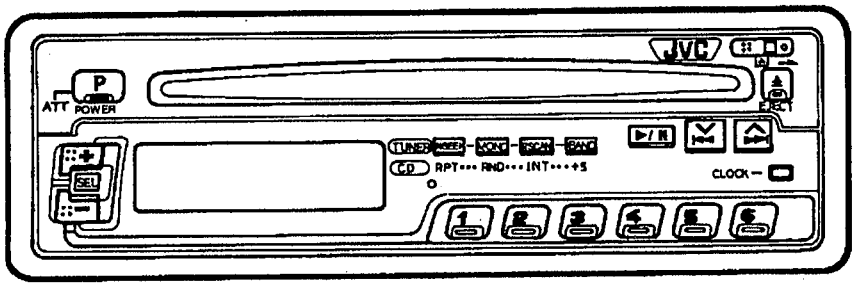
JVC

SERVICE MANUAL

CD RECEIVER

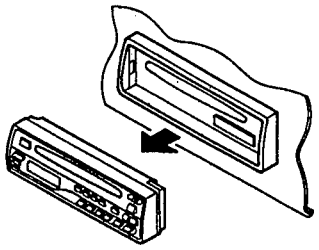
KD-GS50 A/C/J/U



Detachable

DIGIFINE

COMPACT disc DIGITAL AUDIO



Area Suffix

A ..... Australia
C ..... Canada
J ..... U.S.A.
U ..... Other Areas

Contents

1. Important for Laser products 2
2. Specifications 2
3. Main Features 2
4. Instructions(Extracts) 3
5. Location of Main Parts 8
6. Removal of Main Parts 9
7. Analytic Drawing and Parts List 12
8. Main Adjustment 16
9. Block Diagram 20
10. Wiring Connections 21
11. Standard Schematic Diagram 22
12. Location of P.C. Board Parts 24
13. Electrical Parts List 25
14. Illustration of Packing and Parts List 28

No. 49204B
Feburary 1995

1. Precautions

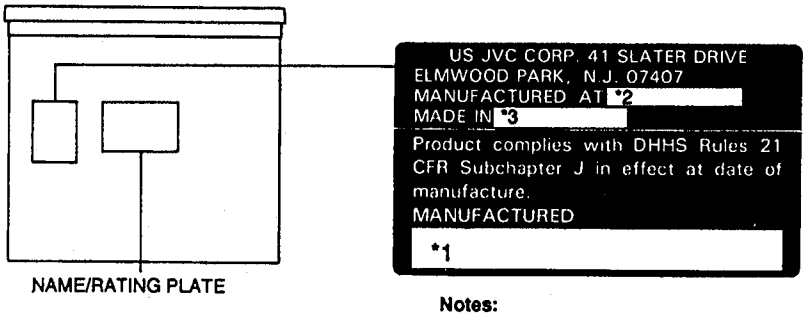
IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

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



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

2. Speacifications

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
Line-Out Level: 1.5 V/20 kΩ load (Full scale)
Output Impedance: 1 kΩ

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 159 mm (7-1/16" x 2" x 6-5/16")
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)

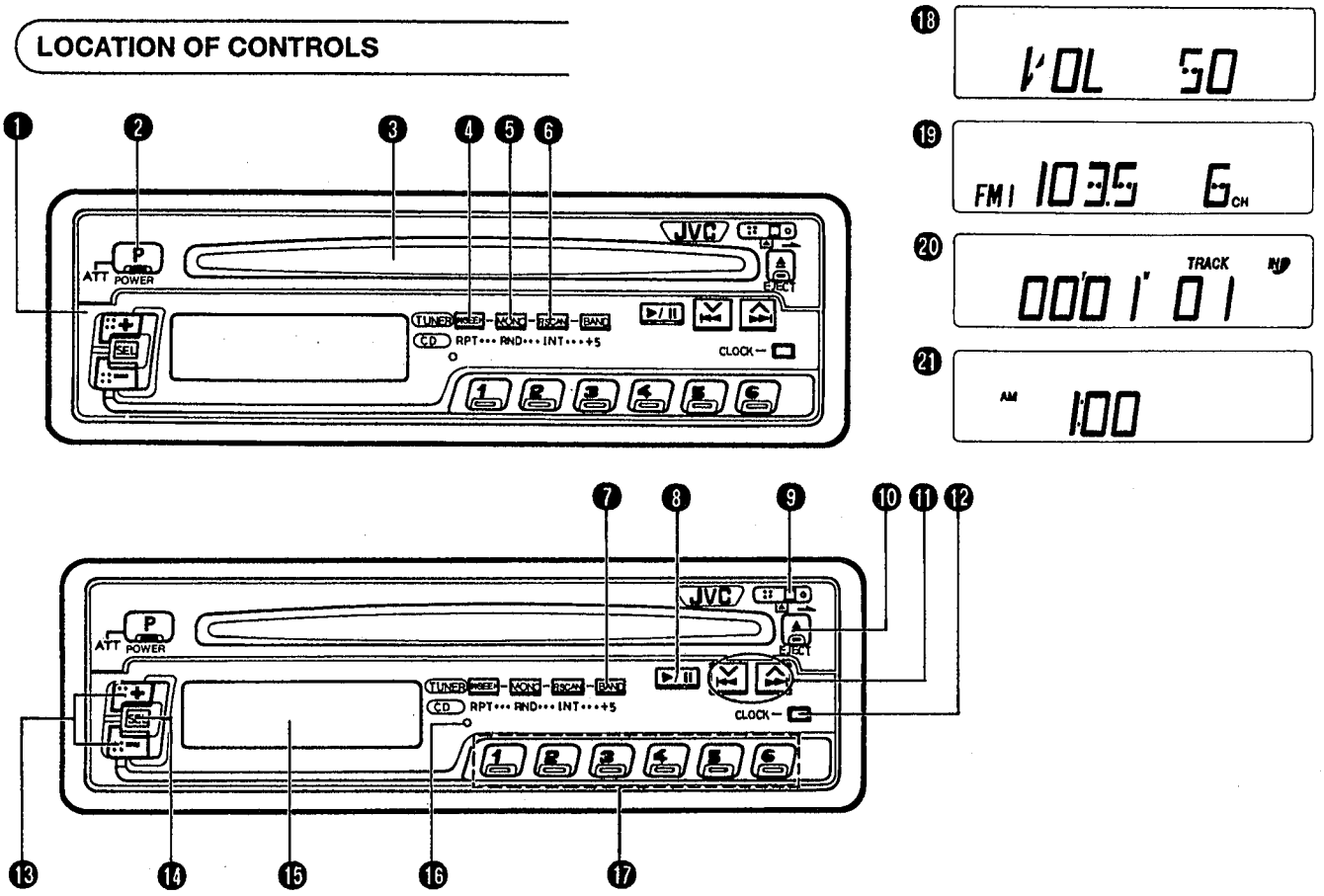
Design and specifications subject to change without notice.

3. Main Features

- Detachable Control Panel
- "Direct-in" disc loading system
- Direct Access Play/Skip Play/Search Play/ Repeat Play/Random Play/Intro Play
- High Sensitivity Tuner
- 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
- Line Output Terminal

4. Instructions(Extract)

LOCATION OF CONTROLS



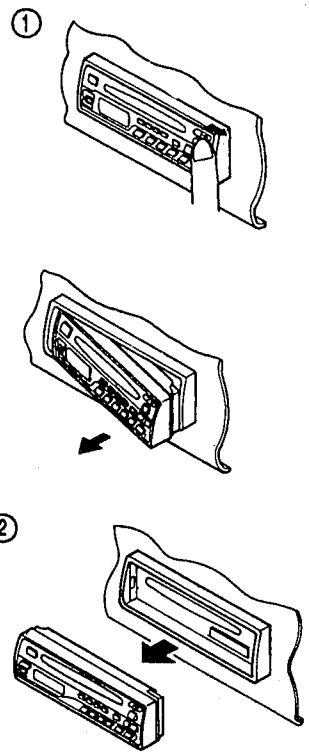
❶ Control panel
❷ POWER (P)/Attenuator (ATT) switch
POWER: Press to turn the power ON. Press for more than 1 second to turn the power OFF.
ATT: When this button is pressed during operation, the volume drops and the ATT indicator blinks. Press again to return to the original volume.
❸ CD loading slot
❹ Manual (M)/SEEK button
Repeat (RPT) button
❺ MONO button
Random (RND) button
❻ Preset Scan (P. SCAN) button
Intro (INT) button

❼ BAND/+5 button
❽ Play (►)/Pause(❚❚) button
❾ Control Panel Release (⏏) switch
❿ Eject (⏏) button
⓫ Tuning/Time Adjustment/Skip (search) button
Down frequency/Hour adjustment (≪)/(|◄◄)
Up frequency/Minute adjustment (≫)/(►►|)
⓬ CLOCK button
⓭ Level Control buttons
Use to adjust the volume, bass, treble, fader, balance and loudness. (See page 18.)

⓮ Electronic Control Mode Select (SEL) button
⓯ Display window
⓰ Microcomputer Reset button
⓱ Preset Station buttons (No.1 to No.6)
Track Number buttons (No.1 to No.6)
⓲ Indicators (for Audio Control section)
Volume (VOL)
Bass (BAS)
Treble (TRE)
Fader (FAD)
Balance (BAL)
Loudness (LOUD)
Attenuator (ATT)
Level indicator
⓳ Indicators (for Tuner section)
Band (FM1-FM2-FM3-AM)
Radio frequency
Preset Station
SEEK
Mono (MO)
FM Stereo (ST)
⓴ Indicators (for CD player section)
LOAD
PLAY
TRACK
Track number
RPT
RND
EJECT
NO DISC
㉑ Indicators (for other controls)
Time
AM
PM

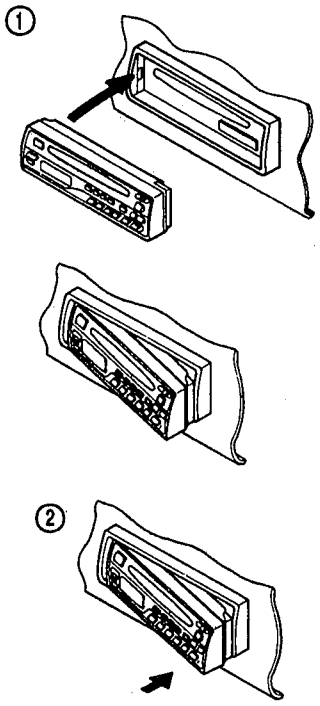
How To Detach The Control Panel

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

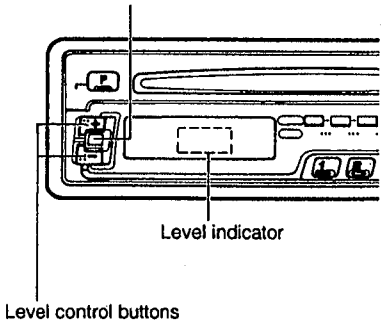
① Insert the left side of the control panel into the groove on the left side of the holder.
② Press the right side (near the CLOCK button) to set it correctly.



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

Audio Level Control

Electronic control mode select button (SEL)

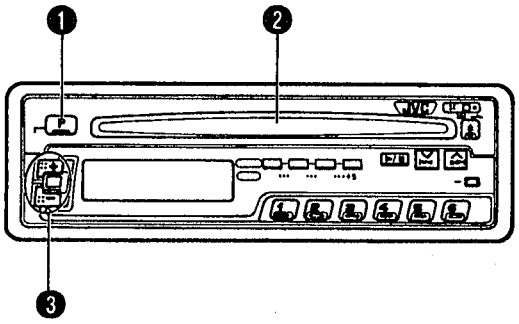


Loudness Control

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.

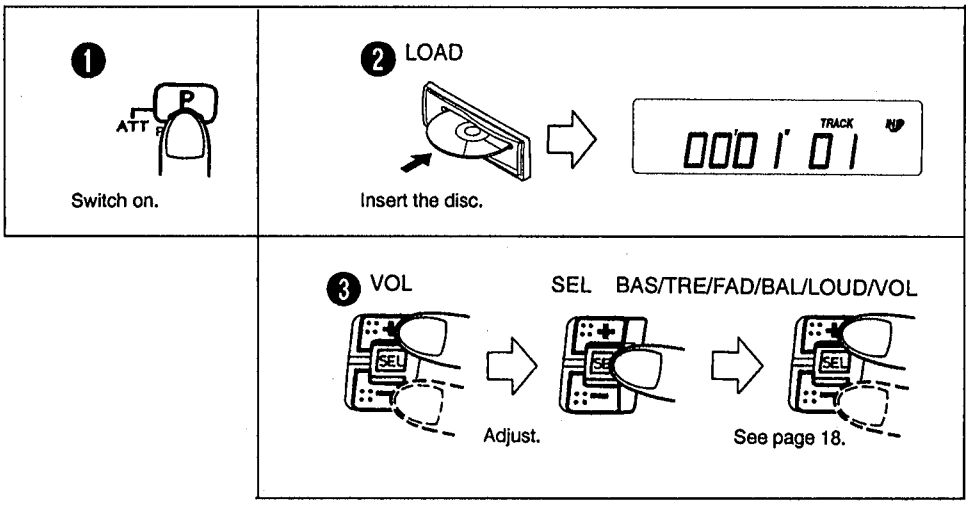
Electronic control mode			
VOL	Volume	(00 – 50) Decreases	(00 – 50) Boosts
BAS	Bass	(– 08) – (00) Decreases	(00) – (+08) Boosts
TRE	Treble	(– 08) – (00) Decreases	(00) – (+08) Boosts
FAD	Fader	(R10 – 00) Rear	(00 – F10) Front
BAL	Balance	(L10 – 00) Rear	(00 – R10) Right
LOUD	Loudness	Off	On

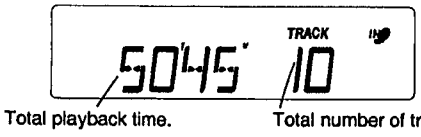
PLAYING COMPACT DISCS

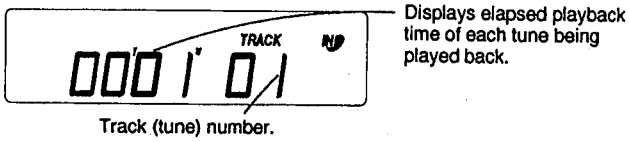


How To Play All Tracks
The following example shows a CD containing 10 tracks with a total playback time of 50 minutes, 45 seconds.

Operate in the order shown.







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 (►►I) button once to skip to the beginning of the next track.
How to listen to the previous track...
Press the (I◄◄) button once to skip to the beginning of the current track, then again to skip to the previous track.

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

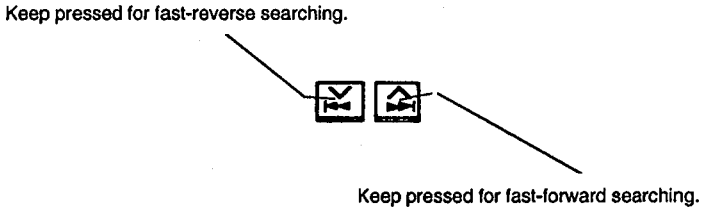
- During playback, you can easily skip to the beginning of the previous, current, or next track, and playback will start again from there.

How to listen to the next track...
Press the (►►I) button once to skip to the beginning of the next track.
How to listen to the previous track...
Press the (I◄◄) 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.



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

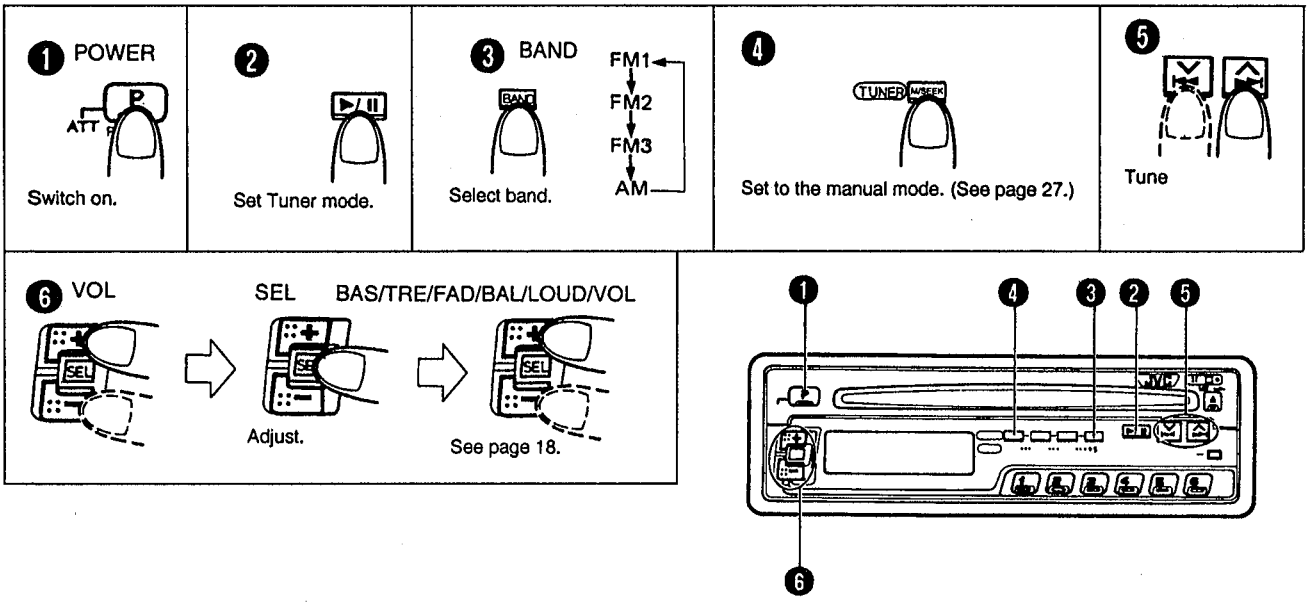
When the RPT button is pressed, the current track is played again. Press RPT again to cancel repeat playback. The RPT indication goes out and all-tracks playback is resumed.

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

Press to move to lower frequencies.

Press to move to higher frequencies

Seek Tuning

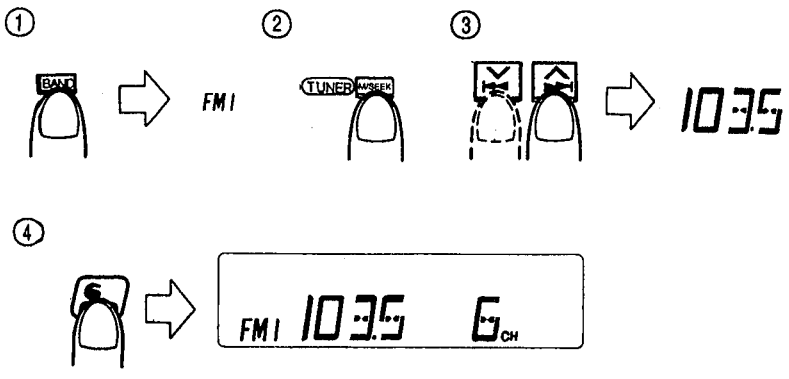
Set Seek mode using the M/SEEK button; the indicator lights. Then, by pressing the ⩓ (UP) or ⩔ (DOWN) button the unit tunes to the adjacent station with a higher or lower frequency.

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.

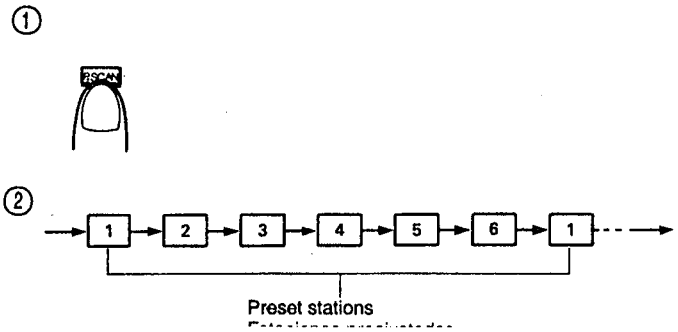
Preset Tuning

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.



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".)

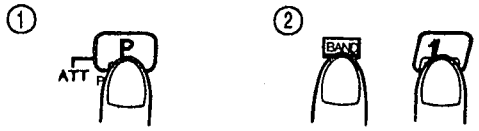
Mono Button

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.

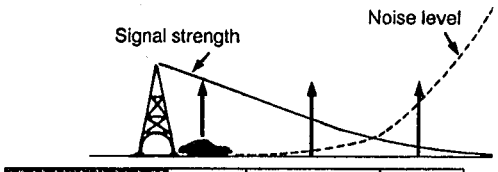
To change back to the original intervals, repeat the above operation.

FM Pulse Noise Suppressor

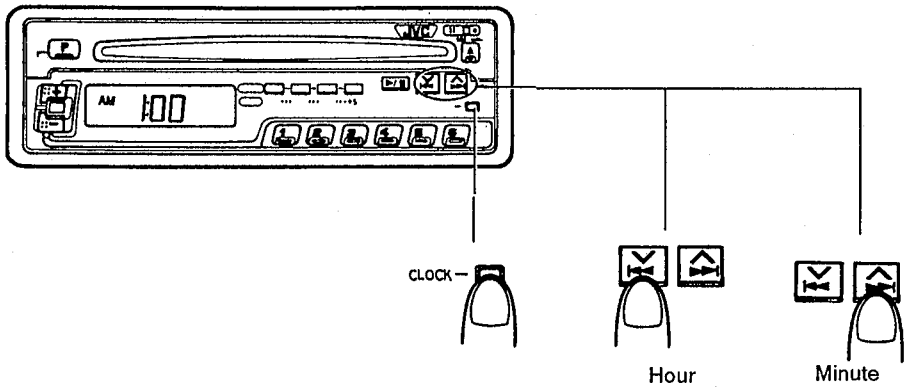
This unit has built-in circuitry to effectively eliminate engine noise picked up by the antenna, etc. in the form of FM pulses, for a more favorable FM reception.

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.



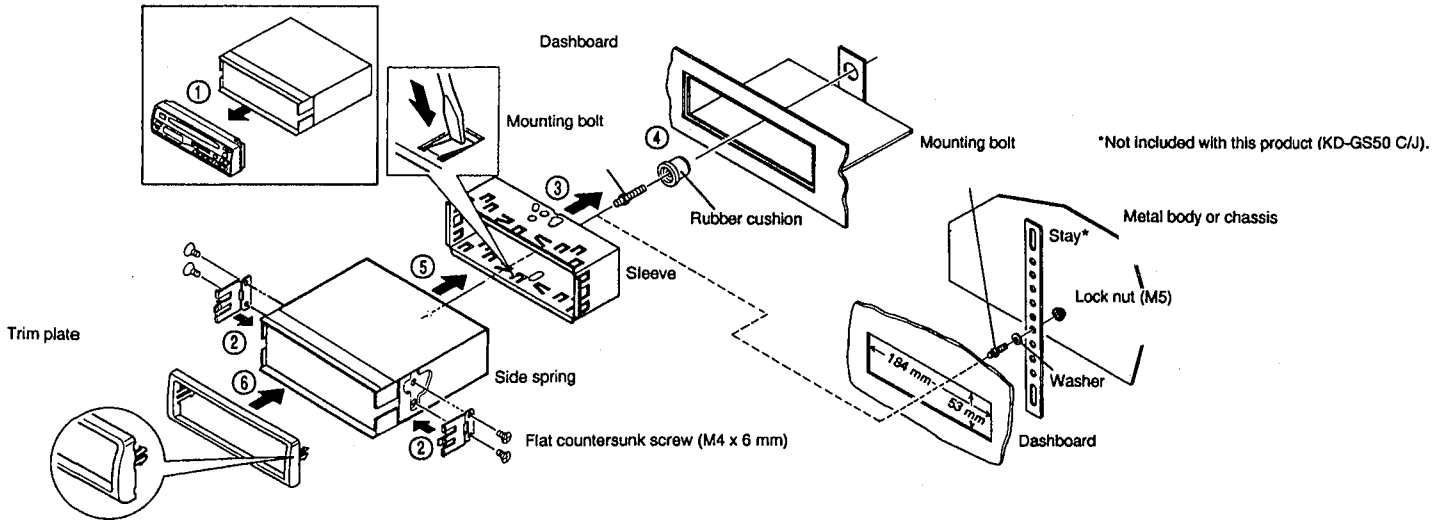
	A	B	C
[illegible]	Strong	Not so strong	Weak
[illegible]	Stereo	Blend	Mono
[illegible]	–	→	(Operates)



INSTALLATION (IN-DASH MOUNTING)

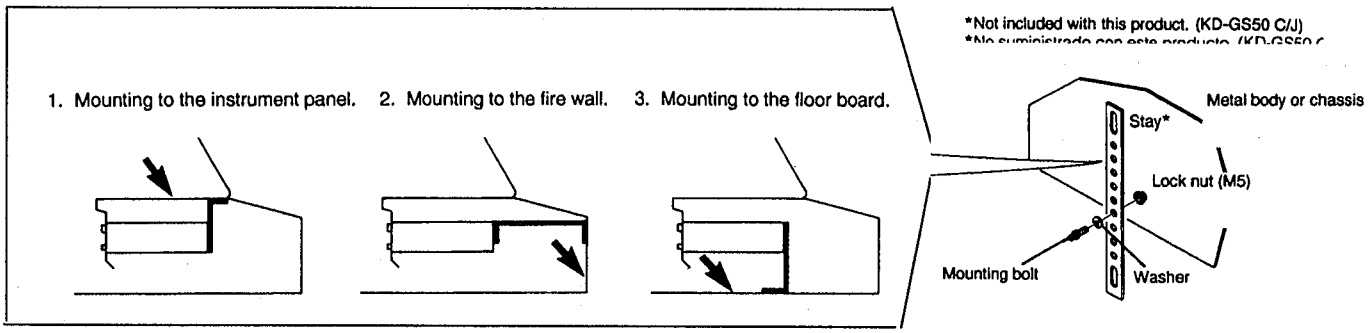
- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- Follow the numbers for mounting.



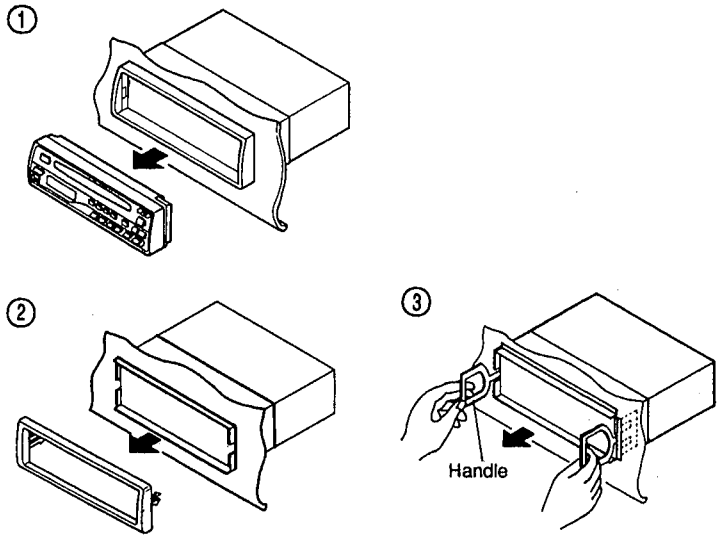
① Slide the Control Panel Release (⏏) switch to the right and remove the control panel.
② Attach the 2 side springs.
③ Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
④ Fix the mounting 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.

• Examples for use of the back stay:



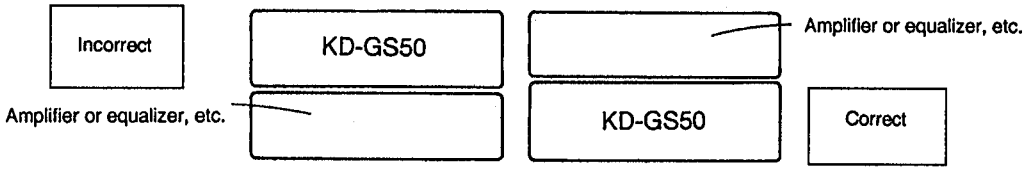
Removing the unit

• 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.



Installing With Other Equipment

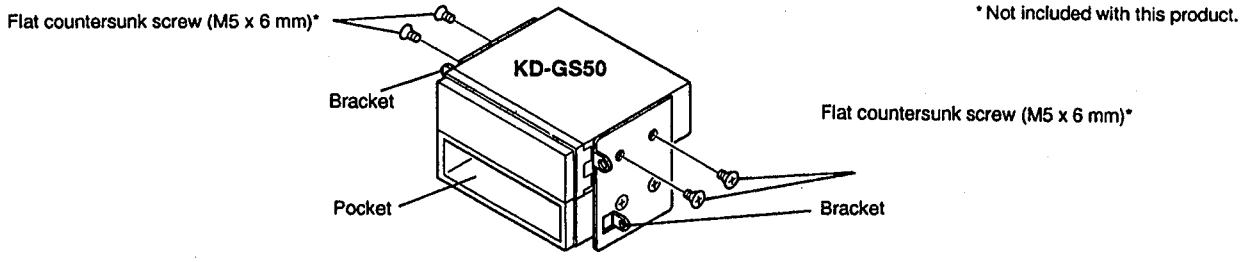
When installing this unit with other equipment, make sure it is positioned under them so its temperature does not rise.



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.

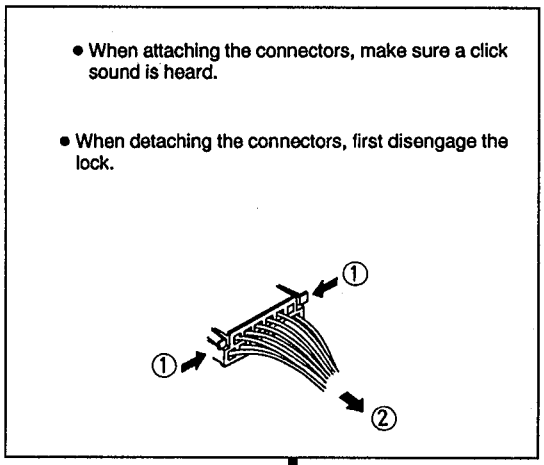
- Maximum input of the speakers should be more than 22 watts at the rear and 22 watts at the front, with an impedance of 4 to 8 ohms.

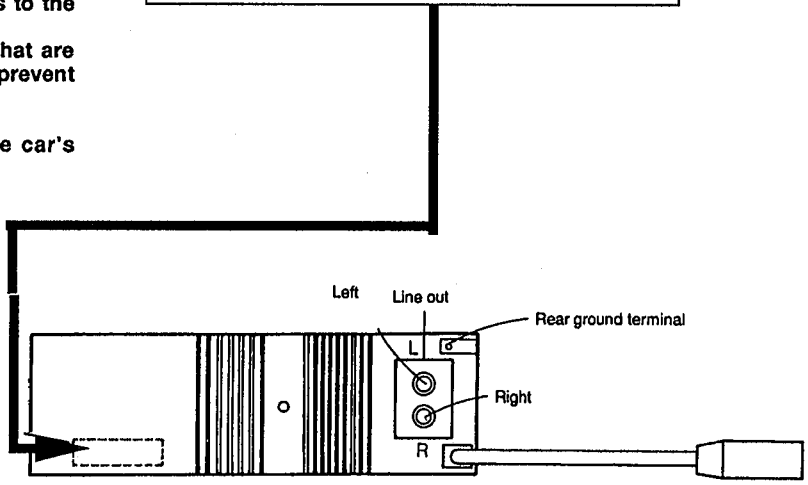
CAUTIONS:
As this unit uses BTL (Balanced Transformerless) amplifier circuitry (floating ground system), please comply with the following:

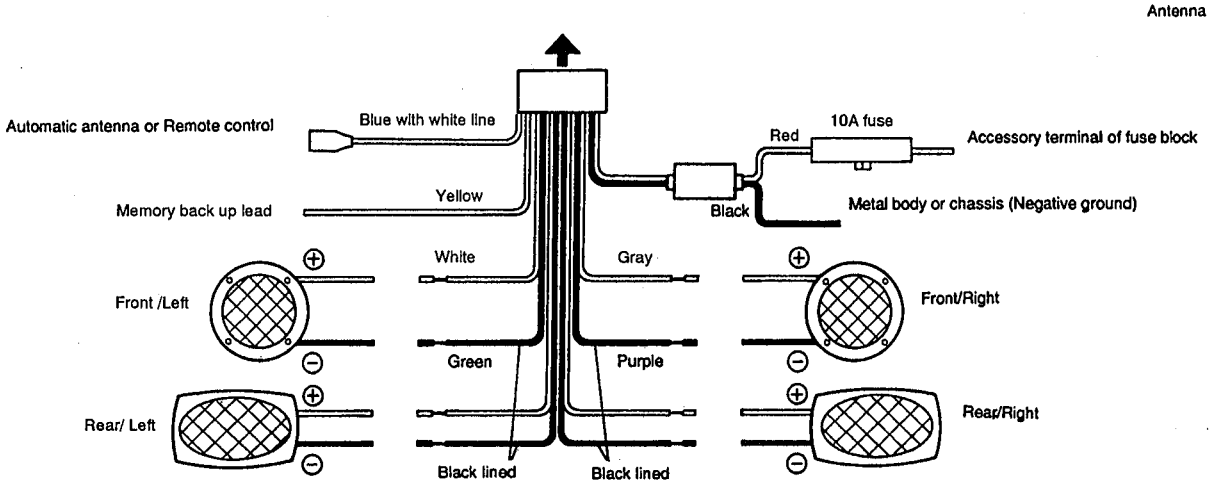
1. **Do NOT connect the black-lined speaker leads to a common point.**
2. **Do NOT connect the speaker leads to the metal body or chassis.**
3. **Cover the terminals of the leads that are NOT used with insulating tape, to prevent them from shorting.**

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

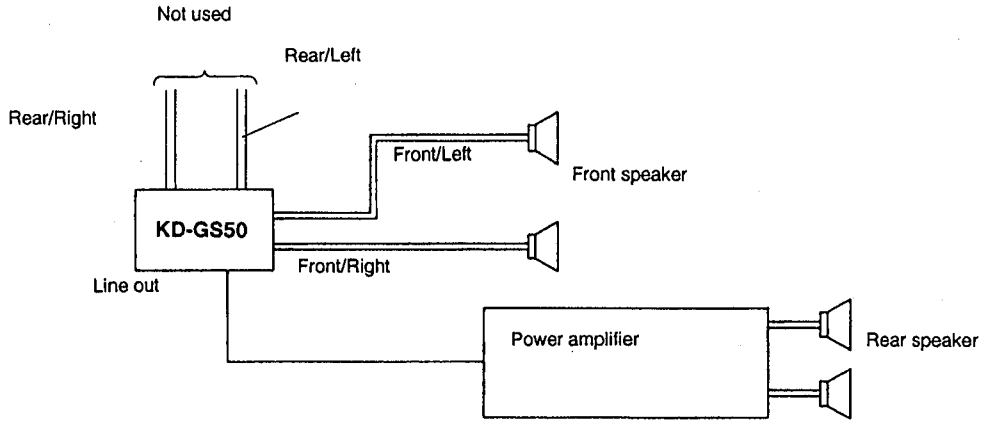
A. 4-Speaker Connections







B. 4-speaker connection when adding a power amplifier



C. 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.

D. 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.

E. Memory Back-Up Lead

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

F. Fader Control

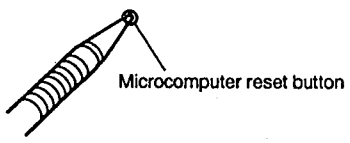
- When used in a 4-speaker system
  Use this control to balance the volume levels of the front and rear speakers. Set Fader mode using the SEL button and press the + Level Control button to decrease the volume level of the rear speakers, and - to decrease that of the front speakers. The overall volume level can be adjusted in Volume mode. (See page 18.)
- When used in a 2-speaker system
  Set this control to the center position ("00" is displayed).

IMPORTANT INFORMATION

1. This unit is designed to operate with 12 volts DC, NEGATIVE ground electrical systems only.
2. Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
3. If noise is a problem...
   This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's rear ground terminal to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.

Antenna Noise
If you can hear static noise when listening to either AM or FM, check for loose antenna connections.

Microcomputer Reset Button
After completing installation and all connections, press this button (using a ball-point pen, etc.) to reset the built-in microcomputer. Use this button only when the power supply is interrupted, such as after replacing the car's battery, when the microcomputer does not function correctly due to noise, or when this unit's buttons do not operate normally.



5. Location of Main Parts

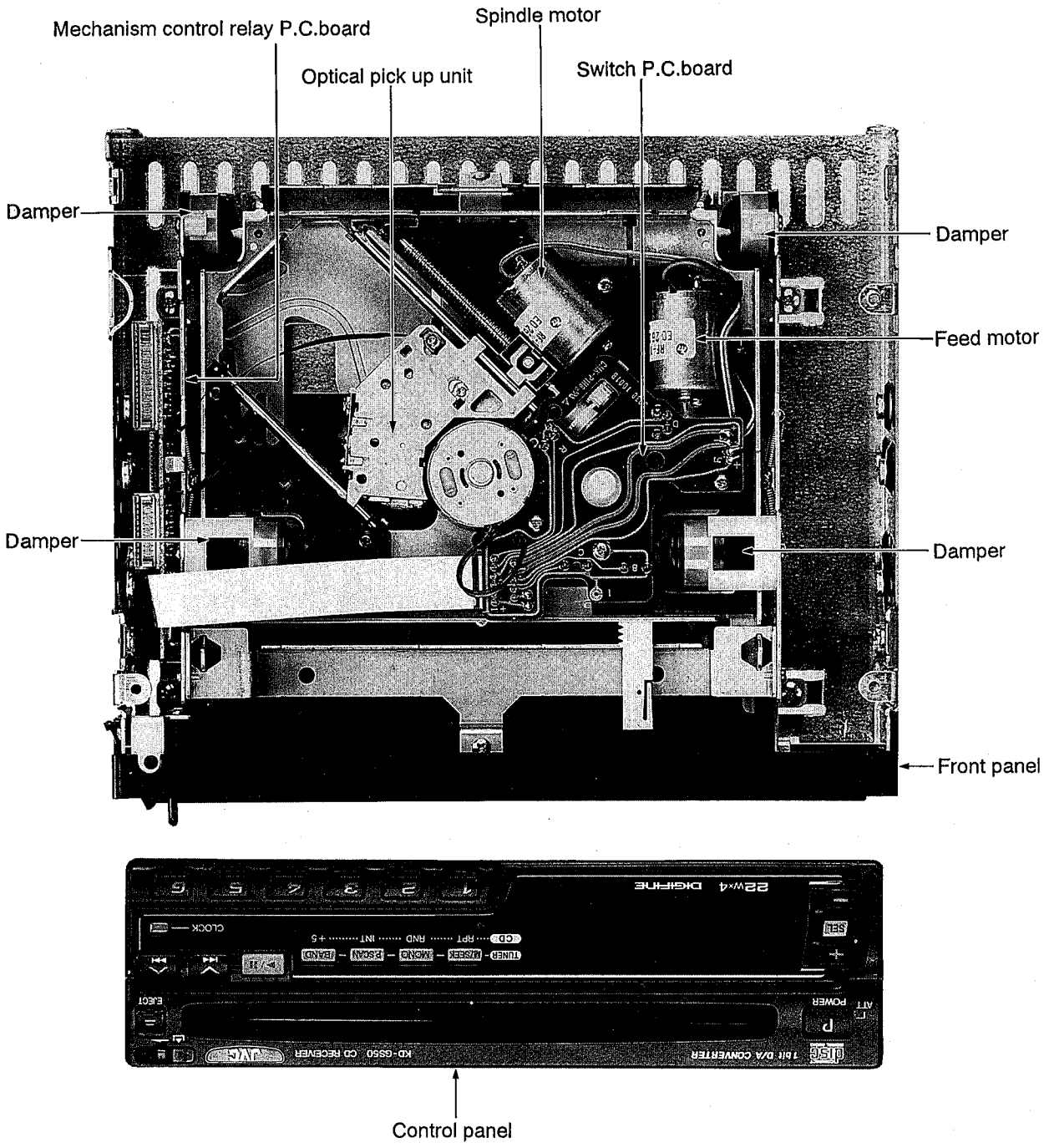


Fig. 5-1

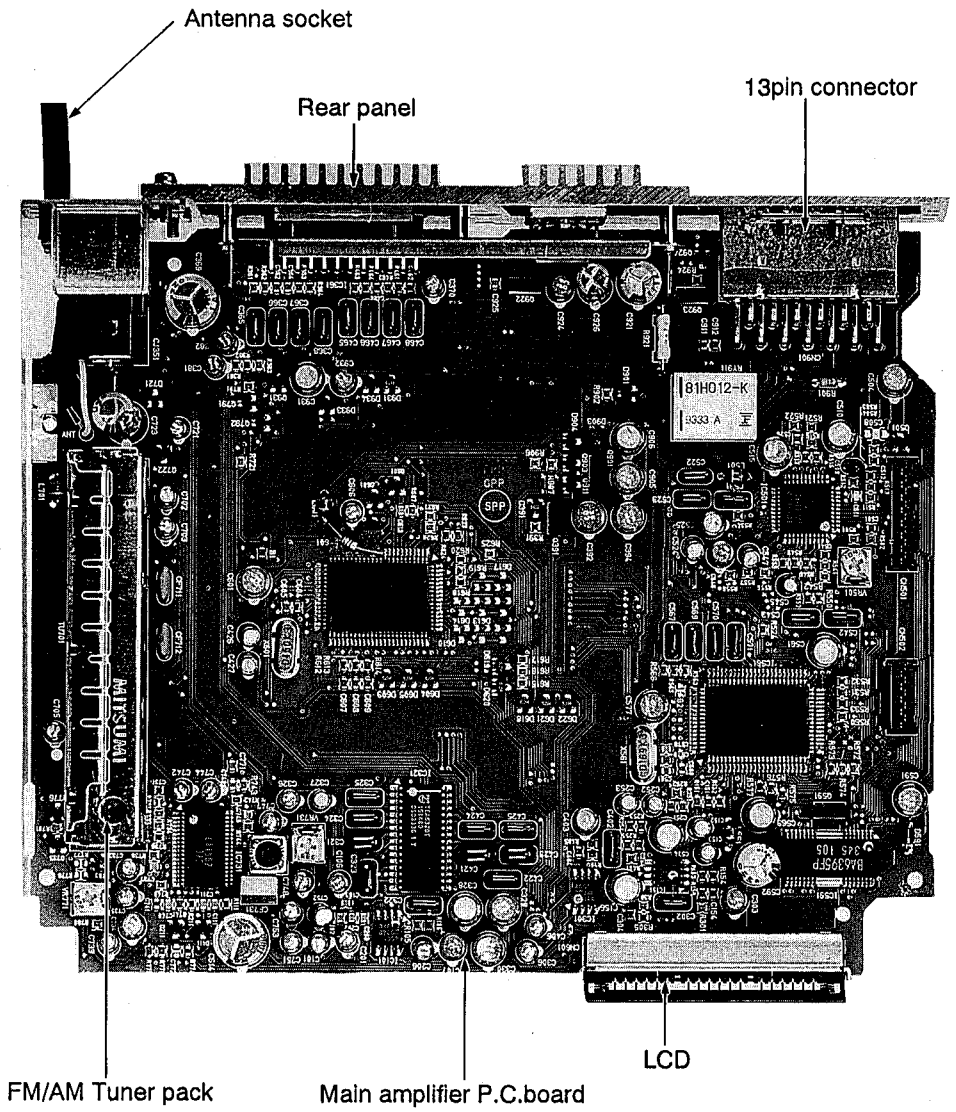

Antenna socket
Rear panel
13pin connector
81H012-K
LCD
FM/AM Tuner pack
Main amplifier P.C.board

Fig. 5-2

6. Removal of Main Parts

■ **Removal of bottom cover** (Figs. 6-1, 6-2, 6-3)

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.

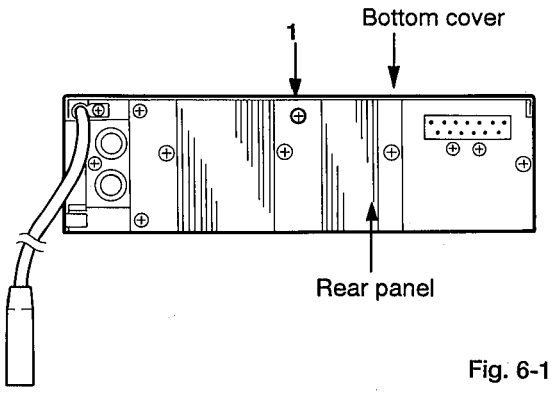


Fig. 6-1

■ **Removal of front chassis** (Figs. 6-2, 6-3)

1. Place the set so that the front side faces toward you, and move the control panel release button located in the upper right of the control panel in the direction of the arrow to remove the control panel from the main unit.
2. Remove two black screws "2" retaining the front chassis.
3. Insert an ordinary (–) screwdriver into the gap in the hooks (e, f, g, h) one after another to separate the front chassis from the main unit for removal.

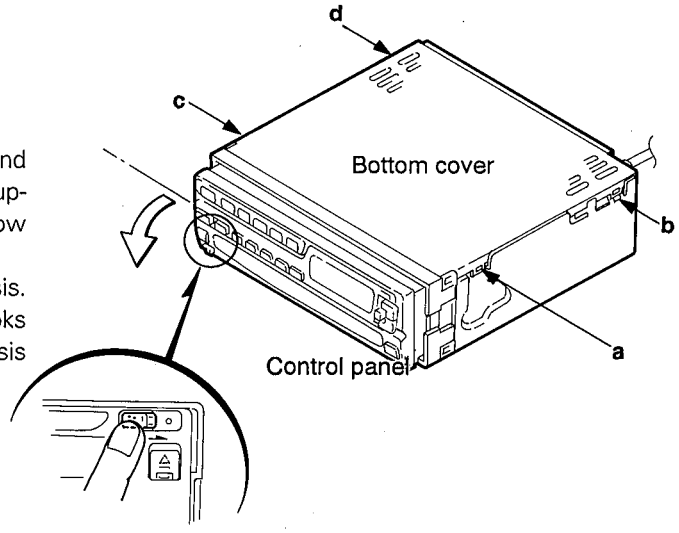


Fig. 6-2

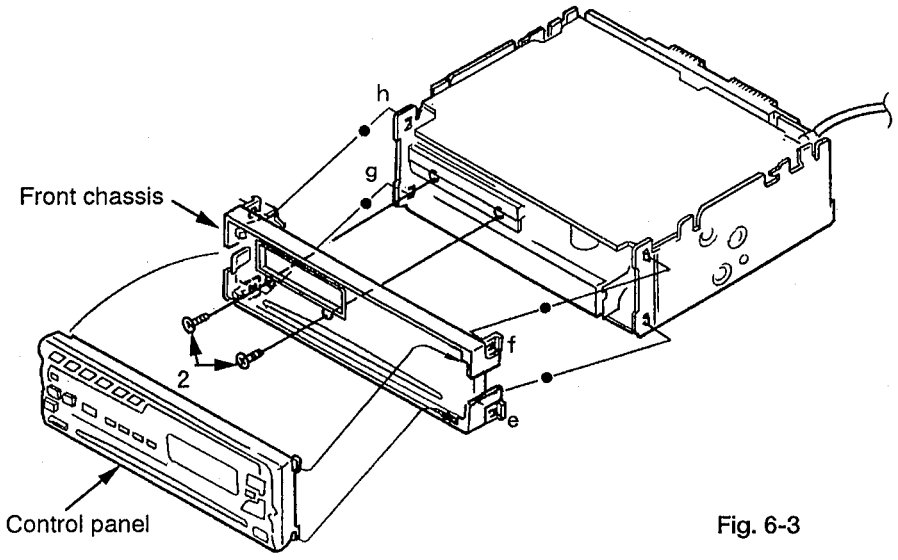


Fig. 6-3

■ **Removal of main P. C. board assembly** (Figs. 6-4, 6-5)

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

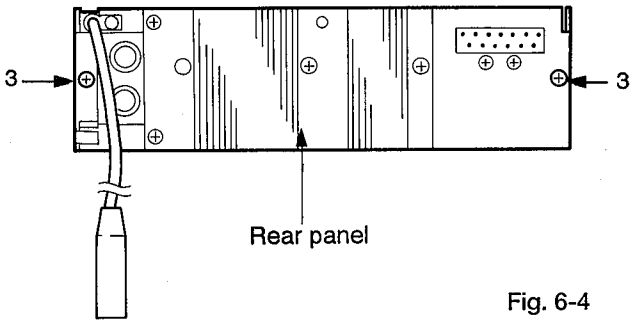


Fig. 6-4

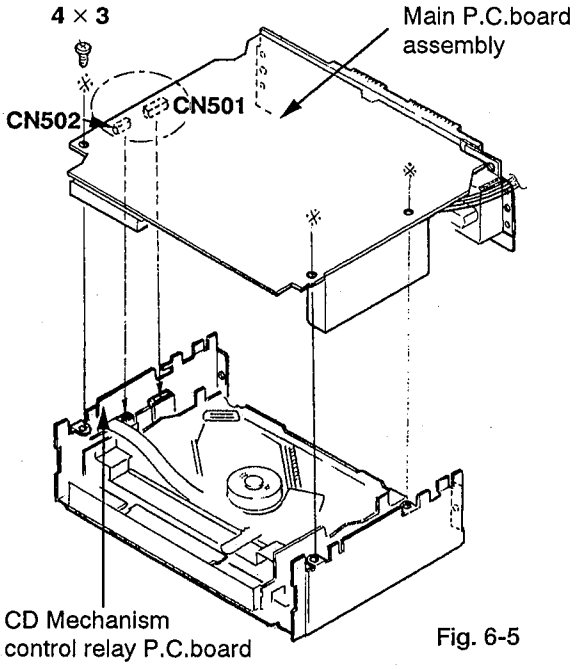


Fig. 6-5

■ **Removal of CD mechanism assembly** (Fig. 6-6)

1. Remove the bottom cover. (Refer to "Removal of bottom cover".)
2. Remove the front chassis. (Refer to "Removal of front chassis".)
3. Remove the main P. C. board. (Refer to "Removal of main P. C. board".)
4. Remove four screws "5" retaining the CD mechanism assembly from the chassis.

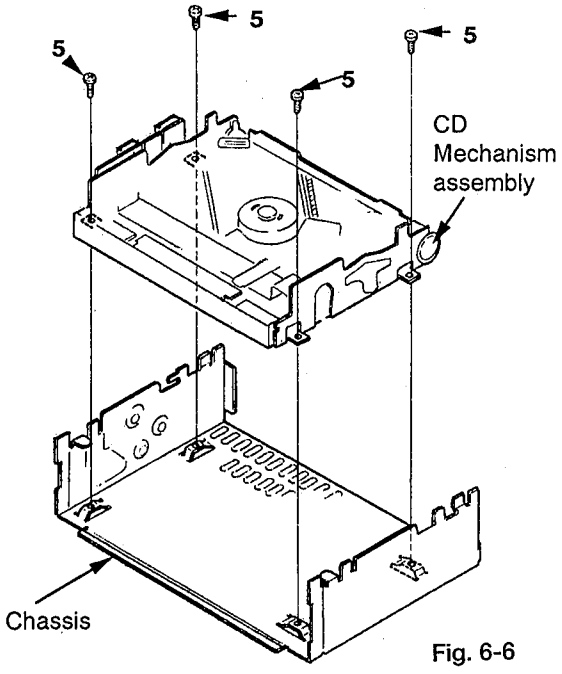


Fig. 6-6

■ **Removal of CD pickup** (Figs. 6-7, 6-8, 6-9)

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 11-pin F. P. C. wire and the 4-pin 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.

● **Cautions for removing and reassembling**

1) For disconnecting the 11-pin and 4-pin F. P. C. wires, first move the connector in the direction of the arrow shown in Fig. 6-8.
2) When reassembling, arrange the 11-pin and 4-pin F. P. C. wires as shown in Fig. 6-8 and Fig. 6-9.

■ **Removal of feed motor and loading motor assembly** (Fig. 6-7)

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.

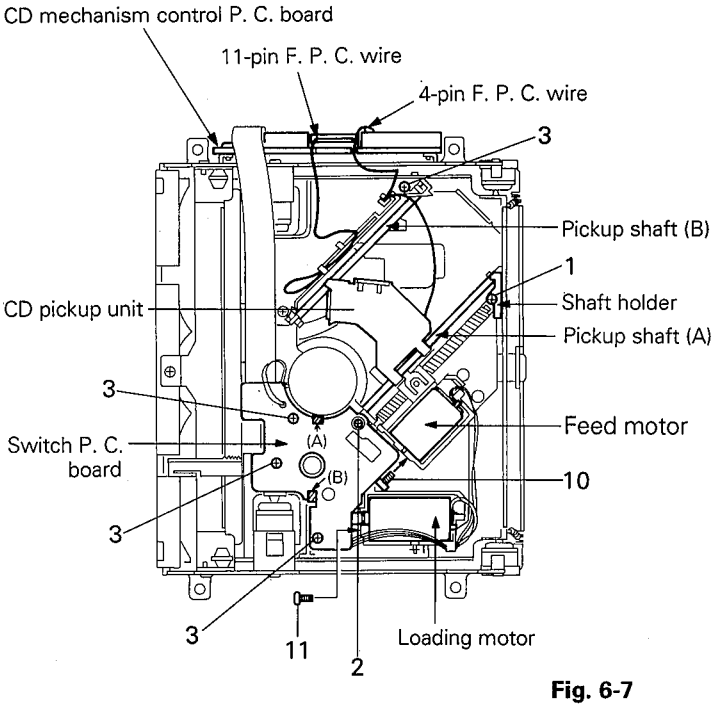


Fig. 6-7

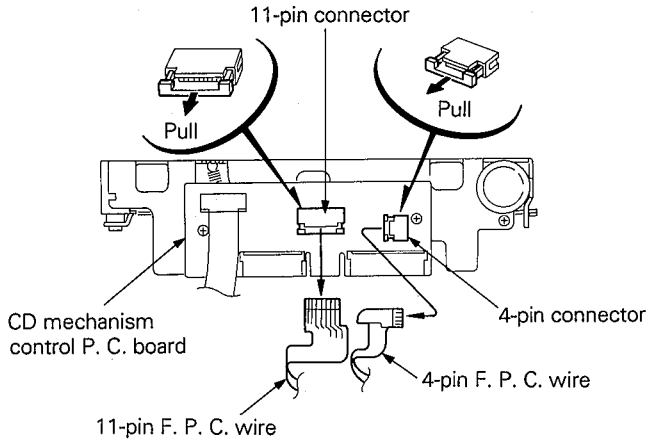


Fig. 6-8

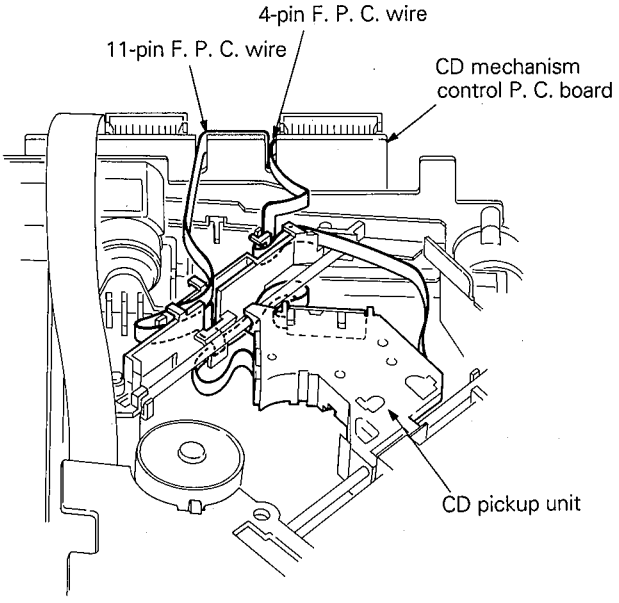


Fig. 6-9

7. Analytic Drawing and Parts List

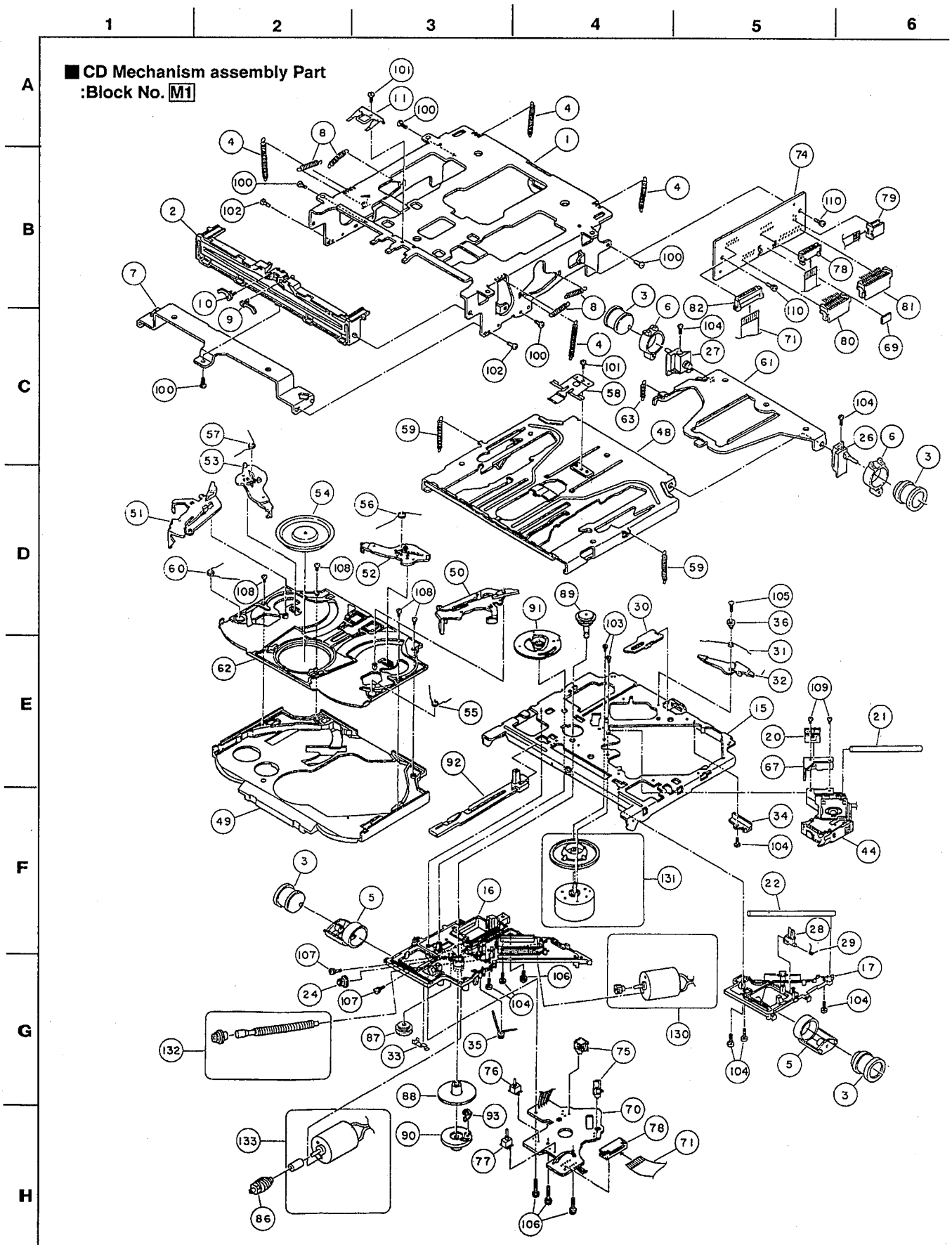


Fig. 7-1

■ CD Mechanism assembly parts list

BLOCK NO. M1MM

⚠	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	HANG UP A	4		
	5	30300108T	DUMPER BRACKET	"F"	2		
	6	30300109T	DUMPER BRACKET	"R"	2		
	7	30300110T	GUIDE BRACKET		1		
	8	30300111T	TORSION SPRING		4		
	9	30300113T	DISC STOPPER R		1		
	10	30300114T	DISC STOPPER L		1		
	11	30300115T	SPRING PLATE		1		
	15	30300501T	DISK BASE		1		
	16	30300502T	STOPPER BASE	FEED MOTOR	1		
	17	30300503T	GUIDE BASE	PICK UP	1		
	20	30300506T	NUT		1		
	21	30300507T	DRIVE SHAFT(A)		1		
	22	30300508T	DRIVE SHAFT(B)		1		
	24	30300510T	PU GEAR(B)		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	CLASPER		1		
	31	30300517T	TORSION SPRING	CLASPER	1		
	32	30300518T	CLASPER ARM		1		
	33	30300519T	SWING PLATE		1		
	34	30300520T	JOINT HOLDER		1		
	35	30300521T	TORSION SPRING		1		
	36	30300522T	COLLAR		1		
	44	OPTIMA-60B2	PICK UP	OPTIMA60MZ	1		
	48	30300601T	TRAY GUIDE BASE		1		
	49	30300602T	CD TRAY 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	CLAMPER		1		
	55	30300609T	TORSION SPRING	SELECT ARM(R)	1		
	56	30300610T	TORSION SPRING	STOPPER(R)	1		
	57	30300611T	TORSION SPRING	STOPPER(L)	1		
	58	30300612T	SPRING PLATE		1		
	59	30300613T	TORSION SPRING		2		
	60	30300614T	TORSION SPRING	SELECT ARM(L)	1		
	61	30300616T	CLAMPER ARM		1		
	62	30300618T	CD TRAY COVER A		1		
	63	30300617T	TORSION SPRING	CLAMPER ARM	1		
	67	30300701T	NUT HOLDER		1		
	69	19500834T	FFC TAPE		1		
	70	30301001T	PRINTED BOARD		1		
	71	30301003T	F-FFC		1		
	74	30301006T	PRINTED BOARD		1		
	75	64020413T	PUSH SWITCH		2		
	76	64020414T	PUSH SWITCH		1		
	77	64020415T	PUSH SWITCH		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	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		
	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	FEED MOTOR ASSY		1		
	131	303005302T	SPINDLE M.ASSY		1		
	132	303005303T	FEED SCREW ASSY		1		
	133	303011301T	LOADING M.ASSY		1		

■ Enclosure assembly part : Block No. M2

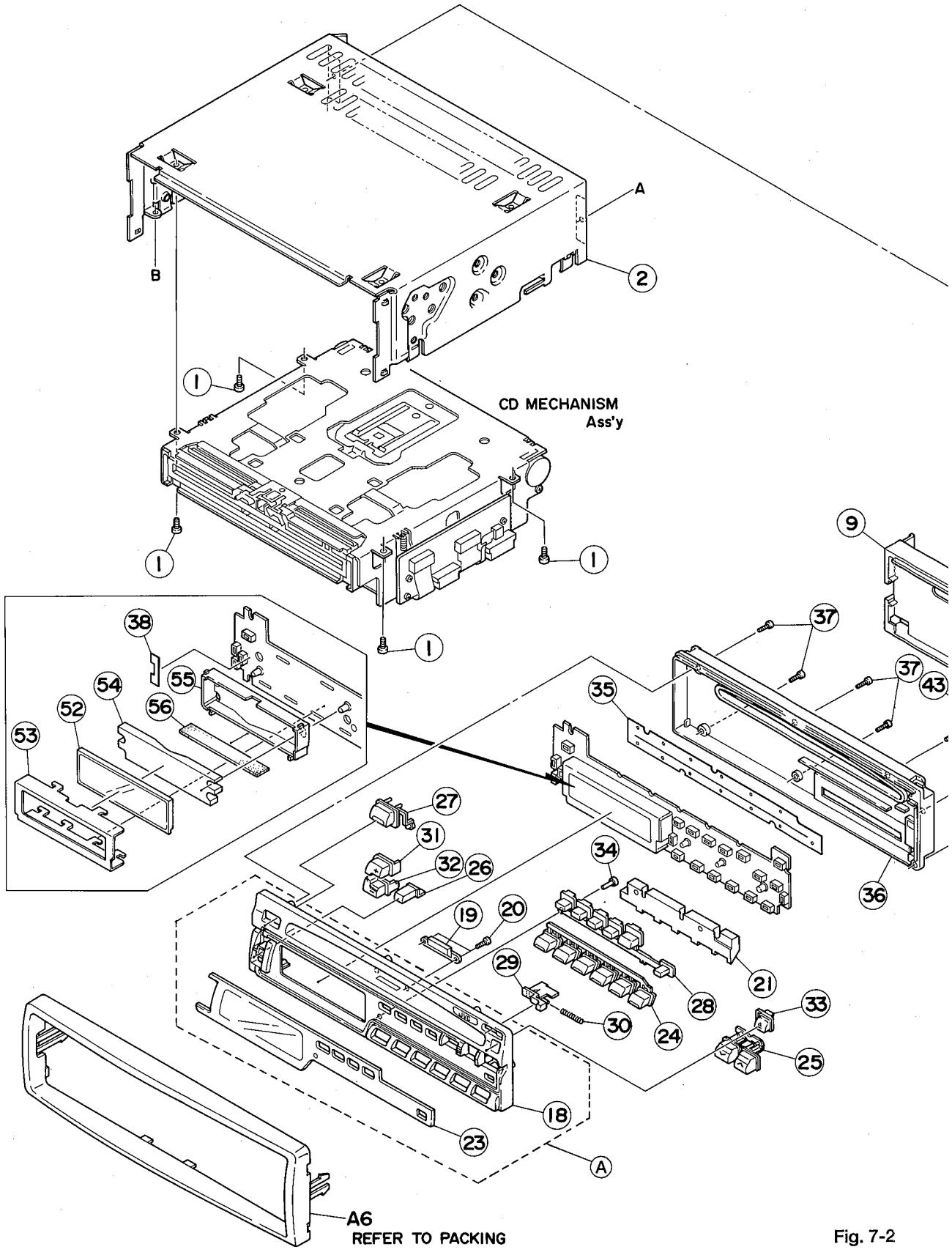
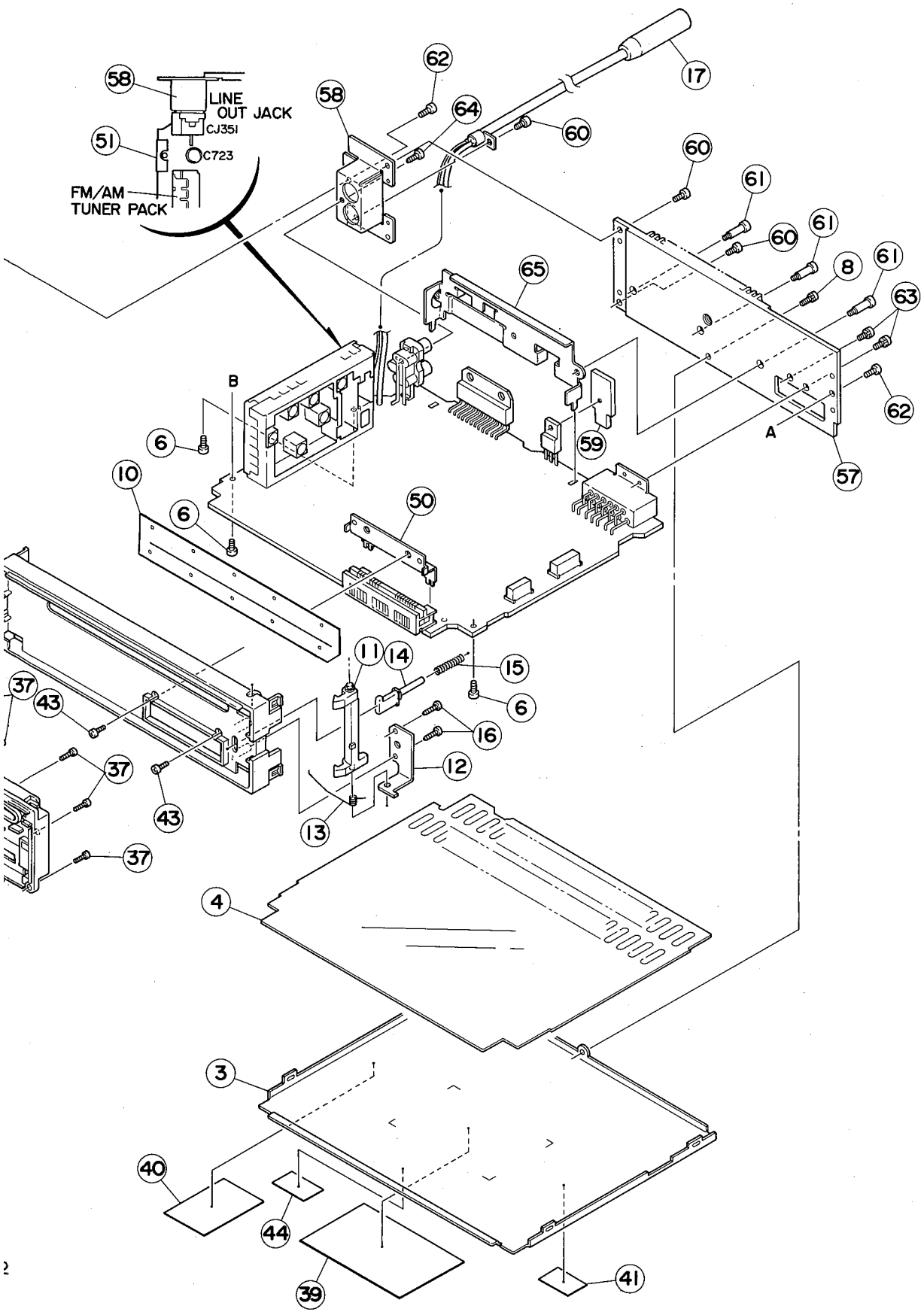


Fig. 7-2

6	7	8	9	10


LINE OUT JACK
CJ351
C723
FM/AM TUNER PACK
58
62
64
17
60
61
8
63
65
B
A
6
10
50
59
57
11
14
15
16
12
13
37
43
4
3
40
44
39
41

■ Enclosure assembly parts list

BLOCK NO. M2MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCKDGS50K-NPA	NOSE PIECE	REF.18,23	1		
	1	SDST2604Z	SCREW	MECHA.CHASSIS	4		
	2	VKL1423-001	CHASSIS		1		
	3	VKM3798-001	BOTTOM COVER		1		
	4	VMA3218-001	INSULATOR		1		
	6	VKZ4345-002	SPECIALSCREW	MAIN BOARD+SIDE	3		
	8	LPSP2608Z	SCREW	REAR SIDE BOTTO	1		
	9	VJC2529-002	FRONT CHASSIS	NOSE ASS'Y	1		
	10	VYTA514-001	BLIND(C)		1		
	11	VKS5491-001	LOCK LEVER		1		
	12	VKL7732-001	LEVER BRACKET		1		
	13	VKW5092-003	TORSION SPRING	FOR LOCK LEVER	1		
	14	VXP5252-001	RLS KNOB		1		
	15	VKW3001-298	COMP.SPRING	RLS KNOB	1		
	16	SDSF2008Z	SCREW	LEVER BRACKET	2		
	17	VMP0029-026	ANT SOCKET		1		
	18	VJG1295-003	FRONT PANEL		1		
	19	VJK3646-001	LIGHT LENS		1		
	20	SPSN1755N	MINI SCREW		2		
	21	VJK2196-001	BUTTON LENS		1		
	23	VJK2192-001	FINDER		1		
	24	VXP2091-003	PRESET BUTTON		1		
	25	VXP3603-002	UP DOWN BUTTON		1		
	26	VXP3656-001	SEL BUTTON		1		
	27	VXP3605-001	POWER BUTTON	A.HBS/MANU	1		
	28	VXP3657-004	ILL BUTTON	FUNCTION, B/CLK	1		
	29	VXP3658-001	DETACH BUTTON		1		
	30	VKW5128-001	COMP. SPRING	DETACH BUTTON	1		
	31	VXP3611-002	+ BUTTON		1		
	32	VXP3612-002	- BUTTON		1		
	33	VXP3659-002	EJECT BUTTON		1		
	34	VXP5251-001	RESET BUTTON		1		
	35	VYTA513-001	BLIND(P)		1		
	36	VJG1296-004	REAR COVER		1		
	37	SPSN1755N	MINI SCREW	FRONT+REAR	7		
	38	VYTH529-001	BUTTON CUSHION	SELECT BUTTON	1		
	39	VYN3489-001SA	NAME PLATE		1		
	40	VND4922-001	CAUTION LABEL		1	J	
	41	VND5008-001	FCC LABEL(4)		1	J	
	43	SDSP2008M	SCREW	FRONT CHASSIS	2		
	44	E407097-002	HYATT L.LABEL	J ONLY	1	J	
	50	VKM3818-001	CNN BRACKET		1		
	51	VKL7752-002	EARTH PLATE	C723 LEFT	1		
	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	VKM3799-001	JACK BRACKET		1		
	59	VMH4041-001	HEAT SINK		1		
	60	SDST2606Z	SCREW		3		
	61	VKZ4553-002	SPECIAL SCREW		3		
	62	SDST2606Z	SCREW		2		
	63	LPSP2608Z	SCREW		2		

BLOCK NO. M2MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	64	SDSF3006Z	SCREW		1		
	65	VKL7650-002	P.W.B.BRACKET		1		

8. Main Adjustment

■ Test Instruments reqired 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 ····· 20k Ω (LINE OUT)

4 Ω (SPEAKER OUT:2ch)

Output level ····· 1.5V(LINE OUT9, 1W(Speaker out)

● Standard volume position

Balance ····· Center

Fader ····· Center

Tone ····· Flat

■ Tuner section

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. Useing 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

■ Arrangement of adjusting positions (Test point : refer to page 40.)

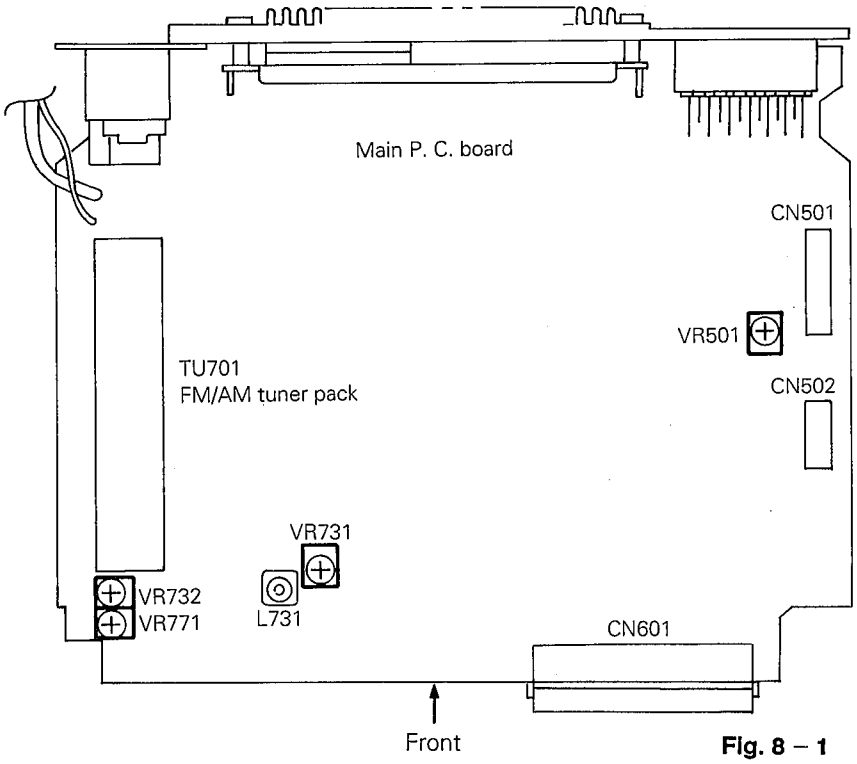


Fig. 8 – 1

■ **Connecting procedures of extension cables for check and adjustment**

1. Remove the bottom cover. (Refer to "Removal of bottom cover".)
2. Remove the front chassis. (Refer to "Removal of front chassis".)
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 front chassis to the main P. C. board assembly with two screws. (Fig. 8-2)
6. Fit the control panel to the front chassis assembled with the main P. C. board. (Fig. 8-2)
7. Referring to Fig. 8-3, connect the 16-pin connector on the CD mechanism relay P. C. board and the 16-pin connector CN501 on the main P. C. board with the 16-pin connector extension cable, while connect the 10-pin connector on the CD mechanism relay P. C. board and the 10-pin connector CN502 on the main P. C. board with the 10-pin connector extension cable, respectively.
8. For convenience of check and adjustment, place the CD mechanism assembly on an empty case and the like as shown in Fig. 8-3.
9. Connect the 13-pin cord connector to the set, and also connect the antenna, speakers, power supply necessary for check and adjustment. (Fig. 8-3)
10. Load the CD mechanism with the test disc CTS-1000. (Fig. 8-3)

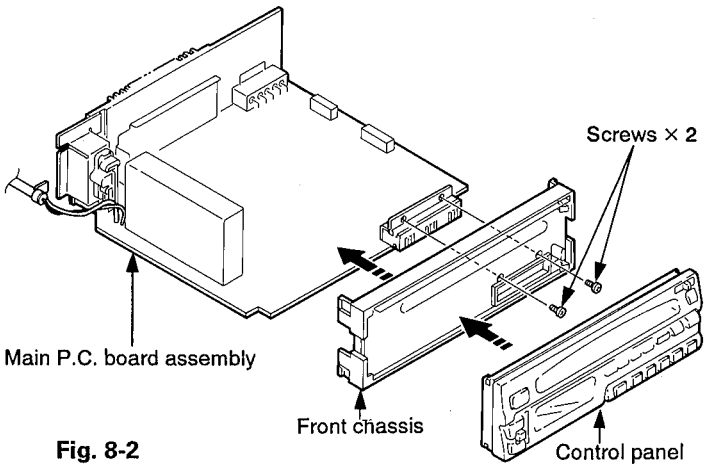


Fig. 8-2

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

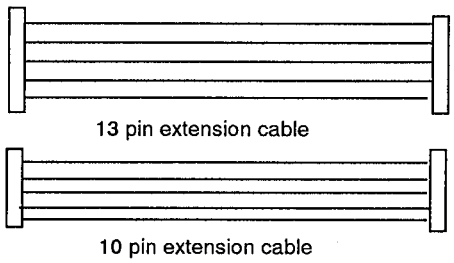


Fig. 8-4

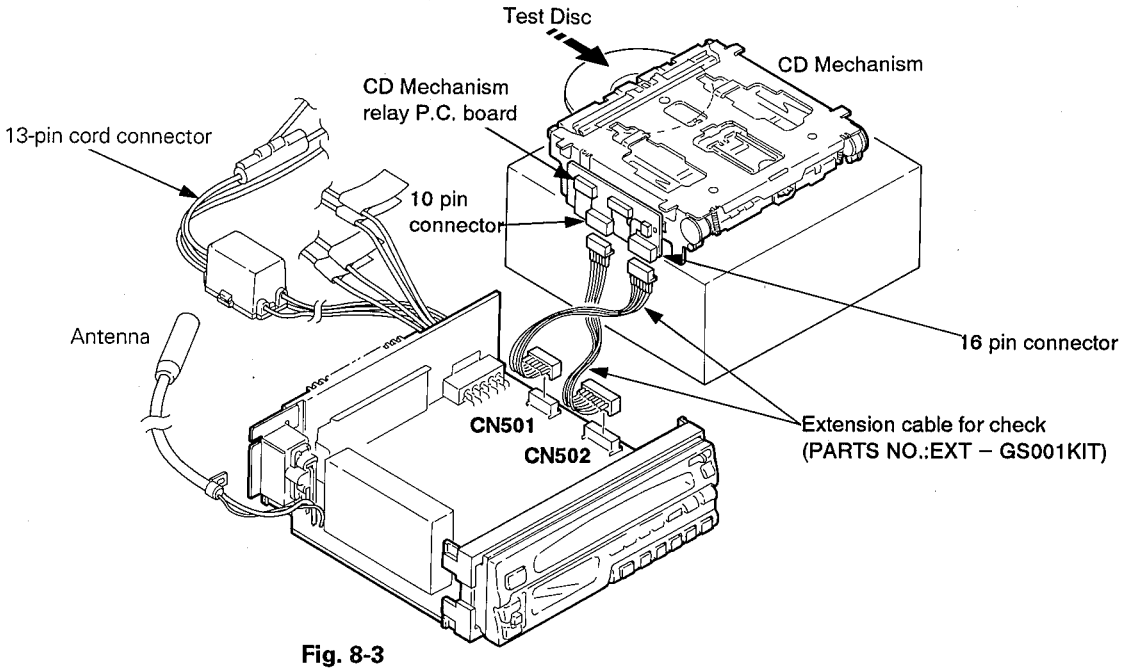
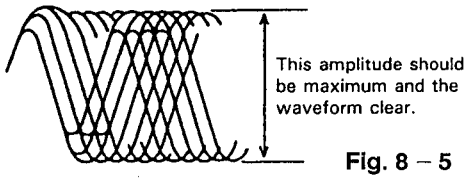
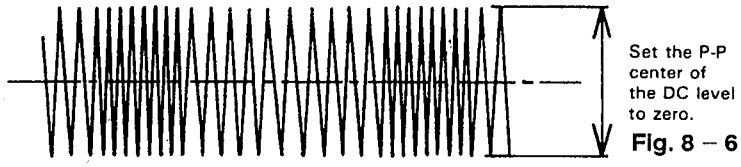


Fig. 8-3

■ CD Section

Iteme	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 ± 300mV Eye pattern waveform  Fig. 8 – 5	Within 1.5V ± 300mV	
3. Tracking offset adjustment	Measuring instruction Oscilloscope	Adjustment procedure 1. Connect the oscilloscope between TP2 and TP3 . 2. Play back the disc. 3. Shot circuit TP2 and TP4. 4. ddjust VR501 so that the DC level of the tracking error signal (oscilloscopee waveforme) becomes zero. when the tracking offset meter is used for measurement, it shorld read "0" (zero). Note : Adjust VR501 so that the waveform is vertically symmetric about the zero level. use a direct coupling oscilloscope input. Tracking offset waveform  Fig. 8 – 6	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 circumferenc		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.		

■ Tuner Section

Iteme	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 reciving 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 ± 0.1V when receiving signal.	3.4 ± 0.1Vl	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 modulater	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.	

Iteme	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
7. Seek	Mesuring instructions FM SSG AM SSG	1. AM 1000 kHz 26 to 38 dB, FM 97.9 MHz 24 to 38 dB. 2. When the UP or DOWN button is pressed, seek tuning starts in the corresponding direction and stops in the above specified range. Seek tuning should NOT stop at a signal weaker than specified above.		
8. Preset/ Preset scan		1. Select a required broadcast station and keep pressing the required preset button (1 - 6). 2. Presetting is complete when the preset number button blinks and "MEMO" is displayed. 3. When the MODE and PS buttons are pressed, scan tuning of the preset frequency should be performed.		
9. SSM (Strong Station Memory)		1. Press the UP and DOWN buttons simultaneously for more than 3 seconds to check that "-SSM-" is displayed. 2. When the frequency is displayed again, check that the strong stations are stored to the preset memory.		
10. CD/Tuner level difference	Mesuring instructions Test disc FM SSG AM SSG	1. With reference to the input of standard disc track 1, check the REF input reception level of each band. FM: -20 dB dB AM: -20 dB dB		
11. Band/ F.Step		1. Each time the BAND button is pressed, the BAND should change from FM1, FM2, FM3 to AM. 2. The frequency changes in one step increments when using the UP and DOWN buttons. FM: 0.2 MHz step AM: 10 kHz step		

9. Wiring Connections

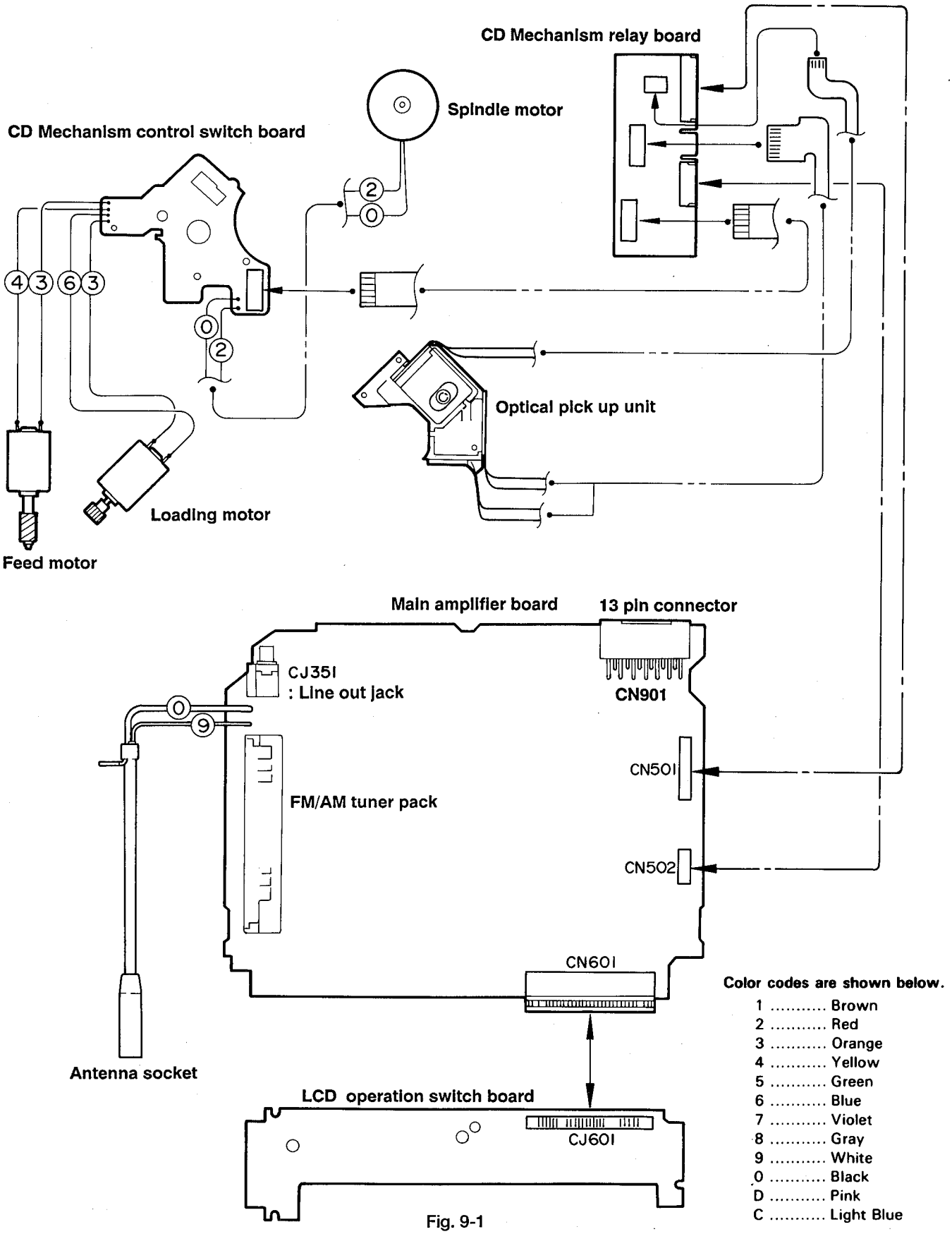
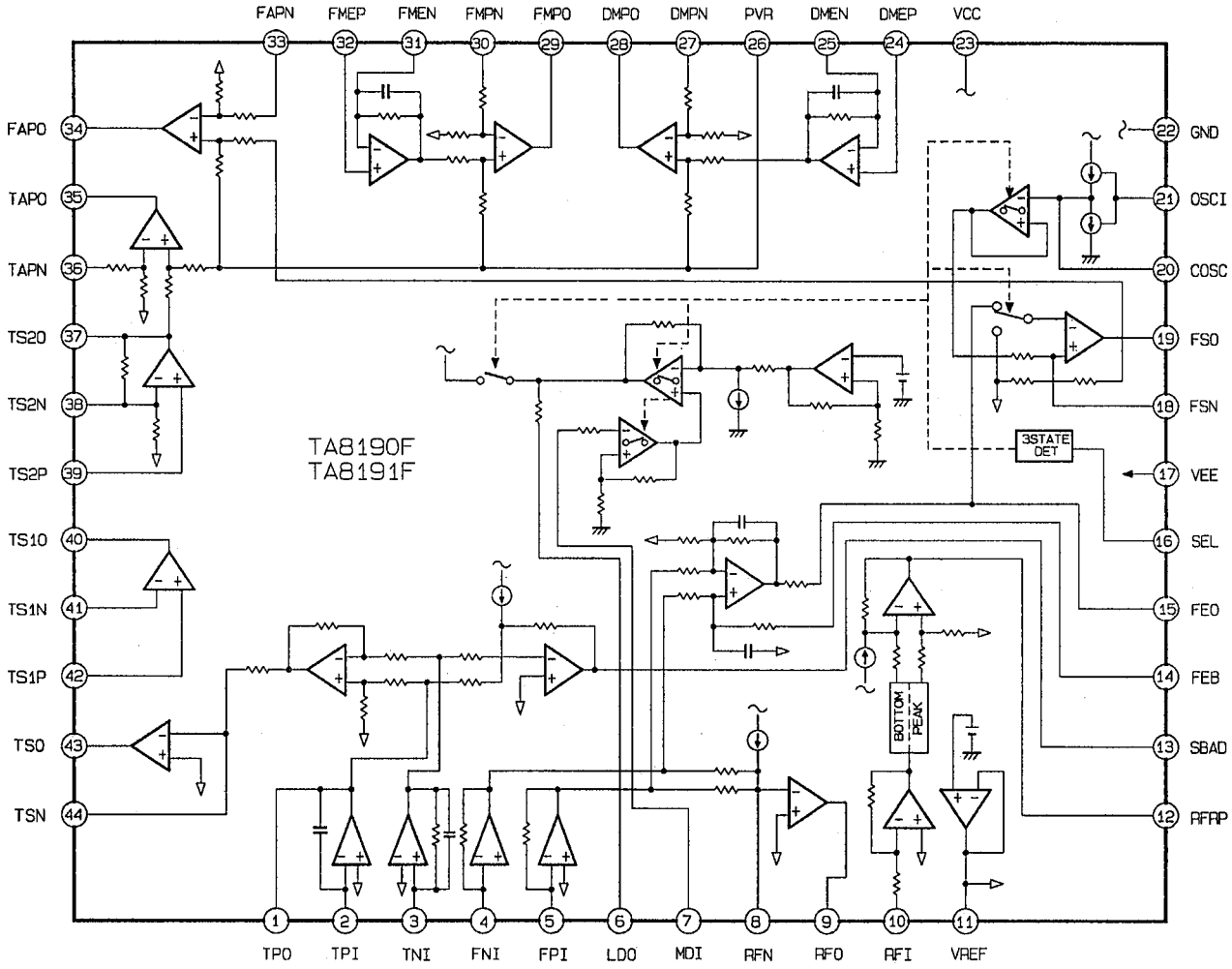


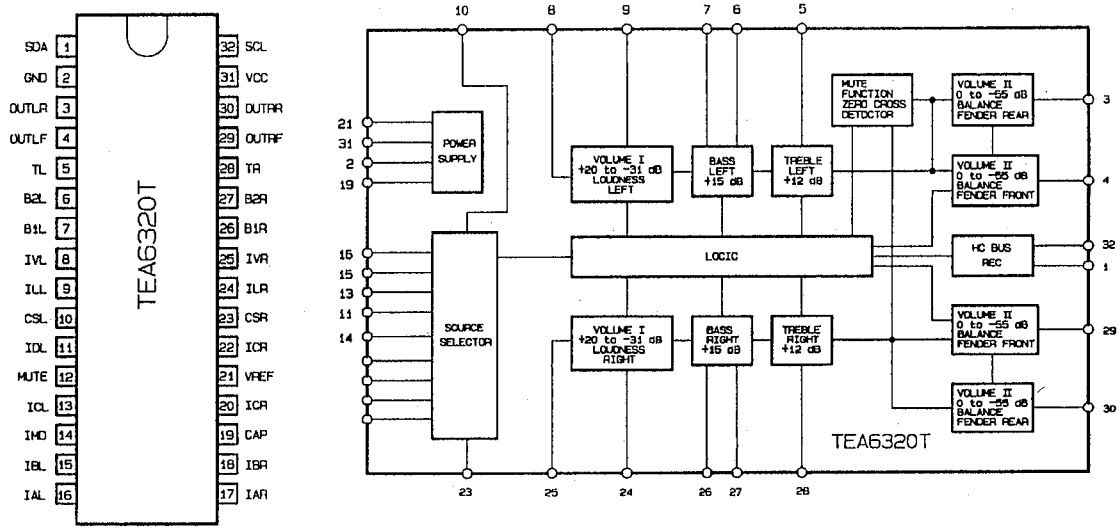
Fig. 9-1

■ Main IC Block diagram

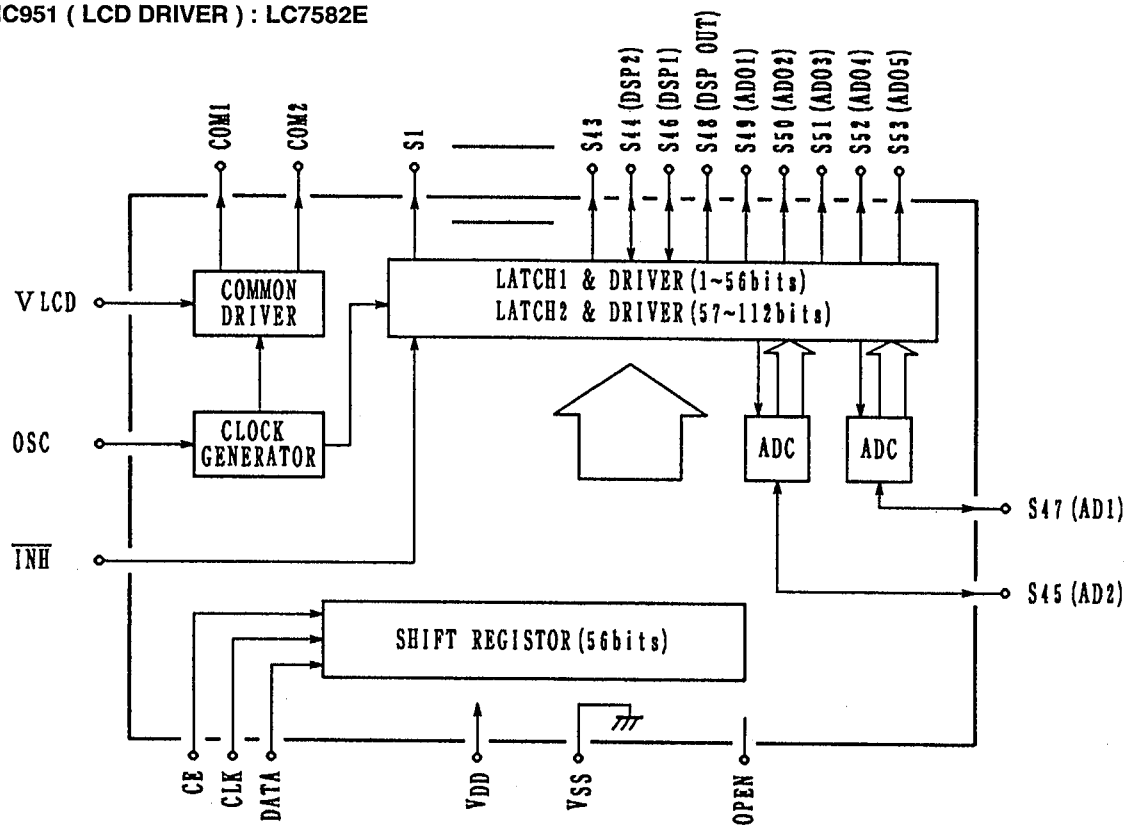
● IC501(CD RF & SERVO AMPLIFIER) : TA8191F



● IC321 (ELECTRICAL VOLUME) : TEA6320T



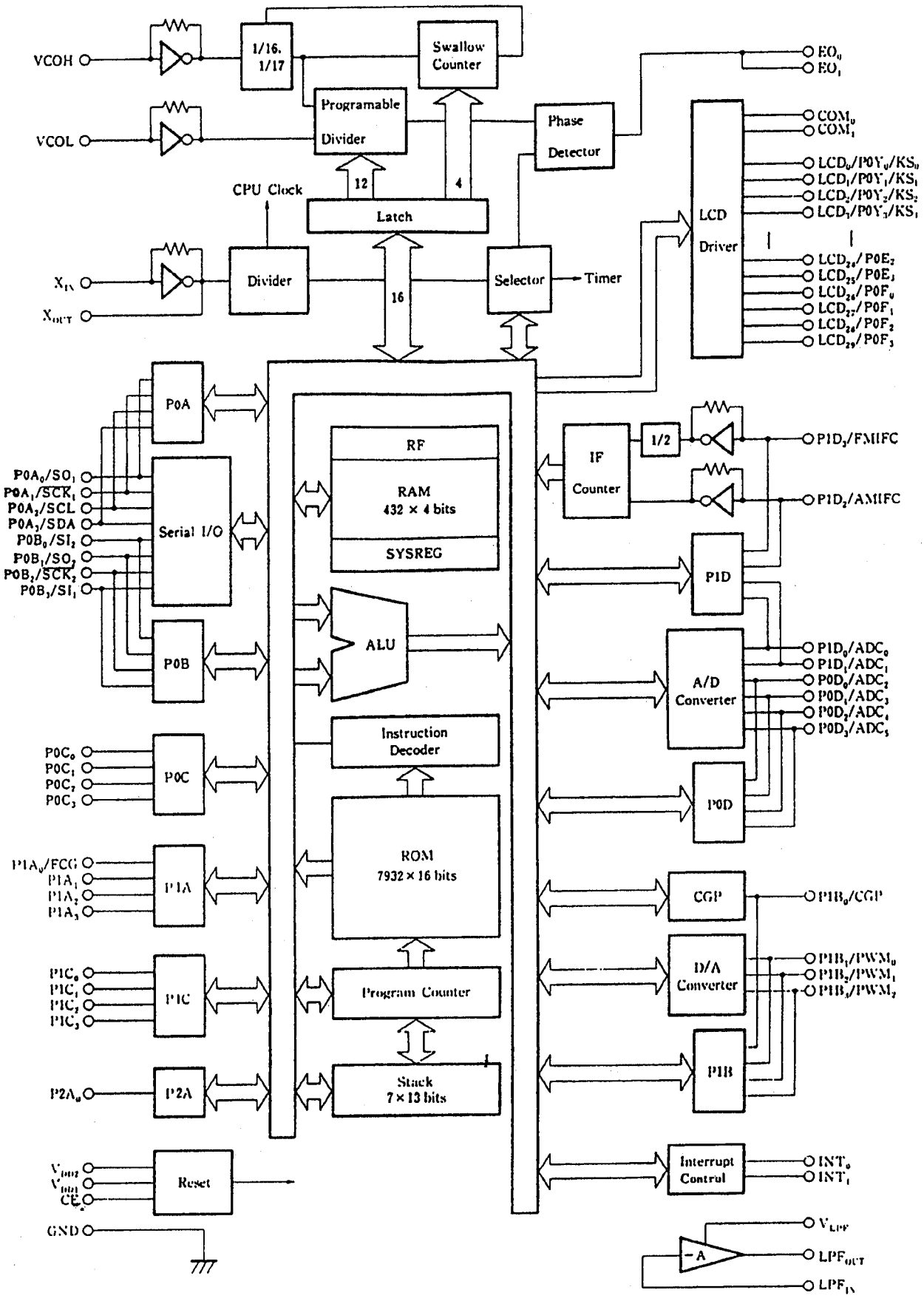
● IC951 (LCD DRIVER) : LC7582E



● **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)
• VLCD	: LCD bias voltage setting pin
• OSC	: OSC pin
• CE, CLK, DATA	: Input pin for serial data transfer
• VSS, VDD	: Power supply pin
• $\overline{\text{INH}}$	: 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



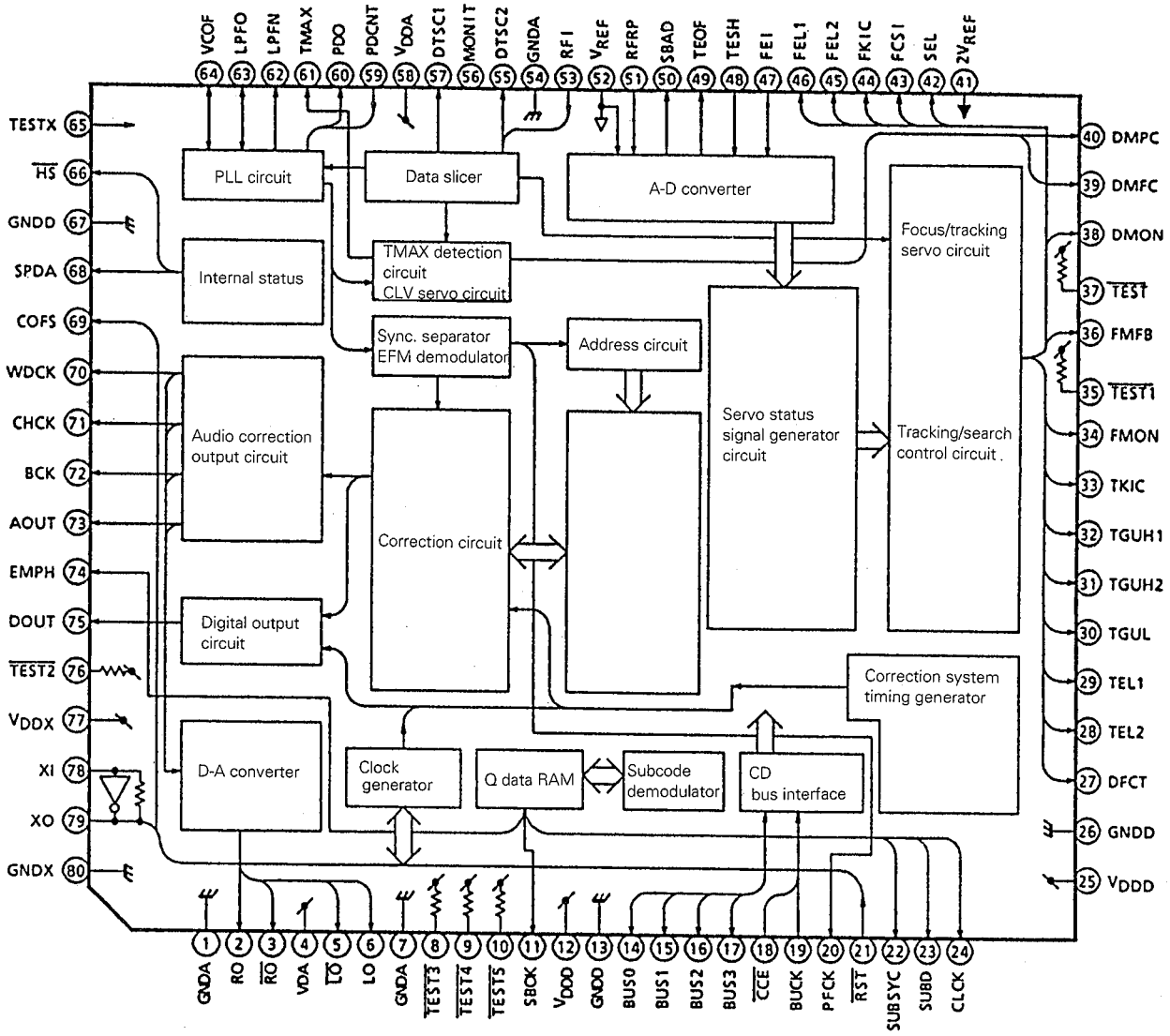
■ Pin function of system control IC (IC601 : μ PD17005GF − E25)

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 acssessories.
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

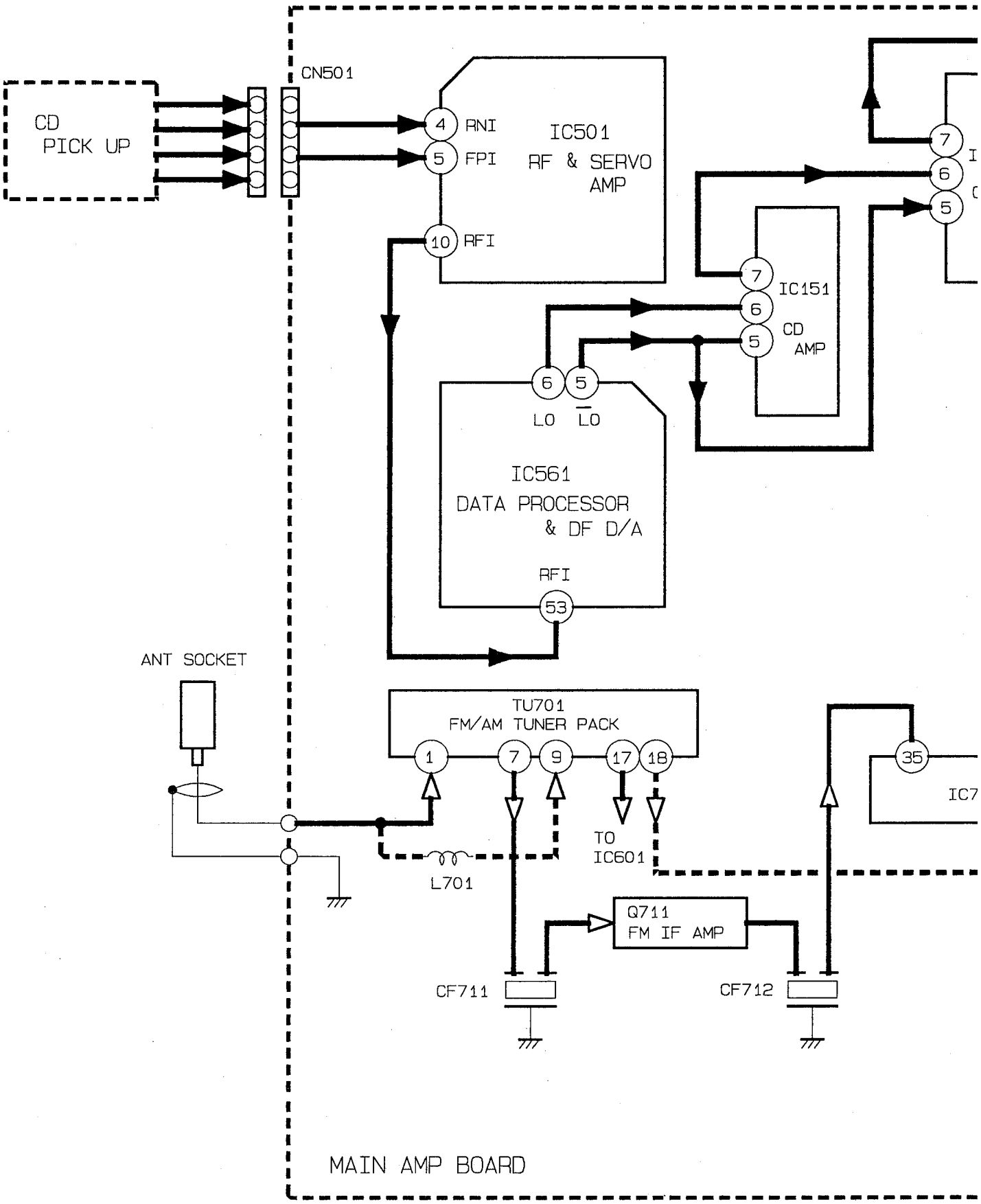
PIN No.	Name of Signal	I/O of micon.	I/O of unit	Initialize after reset	Active mode	Pin function
48	LCD CE	O			L	Output the chip inable signal for LCD driver
49		O				
50		O				
51	LM 1	O			H	Output the control signal 1 for the loading motor.
52	LM 0	O			H	Output the control signal 0 for the loading 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 insititute 2 for area suffix
71	AREA 1	O				Detect to the insititute 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 insititute
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

■ Block diagram and pin connections

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



10. Block Diagram



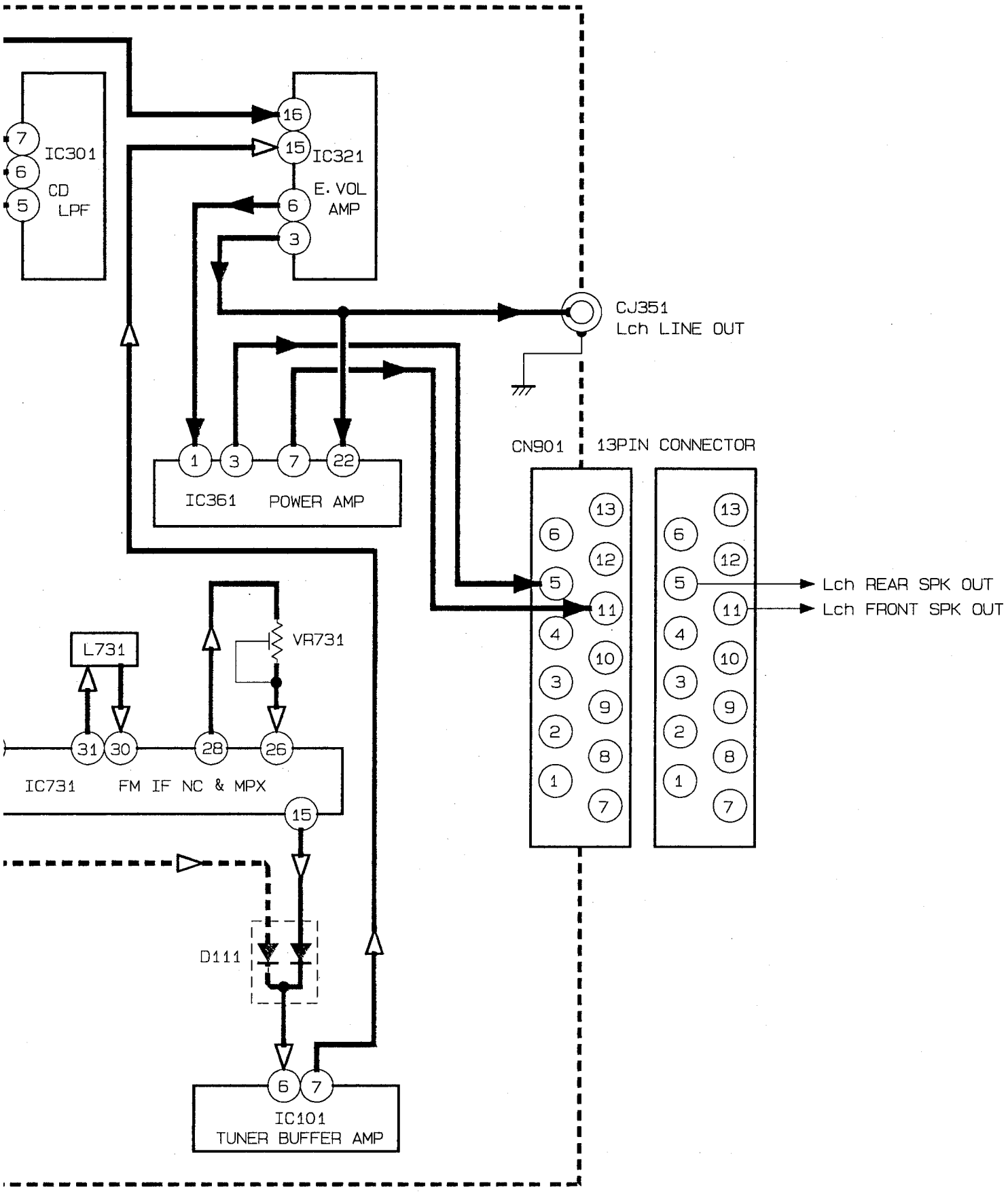
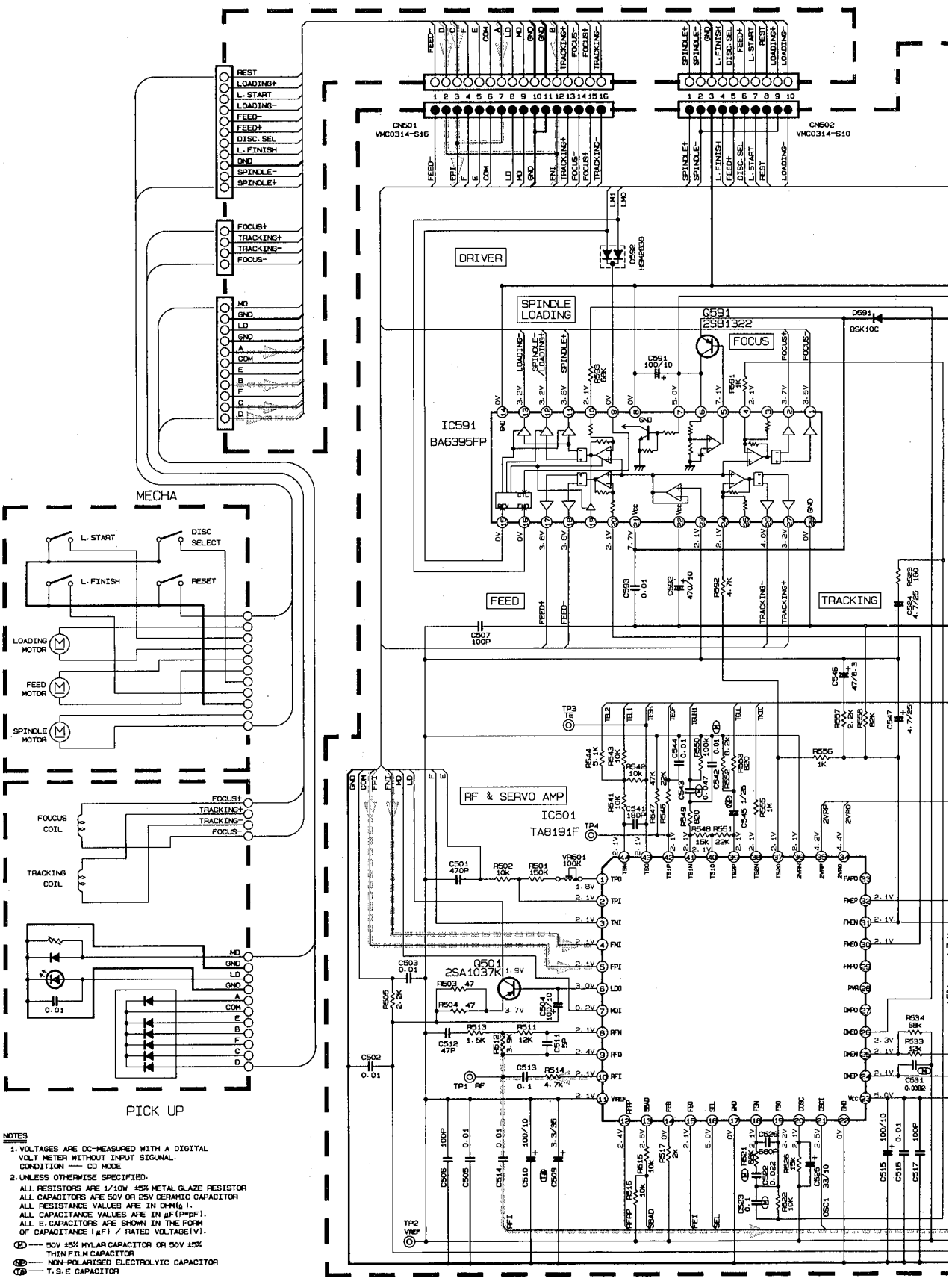

7
6
5
IC301
CD
LPF
16
15
6
3
IC321
E. VOL
AMP
CJ351
Lch LINE OUT
CN901
13PIN CONNECTOR
1
3
7
22
IC361
POWER AMP
13
6
12
5
11
4
10
3
9
2
8
1
7
Lch REAR SPK OUT
Lch FRONT SPK OUT
L731
VR731
31
30
28
26
IC731
FM IF NC & MPX
15
D111
6
7
IC101
TUNER BUFFER AMP

Fig. 10-1

11. Standard Schematic Diagrams

CD Amplifier Circuit : Drawing No. VDH3489-001CV



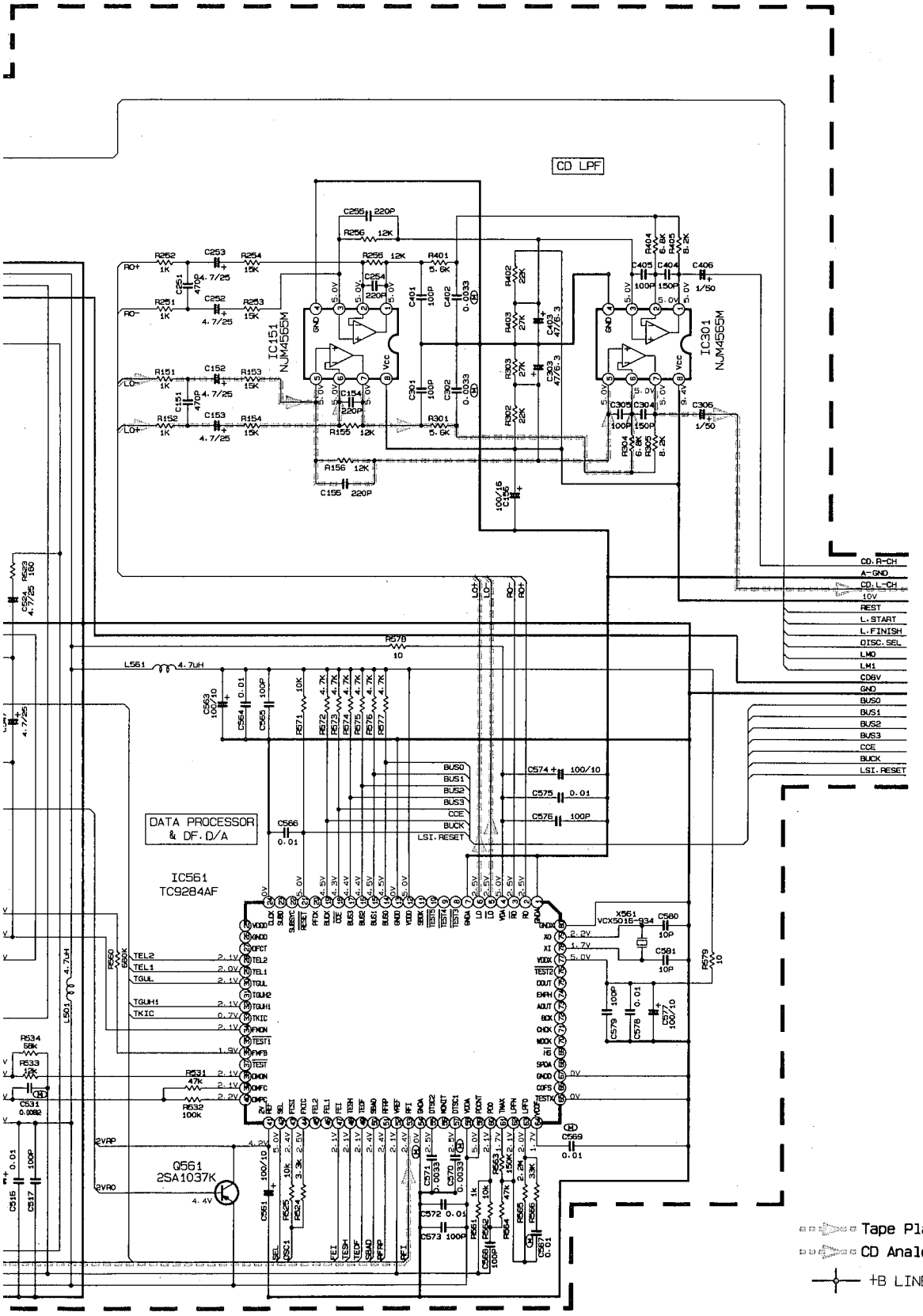
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGUNAL.
   CONDITION ---- CD MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% 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).

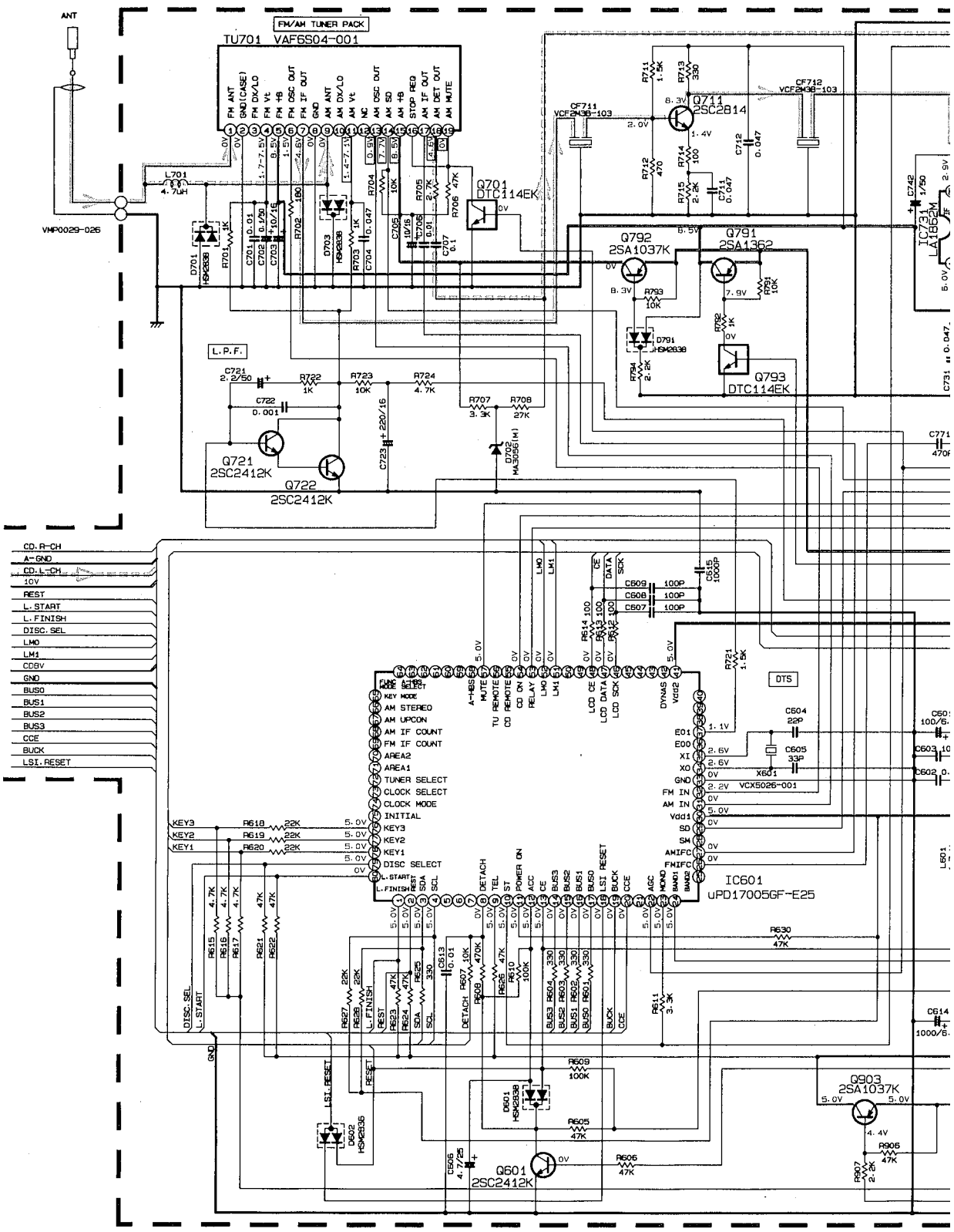
(PD) --- 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
(NP) --- NON-POLARISED ELECTROLYIC CAPACITOR
(TS) --- T.S.E CAPACITOR

Fig. 11-1

6 | 7 | 8 | 9 | 10


CD LPF
IC151
NJM4565M
IC301
NJM4565M
DATA PROCESSOR
& DF. D/A
IC561
TC9284AF
Q561
2SA1037K
X561
VCX5016-934
CD. R-CH
A-GND
CD. L-CH
10V
REST
L. START
L. FINISH
DISC. SEL
LM0
LM1
CD8V
GND
BUS0
BUS1
BUS2
BUS3
CCE
BUCK
LSI. RESET
To page 37
(D/1)
Tape Playback Signal
CD Analoge Signal
+B LINE

■ Tuner/DTS Circuit : Drawing No. VDH3489-001TV1



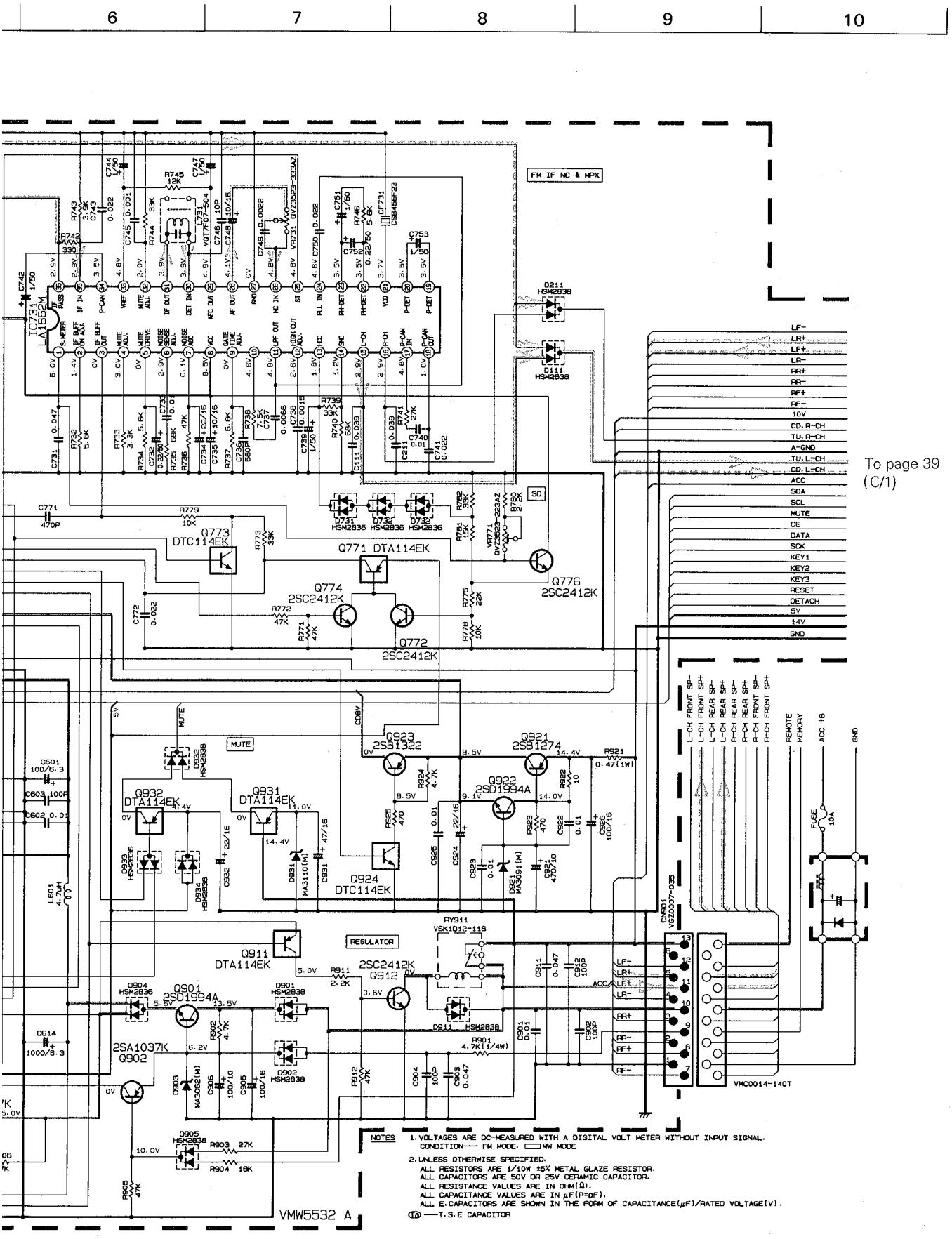

6
7
8
9
10
FM IF NC & MPX
IC731 LA1832M
D211 HSM2838
D111 HSM2838
LF-
LR+
LF+
LR-
RR+
RR-
RF+
RF-
10V
CD. R-CH
TU. R-CH
A-GND
TU. L-CH
CD. L-CH
ACC
SDA
SCL
MUTE
CE
DATA
SCK
KEY1
KEY2
KEY3
RESET
DETACH
5V
14V
GND
To page 39 (C/1)
SD
D731 HSM2836
D732 HSM2836
D733 HSM2836
Q773 DTC114EK
Q771 DTA114EK
Q774 2SC2412K
Q772 2SC2412K
Q776 2SC2412K
MUTE
Q923 2SB1322
Q921 2SB1274
Q922 2SD1994A
Q932 DTA114EK
Q931 DTA114EK
Q924 DTC114EK
REGULATOR
Q911 DTA114EK
Q912 2SC2412K
Q901 2SD1994A
Q902 2SA1037K
D911 HSM2838
D901 HSM2838
D902 HSM2838
D903 MA3062(M)
D904 HSM2836
D905 HSM2838
D931 MA3110(M)
D921 MA3091(M)
D932 HSM2838
D933 HSM2836
D934 HSM2836
AY911 VSK1012-118
CN901 VB22007-035
VMC0014-140T
L-CH FRONT SP-
L-CH FRONT SP+
L-CH REAR SP-
L-CH REAR SP+
R-CH REAR SP-
R-CH REAR SP+
R-CH FRONT SP-
R-CH FRONT SP+
REMOTE
MEMORY
ACC +B
GND
FUSE 10A
VMW5532 A
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION— FM MODE. MW MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% 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).
T.S.E CAPACITOR
AM Radio Signal
FM Radio Signal
CD Analoge Signal
+B LINE

Fig. 11-2

1 2 3 4 5

A B C D E F G

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

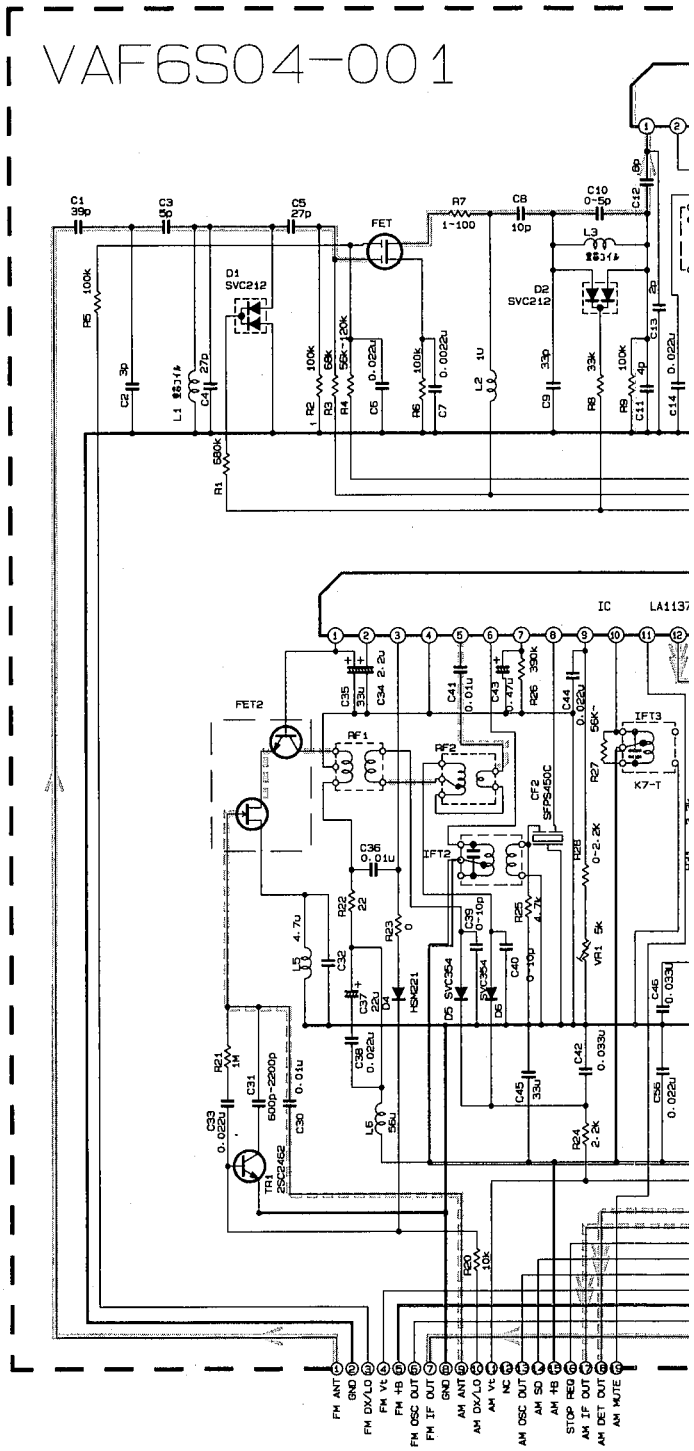
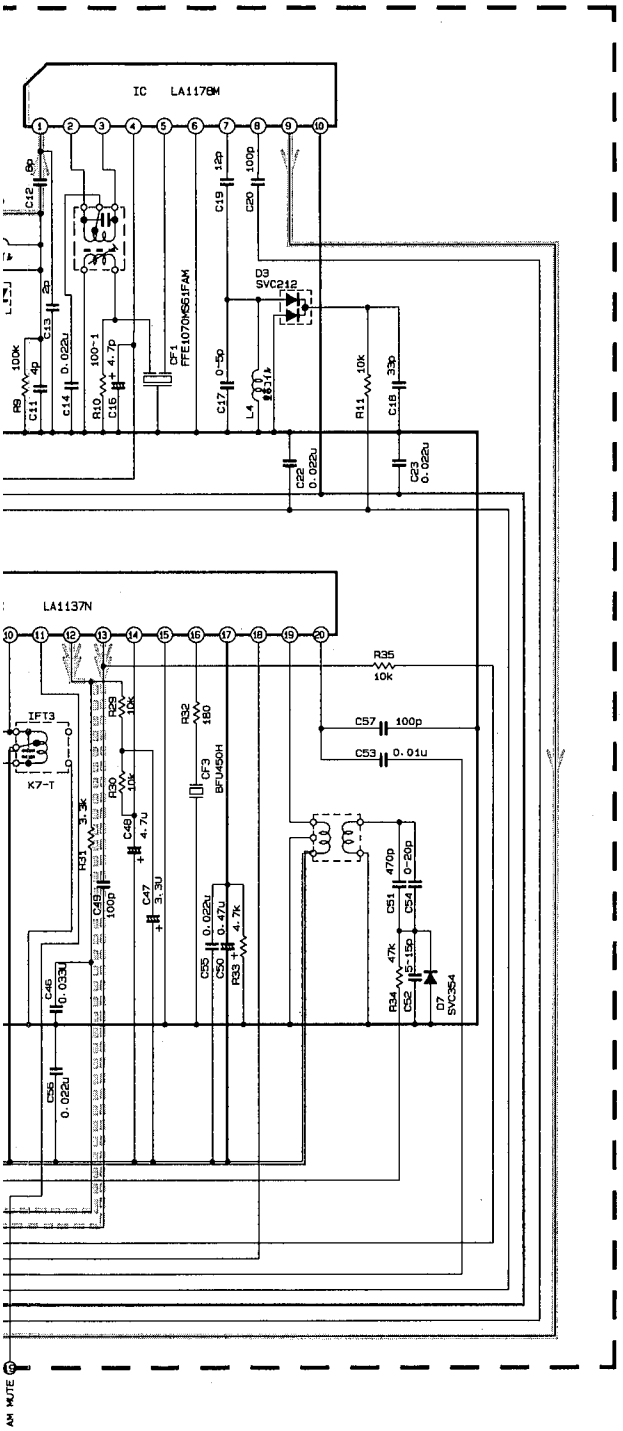


Fig. 11-3

6	7	8	9	10



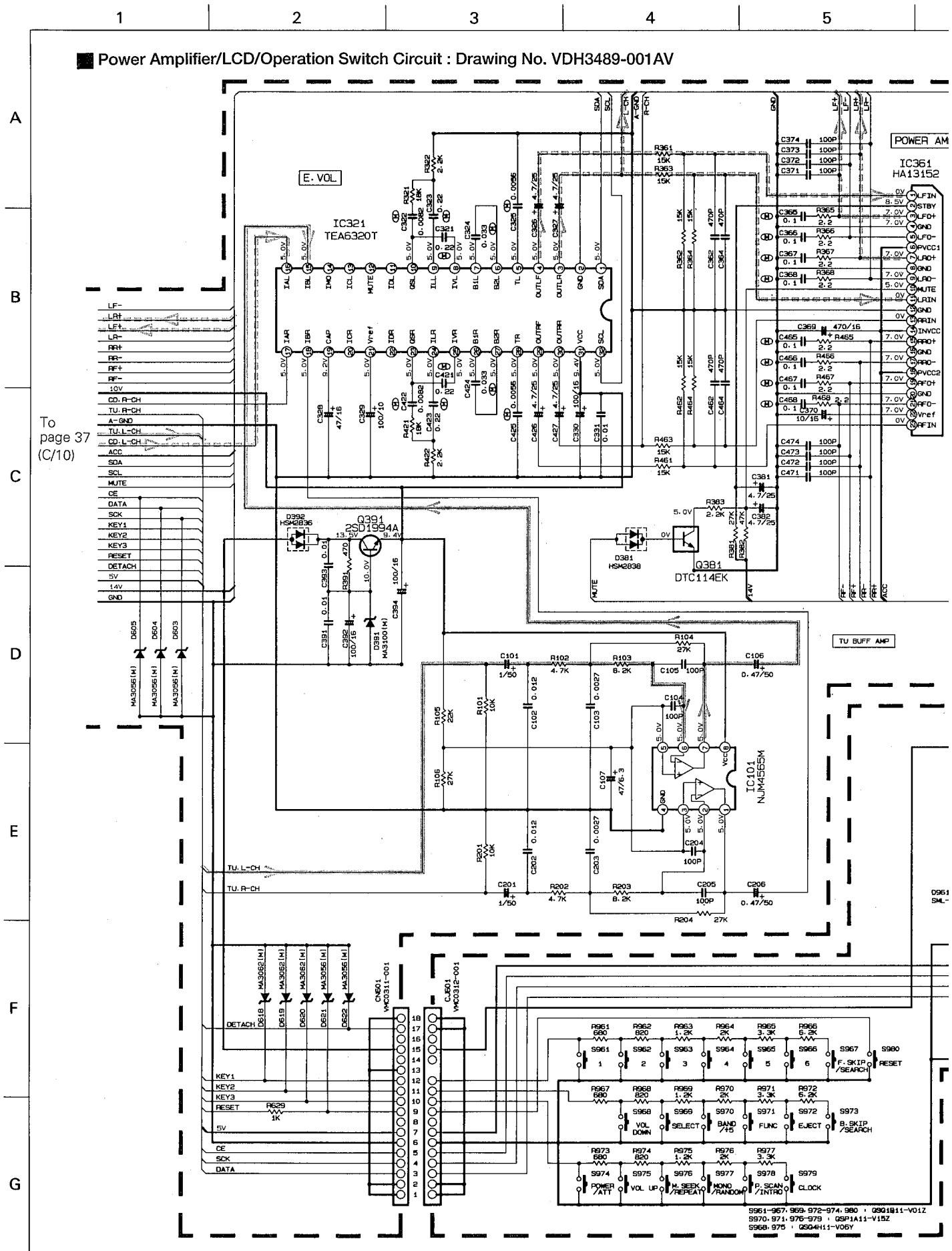
AM Radio Signal

FM Radio Signal

+B LINE

-3

■ Power Amplifier/LCD/Operation Switch Circuit : Drawing No. VDH3489-001AV



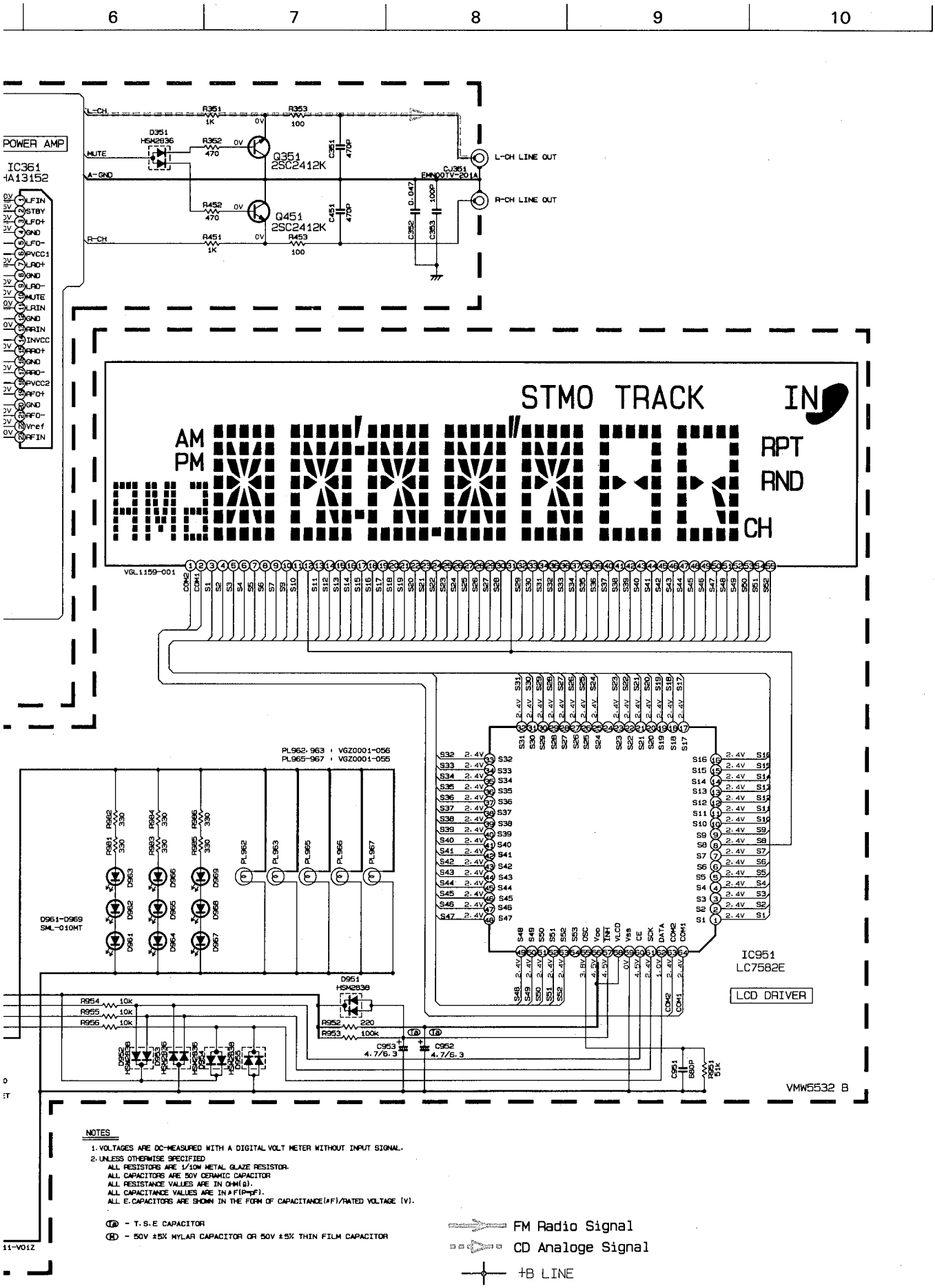
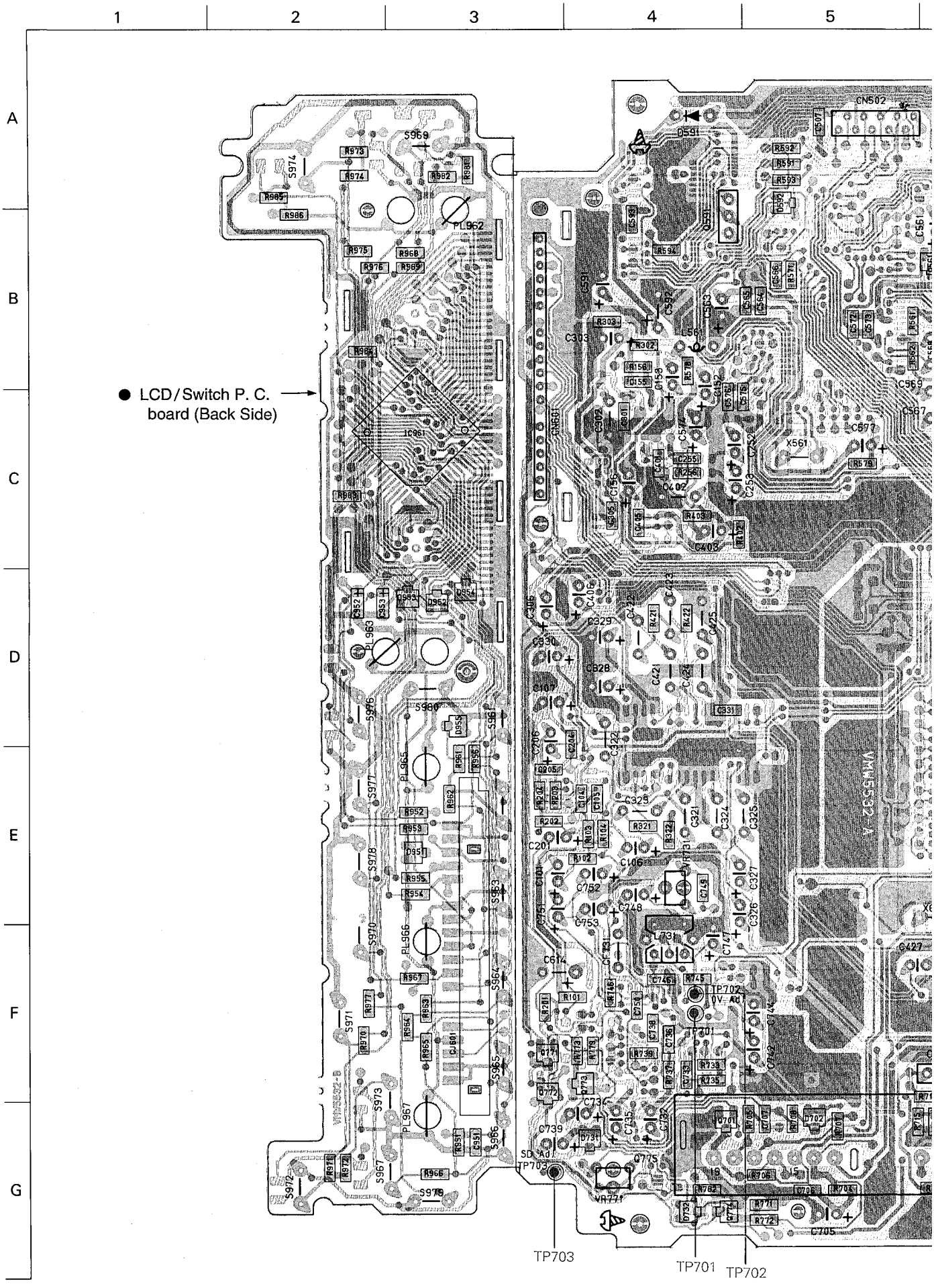
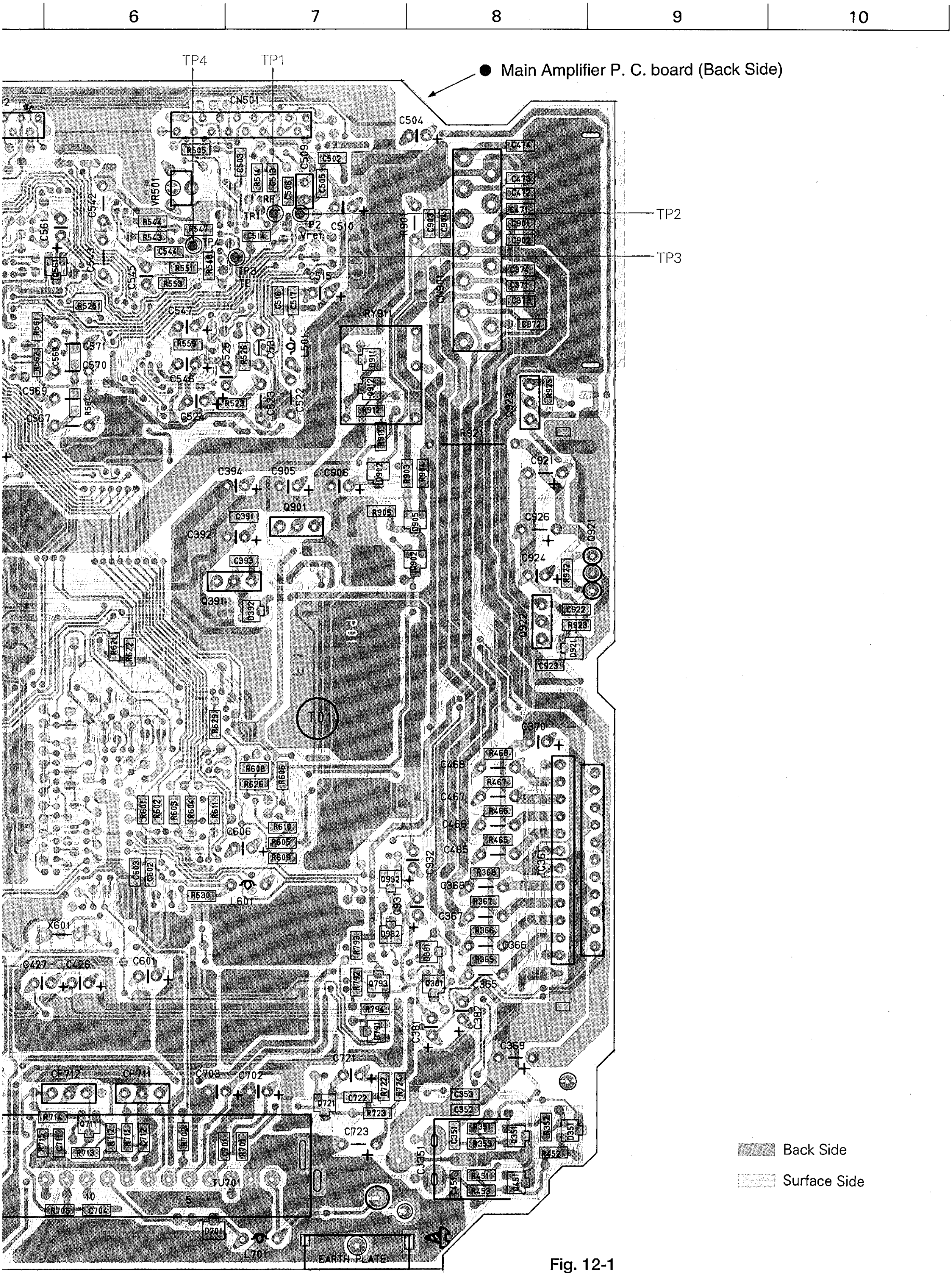

6
7
8
9
10
POWER AMP
IC361
HA13152
L-CH
R-CH
A-GND
MUTE
D351
HSM2836
Q351
2SC2412K
Q451
2SC2412K
L-CH LINE OUT
R-CH LINE OUT
STMO TRACK
IN
AM
PM
RPT
RND
CH
VGL1159-001
PL962·963 : VGZ0001-056
PL965-967 : VGZ0001-055
D961-D969
SML-010MT
IC951
LC7582E
LCD DRIVER
VMW5532 B
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/10W METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V 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).
Ⓣ - T.S.E CAPACITOR
Ⓚ - 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
FM Radio Signal
CD Analoge Signal
+B LINE

Fig. 11-4

12. Location of P. C. Board Parts





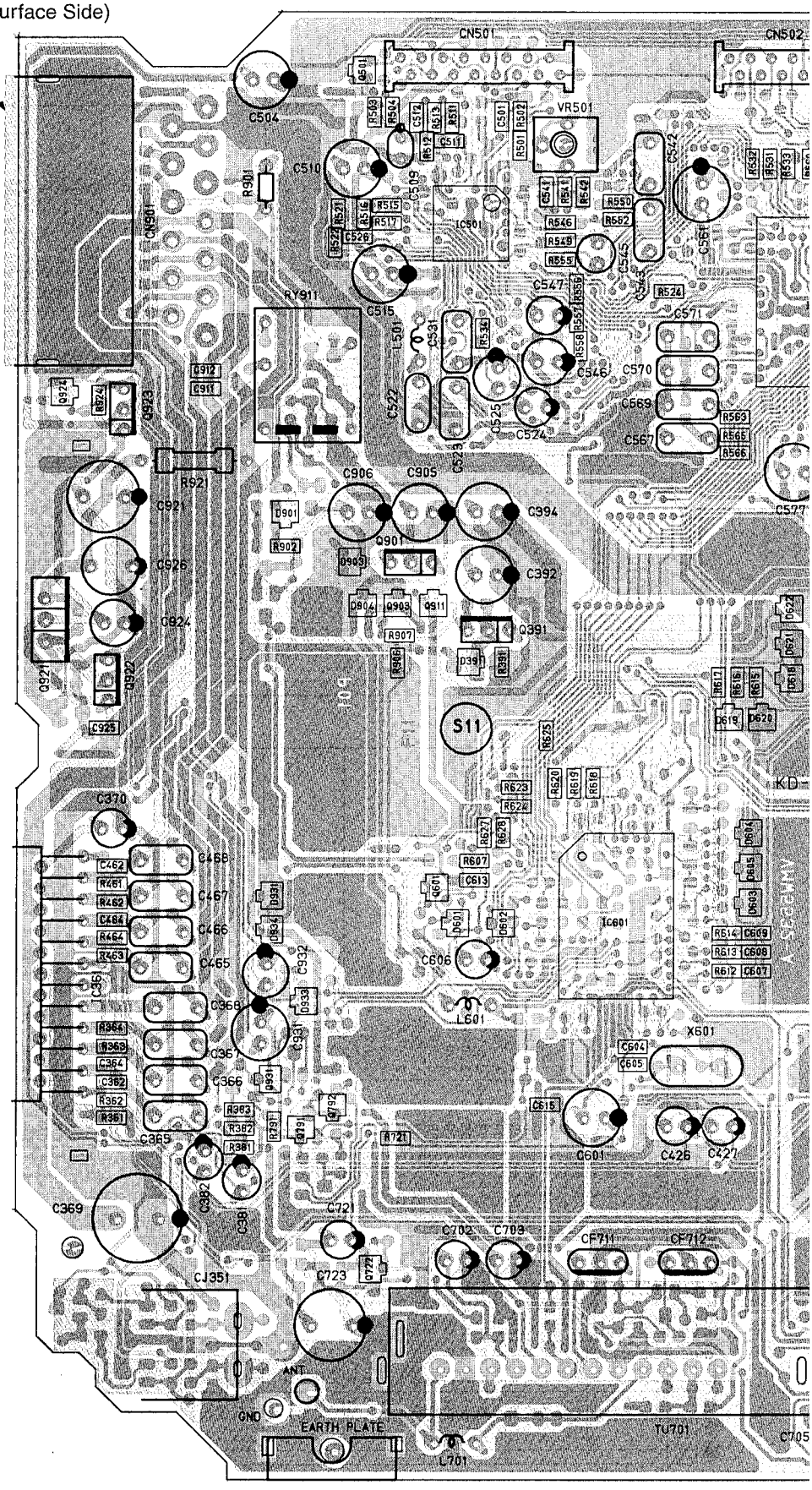
● Main Amplifier P. C. board (Back Side)

Back Side

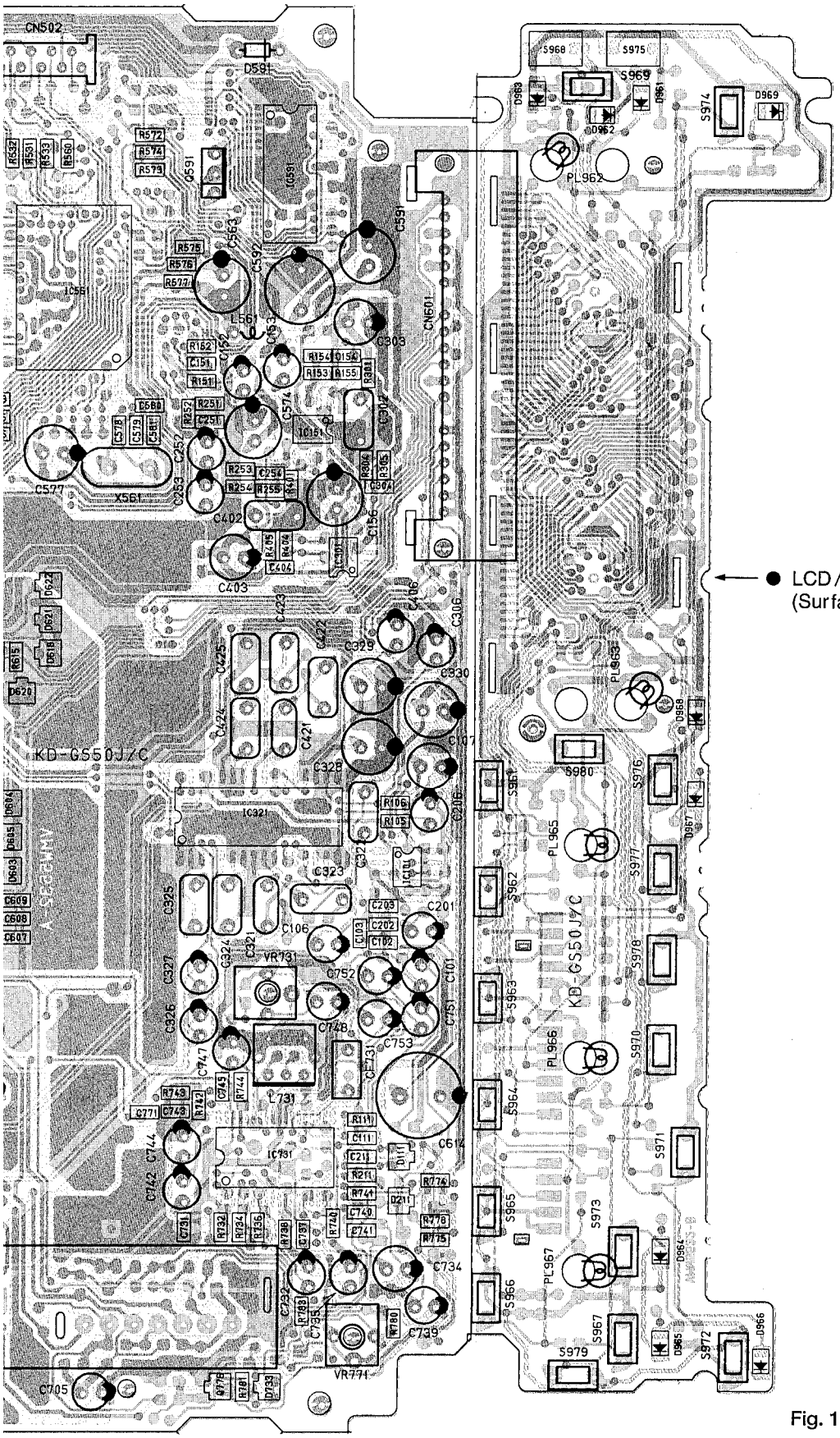
Surface Side

Fig. 12-1

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



6 7 8 9 10



● LCD/Switch P. C. board (Surface Side)

Fig. 12-2

● Main Amplifier P. C. board (Block No. 0 1)

● LCD Switch P. C. board (Block

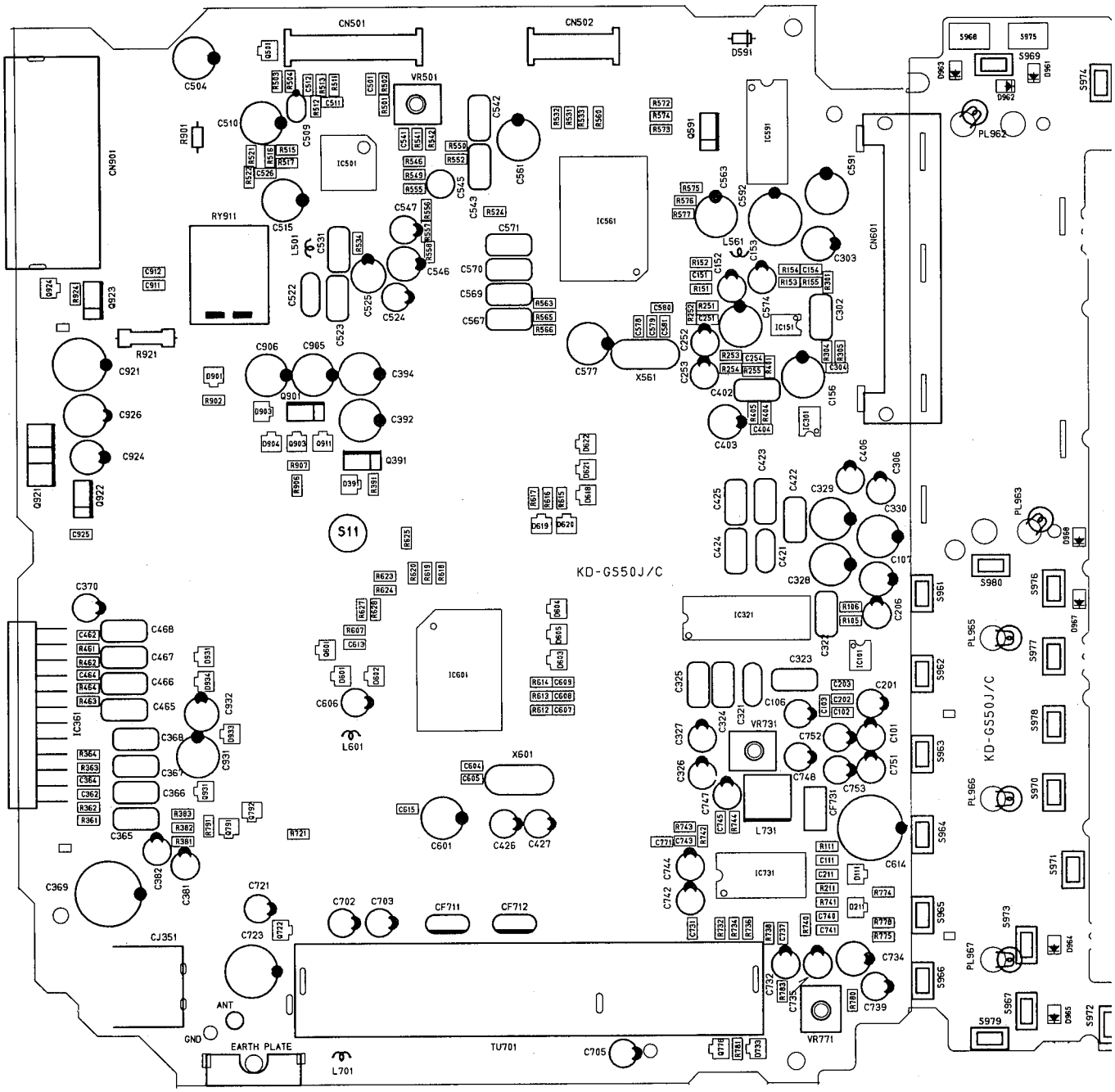
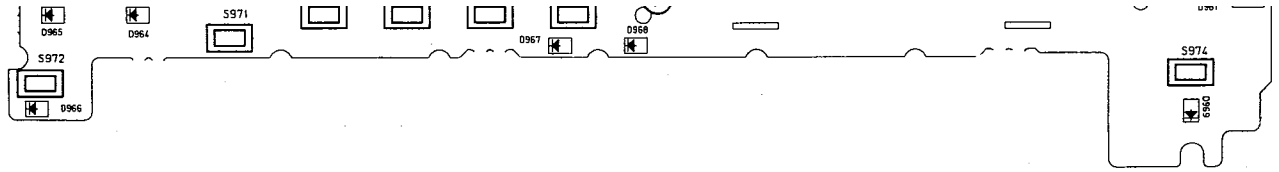


Fig. 12-3

13. Electrical Parts List



(Block No. 02)

■ Main amplifier P.C.board

BLOCK NO. 01

⚠	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	47MF 20% 6.3V	
	C 111	NCB21EK-393AY	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	QEKF1CM-107ZN	E.CAPACITOR	100MF 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	47MF 20% 16V	
	C 329	QEKF1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 330	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 331	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 351	NCS21HJ-471AY	C CAPACITOR	470PF 5% 50V	
	C 352	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 353	NCS21HJ-101AY	C CAPACITOR	100PF 5% 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	470MF 20% 16V	
	C 370	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 371	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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	
	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	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 393	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 394	QEKF1CM-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 451	NCS21HJ-471AY	C CAPACITOR	470PF 5% 50V	
	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	QEKF1AM-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	QEE41VM-335B	TS.E.CAPACITOR	3.3MF 20% 35V	
	C 510	QEKF1AM-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	QEKF1AM-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	QEKF1AM-336ZN	E.CAPACITOR	33MF 20% 10V	
	C 526	NCS21HJ-681AY	C CAPACITOR	680PF 5% 50V	
	C 531	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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	
	C 545	QEPJ1HM-105ZM	NP.E.CAPACITOR	1.0MF 20% 50V	
	C 546	QEK40JM-476	E.CAPACITOR	47MF 20% 6.3V	
	C 547	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 561	QEKF1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 563	QEKF1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 564	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 565	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 566	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 567	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 568	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 569	QFV71HJ-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	QEKF1AM-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	QEKF1AM-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 591	QEKF1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 592	QETC1AM-477ZN	E.CAPACITOR	470MF 20% 10V	
	C 593	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 601	QEKF1AM-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	4.7MF 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 613	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 614	QETBOJM-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	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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	
	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	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 906	QEKF1AM-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	QETC1AM-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	QETC1CM-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		
	CJ351	EMN00TV-201A	PIN JACK		
	CN501	VMC0314-S16	CONNECTOR		
	CN502	VMC0314-S10	CONNECTOR		
	CN601	VMC0311-001	CONNECTOR		
	CN901	VGZ0007-035	FEED THROUGH		
	D 111	HSM2838C	DIODE		
	D 211	HSM2838C	DIODE		
	D 351	HSM2836C	DIODE		
	D 381	HSM2838C	DIODE		
	D 391	MA3100(M)	ZENER DIODE		
	D 392	HSM2836C	DIODE		
	D 591	DSK10C-E	DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 592	HSM2838C	DIODE		
	D 601	HSM2838C	DIODE		
	D 602	HSM2836C	DIODE		
	D 603	MA3056	ZENER DIODE		
	D 604	MA3056	ZENER DIODE		
	D 605	MA3056	ZENER DIODE		
	D 618	MA3062(M)	ZENER DIODE		
	D 619	MA3062(M)	ZENER DIODE		
	D 620	MA3062(M)	ZENER DIODE		
	D 621	MA3056	ZENER DIODE		
	D 622	MA3056	ZENER DIODE		
	D 701	MA153	DIODE		
	D 702	MA3056	ZENER DIODE		
	D 731	HSM2836C	DIODE		
	D 732	HSM2836C	DIODE		
	D 733	HSM2836C	DIODE		
	D 791	HSM2838C	DIODE		
	D 901	HSM2838C	DIODE		
	D 902	HSM2838C	DIODE		
	D 903	MA3062(M)	ZENER DIODE		
	D 904	HSM2836C	DIODE		
	D 905	HSM2838C	DIODE		
	D 911	HSM2838C	DIODE		
	D 921	MA3091(M)	ZENER DIODE		
	D 931	MA3110(M)	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	VQT7F07-504	IFT		
	Q 351	2SC2412KK1	TRANSISTOR		
	Q 381	UN2211	TRANSISTOR		
	Q 391	2SD1994(R,S)	TRANSISTOR		
	Q 451	2SC2412KK1	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		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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		
	Q 924	UN2211	TRANSISTOR		
	Q 931	UN2111	TRANSISTOR		
	Q 932	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-0RONY	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-0RONY	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-223NY	MG RESISTOR	22K 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-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 351	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 352	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 353	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 361	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R 362	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 363	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-222NY	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 451	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 452	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 453	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 461	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R 462	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	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-392NY	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-181NY	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-153NY	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-123NY	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	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 547	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 548	NRSA02J-153NY	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-823NY	MG RESISTOR	82K 5% 1/10W	
	R 559	NRSA02J-0R0NY	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	
	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-0R0NY	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-103NY	MG RESISTOR	10K 5% 1/10W	
	R 608	NRSA02J-474NY	MG RESISTOR	470K 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	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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 715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 721	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	
	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-0R0NY	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	QRD14DJ-472X	CARBON RESISTOR	4.7K 5% 1/4W	
	R 902	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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	QRX019J-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	QVPA601-333	V.RESISTOR		
	VR771	QVZ3523-223	V.RESISTOR		
	X 561	VCX5016-934Z	CRYSTAL		
	X 601	VCX5026-001Z	CRYSTAL		

■ LCD switch P.C.board

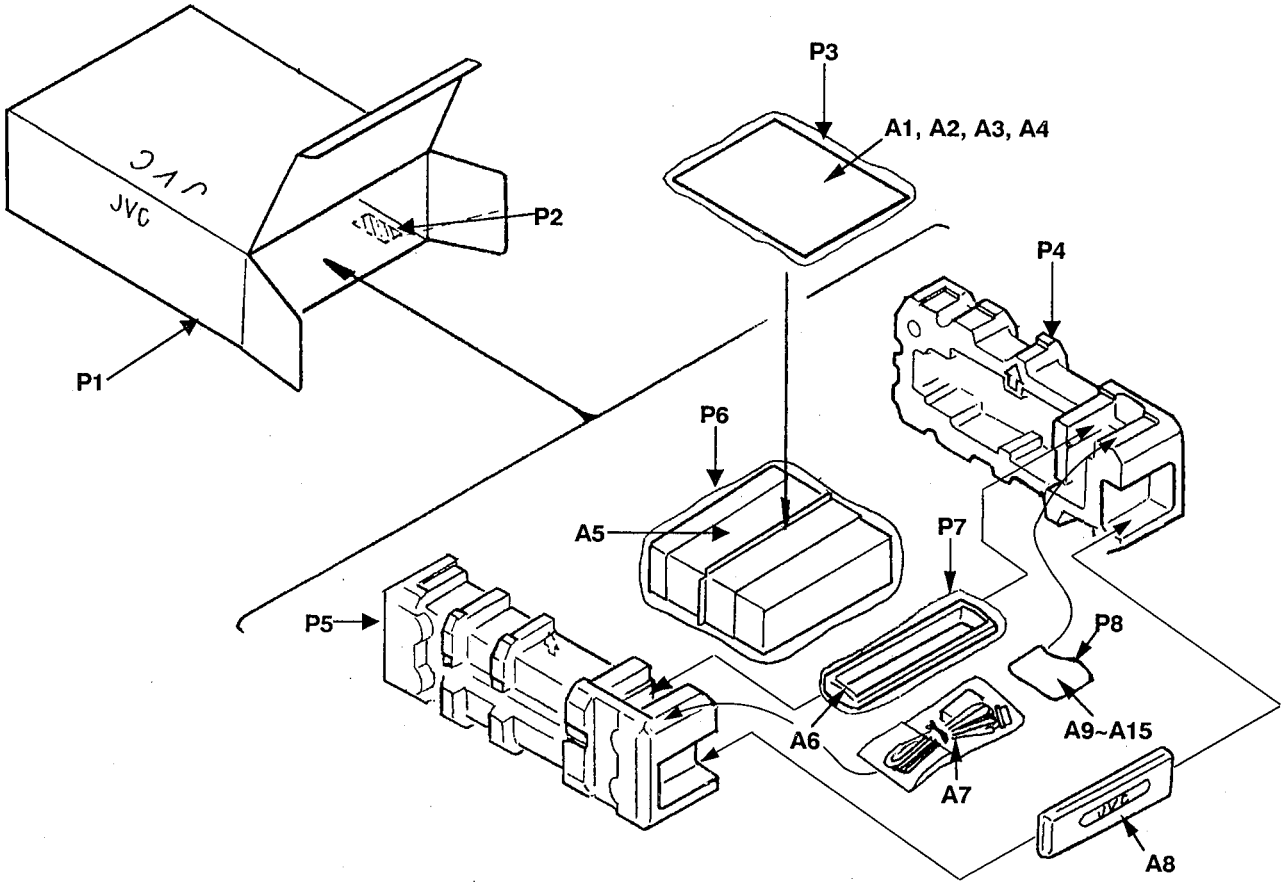
BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 951	NCS21HJ-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	VMC0312-001	CONNECTOR		
	D 951	HSM2838C	DIODE		
	D 952	HSM2838C	DIODE		
	D 953	HSM2836C	DIODE		
	D 954	HSM2836C	DIODE		
	D 955	HSM2838C	DIODE		
	D 961	SML-010MTT87	LED		
	D 962	SML-010MTT87	LED		
	D 963	SML-010MTT87	LED		
	D 964	SML-010MTT87	LED		
	D 965	SML-010MTT87	LED		
	D 966	SML-010MTT87	LED		
	D 967	SML-010MTT87	LED		
	D 968	SML-010MTT87	LED		
	D 969	SML-010MTT87	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 951	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. 02

⚠	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	QSQ4H11-V06Y	TACT SWITCH		
	S 969	QSQ1B11-V01Z	TACT SWITCH		
	S 970	QSP1A11-V15	TACT SWITCH		
	S 971	QSP1A11-V15	TACT SWITCH		
	S 972	QSQ1B11-V01Z	TACT SWITCH		
	S 973	QSQ1B11-V01Z	TACT SWITCH		
	S 974	QSQ1B11-V01Z	TACT SWITCH		
	S 975	QSQ4H11-V06Y	TACT SWITCH		
	S 976	QSP1A11-V15	TACT SWITCH		
	S 977	QSP1A11-V15	TACT SWITCH		
	S 978	QSP1A11-V15	TACT SWITCH		
	S 979	QSP1A11-V15	TACT SWITCH		
	S 980	QSQ1B11-V01Z	TACT SWITCH		

14. Illustration ofPacking and Parts List



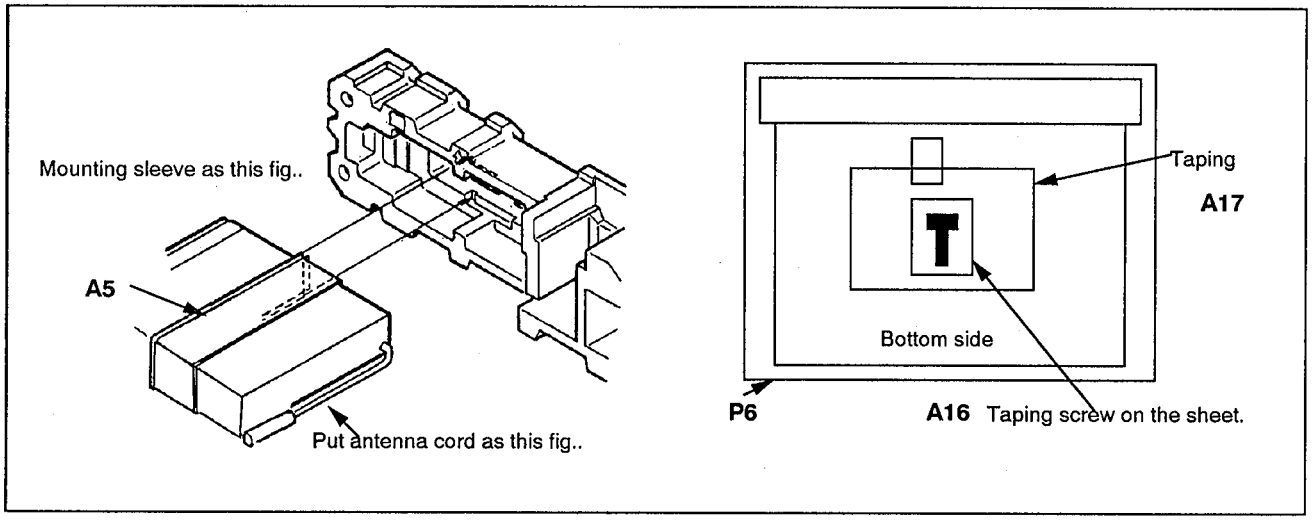


Fig. 14-1

■ Packing parts list

BLOCK NO. M3MM

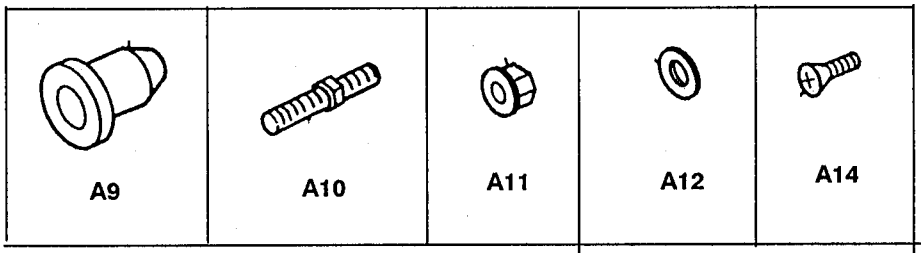
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC3489-001	CARTON		1		
	P 2	VND3044-001	SERIAL TICKET		1	A,U	
		VND3044-006	SERIAL TICKET	CARTON	1	C	
		VND3044-002	SERIAL TICKET	CARTON	1	J	
	P 3	QPGA017-02505	POLY BAG	INSTRUCTIONS	1		
	P 4	VPH1652-001	CUSHION(L)		1		
	P 5	VPH1652-002	CUSHION(R)		1		
	P 6	VPE3005-066	POLY BAG	FOR SET	1		
	P 7	QPGA010-03003	POLY.BAG		1		
	P 8	QPGA008-01205	POLY BAG	BOLT ASSY	1		

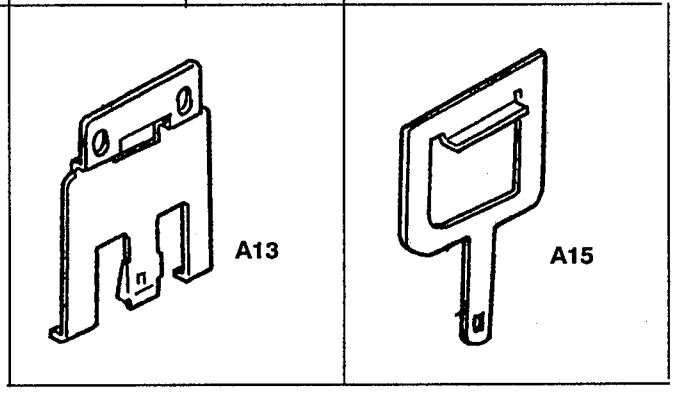
■ Accessories

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN3489-631S	INSTRUCTIONS		1	C,J,A,U	
	A 2	VNC2400-090	CAUTION SHEET		1	C,J	
	A 3	BT-20059D	WARRANTY CARD		1	J	
		BT-20025L	WARRANTY CARD		1	C	
	A 4	BT-20071B	SVC CENTER LIST		1	C	
		BT-20137	SERVICE NETWORK		1	J	
	A 5	VKL3732-019	MOUNTING SLEEVE		1		
	A 6	FSJD2004-002	TRIM PLATE		1		
	A 7	VMC0014-140T	13P CORD ASS'Y		1		
	A 8	VJB3036-003	HARD CASE		1		
	A 9	VKZ4027-002	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	VKY3124-001	SIDE SPRING		2		
	A 14	SSSP4006Z	SCREW	FOR SIDE SPRING	4		
	A 15	VKL7233-001	HOOK		2		
	A 16	SPSJ1725M	MINI SCREW		1		
	A 17	VND4619-005	SHEET		1		
	KIT 1	KSRT80RK-SCREW1	SCREW KIT	P8,A9-A15	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

Printed in Japan
-H0702-S-