RATING PLATE



Notes:

- *1 The date of manufacture.
- *2 The ID code of manufacturing plant.
- *3 Marking of country origin.

2. Specifications

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup
(semiconductor laser)
Number of Channels: 2 channels (stereo)

Frequency Response: 5 to 20,000 Hz
Dynamic Range: 95 dB
Signal-to-Noise Ratio: 97 dB
Wow & Flutter: Less than measurable limit

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

RADIO SECTION

Frequency Range
FM: 87.5 to 107.9 MHz
(with channel interval set to 200 kHz)
87.5 to 108.0 MHz
(with channel interval set to 100 kHz)
AM: 530 to 1,710 kHz
(with channel interval set to 10 kHz)
531 to 1,602 kHz
(with channel interval set to 9 kHz)

[FM Tuner]
Usable Sensitivity: 12.1 dBf (1.1 μV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μV/75 Ω)

Alternate Channel Selectivity: (400 kHz): 65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 35 dB
Capture Ratio: 2.0 dB

[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 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 13 mm (7-1/2" x 2-5/16" x
9/16")
Gross Weight: 2.1 kg (4.7 lbs)

*Design and specifications subject to change without
notice.*

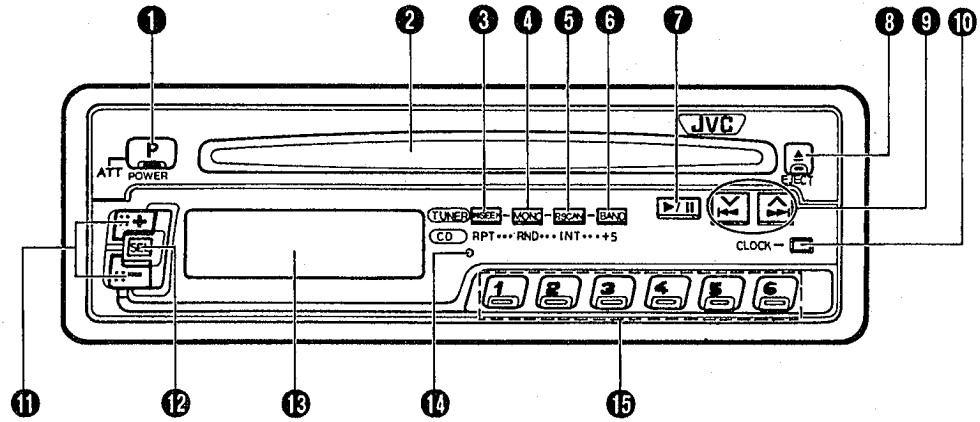
If a kit is necessary for your car, consult
your telephone directory for the nearest car
audio speciality shop.

3. Main Features

- "Direct-in" disc loading system
- Direct Access Play/Skip Play/Search Play/
Repeat Play/Random Play/Intro Play
- AM/FM Stereo PLL Synthesizer Tuner
- 24-Station Preset Tuning (FM-18, AM-6)
- Preset Scan/Seek/Manual Tuning
- 4-Channel Amplifier System
- Maximum Power Output of 22 watts per
channel (Front)/22 watts per channel (Rear)
- Digital Clock Display

4. Instructions (Extract)

LOCATION OF CONTROLS



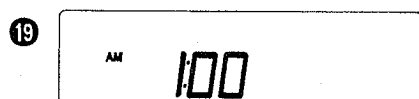
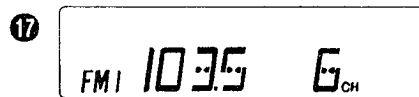
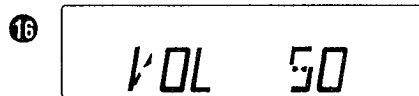
- 1** POWER (P)/Attenuator (ATT) switch
POWER: Press to turn the power ON. Press for more than 1 second to turn the power OFF.
ATT: When this button is pressed during operation, the volume drops and the ATT indicator blinks. Press again to return to the original volume.

- 2** CD loading slot
- 3** Manual (M)/SEEK button
Repeat (RPT) button
- 4** MONO button
Random (RND) button

- 5** Preset Scan (P. SCAN) button
Intro (INT) button
- 6** BAND/+5 button
- 7** Play (▶)/Pause(⏸) button
- 8** Eject (▲) button
- 9** Tuning/Time Adjustment/Skip (search) button
Down frequency/Hour adjustment (▼)/(◀◀)
Up frequency/Minute adjustment (▲)/(▶▶)
- 10** CLOCK button

- 11** Level Control buttons
Use to adjust the volume, bass, treble, fader, balance and loudness. (See page 16.)
- 12** Electronic Control Mode Select (SEL) button
- 13** Display window
- 14** Microcomputer Reset button
- 15** Preset Station buttons (No.1 to No.6)
Track Number buttons (No.1 to No.6)

- 16** Indicators (for Audio Control section)
Volume (VOL)
Bass (BAS)
Treble (TRE)
Fader (FAD)
Balance (BAL)
Loudness (LOUD)
Attenuator (ATT)
Level indicator



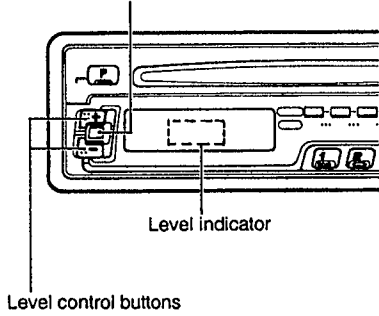
- 17** Indicators (for Tuner section)
Band (FM1-FM2-FM3-AM)
Radio frequency
Preset Station
SEEK
Mono (MO)
FM Stereo (ST)

- 18** Indicators (for CD player section)
LOAD
▶
PLAY
TRACK
Track number
RPT
RND
EJECT
NO DISC

- 19** Indicators (for other controls)
Time
AM
PM



Audio Level Control

Electronic control mode select button (SEL)



Loudness Control

At low volumes, the human ear is less sensitive to low and high frequencies. When the volume is low, set the loudness control to ON to boost these frequencies and produce well-balanced sound.

| Electronic control mode |  |  |
|-------------------------|---|---|
| VOL Volume | (00 - 50) Decreases | (00 - 50) Boosts |
| BAS Bass | (-08) - 00 Decreases | 00 - (+08) Boosts |
| TRE Treble | (-08) - 00 Decreases | 00 - (+08) Boosts |
| FAD Fader | (R10 - 00) Rear | (00 - F10) Front |
| BAL Balance | (L10 - 00) Left | (00 - R10) Right |
| LOUD Loudness | Off | On |

CONCERNING COMPACT DISCS

- Use only CDs with the following mark:

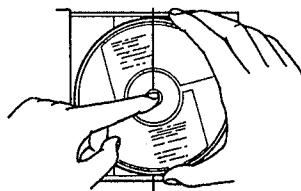


Notes On Handling Discs

Be sure to keep the discs in their cases. If discs are piled on top of one another without their cases, they may be damaged.

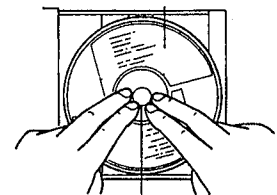
Do NOT put discs where they will be exposed to direct sunlight or in places subject to high temperatures and humidity. Avoid leaving discs in your car.

Press down on the center holder.



Lift it out without touching the recorded surface.

Insert with the label facing up.

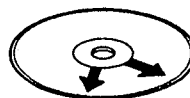


Gently push the disc to insert it.

Maintenance Of Discs

- When fingerprints or dirt adhere to a disc, wipe it clean with a soft, dry cloth, from the inside toward the edge. If it is difficult to clean, wipe the disc with a cloth moistened with water.
- Do NOT use record cleaners, benzine, alcohol or anti-static agents.

Correct

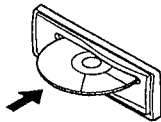


Incorrect



Loading Discs

Insert a disc (label up) into the loading slot. (When the disc is inserted part-way, it is drawn in and play starts automatically.)



Notes:

- This unit is equipped with a two-disc insertion prevention mechanism; when disc insertion is interrupted, the next disc is NOT inserted immediately afterwards. In this case, wait a short period of time or press the EJECT (▲) button to release this mechanism, and insert the disc again.
- When a disc is loaded upside down, "NO DISC" is shown in the display and the disc is automatically ejected.

Unloading Discs

To unload a disc, press the ▲ button; the CD pops out allowing disc removal.

- When removing discs, avoid touching the recorded surface.

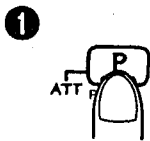
• 8-cm (3-3/16") compact discs (CD singles) CANNOT be played on this unit. If the disc is inserted, it will be ejected automatically.

PLAYING COMPACT DISCS

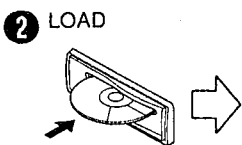
How To Play All Tracks

The following example shows a CD containing 10 tracks with a total playback time of 50 minutes, 45 seconds.

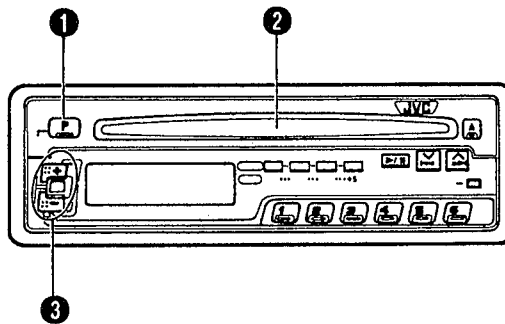
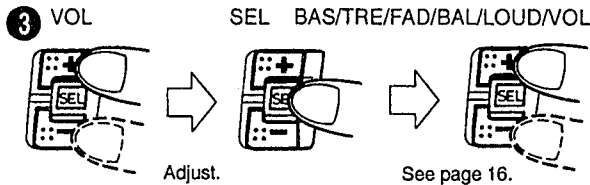
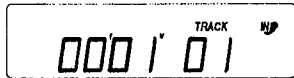
Operate in the order shown.



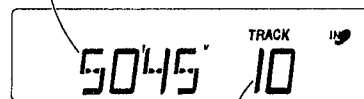
Switch on.



Insert the disc.

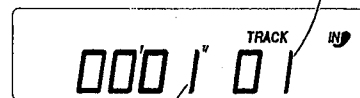


Total playback time.



Total number of tracks (tunes).

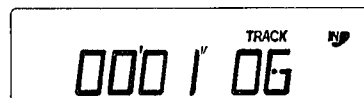
Track (tune) number.



Displays elapsed playback time of each tune being played back.

Direct Access Playback

When the numbered button of a required track is pressed, that track is played back immediately.



- To playback tracks numbered 1 to 6, press the required Track No. button.
- To playback tracks numbered 7 to 99, press the +5* button the required number of times and then the Track No. button.

* +5 button
Each time this button is pressed, the number increases in increments of 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.

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.

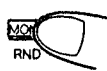
Keep pressed for fast-reverse searching.



Keep pressed for fast-forward searching.

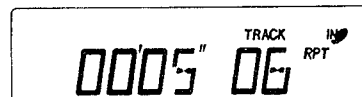
Random Playback

This unit's microcomputer can automatically select tracks on a disc in random order. Press the RND button during playback to start random play. Pressing it again cancels the mode.



Repeat Playback

When the RPT button is pressed, the current track is played again. Press RPT again to cancel repeat playback. The RPT indication goes out and all-tracks playback is resumed.



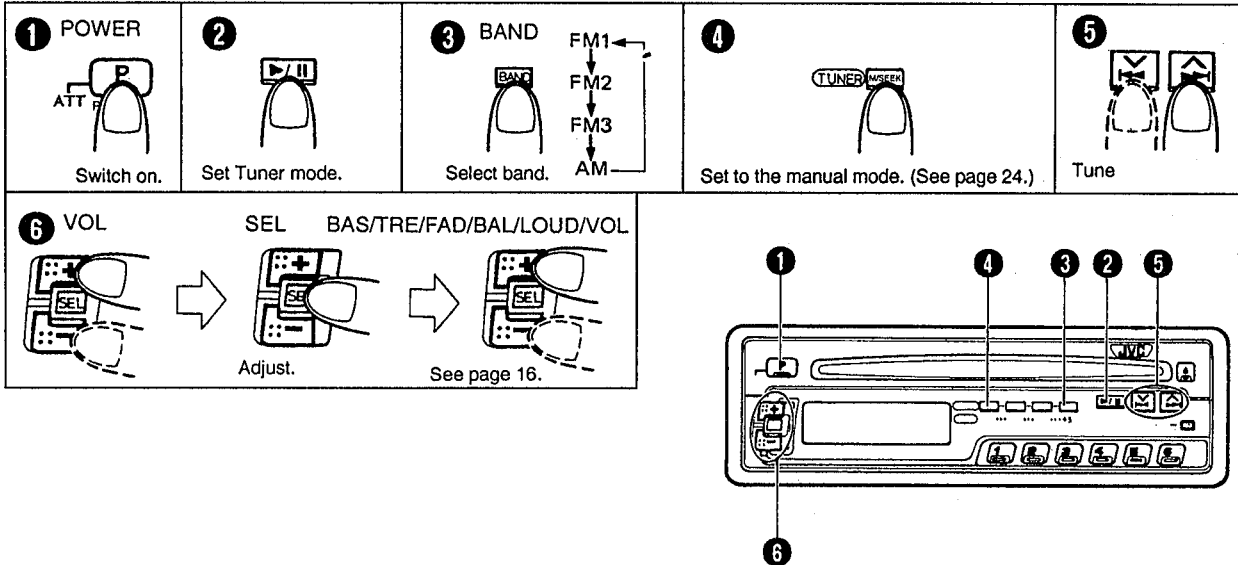
Intro Scan

When the INT button is pressed, the first 15 seconds of each track are played sequentially. During INTRO play, the current Track No. blinks in the display. When you want to start playback, press the INT button again.



RADIO OPERATION

Operate in the order shown.



Manual Tuning

Set Manual mode using the M/SEEK button. When "SEEK" is not displayed, 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 200 kHz/100kHz units
 AM — in 10 kHz/9kHz units

Seek Tuning

Set Seek mode using the M/SEEK button; the indicator lights. Then, by pressing the (UP) or (DOWN) button the unit tunes to the adjacent station with a higher or lower frequency.

Press to move to lower frequencies. -



Press to move to higher frequencies

Preset Button Tuning

How to Preset Stations

6 stations in each band (FM1, FM2, FM3 and AM) can be preset as follows:

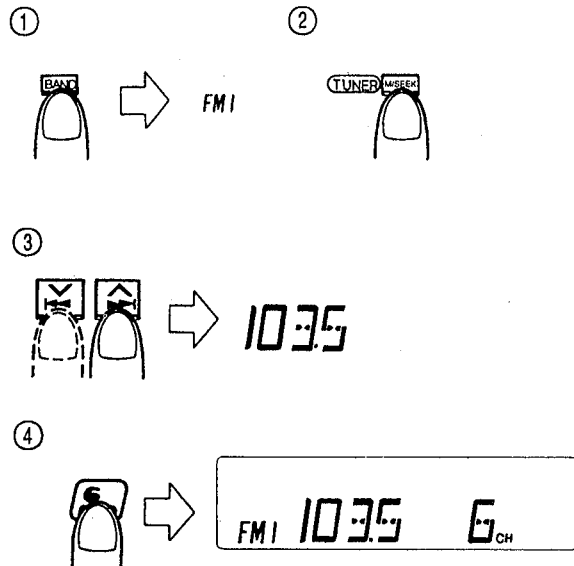
- Example (when presetting Preset Station button "6" to an FM station at 103.5 MHz)

- ① Select the FM1 band using the BAND button.
- ② Set Manual mode.
- ③ Tune to the desired station.
- ④ Press Preset Station button "6" for more than 2 seconds. (When "6" blinks in the Preset Station display, the station is preset.)

- Repeat the above procedure for the other 5 Preset Station buttons and other bands (FM2, FM3 and AM).

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.



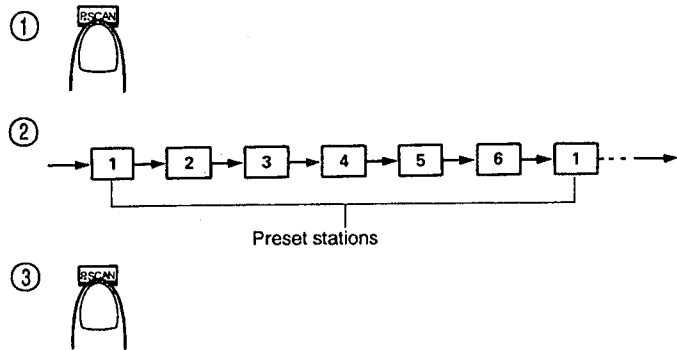
Preset Tuning

- 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 stations.

- ① Press the P. SCAN button.
- ② Scanning is performed in the order of the preset stations in each frequency band (FM1, FM2, FM3 and AM). Each preset station is heard for approx. 5 seconds.
- ③ When the required station is heard, press the P. SCAN button again.



Mono Button

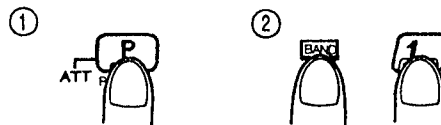
When listening to FM, set the MONO button to stereo or mono.

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

To Change The Intervals Between Channels

When this unit is shipped, the channel intervals are set to 10 kHz for AM and 200 kHz for FM. If the unit is used in an area other than North or South America, adjust as follows:

- ① Switch the power ON.
- ② While pressing the BAND button, press Preset Station button 1 for more than 3 seconds.



Performing this procedure sets the channel intervals to 9 kHz for AM and 100 kHz for FM.

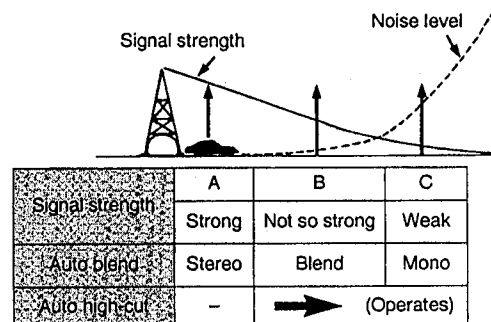
To change back to the original intervals, repeat the above operation.

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.



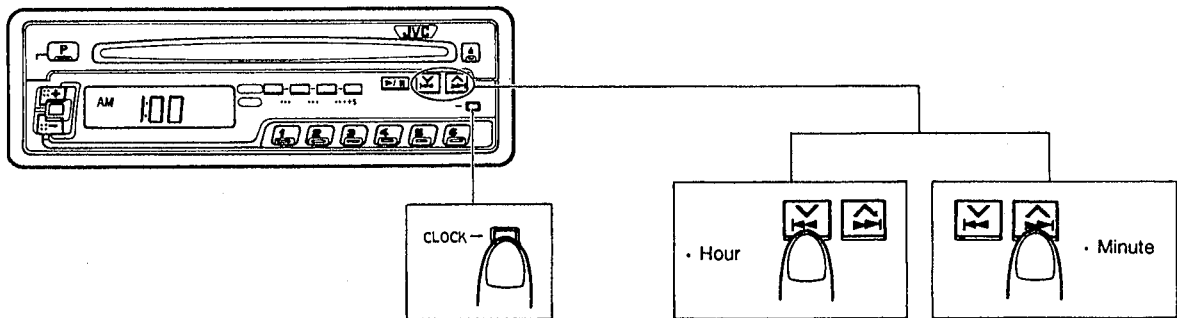
DIGITAL CLOCK DISPLAY

To select Time mode, press the CLOCK button. When the radio or a CD is operated in Time mode, the displayed time switches to the frequency or elapsed playback time, and returns to Time mode after a few seconds. Press the CLOCK button again to cancel Time mode.

How To Adjust The Time

Make sure the display is in Time mode, then, while pressing the CLOCK button, press the Hour Adjustment button (DOWN) (∨) to adjust the "hours", and press the Minute Adjustment button (UP) (∧) 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".)

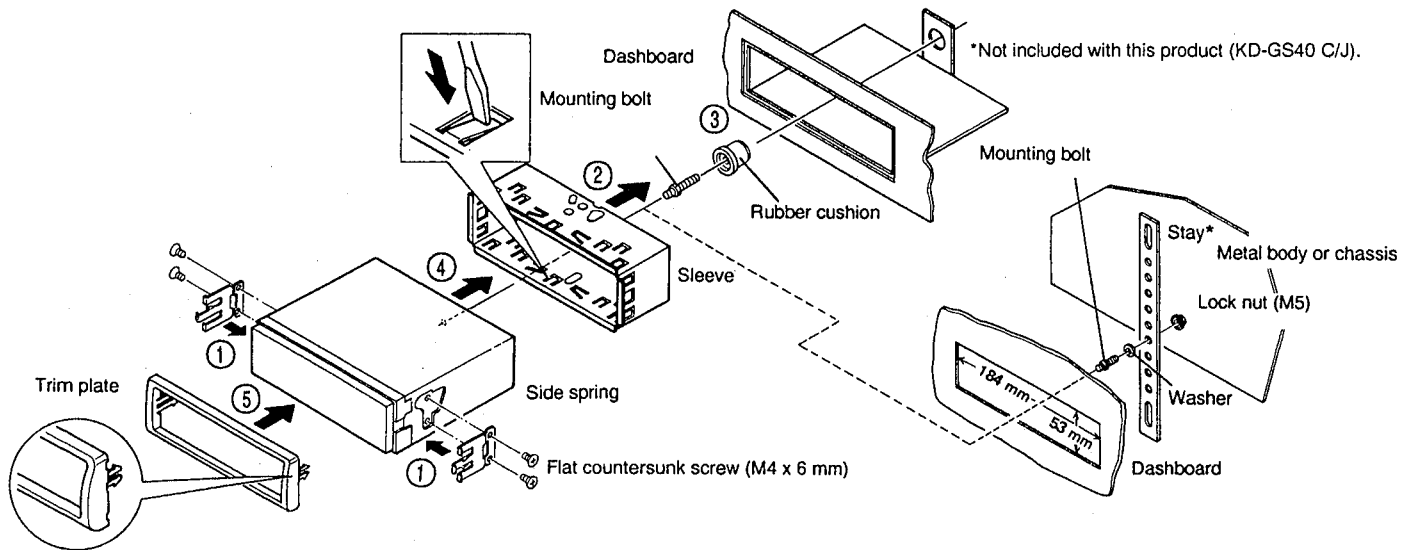


INSTALLATION (IN-DASH MOUNTING)

• 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 car audio dealer or a company supplying kits.

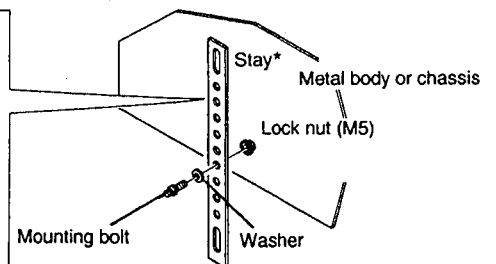
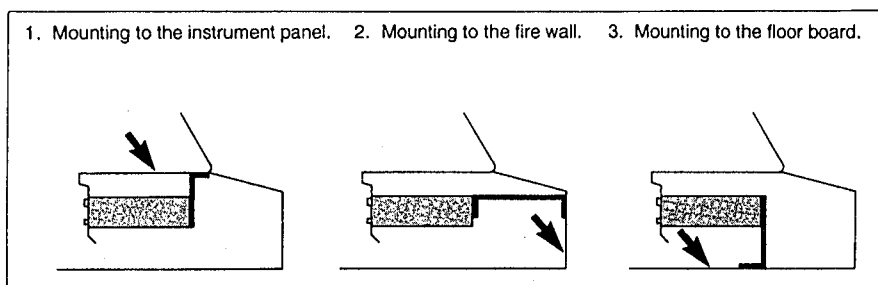
- ① Attach the 2 side springs.
- ② Install the sleeve in the dashboard.
 - * After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
- ③ Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the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

• Follow the numbers for mounting.



• Examples for use of the back stay:

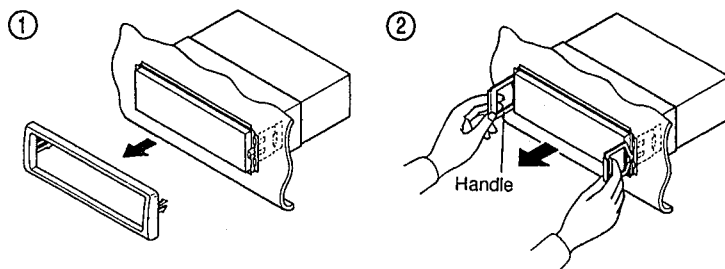
*Not included with this product (KD-GS40 C/J).



Removing the unit

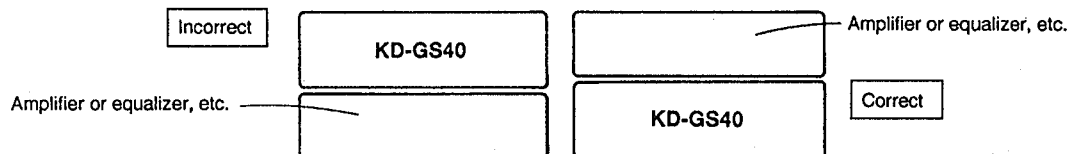
• Before removing the unit, release the rear section.

- ① Remove the trim plate by pulling it forward.
- ② 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.



Installing With Other Equipment

When installing this unit with other equipment, make sure it is positioned under them so its temperature does not rise.

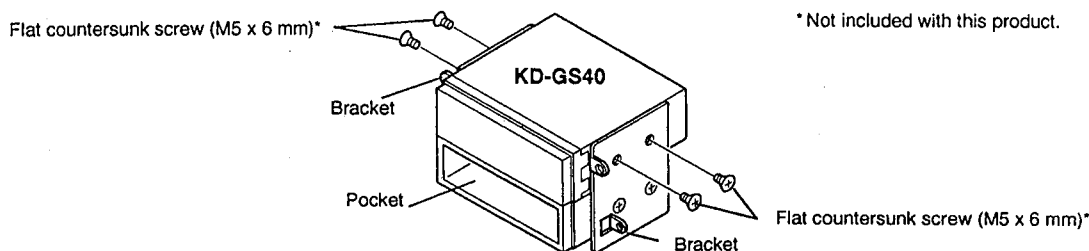


When installing the unit without using the sleeve.

In a Toyota for example, first remove the car radio and install the CD receiver in its place.

Notes:

1. When installing the unit on the mounting bracket, be sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.
2. This unit should be installed horizontally. If not possible, install it at an inclination of 20° or less with respect to the front panel.



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.

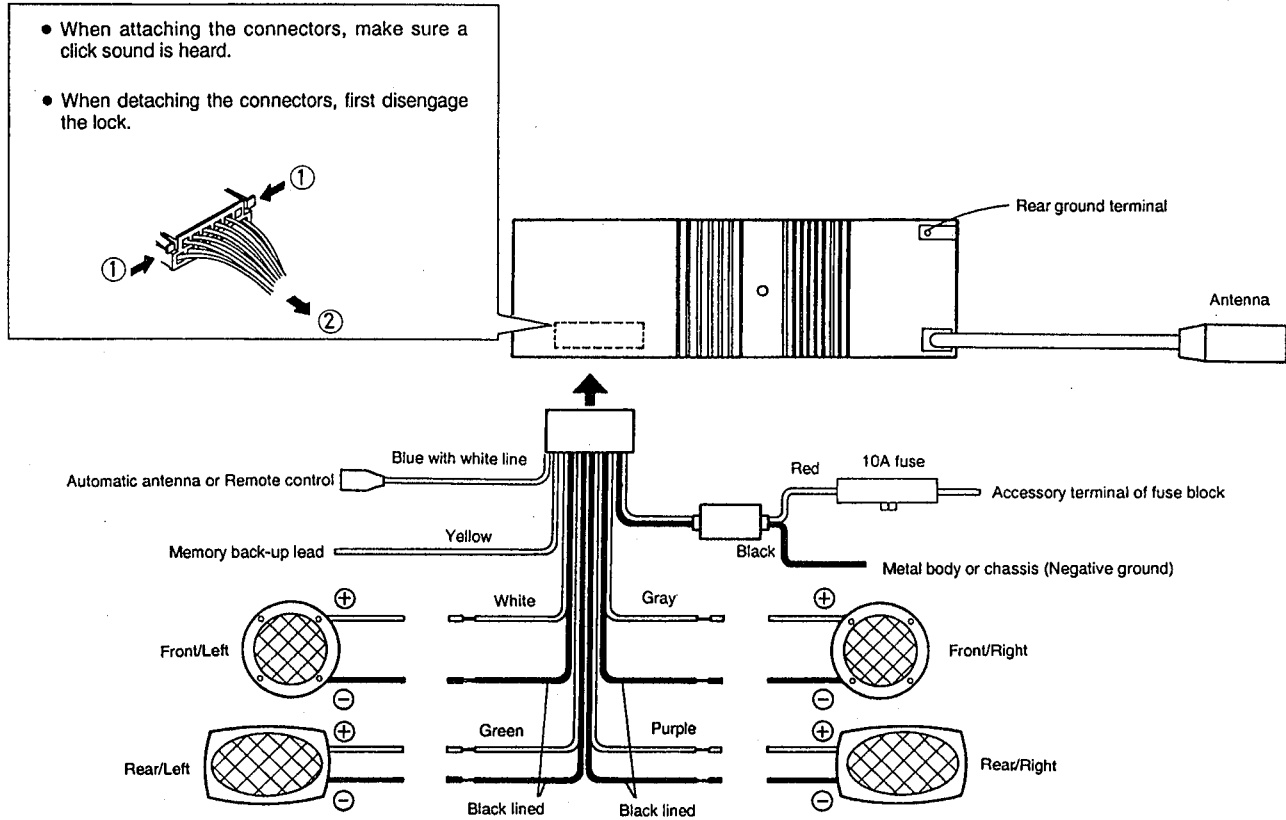
CAUTIONS:

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



B. 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.

C. Memory Back-Up Lead

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

D. Fader Control

- When used in a 4-speaker system
Use this control to balance the volume levels of the front and rear speakers. Set Fader mode using the SEL button and press the + Level Control button to decrease the volume level of the rear speakers, and - to decrease that of the front speakers. The overall volume level can be adjusted in Volume mode. (See page 16.)
- When used in a 2-speaker system
Set this control to the center position ("00" is displayed).

5. Location of Main Parts

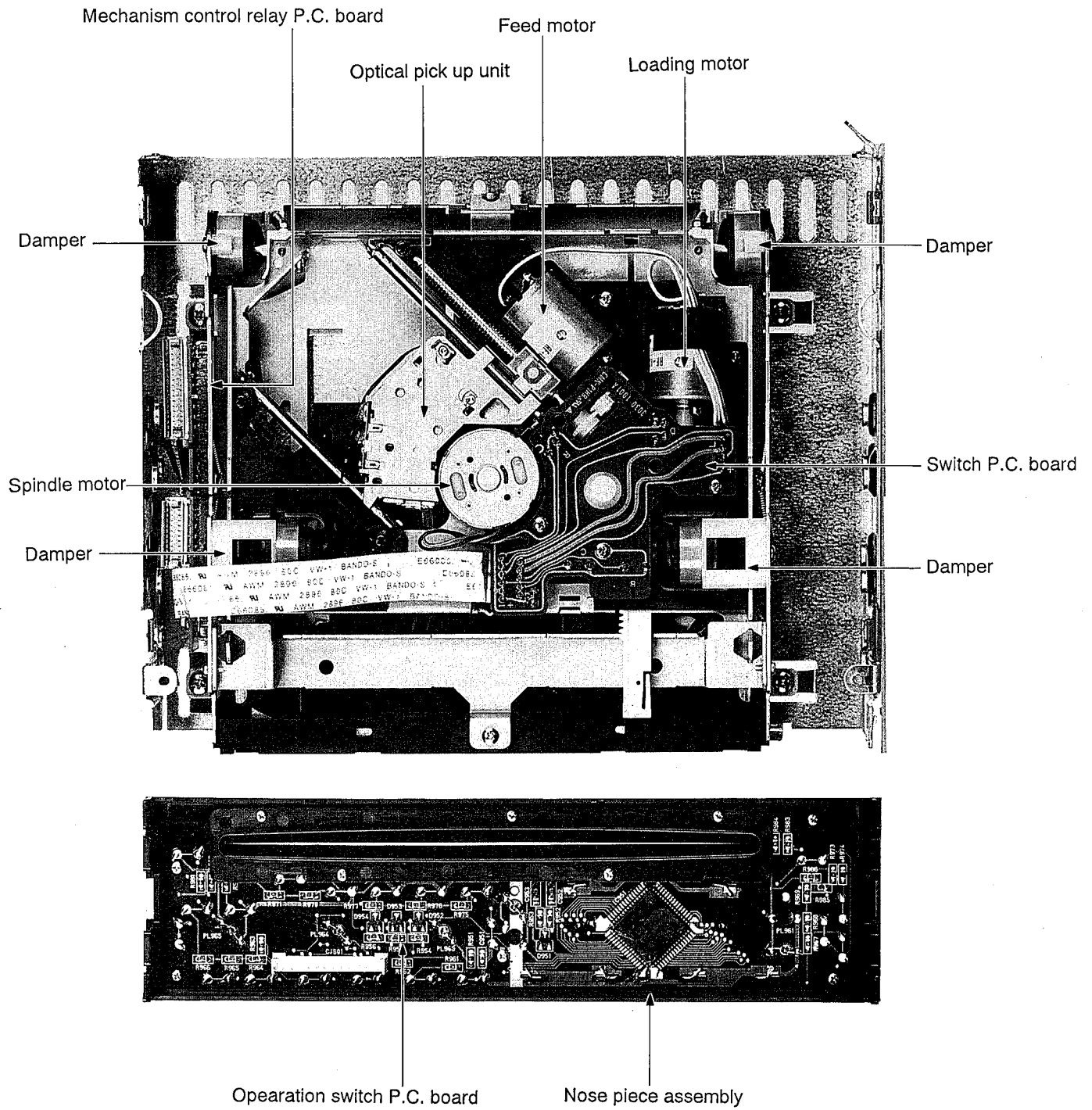


Fig. 5-1

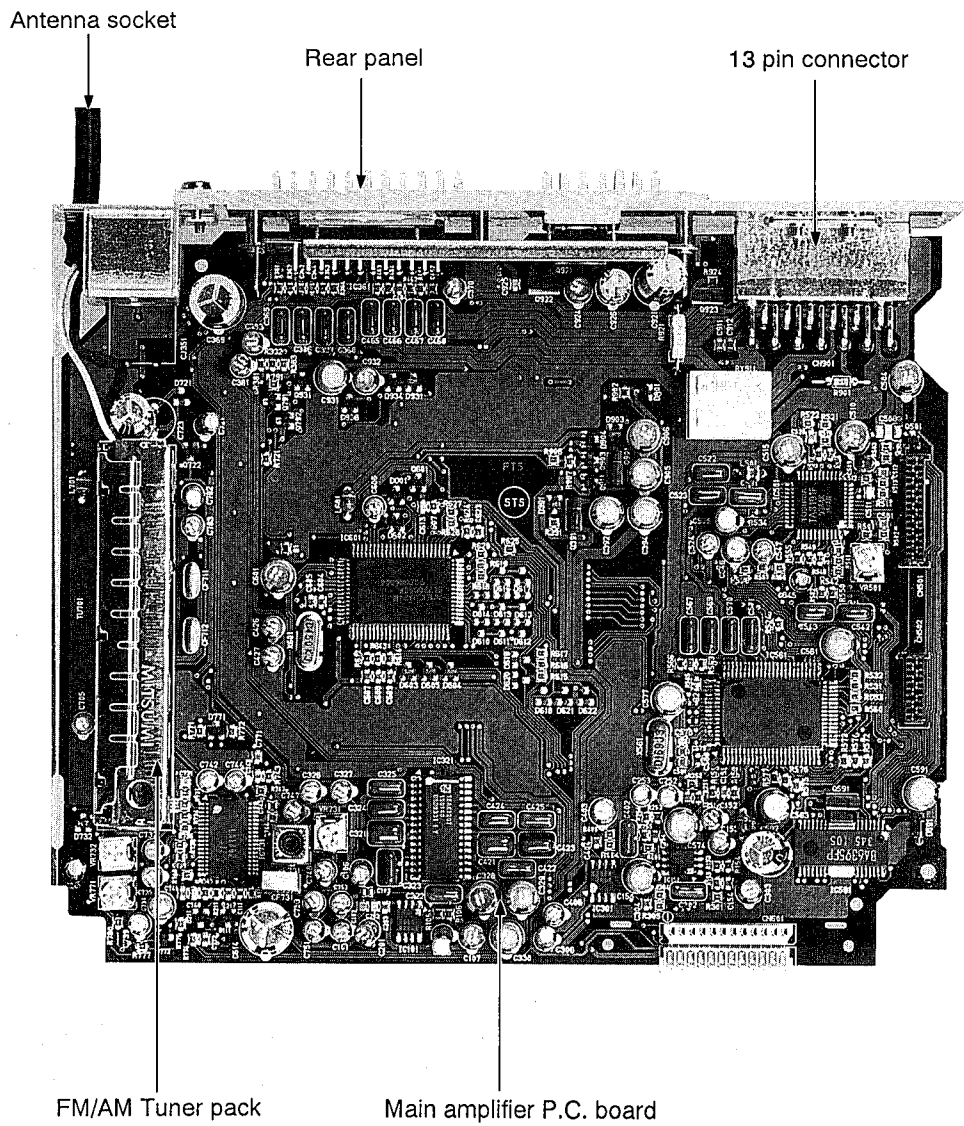


Fig. 5-2

6. Removal of Main Parts

■ Removal of Bottom cover(Fig. 6 - 1 and Fig. 6 - 2)

1. Place the set upside down to expose the bottom cover.
2. Remove one screw (1) retaining the bottom cover from the rear of the set.
3. Insert an ordinary(-)screwdriver into the gap in the hooks (a, b, c, d) one after another to raise the bottom cover so as to disengage it from the chassis.

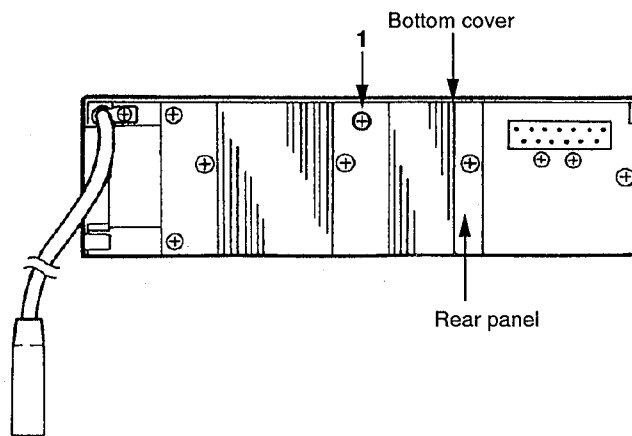


Fig. 6 - 1

■ Removal of nose piece assembly (Fig. 6 - 2)

1. Insert an ordinary(-)screwdriver into the gap in the hooks (e, f, g, h) one after another to separate the nose piece assembly from the main unit for removal.
2. The connector CP601 on the operation switch P.C. board and the connector CJ601 on the main amplifier P.C. board will be disconnected automatically.

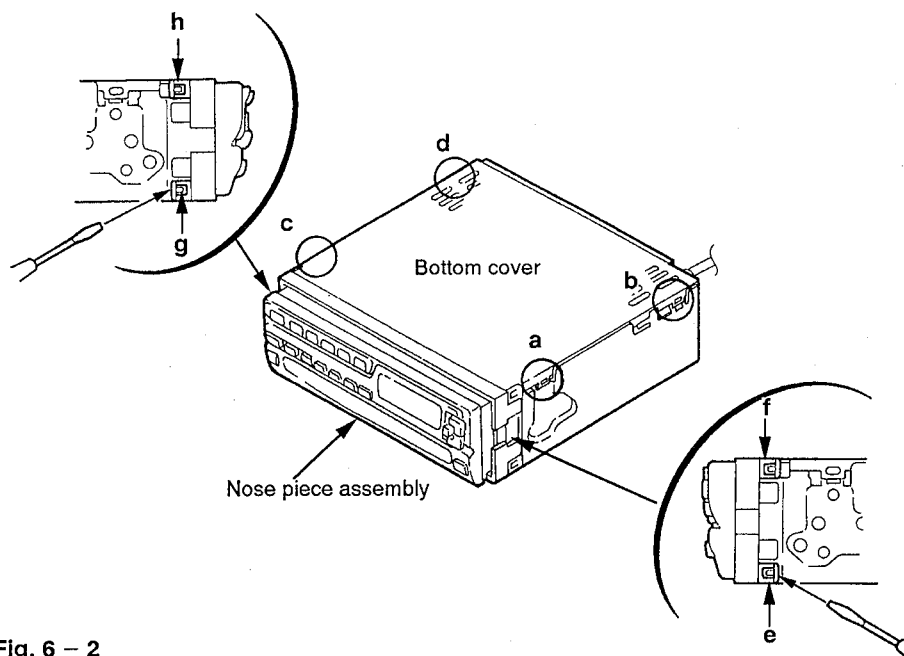


Fig. 6 - 2

■ Removal of main P.C. board assembly

(Fig.6 - 3 , 6 - 4)

1. Remove the bottom cover. (Refer to "Removal of bottom cover".)
2. Remove the nose piece assembly (Refer to "Removal of nose piece assembly")
3. Remove two screws "2" retaining the main P.C. board assembly from the rear of the set.
4. Remove two screws "3" retaining the main P.C. board.
5. Disengage two pawls(i , j) retaining the main P.C. board from the chassis.
6. Disconnect the connection between the 16pin connector CN501 on the main P.C. board and the 16pin connector on the CD mechanism control relay P.C. board, and connection between the 10pin connector CN502 on the main P.C. board and the 10pin connector on the CD mechanism control relay P.C. board respectively with an ordinary (-) screwdriver, etc.

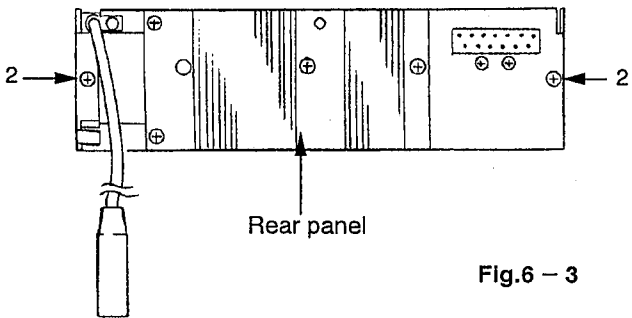


Fig.6 - 3

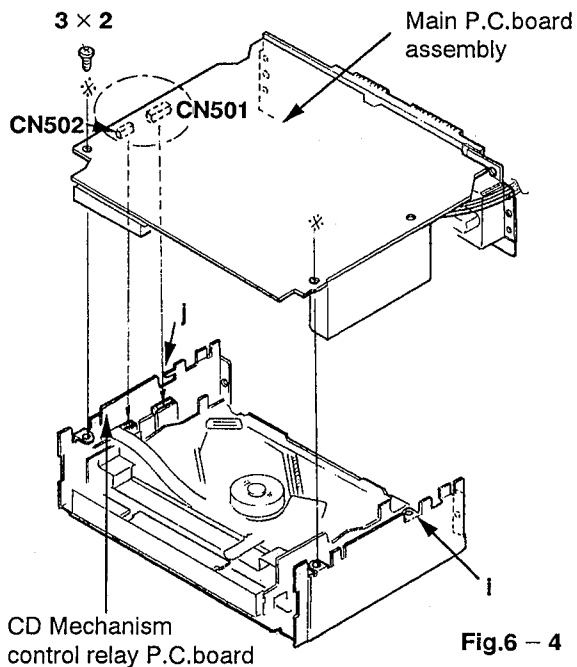


Fig.6 - 4

■ Removal of CD mechanism assembly

(Fig.6 - 5)

1. Remove the bottom cover. (Refer to "Removal of bottom cover")
2. Remove the front chassis. (Refer to front chassis".)
3. Remove the main P.C. board. (Refer to "Removal of main P.C. board".)
4. Remove four screws "4" retaining the CD mechanism assembly from the chassis.

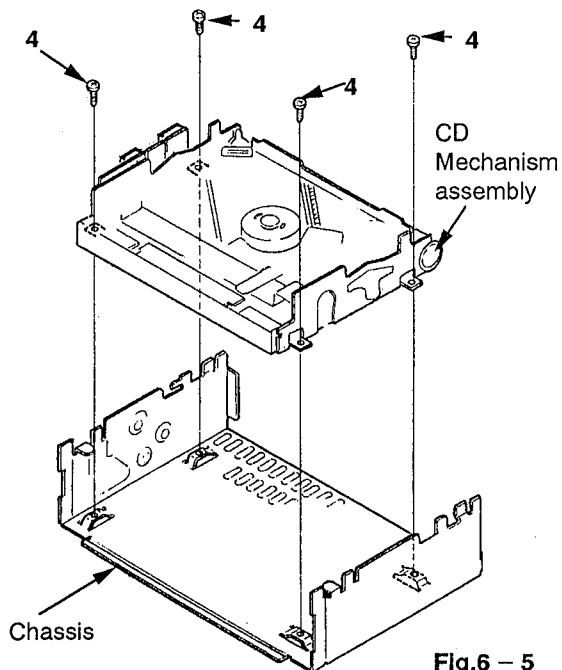


Fig.6 - 5

■ Removal of CD pickup (Fig.6 - 6, 6 - 7, 6 - 8)

1. Remove the bottom cover. (Refer to "Removal of bottom cover".)
2. Remove the CD mechanism assembly. (Refer to "Removal of CD mechanism assembly".)
3. Place the CD mechanism assembly to expose the bottom side upward, and remove a screw "6" retaining the pickup shaft (A) to remove it together with the shaft holder.
4. Loosen a screw "7" retaining the pickup shaft (A) in the other side.
5. Loosen a screw "8" retaining the pickup shaft (B).
6. Disconnect the 11pin F.P.C. wire and the 4pin F.P.C. wire respectively from the CD mechanism control relay P.C. board.
7. Take CD pickup unit out of the CD mechanism assembly.

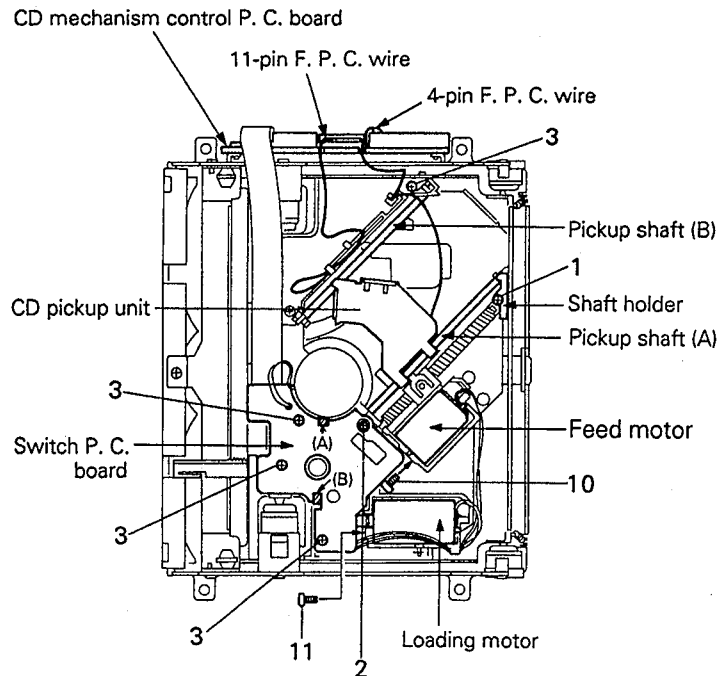


Fig. 6-6

● Cautions for removing and reassembling

- 1) For disconnecting the 11pin and 4pin F.P.C. wires, first move the connector in the direction of the arrow shown in Fig. 6 - 7.
- 2) When reassembling, arrange the 11pin and 4pin F.P.C. wires as shown in Fig. 6 - 7 and Fig. 6 - 8.

■ Removal of feed motor and loading motor assembly (Fig. 6 - 6)

1. Remove three screws "9" retaining the switch P.C. board from the CD mechanism assembly.
2. Extend two hooks (A,B) retaining the switch P.C. board in the direction of the arrow respectively to release the P.C. board from them.
3. Lift the switch P.C. board slightly upward and unsolder the blue and pink wires connected with the feed motor from the switch P.C. board.
4. Unsolder the red and black wires connected with the loading motor from the switch P.C. board.
5. Remove a screw "10" retaining the feed motor.
6. Remove a screw "11" retaining the loading motor.

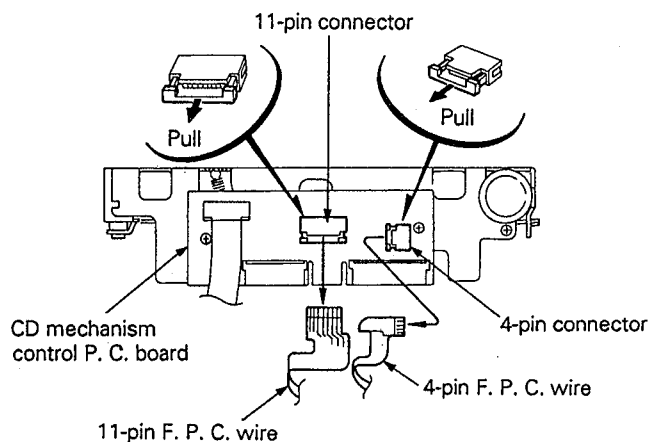


Fig. 6-7

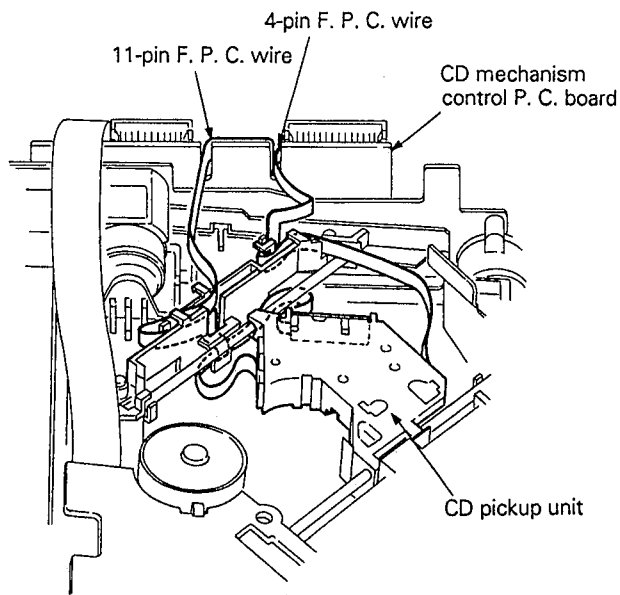


Fig. 6-8

7. Analytic Drawing and Parts List

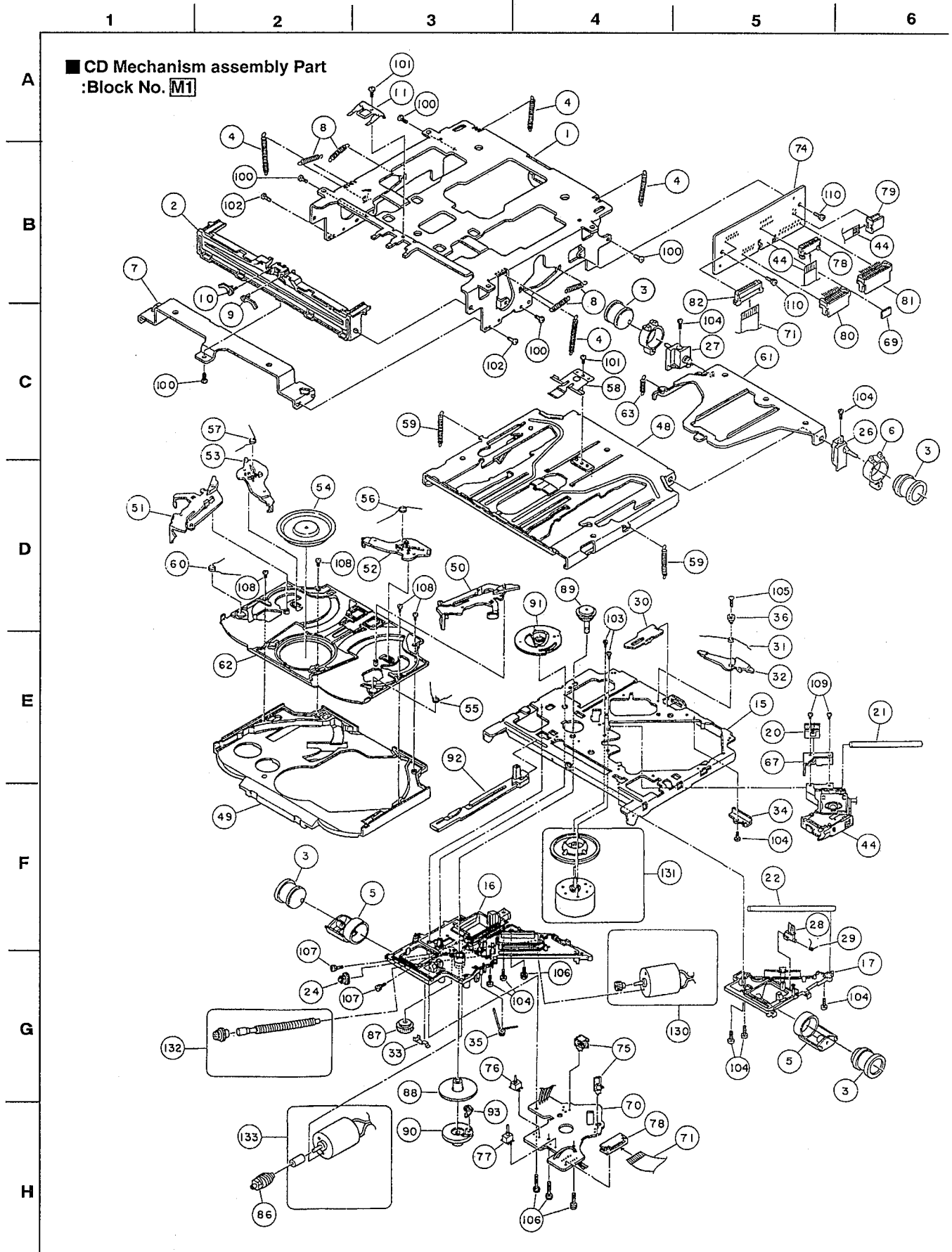


Fig. 7-1

■ CD Mechanism assembly parts list

BLOCK NO. M1M1

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|-----------|-----------------|--------------|-----|--------|-----|
| | 1 | 30300101T | CHASSIS FRAME | | 1 | | |
| | 2 | 30300102T | DISC GUIDE | | 1 | | |
| | 3 | 30300104T | DAMPER | | 4 | | |
| | 4 | 30300105T | TORSION SPRING | "A" | 4 | | |
| | 5 | 30300108T | CONTROL BRACKET | | 2 | | |
| | 6 | 30300109T | CONTROL BRACKET | | 2 | | |
| | 7 | 30300110T | GUIDE BRACKET | | 1 | | |
| | 8 | 30300111T | TORSION SPRING | | 4 | | |
| | 9 | 30300113T | DISC STOPPER R | | 1 | | |
| | 10 | 30300114T | DISC STOPPER | | 1 | | |
| | 11 | 30300115T | SPRING PLATE | | 1 | | |
| | 15 | 30300501T | DISK BASE | | 1 | | |
| | 16 | 30300502T | STOPPER BASE | | 1 | | |
| | 17 | 30300503T | BRACKET GUIDE | | 1 | | |
| | 18 | 30300504T | TURN TABLE | | 1 | | |
| | 19 | 30300505T | FEED SCREW | | 1 | | |
| | 20 | 30300506T | NUT | | 1 | | |
| | 21 | 30300507T | DRIVE SHAFT(A) | | 1 | | |
| | 22 | 30300508T | DRIVE SHAFT(B) | | 1 | | |
| | 23 | 30300509T | PU GEAR(A) | | 1 | | |
| | 24 | 30300510T | PU GEAR(B) | | 1 | | |
| | 25 | 30300511T | PU GEAR(C) | | 1 | | |
| | 26 | 30300512T | COVER BRACKET R | T GUIDE BASE | 1 | | |
| | 27 | 30300513T | COVER BRACKET L | T GUIDE BASE | 1 | | |
| | 28 | 30300514T | LOCK STOPPER | | 1 | | |
| | 29 | 30300515T | LEVER SPRING | | 1 | | |
| | 30 | 30300516T | CLAMP | | 1 | | |
| | 31 | 30300517T | TORSION SPRING | | 1 | | |
| | 32 | 30300518T | SWING PLATE | | 1 | | |
| | 33 | 30300519T | SWING PLATE | | 1 | | |
| | 34 | 30300520T | JOINT HOLDER | | 1 | | |
| | 35 | 30300521T | TORSION SPRING | | 1 | | |
| | 36 | 30300522T | COLLAR | | 1 | | |
| | 42 | 60020715T | MOTOR | | 2 | | |
| | 43 | 60020904T | MOTOR | | 1 | | |
| | 44 | 69011603T | PICK UP | OPTIMA60MZ | 1 | | |
| | 48 | 30300601T | STOPPER BASE | | 1 | | |
| | 49 | 30300602T | STOPPER BASE | | 1 | | |
| | 50 | 30300604T | SELECT ARM R | | 1 | | |
| | 51 | 30300605T | SELECT ARM L | | 1 | | |
| | 52 | 30300606T | STOPPER R | | 1 | | |
| | 53 | 30300607T | STOPPER L | | 1 | | |
| | 54 | 30300608T | CLAMP | | 1 | | |
| | 55 | 30300609T | TORSION SPRING | | 1 | | |
| | 56 | 30300610T | TORSION SPRING | | 1 | | |
| | 57 | 30300611T | TORSION SPRING | | 1 | | |
| | 58 | 30300612T | SPRING PLATE | | 1 | | |
| | 59 | 30300613T | TORSION SPRING | | 2 | | |
| | 60 | 30300614T | TORSION SPRING | | 1 | | |
| | 61 | 30300616T | TIMING ARM | | 1 | | |
| | 62 | 30300618T | CONNECTOR COVER | | 1 | | |
| | 63 | 30300617T | TORSION SPRING | | 1 | | |
| | 67 | 30300701T | JOINT HOLDER | | 1 | | |
| | 69 | 19500834T | FFC TAPE | | 1 | | |

BLOCK NO. M1MM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|------------|---------------|----------|-----|--------|-----|
| 70 | 30301001T | PRINTED BOARD | | 1 | | |
| 71 | 30301003T | F-FFC | | 1 | | |
| 72 | 30301004T | WIRE(F) | | 1 | | |
| 73 | 30301005T | WIRE(L) | | 1 | | |
| 74 | 30301006T | PRINTED BOARD | | 1 | | |
| 75 | 64020413T | PUSH SWITCH | | 2 | | |
| 76 | 64020414T | PUSH SWITCH | | 1 | | |
| 77 | 64020415T | PUSH SWITCH | | 1 | | |
| 78 | 681402156T | CONN.TERMINAL | | 2 | | |
| 79 | 681402158T | CONN.TERMINAL | | 1 | | |
| 80 | 68150225T | CONN.TERMINAL | | 1 | | |
| 81 | 68150226T | CONN.TERMINAL | | 1 | | |
| 82 | 68170211T | CONN.TERMINAL | | 1 | | |
| 86 | 30301101T | LOADING GEAR | | 1 | | |
| 87 | 30301102T | LOADING GEAR | | 1 | | |
| 88 | 30301103T | LOADING GEAR | | 1 | | |
| 89 | 30301104T | LOADING GEAR | | 1 | | |
| 90 | 30301105T | CLUTCH DISK | | 1 | | |
| 91 | 30301108T | CAM GEAR | | 1 | | |
| 92 | 30301109T | GEAR PLATE | | 1 | | |
| 93 | 30301110T | SELECT LEVER | | 1 | | |
| 94 | 30301111T | GEAR BOSS | LOADING | 1 | | |
| 100 | 9B1220051T | TAPPING SCREW | M2X5 | 5 | | |
| 101 | 9C0420253T | SCREW | M2X2.5 | 2 | | |
| 102 | 9P0420041T | SCREW | M2X4 | 2 | | |
| 103 | 9C0117223T | SCREW | M1.7X2.2 | 2 | | |
| 104 | 9C2220603T | TAPPING SCREW | M2X6 | 8 | | |
| 105 | 9C3720803T | TAPPING SCREW | M2X8 | 1 | | |
| 106 | 9C3920013T | TAPPING SCREW | M2X11 | 4 | | |
| 107 | 9P0220041T | SCREW | M2X4 | 2 | | |
| 108 | 9C3817403T | TAPPING SCREW | M1.7X4 | 4 | | |
| 109 | 9C0117225T | TAPPING SCREW | | 2 | | |
| 110 | 9P1220051T | TAPPING SCREW | | 2 | | |
| 130 | 303005301T | DRIVE MOTOR | | 1 | | |
| 131 | 303005302T | DRIVE MOTOR | | 1 | | |
| 132 | 303005303T | SCREW | | 1 | | |
| 133 | 303011301T | LOADING MOTOR | | 1 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

1 2 3 4 5

■ Enclosure assembly part : Block No. **M2**

A

B

C

D

E

F

G

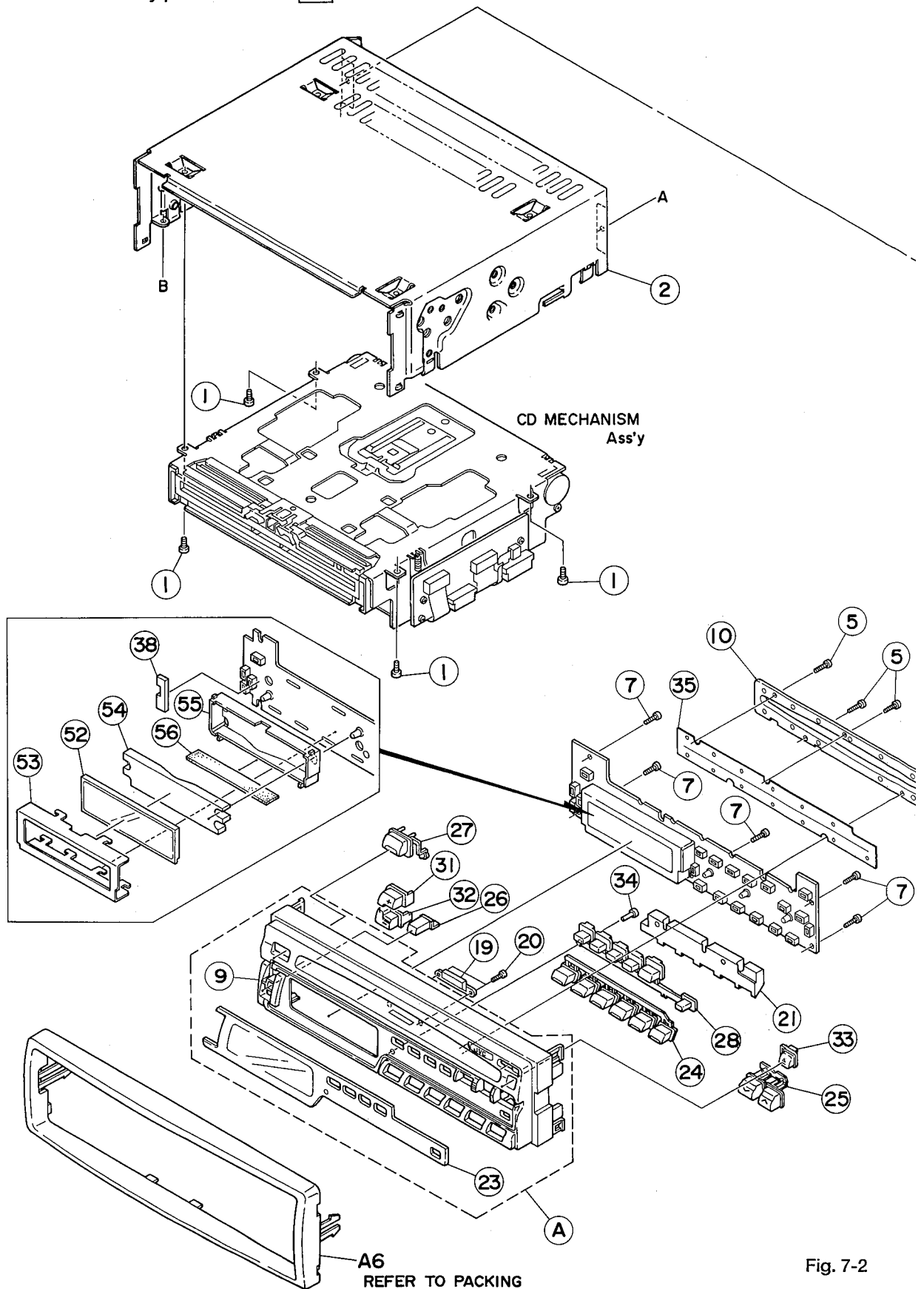


Fig. 7-2

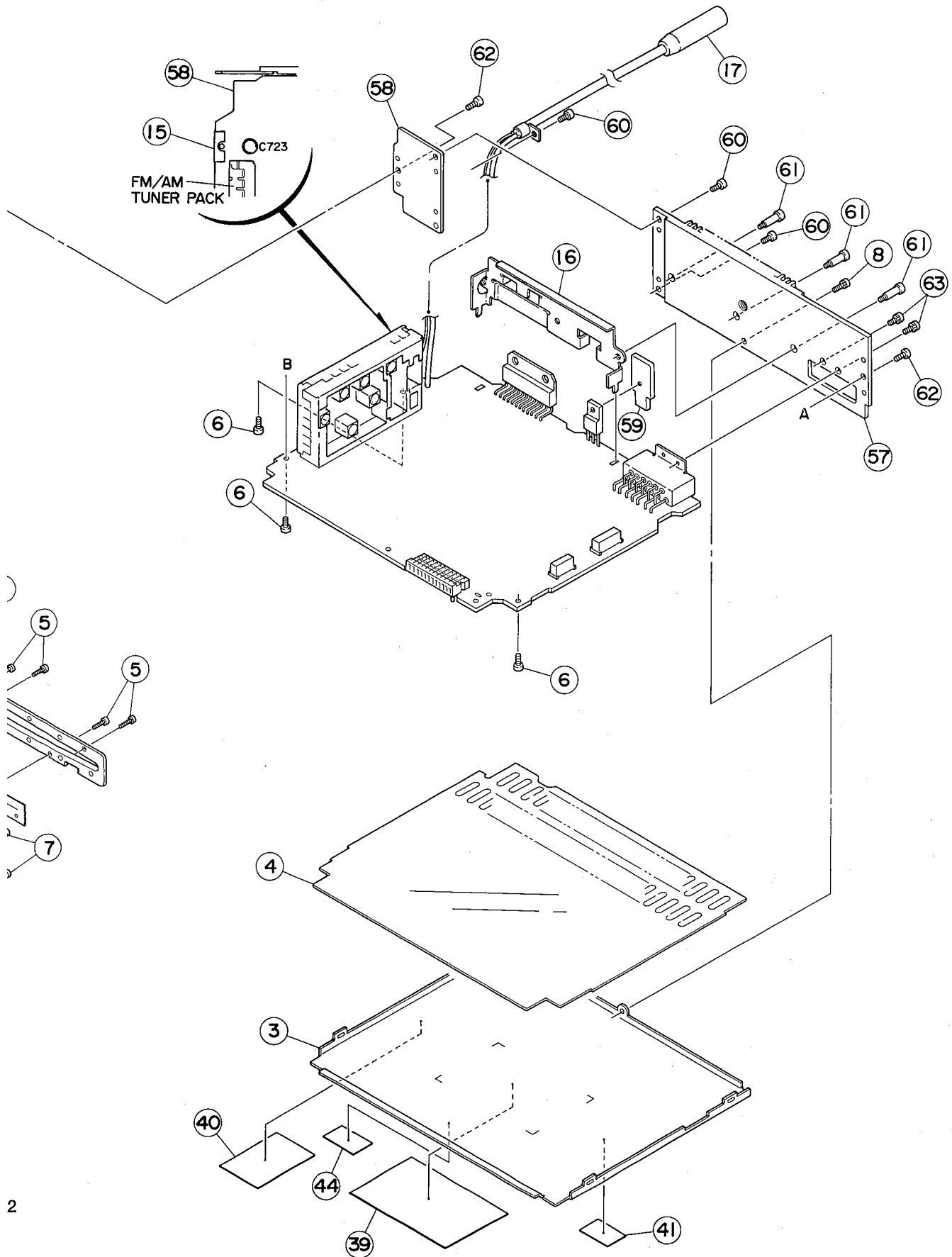
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7

8

9

10



■ Enclosure assembly parts list

BLOCK NO. M2MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|----------------|-----------------|-----------------|-----|--------|-----|
| | A | ZCKDGS40J-NPA | NOSE PIECE ASSY | REF.9,23 | 1 | | |
| | 1 | SDST2604Z | SCREW | MECHA.+CHASSIS | 4 | | |
| | 2 | VKL1423-001SS | CHASSIS | | 1 | | |
| | 3 | VKM3798-001SS | BOTTOM COVER | | 1 | | |
| | 4 | VMA3218-001 | INSULATOR | | 1 | | |
| | 5 | SPSN1755N | MINI SCREW | DETACH BUTTON | 5 | | |
| | 6 | VKZ4345-002 | SPECIALSCREW | MAIN BOARD+SIDE | 3 | | |
| | 7 | SPSN1755N | MINI SCREW | | 5 | | |
| | 8 | LPSP2608Z | SCREW | REAR SIDE BOTTO | 1 | | |
| | 9 | VJG1299-001SS | NOSE PIECE | | 1 | | |
| | 10 | VKS3683-001 | DISC GUIDE | | 1 | | |
| | 15 | VKL7752-002 | EARTH PLATE | | 1 | | |
| | 16 | VKL7650-002 | IC BRACKET | | 1 | | |
| | 17 | VMP0029-026T | ANTENNA SOCKET | | 1 | | |
| | 19 | VJK3646-001SS | LIGHT LENS | | 1 | | |
| | 20 | SPSN1755N | MINI SCREW | | 2 | | |
| | 21 | VJK2196-001SS | BUTTON LENS | | 1 | | |
| | 23 | VJK2192-002SS | FINDER | | 1 | | |
| | 24 | VXP2091-001 | PRESET BUTTON | | 1 | | |
| | 25 | VXP3603-002 | UP DOWN BUTTON | | 1 | | |
| | 26 | VXP3656-001SS | SEL BUTTON | | 1 | | |
| | 27 | VXP3605-001 | POWER BUTTON | A.HBS/MANU | 1 | | |
| | 28 | VXP3657-001SS | ILL BUTTON | | 1 | | |
| | 31 | VXP3611-002 | + BUTTON | | 1 | | |
| | 32 | VXP3612-002 | - BUTTON | | 1 | | |
| | 33 | VXP3659-001 | EJECT BUTTON | | 1 | | |
| | 34 | VXP5251-001SS | RESET BUTTON | | 1 | | |
| | 35 | VYTA513-001 | BLIND(P) | | 1 | | |
| | 38 | VYTH529-001 | BUTTON CUSHION | SELECT BUTTON | 1 | | |
| | 39 | VYN3491-S001SA | NAME PLATE | | 1 | | |
| | 40 | VND4922-007 | CAUTION LABEL | | 1 | | |
| | 41 | VND5008-001 | FCC LABEL(4) | | 1 | | |
| | 44 | E407097-002 | HYATT L.LABEL | J ONLY | 1 | J | |
| | 52 | VGL1159-001 | LCD | | 1 | | |
| | 53 | VKM3796-001 | LCD CASE | | 1 | | |
| | 54 | VJK3622-002 | LCD LENS | | 1 | | |
| | 55 | VKS3647-003 | LENS CASE | | 1 | | |
| | 56 | VMZ0124-001E | LCD CONNECTOR | | 1 | | |
| | 57 | VJC3262-001 | REAR PANEL | | 1 | | |
| | 58 | VKL7751-001 | ANTENNA BRACKET | | 1 | | |
| | 59 | VMH4041-001 | HEAT SINK | | 1 | | |
| | 60 | SDST2606Z | SCREW | | 2 | | |
| | | SDST2606Z | SCREW | | 1 | | |
| | 61 | VKZ4553-002 | SPECIAL SCREW | | 3 | | |
| | 62 | SDST2606Z | SCREW | FRONT+SIDE(L,R) | 2 | | |
| | 63 | LPSP2608Z | SCREW | | 2 | | |
| | | | | | | | |
| | | | | | | | |

8. Main Adjustment

■ Test Instruments required for adjustment

1. Digital oscilloscope(100 MHz)
2. AM Standard signal generater
3. FM Standard signal generater
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Test Disc..... JVC : CTS - 1000
9. Extension cable for check EXT - GS001KIT

■ Measuring conditions (Amplifier section)

- Power supply voltage..... DC14.4V(10.5~16V)
- Load impedance..... 4 Ω (SPEAKER OUT:2ch)
- Output level..... 1.5V(Speaker out)

● Standard volume position

- Balance Center
- Fader Center
- Tone Flat

Manual tuning up/down frequency

- FM : 0.2MHz step
- AM : 10kHz step

Setting of referance frequency of SSG

- AM 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 |
| AM(kHz) | 530 | 600 | 1000 | 1500 | 1710 |

■ Tuner section

■ Arrangement of adjusting positions (Test point : refer to page 38.)

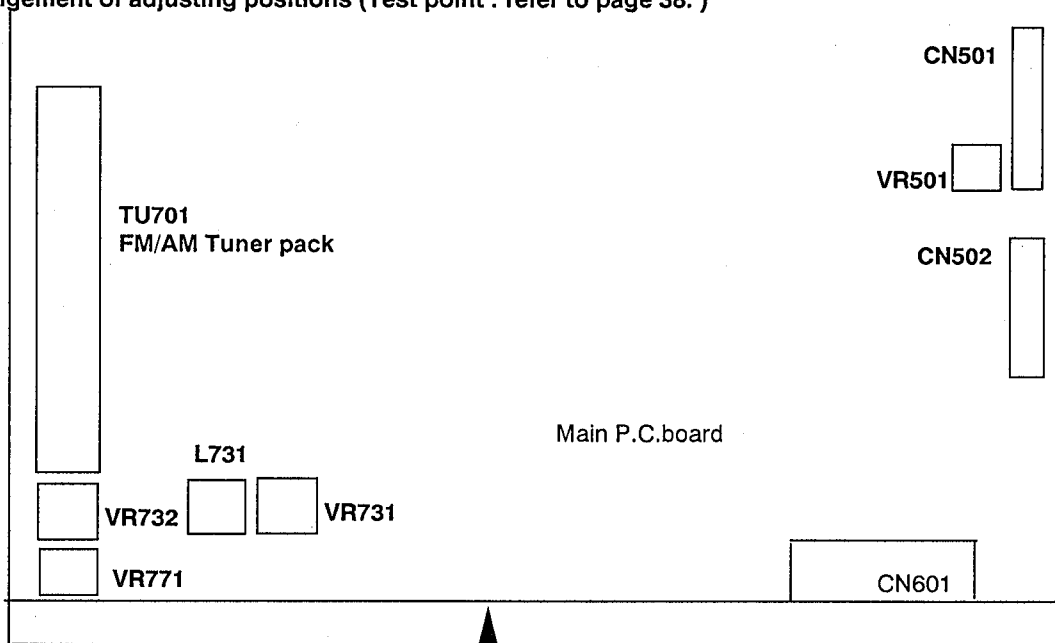


Fig. 8 - 1

■ Connecting procedures of extension cables for check and abjustment

1. Remove the bottom cover. (Refer to "Removal of bottom cover".)
2. Remove the nose piece assembly. (Refer to "Removal of nose piece assembly".)
3. Remove the main P.C. board assembly. (Refer to "Removal of main P.C. board assembly".)
4. Remove the CD mechanism assembly. (Refer to "Removal of CD mechanism assembly".)
5. Fit the nose piece assembly to the main P.C. board assembly with 12 pin connector CN601.
6. Referring to Fig. 8 - 3, connect the 16pin connector on the CD mechanism relay P.C. board with the 16pin connector CN501 on the main P.C. board with the 16pin connector extensin

cable, while connect the 10pin connector on the CD mechanism relay P.C. board and the 10pin connector CN502 on the main P.C. board with the 10pin connector extension cable, respectively.

7. For convenience of check and adjustment, plase the CD mechanism assembly on an empty case and the like as shown in Fig.8 - 3.

8. Connect the 13pin cord connector to the set, and also connect the antenna, speakers, power supply necessary for check and adjustment. (Fig.8 - 3)

9. Load the CD mechanism with the test disc CTS - 1000. (Fig.8 - 3)

■ Breakdown of Extension cable kit (Parts number : EXT - GS001KIT)

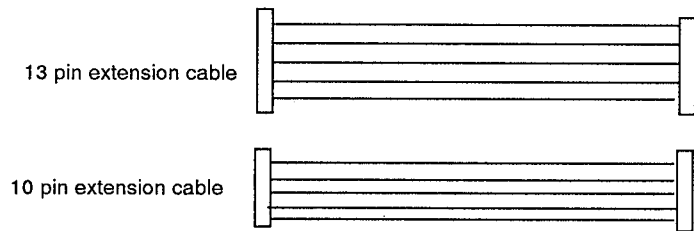


Fig. 8 - 2

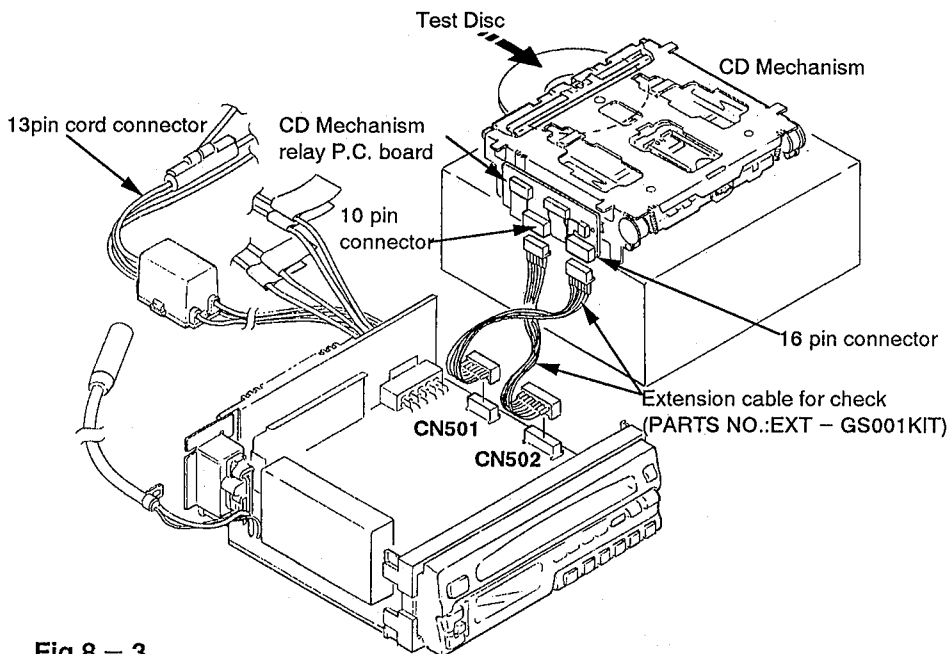


Fig.8 - 3

■ CD Section

| Item | Conditions | Adjustment and Confirmation | Standard Value | Adjusting |
|--|---------------------------------------|---|-------------------------|-----------|
| 1. TOC check | Oscilloscope | 1. Confirm lighting illumination by power on. 2. Not to occur unclear indication and uneven lighting of LCD. | | |
| 2. AF level (eye-pattern) check | Measuring instruction Oscilloscope | 1. Connect the oscilloscope between TP1 and TP2 to confirm that peak-to-peak value of eye-pattern waveform is within $1.5V \pm 300mV$ | Within $1.5V \pm 300mV$ | |
| 3. Tracking offset adjustment Measuring instruction Oscilloscope | | Adjustment procedure 1. Connect the oscilloscope between TP2 and TP3 . 2. Play back the disc. 3. Short circuit TP2 and TP4. 4. Adjust VR501 so that the DC level of the tracking error signal (oscilloscope waveform) becomes zero. when the tracking offset meter is used for measurement, it should read "0" (zero). Note : Adjust VR501 so that the waveform is vertically symmetric about the zero level. use a direct coupling oscilloscope input. | zero level | VR501 |
| 4. Outermost circumference | | 1. Directly access the outer circumference track 31, check that play is performed normally and that abnormalities including sound jumping do NOT occur. | | |
| 5. Outer to inner circumference | | 1. Skip from the outer circumference track 24 (also possible with other disc's outermost circumference) to track 1 and check the time till play starts. Normally it is less than 5 seconds. | | |

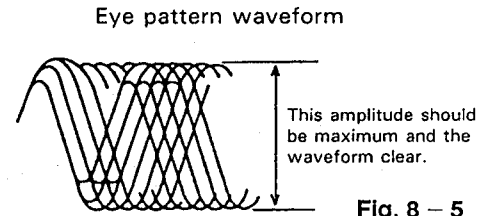


Fig. 8 - 5

Tracking offset waveform

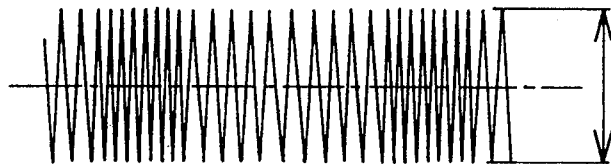


Fig. 8 - 6

■ Tuner Section

| Item | Conditions | Adjustment and Confirmation | Standard Value | Adjusting |
|---|---|---|--------------------------------------|-----------|
| 1. 0V adjustment | Mesuring instructions FM SSG | 1. Adjust L731 to get TP702 DC level 0 ± 10 mV when receiving signal. 2. Confirm DC level 0 ± 30 mV after adjust. | DC level 0 ± 30 mV | L731 |
| 2. SD adjustment | Mesuring instructions FM SSG : 97.9MHz, 52dB | Adjust VR771 to get TP703 volt 3.4 ± 0.1 V when receiving signal. | 3.4 ± 0.1 V | VR771 |
| 3. Separation adjustment | Mesuring instructions FM SSG : 97.9MHz, 60dB | Adjust VR731 so that the deviation between Lch and Rch should be maximum when receiving signal. | deviation : maximum | VR731 |
| 4. Usable sensitivity | Mesuring instructions | 1. FM : With 97.9 MHz 20 dB reception, the output difference between MOD ON/OFF should be more than 30 dB. 2. AM : With 1000 kHz 36 dB reception, the output difference between MOD ON/OFF should be more than 20 dB. | more than 30 dB. more than 20 dB. | |
| 5. Signal to Noise ratio/Inter-station muting | Mesuring instructions FM SSG | 1. With FM reference input reception, the output difference between MOD ON/OFF should be more than 52 dB. 2. When SSG output is changed from 66 dB to -19 dB, the output difference should be more than 10 dB. 3. With AM reference input reception, the output difference between MOD ON/OFF should be more than 46 dB. | more than 52 dB. | |
| 6. Stereo separation / blend | Mesuring instructions FM SSG STEREO modulator | 1. When the reference input of stereo reference modulation is received, the separation should be more than 24 dB. 2. Separation 20 dB input should be in the range of 49 to 55 dB. 3. When the MODE and MO buttons are pressed, check that a monaural broadcast is heard. Also check that the MONO and MO indicators light in the LCD display. 4. When the MODE and MO buttons are pressed again, check that a stereo broadcast is heard. Also check that the STEREO and ST indicators light in the LCD display. | more than 24 dB. | |

9. Block Diagram

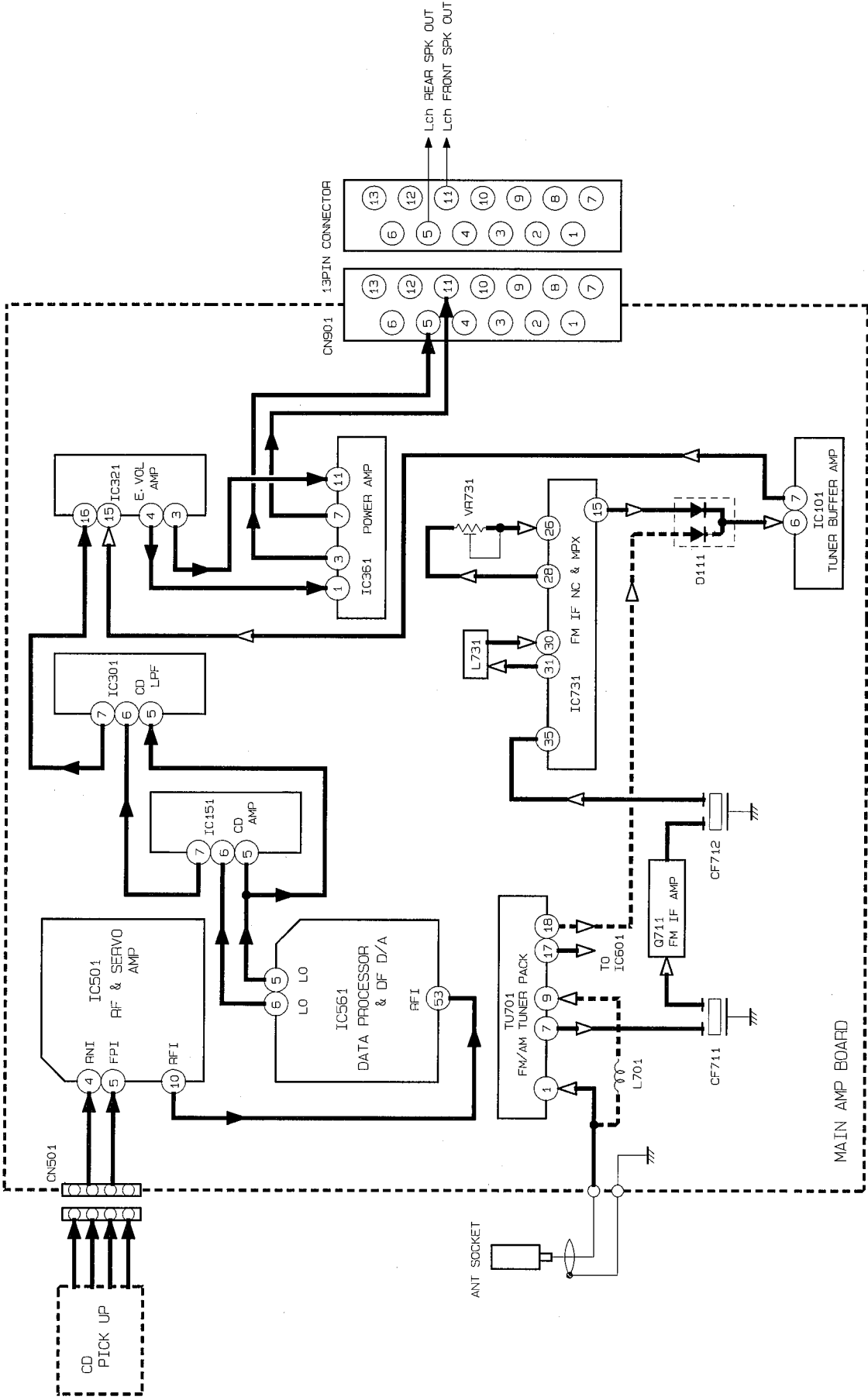
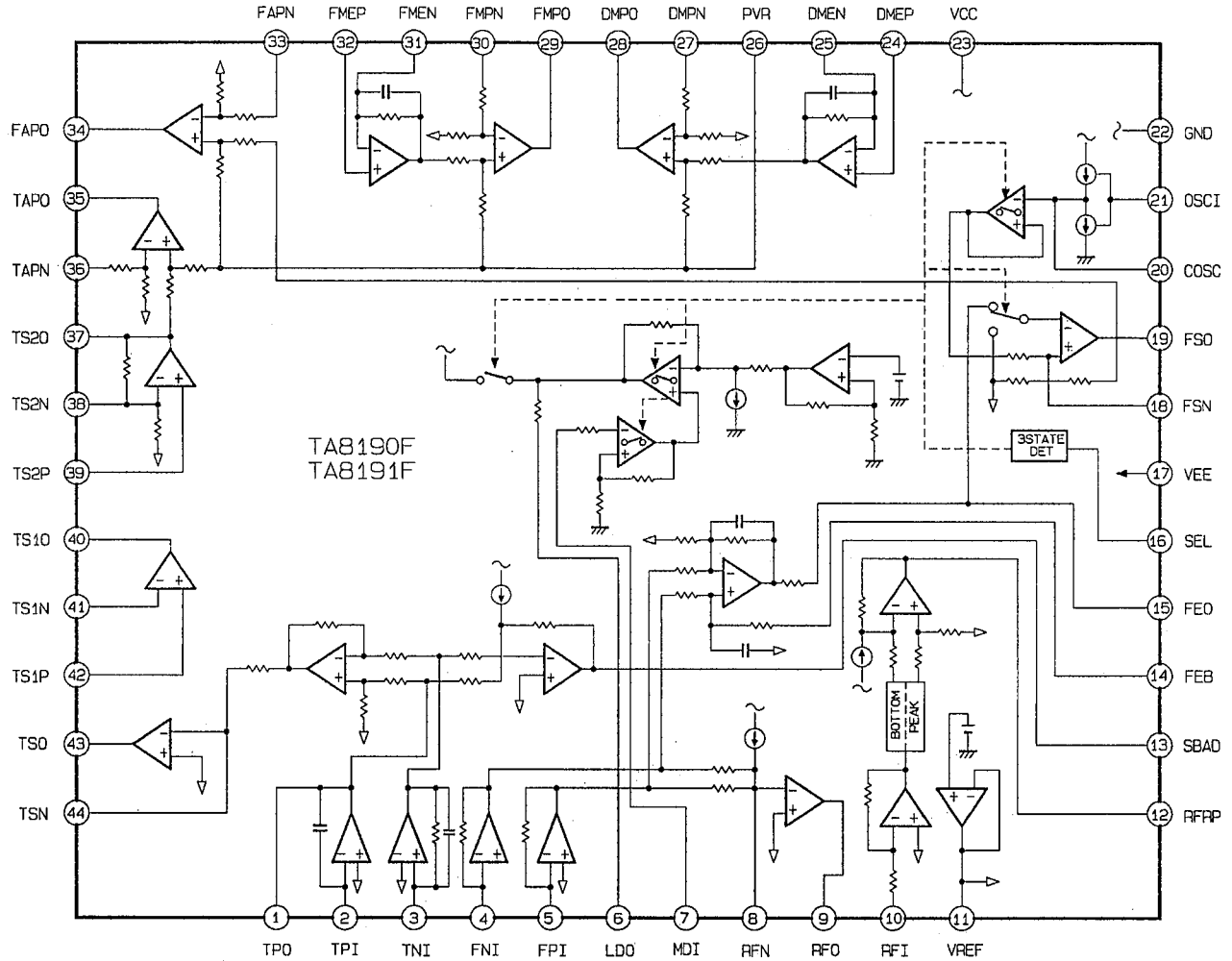


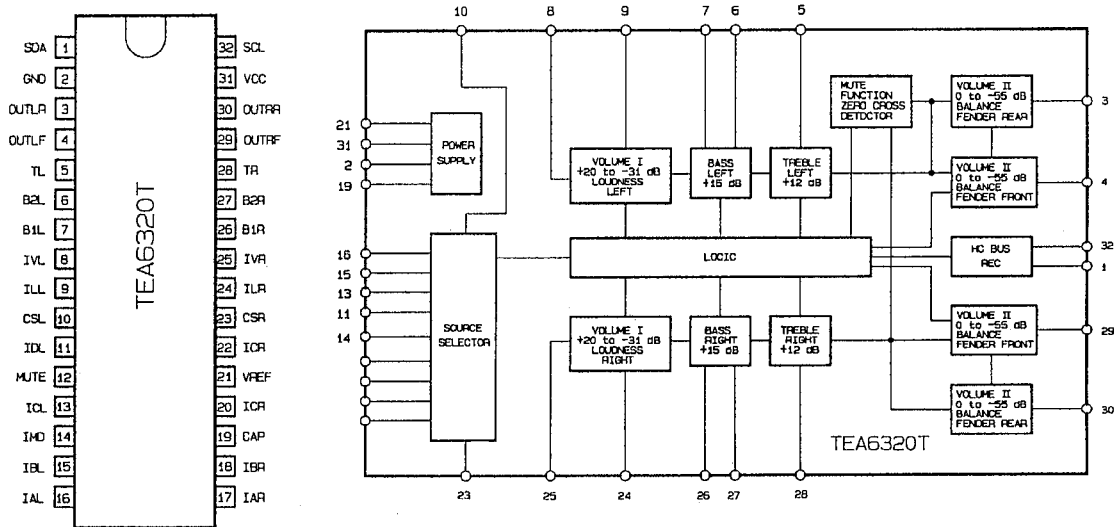
Fig. 9-1

■ Main IC block diagram

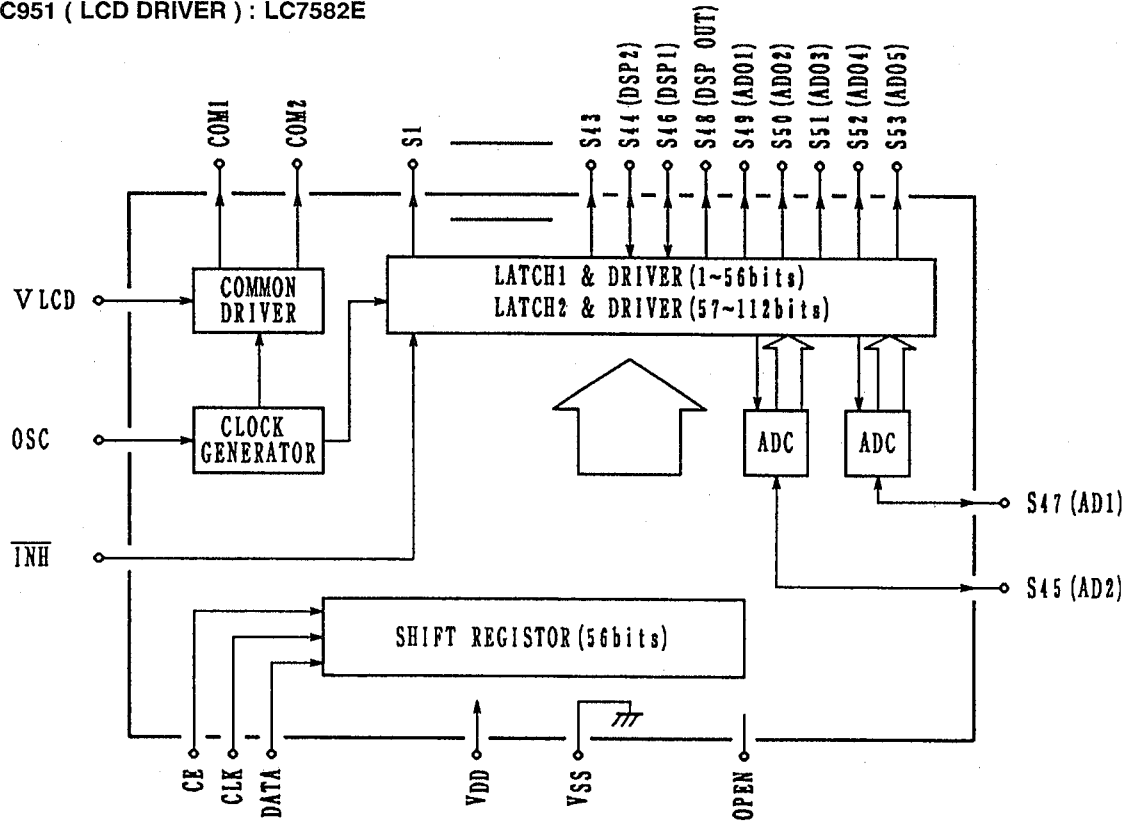
● IC501 (CD RF & SERVO AMPLIFIER) : TA8191F



● IC321 (ELECTRICAL VOLUME) : TEA6320T



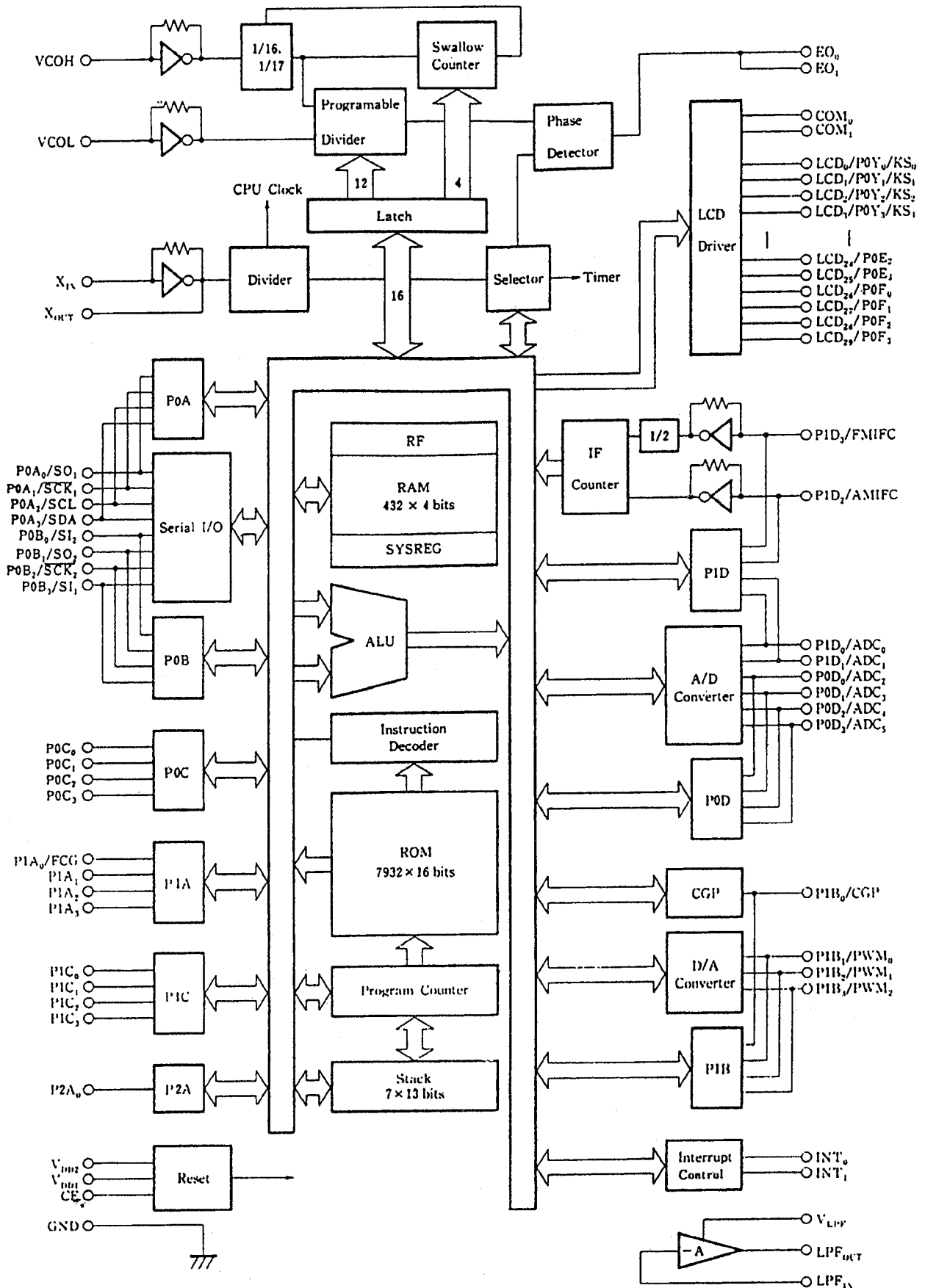
● IC951 (LCD DRIVER) : LC7582E



● Pin Description

- S1 to S43 : Segment output pin
- S46(DSP1), S44(DSP2) : Segment output or DSP input pin
- S47(AD1), S45(AD2) : Segment output or AD input pin
- S48(DSPOUT) : Segment output or DSP output pin
- S49 to S53 : Segment output or AD output pin
- COM 1, 2 : Common output pin (COM1 only is used for 1/1 duty)
- V_LCD : LCD bias voltage setting pin
- OSC : OSC pin
- CE, CLK, DATA : Input pin for serial data transfer
- VSS, VDD : Power supply pin
- INH : Display blanking input pin (Available for output driver only . Therefore, serial data can be also transferred during unlighting.)
- OPEN : No connection

● IC601 (DIGITAL TUNING SYSTEM) : μ PD17005GF - E25

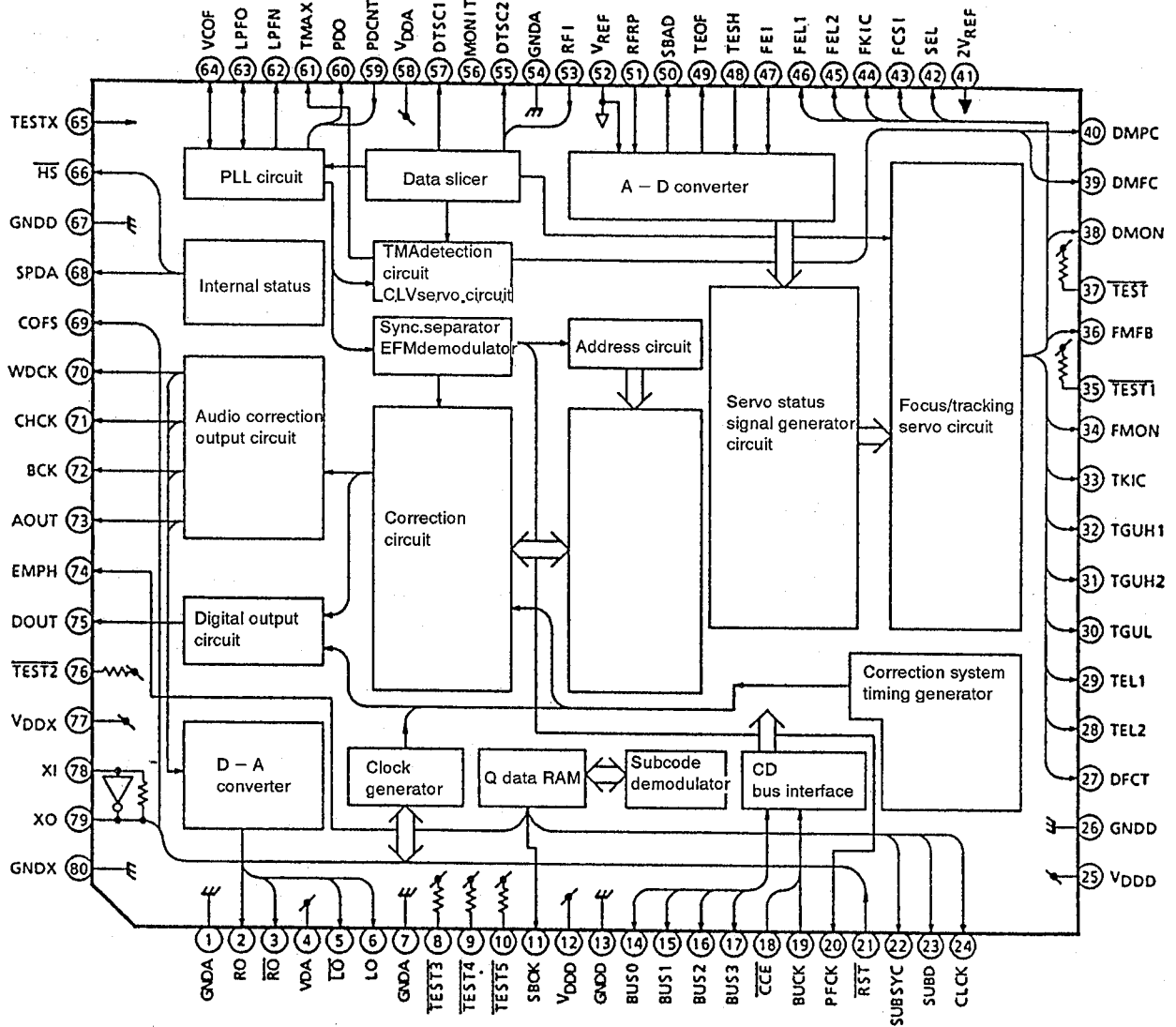


■ Pin function of system control IC (IC601 : μ PD17005GF – E25)

| PIN No. | Name of Signal | I/O of micon. | I/O of unit | Initialize after reset | Active mode | Pin function |
|---------|---------------------|---------------|-------------|------------------------|-------------|--|
| 1 | L. FINISH | I | | | L | Detect to the Loading finish and switch. |
| 2 | REST | I | | | L | Detect the Rest switch |
| 3 | SDA | I/O | | | | Electrical volume , data input and output. |
| 4 | SCL | O | | | | Electrical volume , clock output. |
| 5 | | I/O | | | | |
| 6 | | O | | | | |
| 7 | | I | | | | |
| 8 | DETACH | I | | | H | Detachable panel release detection |
| 9 | TEI | I | | | L | Detect to the telephone car used |
| 10 | ST | I | | | L | FM/AM radio ST signal input |
| 11 | POWER ON | I | | | | Detect when compel power on to do. |
| 12 | ACC | I | | | H | Detect the accessories. |
| 13 | CE | I | | | H | Micon chip inable terminal |
| 14 | BUS 3 | I/O | | | | Data input and output signal 3 with TC9236 |
| 15 | BUS 2 | I/O | | | | Data input and output signal 2 with TC9236 |
| 16 | BUS 1 | I/O | | | | Data input and output signal 1 with TC9236 |
| 17 | BUS 0 | I/O | | | | Data input and output signal 0 with TC9236 |
| 18 | LSI RESET | O | | | L | Reset signal output TC9236 |
| 19 | BUCK | O | | | | Output clock signal with TC9236 |
| 20 | CCE | O | | | L | Output chip inable signal with TC9236 |
| 21 | | O | | | | |
| 22 | AGC | O | | | H | Output AGC control signal. |
| 23 | MONO | O | | | L | Output MONORALcontrol signal. |
| 24 | BAND 1 | O | | | H | Output FM/AM band select signal. |
| 25 | BAND 2 | O | | | H | Output LW/SDK band select signal. |
| 26 | FM IF COUNT | I | | | H | Output FM IF count signal. |
| 27 | AM IF COUNT | I | | | H | Output AM IF count signal. |
| 28 | SM IN | I | | | H | Input SM signal. |
| 29 | SD IN | I | | | H | Input Station Detector signal. |
| 30 | V _{DD1} | | | | | Power supply terminal 1 |
| 31 | AM OSC | I | | | H | Input AM local OSC signal |
| 32 | FM OSC | I | | | H | Input FM local OSC signal |
| 33 | GND | | | | | Ground potential |
| 34 | X _{OUT} | O | | | | 4.5MHz crystal oscillator connection pin(Output) |
| 35 | X _{IN} | I | | | | 4.5 MHz crystal oscillator connection pin(Input) |
| 36 | ERROR OUT 1 | O | | | | Output PLL error signal 1 |
| 37 | ERROR OUT 2 | O | | | | Output PLL error signal 2 |
| 38 | LPF IN | I | | | | Input LPF signal for biltin PLL |
| 39 | LPF OUT | O | | | | Output LPF signal for biltin PLL |
| 40 | LPF V _{DD} | | | | | LPF Power supply terminal for PLL |
| 41 | V _{DD} | | | | | Power supply terminal 2 |
| 42 | | O | | | | |
| 43 | | O | | | | |
| 44 | | O | | | | |
| 45 | | O | | | | |
| 46 | SCK | O | | | | Output clock signal for LCD driver |
| 47 | DATA | O | | | | Output data signal for LCD driver |

| PIN No. | Name of Signal | I/O of micon. | I/O of unit | Initialize after reset | Active mode | Pin function |
|---------|----------------|---------------|-------------|------------------------|-------------|---|
| 48 | LCD CE | O | | | L | Output the chip inable signal for LCD driver |
| 49 | | O | | | | |
| 50 | | O | | | | |
| 51 | LM 1 | O | | | H | Output the control signal 1 for the loading motor. |
| 52 | LM 0 | O | | | H | Output the control signal 0 for the loading motor. |
| 53 | RELAY | O | | | L | Output the relay control signal for power supply |
| 54 | CD ON | O | | | H | Output the power supply control signal for CD |
| 55 | CD REMOTE | O | | | H | Output the remote for CD play |
| 56 | TU REMOTE | O | | | H | Output the antenna remote for Tuner |
| 57 | MUTE | O | | | L | Output the mute control signal for the voice |
| 58 | | O | | | | |
| 59 | | O | | | | |
| 60 | | O | | | | |
| 61 | | O | | | | |
| 62 | | O | | | | |
| 63 | | O | | | | |
| 64 | | O | | | L | |
| 65 | | O | | | L | |
| 66 | | O | | | | |
| 67 | AM UPCON | O | | | | Detect to the existence select for AM conversion up |
| 68 | AM IF COUNT | O | | | | Detect to the existence count for AM IF |
| 69 | FM IF COUNT | O | | | | Detect to the existence count for FM IF |
| 70 | AREA 2 | O | | | | Detect to the insitute 2 for area suffix |
| 71 | AREA 1 | O | | | | Detect to the insitute 1 for area suffix |
| 72 | TUNER SELECT | O | | | | Detect to the existence select for tuner |
| 73 | CLOCK SELECT | O | | | | Detect to the select for the 12 or 24 hour |
| 74 | CLOCK MODE | O | | | | Detect to the existence select for clock |
| 75 | INITIAL SW | O | | | | Input the initial insitute |
| 76 | KEY 3 | I | | | | Key AD input terminal 3 |
| 77 | KEY 2 | I | | | | Key AD input terminal 2 |
| 78 | KEY 1 | I | | | | Key AD input terminal 1 |
| 79 | DISC SELECT | I | | | H | Detect the select for the 8 cm disc |
| 80 | L. START | I | | | L | Detect the start switch for the loading |
| | | | | | | |
| | | | | | | |

● IC561 (DATA PROCESSOR & DF. D/A) : TC9284AF



10. Wiring Connections

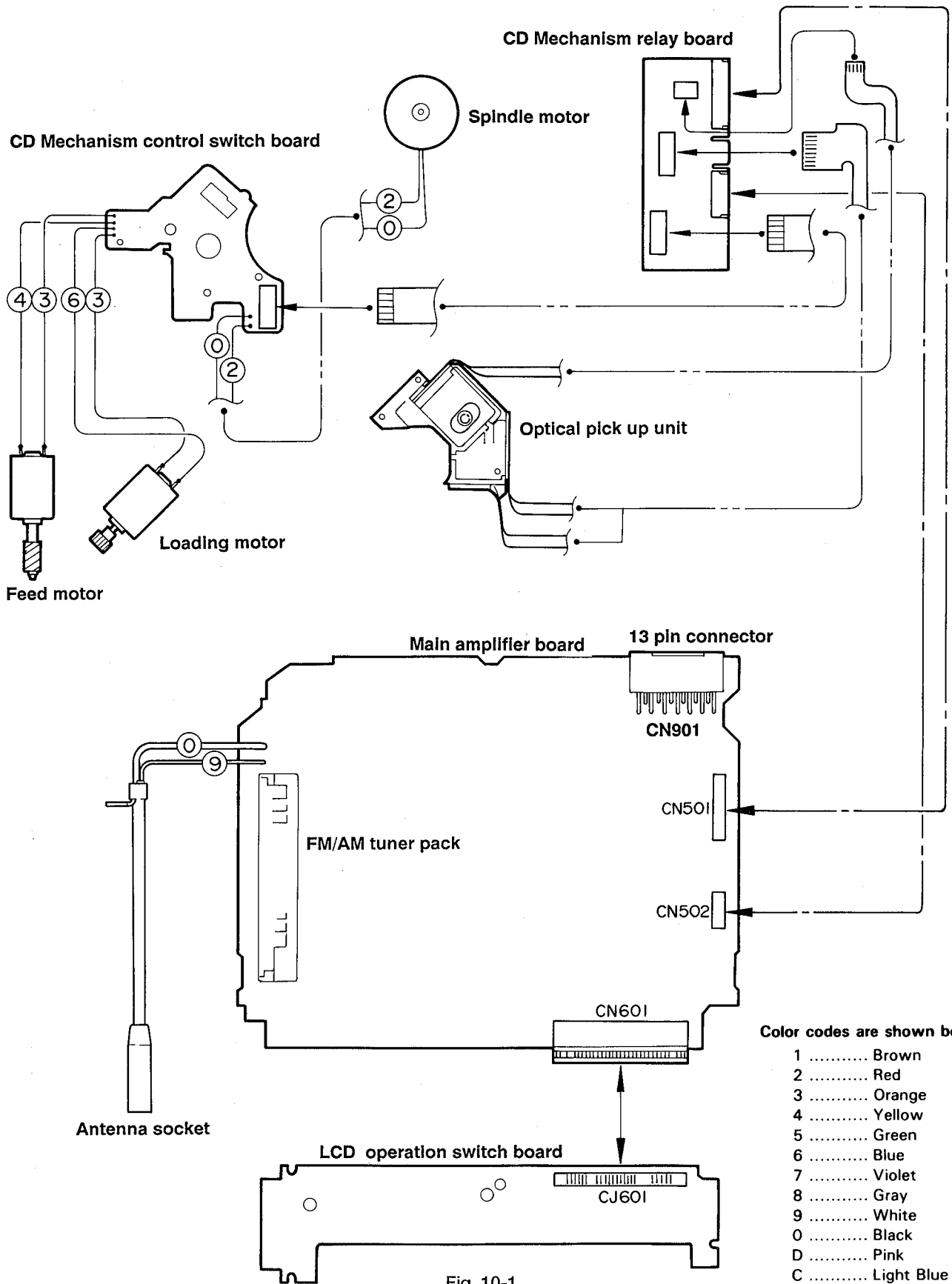


Fig. 10-1

11. Standard Schematic Diagrams

■ FM/AM Tuner Pack : Drawing No. VDH3489-001TV2

A
B
C
D
E
F
G

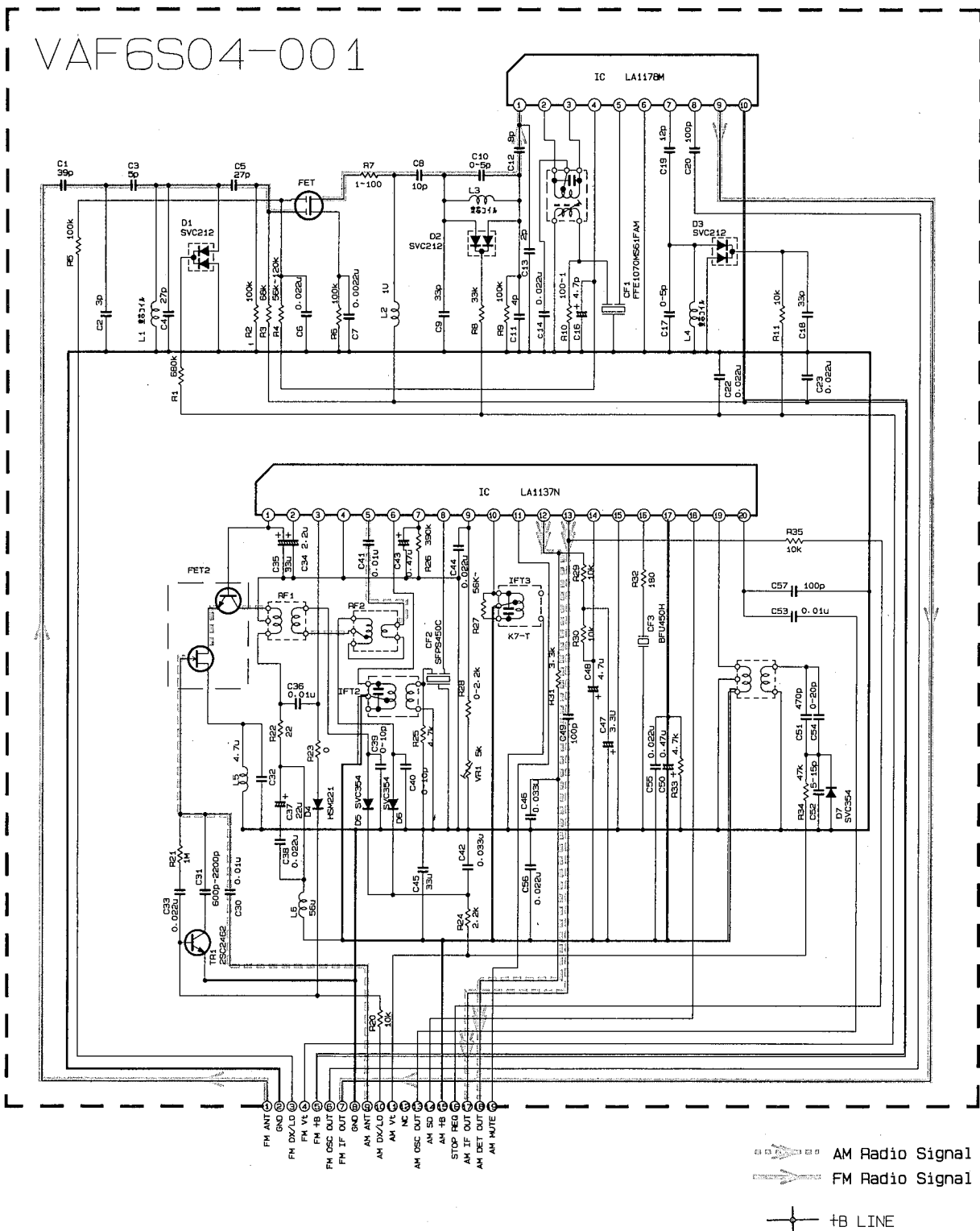
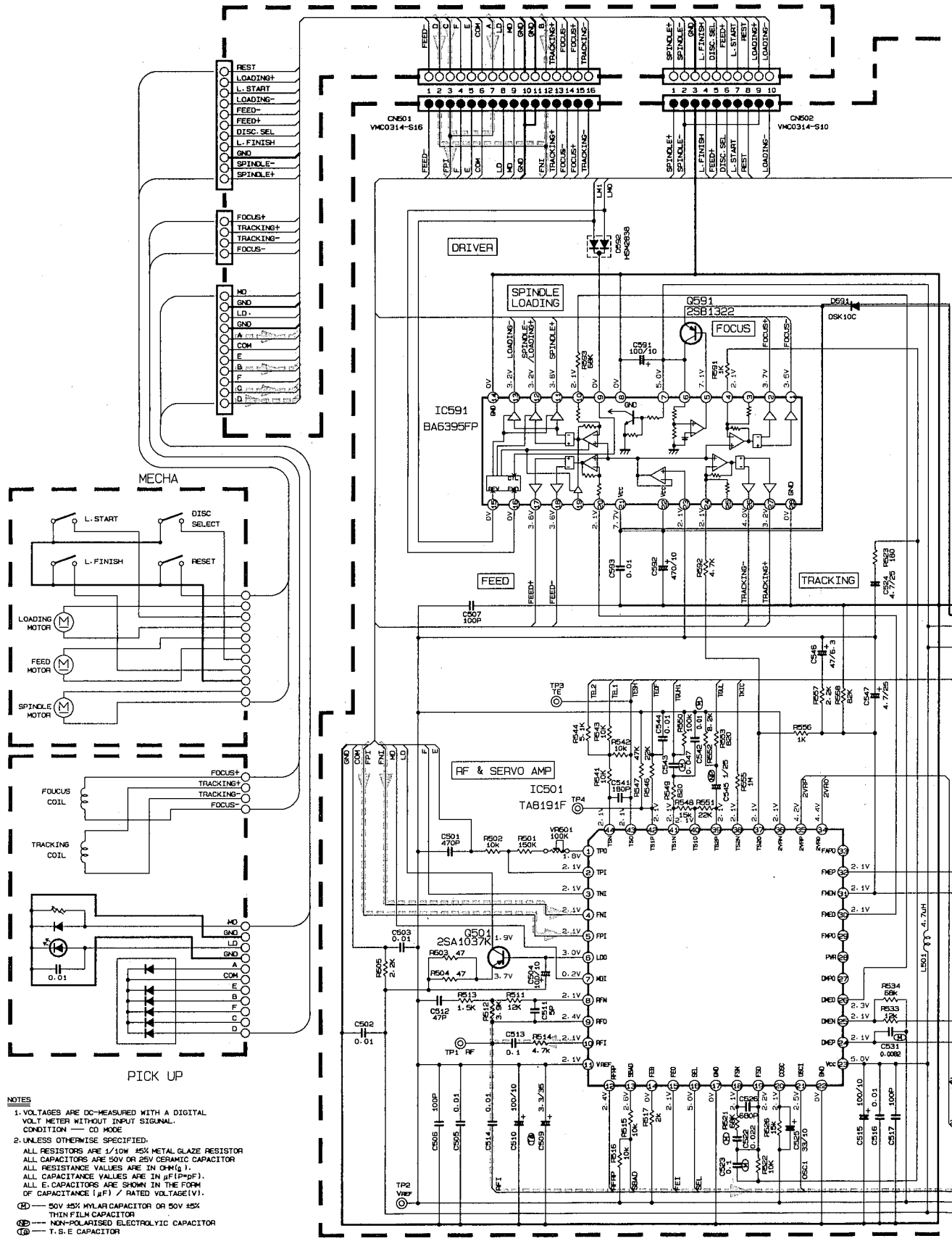


Fig. 11-1

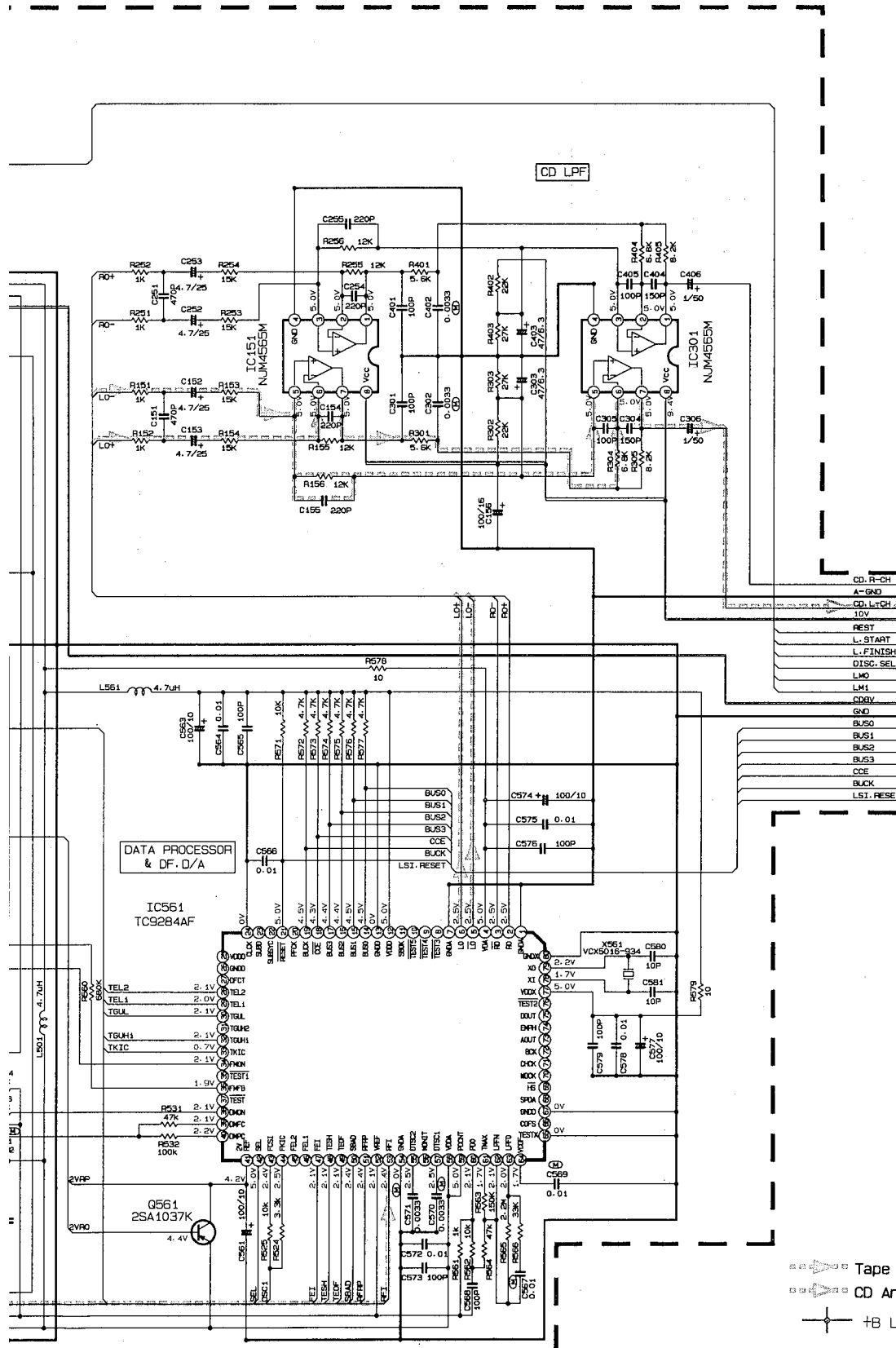
CD Amplifier Circuit : Drawing No. VDH3489-001CV

A
B
C
D
E
F
G



- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION — CD MODE
 2. UNLESS OTHERWISE SPECIFIED: ALL RESISTORS ARE 1/10W 45% METAL GLAZE RESISTOR ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN pF(pF). ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE(V).
- (C) — 50V 45% NYLAR CAPACITOR OR 50V 45% THIN FILM CAPACITOR
 (E) — NON-POLARISED ELECTROLYTIC CAPACITOR
 (D) — T.S.E. CAPACITOR

Fig. 11-2



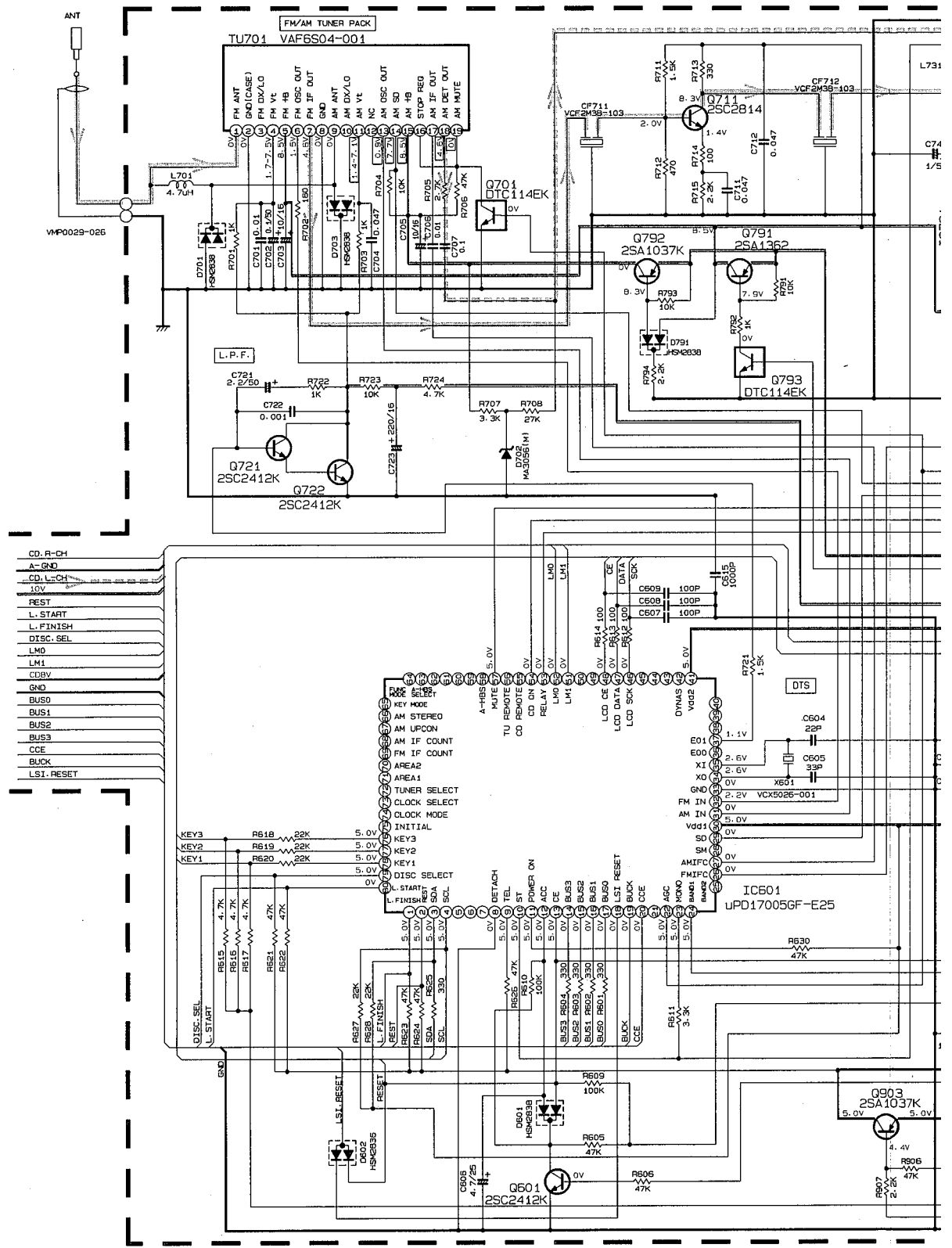
To page 36 (D/1)

- Tape Playback Signal
- CD Analogue Signal
- +B LINE

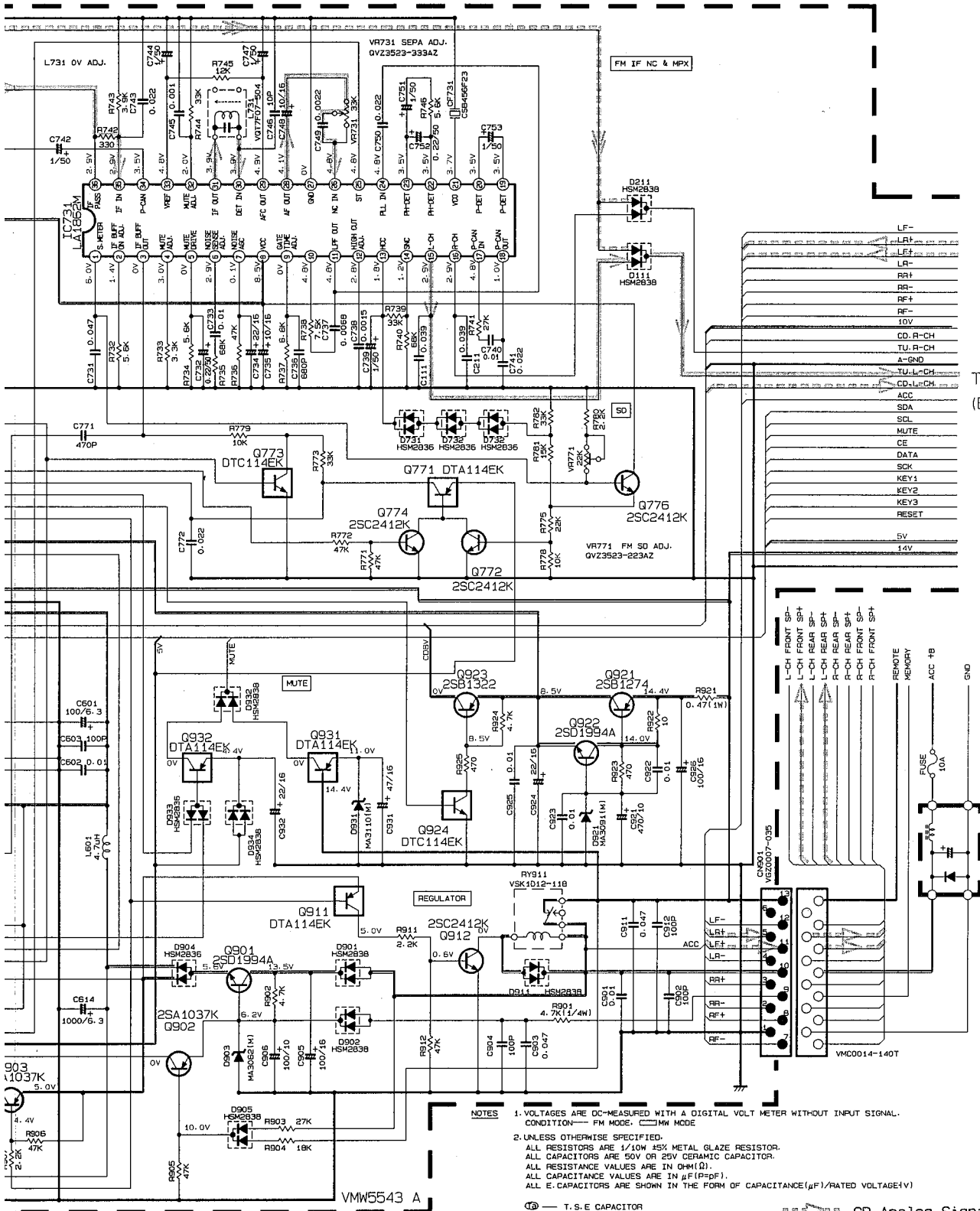
Tuner/DTS Circuit : Drawing No. VDH3491-001TV1

A
B
C
D
E
F
G

1 2 3 4 5



To page 35 (D/10)



To page 37
(B,C,D/1)

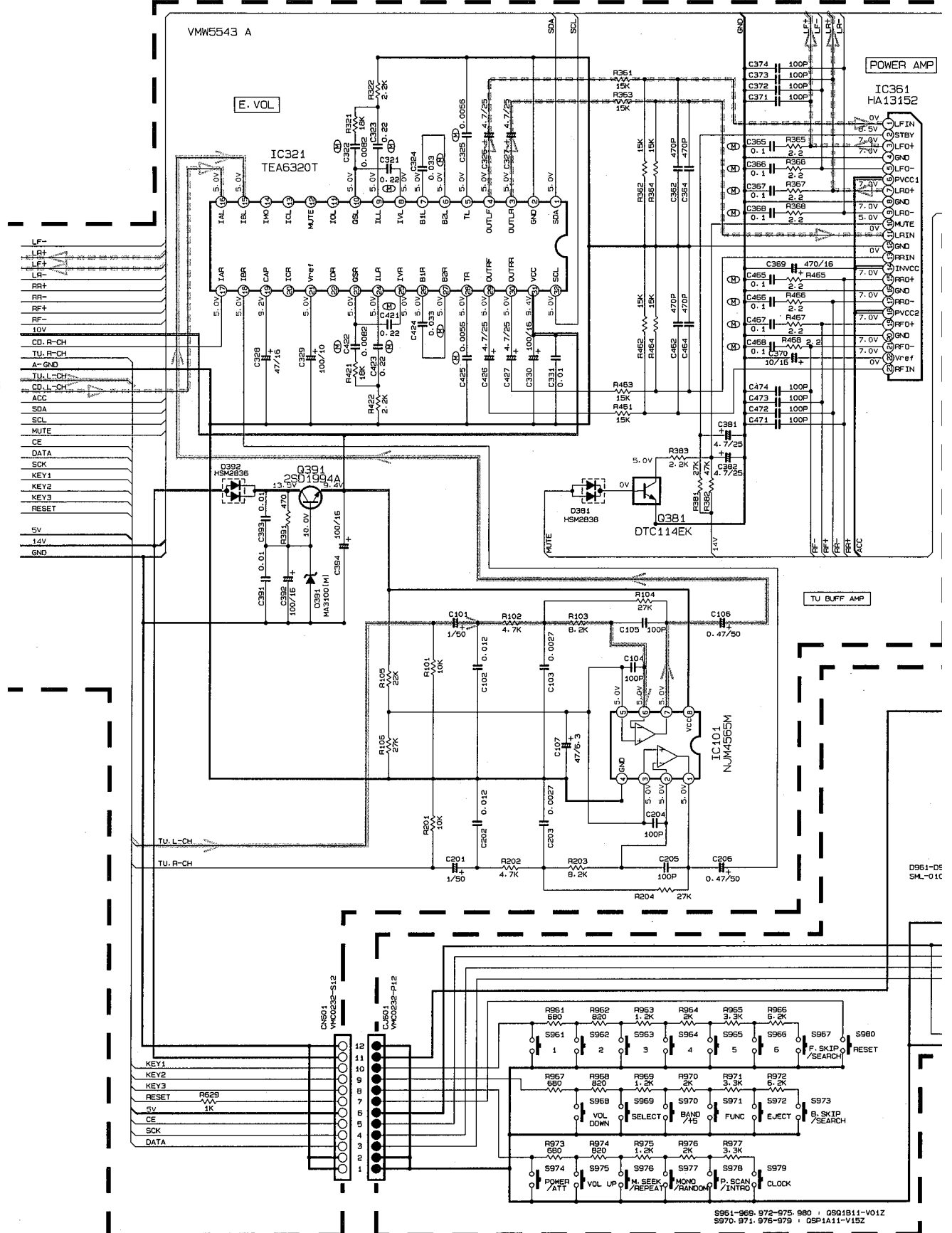
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION—FM MODE, COMMON MODE
 2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/10W 45% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF (P=PF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)



Fig. 11-3

Power Amplifier/LCD/Operation Switch Circuit : Drawing No. VDH3491-001AV

To page 36
(B,C,D/10)



S961-969, 972-975, 980 : OSQ1811-V01Z
S970, 971, 976-979 : OSP1A11-V15Z

6

7

8

9

10

A

B

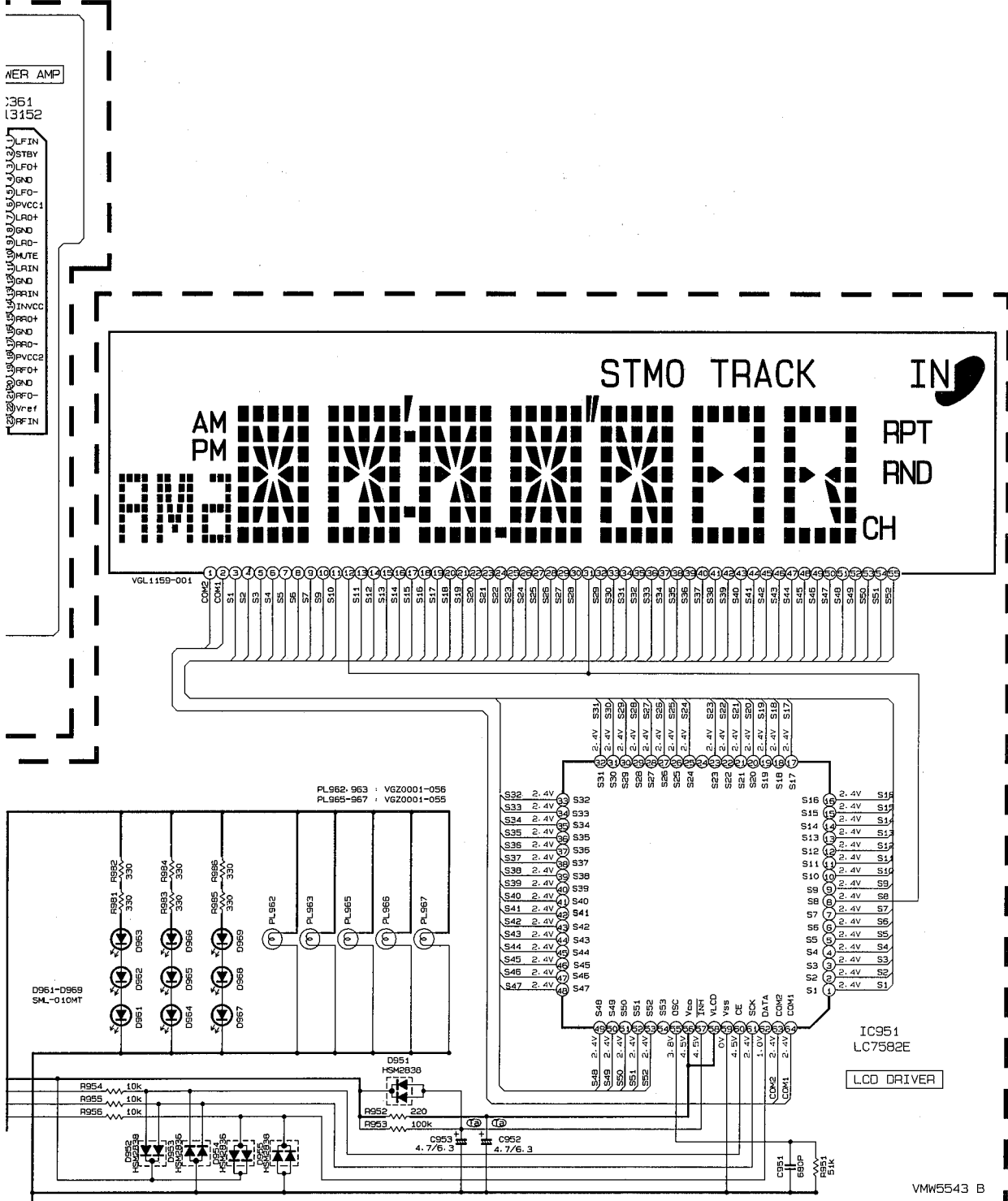
C

D

E

F

G

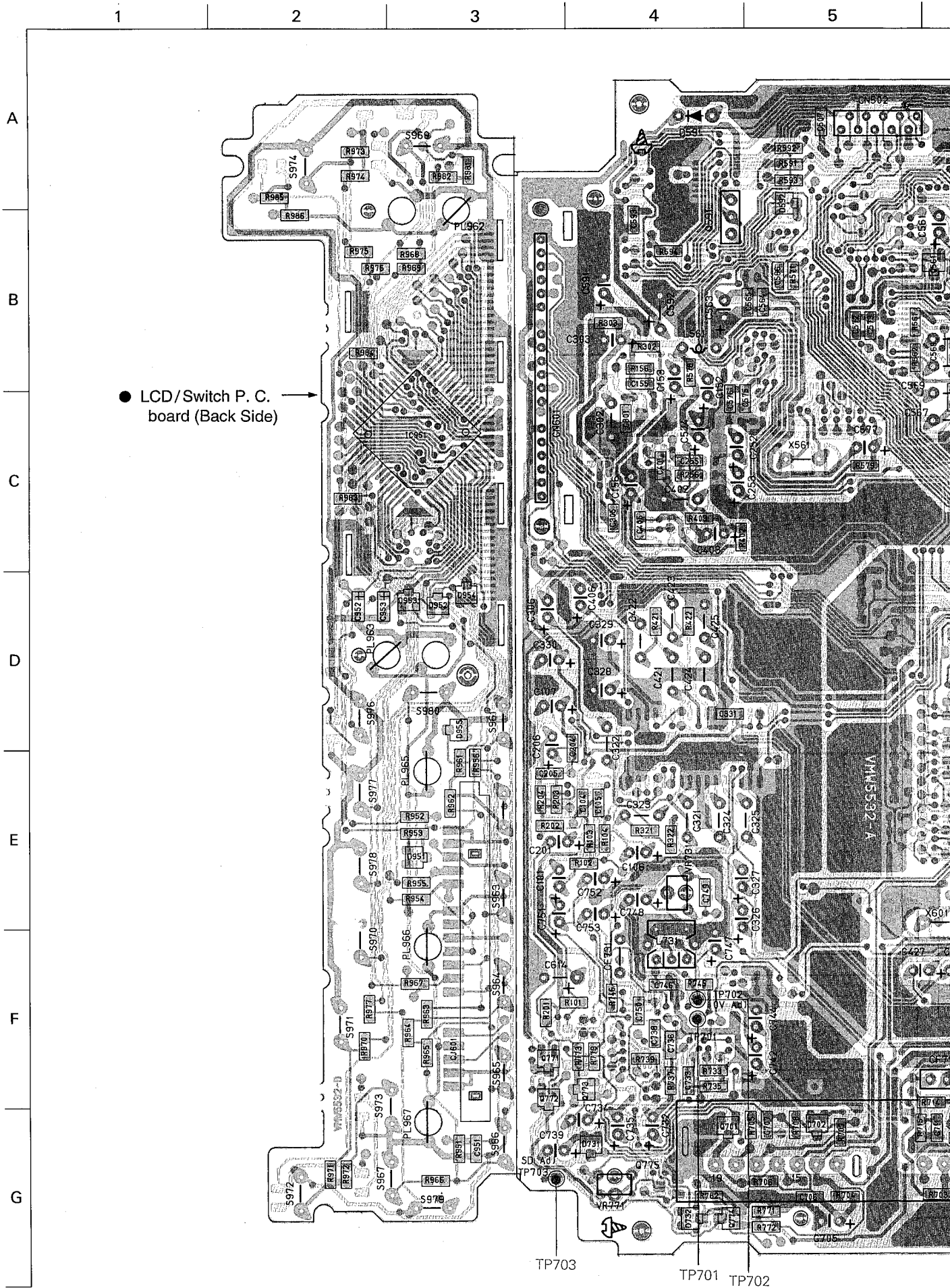


- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
 2. UNLESS OTHERWISE SPECIFIED
 - ALL RESISTORS ARE 1/30W METAL GLAZE RESISTOR.
 - ALL CAPACITORS ARE 50V CERAMIC CAPACITOR
 - ALL RESISTANCE VALUES ARE IN OHM (Ω).
 - ALL CAPACITANCE VALUES ARE IN nF (pF).
 - ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- Ⓣ - T. S. E. CAPACITOR
 Ⓞ - 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR

- Ⓜ CD Analog Signal
- Ⓜ FM Radio Signal
- Ⓜ AM Radio Signal
- Ⓜ +B LINE

Fig. 11-4

12. Location of P. C. Board Parts



● LCD/Switch P. C. board (Back Side)

TP703

TP701

TP702

6

7

8

9

10

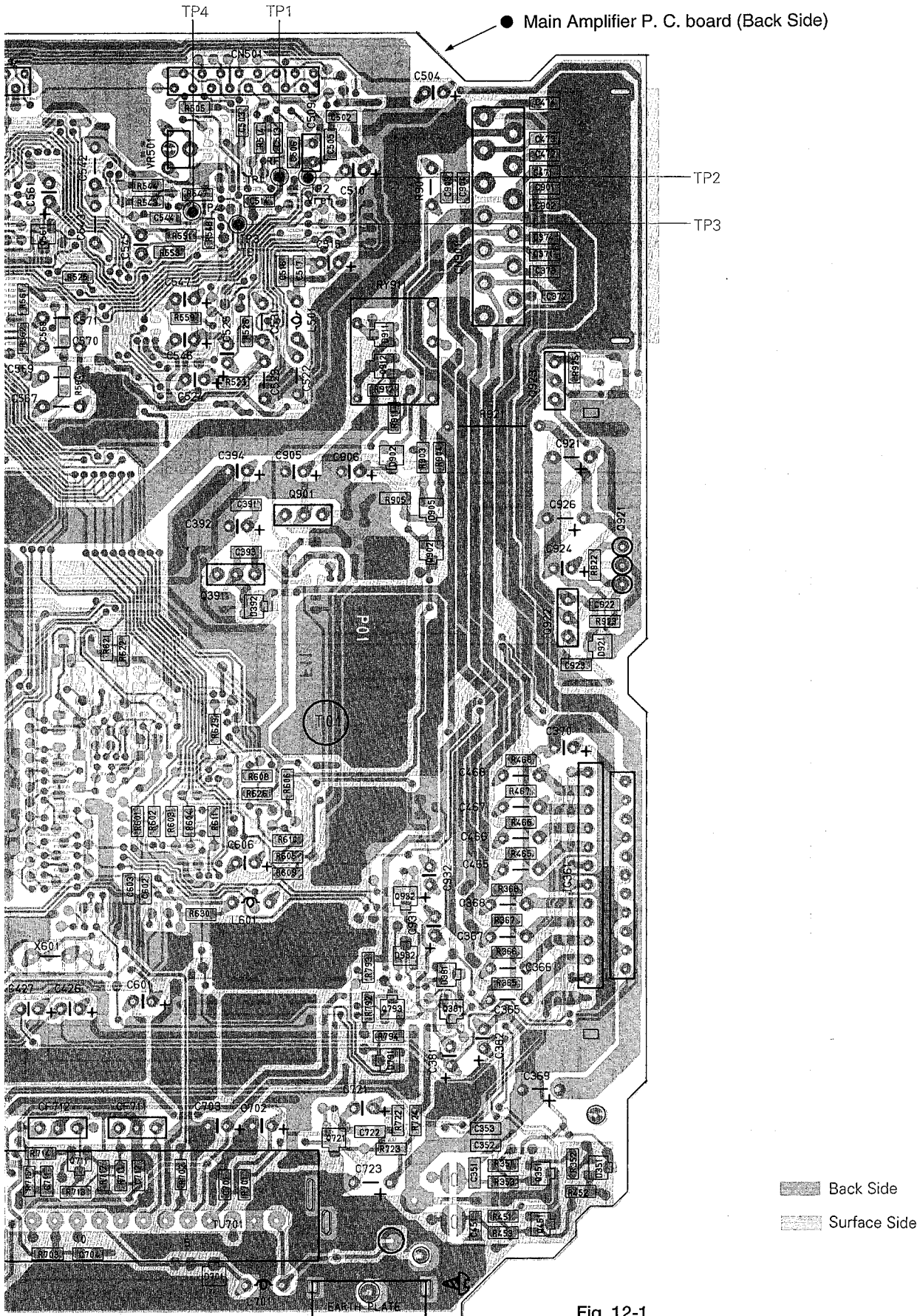


Fig. 12-1

1

2

3

4

5

● Main Amplifier P. C. board (Surface Side)

A

B

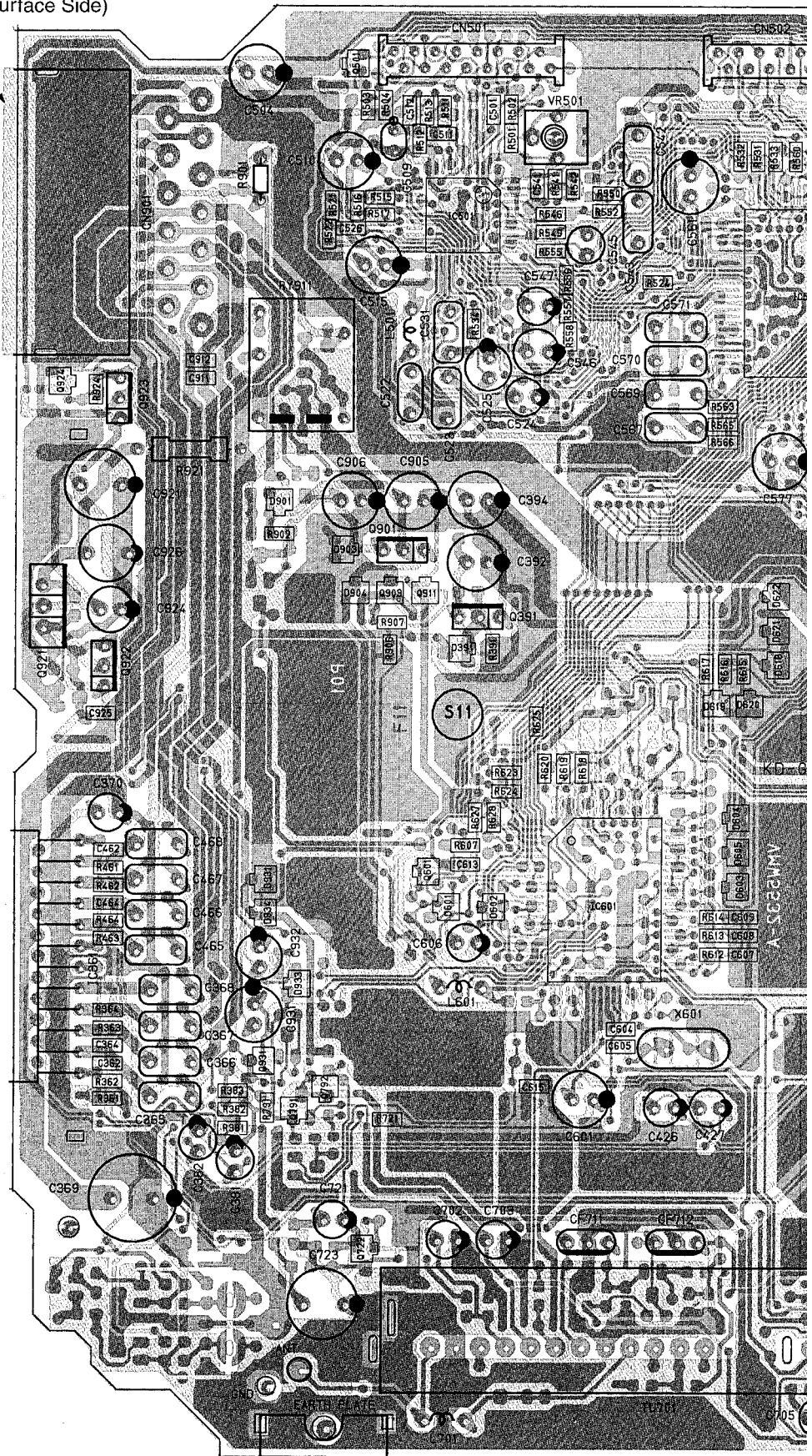
C

D

E

F

G



6

7

8

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10

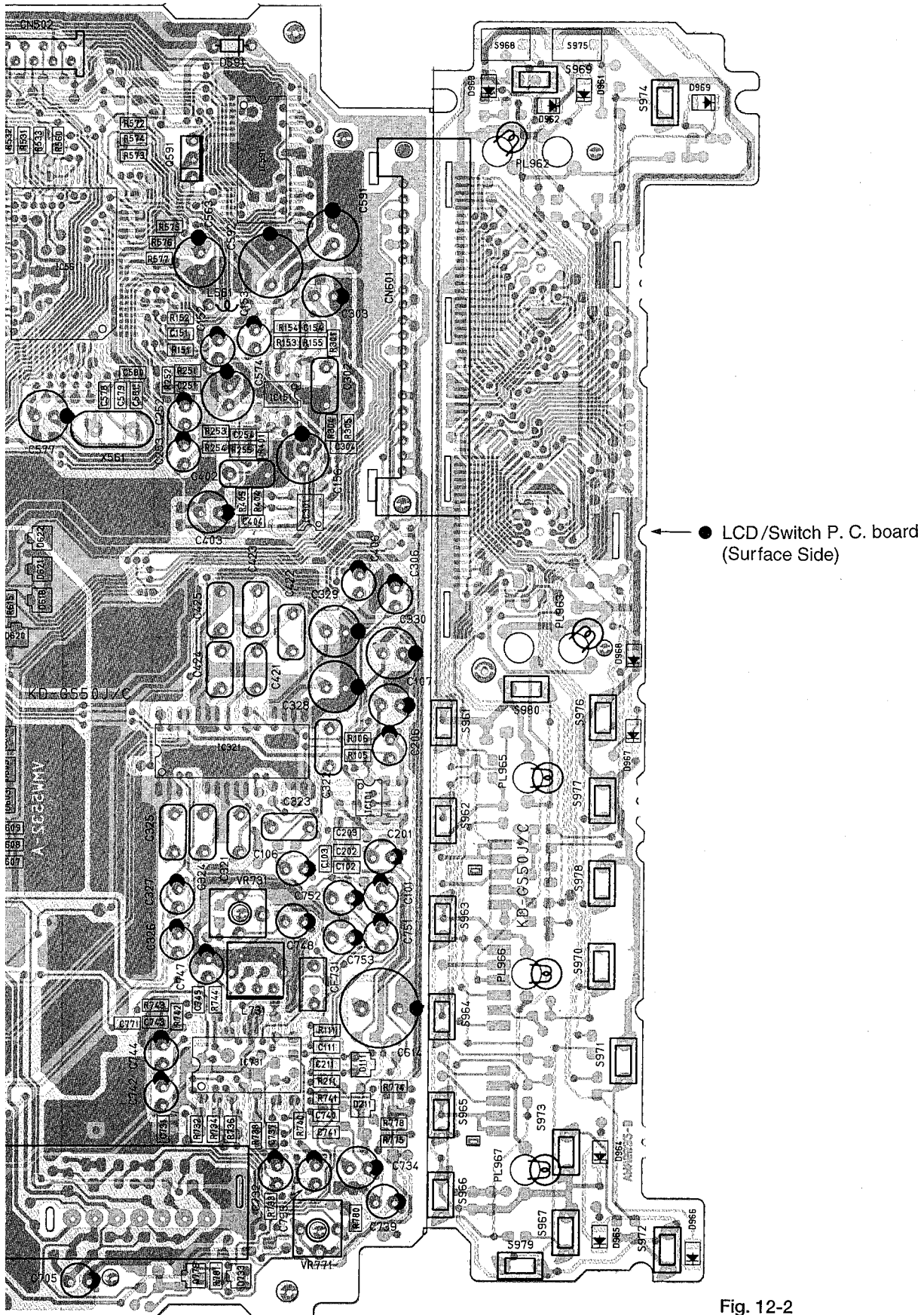


Fig. 12-2

13. Electrical Parts List

Main amplifier P.C.board

BLOCK NO. 09111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|----------------|----------------|--------|
| C 101 | QEK41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C 102 | NCB21HK-123AY | C. CAPACITOR | .012MF 10% 50V | |
| C 103 | NCB21HK-272AY | C. CAPACITOR | 2700PF 10% 50V | |
| C 104 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 105 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 106 | QEK41HM-474 | E. CAPACITOR | .47MF 20% 50V | |
| C 107 | QEK40JM-476 | E. CAPACITOR | 4.7MF 20% 6.3V | |
| C 111 | NCB21EK-593AY | C. CAPACITOR | .039MF 10% 25V | |
| C 151 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 152 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 153 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 154 | NCS21HJ-221AY | C. CAPACITOR | 220PF 5% 50V | |
| C 155 | NCS21HJ-221AY | C. CAPACITOR | 220PF 5% 50V | |
| C 156 | QEK41CM-107ZN | E. CAPACITOR | 100PF 20% 16V | |
| C 201 | QEK41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C 202 | NCB21HK-123AY | C. CAPACITOR | .012MF 10% 50V | |
| C 203 | NCB21HK-272AY | C. CAPACITOR | 2700PF 10% 50V | |
| C 204 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 205 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 206 | QEK41HM-474 | E. CAPACITOR | .47MF 20% 50V | |
| C 211 | NCB21EK-393AY | C. CAPACITOR | .039MF 10% 25V | |
| C 251 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 252 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 253 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 254 | NCS21HJ-221AY | C. CAPACITOR | 220PF 5% 50V | |
| C 255 | NCS21HJ-221AY | C. CAPACITOR | 220PF 5% 50V | |
| C 301 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 302 | QFLA1HJ-332ZM | M. CAPACITOR | 3300PF 5% 50V | |
| C 303 | QEK40JM-476 | E. CAPACITOR | 47MF 20% 6.3V | |
| C 304 | NCS21HJ-151AY | C. CAPACITOR | 150PF 5% 50V | |
| C 305 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 306 | QEK41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C 321 | QFV41HJ-224 | FILM CAPACITOR | .22MF 5% 50V | |
| C 322 | QFLA1HJ-822ZM | M. CAPACITOR | 8200PF 5% 50V | |
| C 323 | QFV41HJ-224 | FILM CAPACITOR | .22MF 5% 50V | |
| C 324 | QFV41HJ-333 | FILM CAPACITOR | .033MF 5% 50V | |
| C 325 | QFLA1HJ-562ZM | M. CAPACITOR | 5600PF 5% 50V | |
| C 326 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 327 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 328 | QEK41CM-476 | E. CAPACITOR | 47PF 20% 16V | |
| C 329 | QEK41CM-107ZN | E. CAPACITOR | 100PF 20% 10V | |
| C 330 | QEK41CM-107ZN | E. CAPACITOR | 100PF 20% 16V | |
| C 331 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 362 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 364 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 365 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 366 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 367 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 368 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 369 | QETC1CM-477ZN | E. CAPACITOR | 470PF 20% 16V | |
| C 370 | QEK41CM-106 | E. CAPACITOR | 10MF 20% 16V | |
| C 371 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 372 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 373 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 374 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |

BLOCK NO. 09111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|------------------|--------|
| C 381 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 382 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 391 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 392 | QEK41CM-107ZN | E. CAPACITOR | 100PF 20% 16V | |
| C 393 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 394 | QEK41EM-107ZN | E. CAPACITOR | 100MF 20% 16V | |
| C 401 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 402 | QFLA1HJ-332ZM | M. CAPACITOR | 3300PF 5% 50V | |
| C 403 | QEK40JM-476 | E. CAPACITOR | 47MF 20% 6.3V | |
| C 404 | NCS21HJ-151AY | C. CAPACITOR | 150PF 5% 50V | |
| C 405 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 406 | QEK41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C 421 | QFV41HJ-224 | FILM CAPACITOR | .22MF 5% 50V | |
| C 422 | QFLA1HJ-822ZM | M. CAPACITOR | 8200PF 5% 50V | |
| C 423 | QFV41HJ-224 | FILM CAPACITOR | .22MF 5% 50V | |
| C 424 | QFV41HJ-333 | FILM CAPACITOR | .033MF 5% 50V | |
| C 425 | QFLA1HJ-562ZM | M. CAPACITOR | 5600PF 5% 50V | |
| C 426 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 427 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 462 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 464 | NCS21HJ-471AY | C. CAPACITOR | 470PF 5% 50V | |
| C 465 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 466 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 467 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 468 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 471 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 472 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 473 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 474 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 501 | NCT21CH-471AY | C. CAPACITOR | 470PF +50% -10% | |
| C 502 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 503 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 504 | QEK41EM-107ZN | E. CAPACITOR | 100MF 20% 10V | |
| C 505 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 506 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 507 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 509 | QES41VM-335B | TS.E. CAPACITOR | 3.3MF 20% 35V | |
| C 510 | QEK41EM-107ZN | E. CAPACITOR | 100MF 20% 10V | |
| C 511 | NCT21CH-5R0AY | C. CAPACITOR | 5.0PF +50% -10% | |
| C 512 | NCT21CH-470AY | C. CAPACITOR | 47PF +50% -10% 1 | |
| C 513 | NCB21HK-104 | C. CAPACITOR | .10MF 10% 25V | |
| C 514 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 515 | QEK41EM-107ZN | E. CAPACITOR | 100MF 20% 10V | |
| C 516 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |
| C 517 | NCS21HJ-101AY | C. CAPACITOR | 100PF 5% 50V | |
| C 522 | QFV81HJ-223 | FILM CAPACITOR | .022MF 5% 50V | |
| C 523 | QFV41HJ-104 | FILM CAPACITOR | .10MF 5% 50V | |
| C 524 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 525 | QEK41EM-475 | E. CAPACITOR | 4.7MF 20% 25V | |
| C 526 | NCB21HJ-681AY | C. CAPACITOR | 680PF 5% 50V | |
| C 527 | QFV81HJ-223 | FILM CAPACITOR | .022MF 5% 50V | |
| C 541 | NCS21HJ-181AY | C. CAPACITOR | 180PF 5% 50V | |
| C 542 | QFV71HJ-103 | FILM CAPACITOR | .010MF 5% 50V | |
| C 543 | QFV81HJ-473 | FILM CAPACITOR | .047MF 5% 50V | |
| C 544 | NCB21HK-103AY | C. CAPACITOR | .010MF 10% 50V | |

BLOCK NO. 04111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|----------------|-----------------|--------|
| C 737 | NCB21HK-682AY | C CAPACITOR | 6800PF 10% 50V | |
| C 738 | NCB21HK-152AY | C CAPACITOR | 1500PF 10% 50V | |
| C 739 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 740 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 741 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 25V | |
| C 742 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 743 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 25V | |
| C 744 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 745 | NCB21HK-102AY | C CAPACITOR | 1000PF 10% 50V | |
| C 746 | NCT21CH-100AY | C CAPACITOR | 10PF +50:-10% 1 | |
| C 747 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 748 | QEK41CM-106 | E.CAPACITOR | 10MF 20% 16V | |
| C 749 | NCB21HK-222AY | C CAPACITOR | 2200PF 10% 50V | |
| C 750 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 25V | |
| C 751 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 752 | QEK41HM-224 | E.CAPACITOR | .22MF 20% 50V | |
| C 753 | QEK41HM-105 | E.CAPACITOR | 1.0MF 20% 50V | |
| C 771 | NCS21HJ-471AY | C CAPACITOR | 470PF 5% 50V | |
| C 772 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 25V | |
| C 901 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 902 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 903 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 904 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 905 | QEK41CM-107ZN | E.CAPACITOR | 100MF 20% 16V | |
| C 906 | QEK41CM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 911 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 912 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 921 | QEK41CM-477ZN | E.CAPACITOR | 470MF 20% 10V | |
| C 922 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 923 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 924 | QEK41CM-226 | E.CAPACITOR | 22MF 20% 16V | |
| C 925 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 926 | QEK41CM-107ZN | E.CAPACITOR | 100MF 20% 16V | |
| C 931 | QEK41CM-476 | E.CAPACITOR | 47MF 20% 16V | |
| C 932 | QEK41CM-226 | E.CAPACITOR | 22MF 20% 16V | |
| CF711 | VCF2M3B-103 | CERAMIC FILTER | | |
| CF712 | VCF2M3B-103 | CERAMIC FILTER | | |
| CF731 | CSB456F23 | CERA LOCK | | |
| CM501 | VMC0314-S16 | CONNECTOR | | |
| CM502 | VMC0314-S10 | CONNECTOR | | |
| CM601 | VMC0332-S12 | CONNECTOR | | |
| CM901 | VGZ0007-035 | FEED THROUGH | | |
| D 111 | HSM2838C | DIODE | | |
| D 211 | HSM2838C | DIODE | | |
| D 381 | HSM2838C | DIODE | | |
| D 391 | MA3100(M) | ZENER DIODE | | |
| D 592 | HSM2836C | DIODE | | |
| D 591 | DSK10C-E | DIODE | | |
| D 592 | HSM2838C | DIODE | | |
| D 601 | HSM2838C | DIODE | | |
| D 602 | HSM2836C | DIODE | | |
| D 701 | HSM2838C | DIODE | | |
| D 702 | MA3056 | ZENER DIODE | | |
| D 703 | HSM2838C | DIODE | | |
| D 731 | HSM2836C | DIODE | | |

BLOCK NO. 04111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|----------------|-----------------|--------|
| C 545 | QER11HM-105ZM | MP.E-CAPACITOR | 1.0MF 20% 50V | |
| C 546 | QEK40JM-476 | E.CAPACITOR | 47MF 20% 6.3V | |
| C 547 | QEK41EM-475 | E.CAPACITOR | 47MF 20% 25V | |
| C 563 | QEK41AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 564 | QEK41AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 565 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 566 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 567 | QFV711H-103 | FILM CAPACITOR | .010MF 10% 50V | |
| C 568 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 569 | QFV711H-103 | FILM CAPACITOR | .010MF 5% 50V | |
| C 570 | QFLA1HJ-332ZM | M.CAPACITOR | 3300PF 5% 50V | |
| C 571 | QFLA1HJ-332ZM | M.CAPACITOR | 3300PF 5% 50V | |
| C 572 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 573 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 574 | QEK41AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 575 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 576 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 577 | QEK41AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 578 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 579 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 580 | NCT21CH-100AY | C CAPACITOR | 10PF +50:-10% 1 | |
| C 581 | NCT21CH-100AY | C CAPACITOR | 10PF +50:-10% 1 | |
| C 603 | NCS21HJ-101AY | C CAPACITOR | 100MF 20% 10V | |
| C 604 | QEK41AM-477ZN | E.CAPACITOR | 470MF 20% 10V | |
| C 605 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 601 | QEK41AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| C 602 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 603 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 604 | NCT21CH-220AY | C CAPACITOR | 22PF +50:-10% 1 | |
| C 605 | NCT21CH-330AY | C CAPACITOR | 33PF +50:-10% 1 | |
| C 606 | QEK41EM-475 | E.CAPACITOR | 47MF 20% 25V | |
| C 607 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 608 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 609 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| C 614 | QET80JM-108 | E.CAPACITOR | 1000MF 20% 6.3V | |
| C 615 | NCS21HJ-102AY | C CAPACITOR | 1000PF 5% 50V | |
| C 701 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 702 | QEK41HM-104 | E.CAPACITOR | .10MF 20% 50V | |
| C 703 | QEK41CM-106 | E.CAPACITOR | 10MF 20% 16V | |
| C 704 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 705 | QEK41CM-106 | E.CAPACITOR | 10MF 20% 16V | |
| C 706 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 707 | NCB21HK-104 | C CAPACITOR | .10MF 10% 25V | |
| C 711 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 712 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 721 | QEK41HM-225 | E.CAPACITOR | 2.2MF 20% 50V | |
| C 722 | NCB21HK-102AY | C CAPACITOR | 1000PF 10% 50V | |
| C 723 | QETA1CM-227 | E.CAPACITOR | 220MF 20% 16V | |
| C 731 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 25V | |
| C 732 | QEK41HM-224 | E.CAPACITOR | .22MF 20% 50V | |
| C 733 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| C 734 | QEK41CM-226 | E.CAPACITOR | 22MF 20% 16V | |
| C 735 | QEK41CM-106 | E.CAPACITOR | 10MF 20% 16V | |
| C 736 | NCS21HJ-681AY | C CAPACITOR | 680PF 5% 50V | |

BLOCK NO. 011111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|----------------|-------------|---------------|--------|
| Q 924 | UN2211 | TRANSISTOR | | |
| Q 931 | UN2111 | TRANSISTOR | | |
| R 101 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 102 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 103 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 104 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 105 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 106 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 111 | NRSA02J-ORONY | MG RESISTOR | 5% 1/10W | |
| R 151 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 152 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 153 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 154 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 155 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 156 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 201 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 202 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 203 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 204 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 211 | NRSA02J-ORONY | MG RESISTOR | 5% 1/10W | |
| R 251 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 252 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 253 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 254 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 255 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 256 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 301 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| R 302 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 303 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 304 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| R 305 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 321 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| R 322 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 361 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 362 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 364 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 365 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 366 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 367 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 368 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 381 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 382 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 383 | NRSA02J-223NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 391 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| R 401 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| R 402 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 403 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 404 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| R 405 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 421 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| R 422 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 461 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 462 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |

BLOCK NO. 011111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|-----------------|-------------|---------|--------|
| D 732 | HSM2836C | DIODE | | |
| D 733 | HSM2836C | DIODE | | |
| D 791 | HSM2838C | DIODE | | |
| D 901 | HSM2838C | DIODE | | |
| D 902 | HSM2838C | DIODE | | |
| D 903 | MA3062(CM) | ZENER DIODE | | |
| D 904 | HSM2836C | DIODE | | |
| D 905 | HSM2838C | DIODE | | |
| D 911 | HSM2838C | DIODE | | |
| D 921 | MA3091(CM) | ZENER DIODE | | |
| D 931 | MA3110(CM) | ZENER DIODE | | |
| D 932 | HSM2838C | DIODE | | |
| D 933 | HSM2836C | DIODE | | |
| D 934 | HSM2838C | DIODE | | |
| IC101 | NJM4565M | IC | | |
| IC151 | NJM4565M | IC | | |
| IC301 | NJM4565M | IC | | |
| IC321 | TEA6320T | IC | | |
| IC361 | HA13152 | IC | | |
| IC501 | TA8191F | IC | | |
| IC561 | TC9284AF | IC | | |
| IC591 | BA6395FP-T1 | IC | | |
| IC601 | UPD17005GF-E25 | IC | | |
| IC731 | LA1862M | IC | | |
| L 501 | VQP0015-4R7Z | INDUCTOR | | |
| L 561 | VQP0015-4R7Z | INDUCTOR | | |
| L 601 | VQP0015-4R7Z | INDUCTOR | | |
| L 701 | VQP0015-4R7Z | INDUCTOR | | |
| L 731 | VQT17F07-504 | IFT | | |
| Q 381 | UN2211 | TRANSISTOR | OV ADJ. | |
| Q 391 | 2SD1994(R,S) | TRANSISTOR | | |
| Q 501 | 2SA1037K(R) | TRANSISTOR | | |
| Q 561 | 2SA1037K(R) | TRANSISTOR | | |
| Q 591 | 2SB1322(RS) | TRANSISTOR | | |
| Q 601 | 2SC2412KK1 | TRANSISTOR | | |
| Q 701 | UN2211 | TRANSISTOR | | |
| Q 711 | 2SC2814(F4F5)HL | TRANSISTOR | | |
| Q 721 | 2SC2412KK1 | TRANSISTOR | | |
| Q 722 | 2SC2412KK1 | TRANSISTOR | | |
| Q 771 | UN2111 | TRANSISTOR | | |
| Q 772 | 2SC2412KK1 | TRANSISTOR | | |
| Q 773 | UN2211 | TRANSISTOR | | |
| Q 774 | 2SC2412KK1 | TRANSISTOR | | |
| Q 776 | 2SC2412KK1 | TRANSISTOR | | |
| Q 791 | 2SA1362GR | TRANSISTOR | | |
| Q 792 | 2SA1037K(R) | TRANSISTOR | | |
| Q 793 | UN2211 | TRANSISTOR | | |
| Q 901 | 2SD1994(R,S) | TRANSISTOR | | |
| Q 902 | 2SA1037K(R) | TRANSISTOR | | |
| Q 903 | 2SA1037K(R) | TRANSISTOR | | |
| Q 911 | UN2111 | TRANSISTOR | | |
| Q 912 | 2SC2412KK1 | TRANSISTOR | | |
| Q 921 | 2SB1274(R,S) | TRANSISTOR | | |
| Q 922 | 2SD1994(R,S) | TRANSISTOR | | |
| Q 923 | 2SB1322(RS) | TRANSISTOR | | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-------------|---------------|--------|
| R 574 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 575 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 576 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 577 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 578 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| R 579 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| R 591 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 592 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 593 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| R 594 | NRSA02J-ORONY | MG RESISTOR | 5% 1/10W | |
| R 601 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 602 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 603 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 604 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 605 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 606 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 607 | NRSA02J-ORONY | MG RESISTOR | 5% 1/10W | |
| R 609 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| R 610 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| R 611 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 612 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| R 613 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| R 614 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| R 615 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 616 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 617 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 618 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 619 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 620 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 621 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 622 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 623 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 624 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 625 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 626 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 627 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 628 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 629 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 630 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 701 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 702 | NRSA02J-181NY | MG RESISTOR | 180 5% 1/10W | |
| R 703 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 704 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 705 | NRSA02J-272NY | MG RESISTOR | 2.7K 5% 1/10W | |
| R 706 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 707 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 708 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 711 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| R 712 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| R 713 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 714 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| R 721 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 725 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| R 722 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 723 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|----------------|-----------------|---------------|--------|
| R 463 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 464 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 465 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 466 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 467 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 468 | NRSA02J-2R2NYM | MG RESISTOR | 2.2 5% 1/10W | |
| R 501 | NRSA02J-154NY | MG RESISTOR | 150K 5% 1/10W | |
| R 502 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 503 | NRSA02J-470NY | MG RESISTOR | 47 5% 1/10W | |
| R 504 | NRSA02J-470NY | MG RESISTOR | 47 5% 1/10W | |
| R 505 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 511 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 512 | NRSA02J-3R2NY | MG RESISTOR | 3.9K 5% 1/10W | |
| R 513 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| R 514 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 515 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 516 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 517 | NRSA02J-202NY | CARBON RESISTOR | 2.0K 5% 1/10W | |
| R 521 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| R 522 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 523 | NRSA02J-191NY | MG RESISTOR | 180 5% 1/10W | |
| R 524 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 525 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 526 | NRSA02J-453NY | MG RESISTOR | 15K 5% 1/10W | |
| R 531 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 532 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| R 533 | NRSA02J-423NY | MG RESISTOR | 12K 5% 1/10W | |
| R 534 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| R 541 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 542 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 543 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 544 | NRSA02J-512NY | MG RESISTOR | 5.1K 5% 1/10W | |
| R 546 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 547 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 548 | NRSA02J-453NY | MG RESISTOR | 15K 5% 1/10W | |
| R 549 | NRSA02J-821NY | MG RESISTOR | 820 5% 1/10W | |
| R 550 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| R 551 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 552 | NRSA02J-822NY | MG RESISTOR | 8.2K 5% 1/10W | |
| R 553 | NRSA02J-821NY | MG RESISTOR | 820 5% 1/10W | |
| R 555 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| R 556 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 557 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 558 | NRSA02J-623NY | MG RESISTOR | 82K 5% 1/10W | |
| R 559 | NRSA02J-ORONY | MG RESISTOR | 5% 1/10W | |
| R 560 | NRSA02J-684NY | MG RESISTOR | 680K 5% 1/10W | |
| R 561 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| R 562 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 563 | NRSA02J-154NY | MG RESISTOR | 150K 5% 1/10W | |
| R 564 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 565 | NRSA02J-225NY | MG RESISTOR | 2.2M 5% 1/10W | |
| R 566 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| R 571 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 572 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 573 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |

BLOCK NO. 00111111

| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|--------|---------------|-----------------|-----------------|--------|
| R 724 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 732 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| R 733 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 734 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| R 735 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| R 736 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 737 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| R 738 | NRSA02J-752NY | MG RESISTOR | 7.5K 5% 1/10W | |
| R 739 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| R 740 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| R 741 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 742 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 743 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| R 744 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| R 745 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| R 746 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| R 771 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 772 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 773 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| R 775 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| R 778 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 779 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 780 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 781 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| R 782 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| R 783 | NRSA02J-ORONY | MG RESISTOR | 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 793 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 794 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 901 | GRD14DJ-472X | CARBON RESISTOR | 4.7K 5% 1/4W | |
| R 902 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 903 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| R 904 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| R 905 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 906 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 907 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 911 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| R 912 | NRSA02J-473NY | MG RESISTOR | 47K 5% 1/10W | |
| R 921 | GRX019J-R47A | M.F.RESISTOR | 5% 1/1W | |
| R 922 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| R 923 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| R 924 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| R 925 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| RY911 | VSK1D12-118 | RELAY | | |
| TU701 | VAF6S04-001 | FM/AM TUNER PAC | | |
| VR501 | QVZ3523-104 | V.RESISTOR | TR-OFFSET ADJ. | |
| VR731 | QVPAG01-353 | V.RESISTOR | SEPARATION ADJ. | |
| VR771 | QVZ3523-223 | V.RESISTOR | SD ADJ. | |
| X 561 | VCX5016-934Z | CRYSTAL | | |
| X 603 | VCX5026-001Z | CRYSTAL | | |

Operation Key Switch P.C. Board

BLOCK NO. 021111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|----------------|--------|
| C 951 | NC521HJ-681AY | C CAPACITOR | 680PF 5% 50V | |
| C 952 | NEF20JM-475RY | TS.E. CAPACITOR | 4.7MF 20% 6.3V | |
| C 953 | NEF20JM-475RY | TS.E. CAPACITOR | 4.7MF 20% 6.3V | |
| CJ601 | VMC0232-P12 | CONNECTOR | | |
| D 951 | HSM2838C | DIODE | | |
| D 952 | HSM2838C | DIODE | | |
| D 953 | HSM2836C | DIODE | | |
| D 954 | HSM2836C | DIODE | | |
| D 955 | HSM2838C | DIODE | | |
| D 963 | SML-010MT187 | LED | | |
| D 962 | SML-010MT187 | LED | | |
| D 963 | SML-010MT187 | LED | | |
| D 964 | SML-010MT187 | LED | | |
| D 965 | SML-010MT187 | LED | | |
| D 966 | SML-010MT187 | LED | | |
| D 967 | SML-010MT187 | LED | | |
| D 968 | SML-010MT187 | LED | | |
| D 969 | SML-010MT187 | LED | | |
| IC951 | LC7582E | IC | | |
| PL962 | VGZ0001-056 | LAMP | | |
| PL963 | VGZ0001-056 | LAMP | | |
| PL965 | VGZ0001-055 | LAMP | | |
| PL966 | VGZ0001-055 | LAMP | | |
| PL967 | VGZ0001-055 | LAMP | | |
| R 954 | NRSA02J-513NY | MG RESISTOR | 51K 5% 1/10W | |
| R 952 | NRSA02J-221NY | MG RESISTOR | 220 5% 1/10W | |
| R 953 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| R 954 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 955 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 956 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| R 961 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| R 962 | NRSA02J-821NY | MG RESISTOR | 820 5% 1/10W | |
| R 963 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| R 964 | NRSA02J-202NY | CARBON RESISTOR | 2.0K 5% 1/10W | |
| R 965 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 966 | NRSA02J-622NY | MG RESISTOR | 6.2K 5% 1/10W | |
| R 967 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| R 968 | NRSA02J-821NY | MG RESISTOR | 820 5% 1/10W | |
| R 969 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| R 970 | NRSA02J-202NY | CARBON RESISTOR | 2.0K 5% 1/10W | |
| R 971 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 972 | NRSA02J-622NY | MG RESISTOR | 6.2K 5% 1/10W | |
| R 973 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| R 974 | NRSA02J-821NY | MG RESISTOR | 820 5% 1/10W | |
| R 975 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| R 976 | NRSA02J-202NY | CARBON RESISTOR | 2.0K 5% 1/10W | |
| R 977 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| R 981 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 982 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 983 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 984 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 985 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| R 986 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| S 961 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 962 | QSQ1B11-V01Z | TACT SWITCH | | |

BLOCK NO. 021111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|--------------|-------------|---------|--------|
| S 963 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 964 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 965 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 966 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 967 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 968 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 969 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 970 | OSP1A11-V15 | TACT SWITCH | | |
| S 971 | OSP1A11-V15 | TACT SWITCH | | |
| S 972 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 973 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 974 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 975 | QSQ1B11-V01Z | TACT SWITCH | | |
| S 976 | OSP1A11-V15 | TACT SWITCH | | |
| S 977 | OSP1A11-V15 | TACT SWITCH | | |
| S 978 | OSP1A11-V15 | TACT SWITCH | | |
| S 979 | OSP1A11-V15 | TACT SWITCH | | |
| S 980 | QSQ1B11-V01Z | TACT SWITCH | | |

— MEMO —

14. Illustration of Packing and Parts List

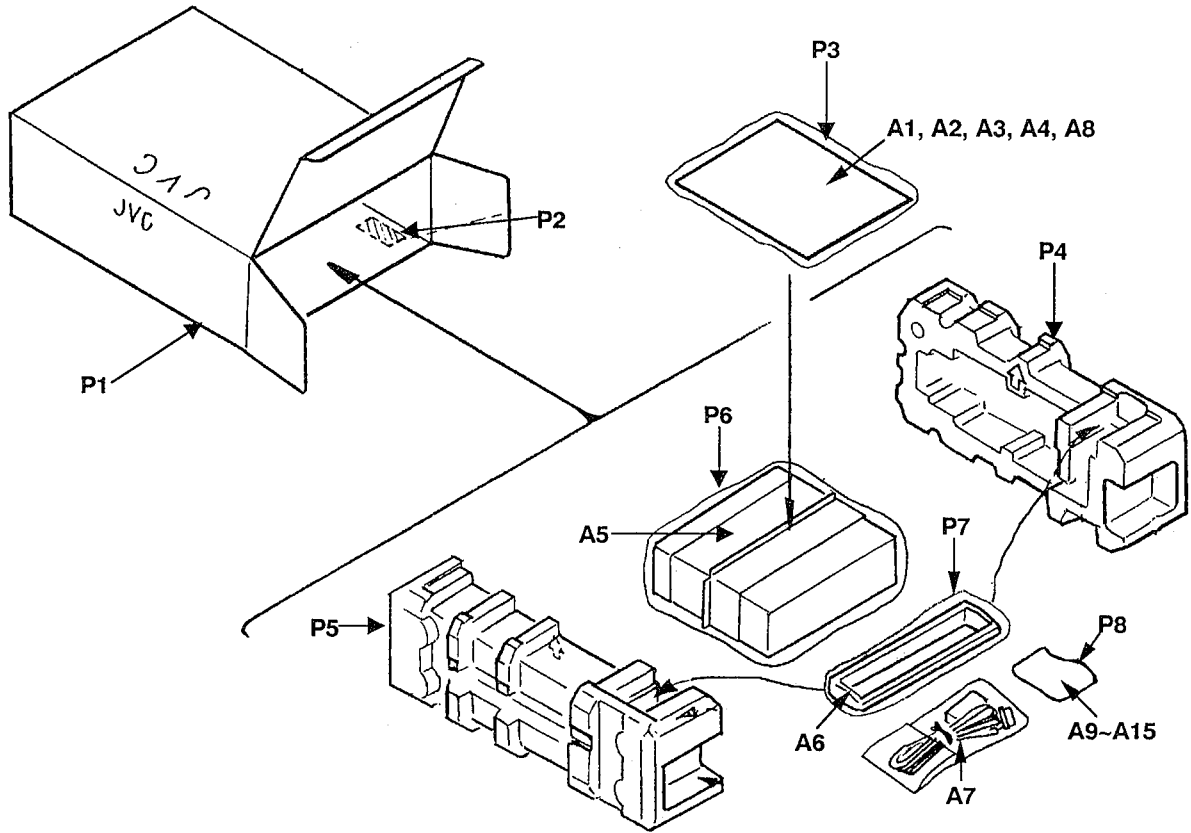


Fig. 14-1

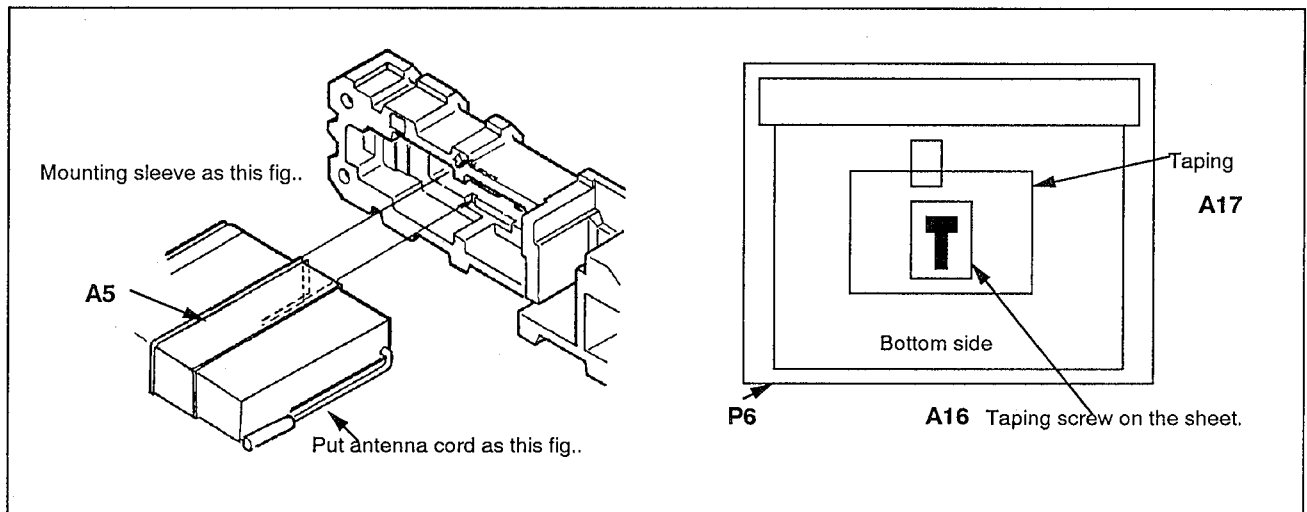


Fig. 14-2

■ Packing parts list

BLOCK NO. M3MM

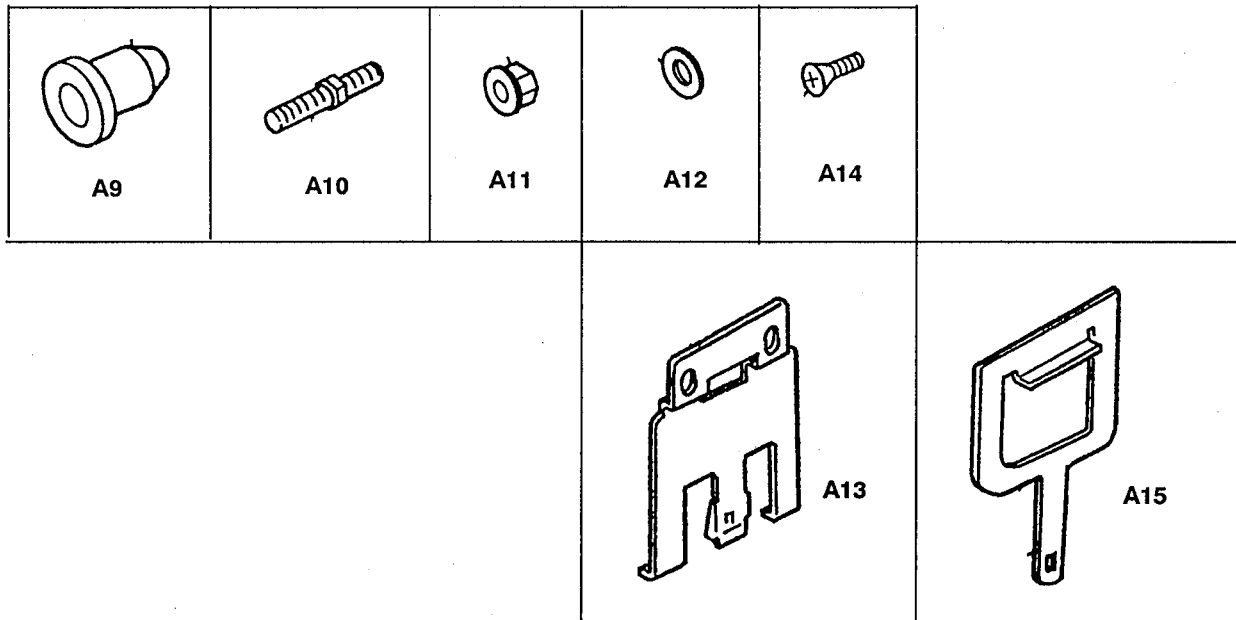
| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|---------------|--------------|---------------|-----|--------|-----|
| | P 1 | VPC3491-S001 | CARTON | | 1 | | |
| | P 2 | VND3044-006 | NUMBER LABEL | | 1 | C | |
| | | VND3044-002 | NUMBER LABEL | | 1 | J | |
| | P 3 | QPGA017-02505 | POLY BAG | INSTRUCTIONS | 1 | | |
| | P 4 | VPH1652-001 | CUSHION(L) | | 1 | | |
| | P 5 | VPH1652-002 | CUSHION(R) | | 1 | | |
| | P 6 | VPE3020-046 | POLY BAG | FOR SET | 1 | | |
| | P 7 | QPGA010-03003 | POLY.BAG | TRIM PLATE | 1 | | |
| | P 8 | QPGA008-01205 | POLY BAG | FOR SCREW KIT | 1 | | |

■ Accessories

BLOCK NO. M4MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|-------|----------------|-----------------|-----------------|-----|--------|-----|
| | A 1 | VNN3491-631S | INSTRUCTIONS | | 1 | C, J | |
| | A 2 | VNC2400-090 | CAUTION SHEET | | 1 | | |
| | A 3 | BT-20059D | WARRANTY CARD | | 1 | J | |
| | | BT-20025L | WARRANTY CARD | | 1 | C | |
| | A 4 | BT-20137 | SERVICE NETWORK | | 1 | J | |
| | | BT-20071B | SERVICE NETWORK | | 1 | C | |
| | A 5 | VKL3732-018SS | MOUNTING SLEEVE | | 1 | | |
| | A 6 | VJC3263-001 | TRIM PLATE | | 1 | | |
| | A 7 | VMC0014-140 | 13P CORD ASS'Y | | 1 | | |
| | A 8 | VNC2400-098 | CAUTION SHEET | | 1 | | |
| | A 9 | VKZ4027-202 | PLUG NUT | | 1 | | |
| | A 10 | VKH4871-001 | MOUNT BOLT | | 1 | | |
| | A 11 | VKZ4328-001 | LOCK NUT | FOR M5 | 1 | | |
| | A 12 | WNS5000Z | WASHER | | 1 | | |
| | A 13 | VKY4462-004SS | SIDE SPRING | | 2 | | |
| | A 14 | SSSP4006Z | SCREW | FOR SIDE SPRING | 4 | | |
| | A 15 | VJH4089-001SS | HANDLE | | 2 | | |
| | A 16 | SPSJ1725M | SCREW | | 1 | | |
| | A 17 | VND4619-005 | CAUTION SHEET | | 1 | | |
| | KIT 1 | KDGS40K-SCREW1 | SCREW KIT | A9-A15, P8 | 1 | | |

■ Breakdown of screw kit (KIT 1)



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