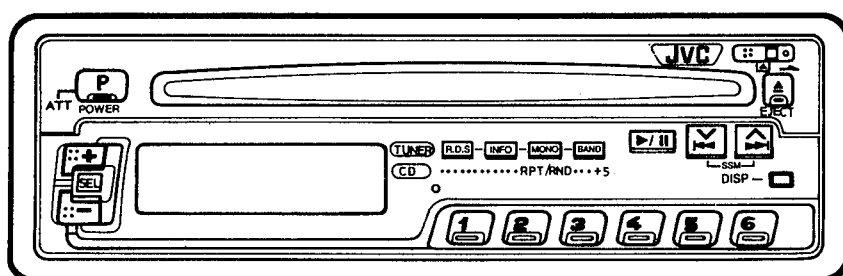
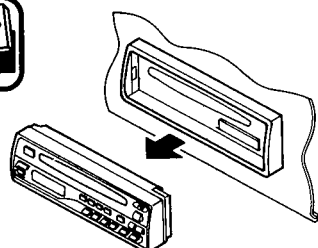


JVC

SERVICE MANUAL

CD RECEIVER

KD-GS60R B/E/G/GI/GE


DIGIFINE
**COMPACT
disc
DIGITAL AUDIO**


Area Suffix

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

Contents

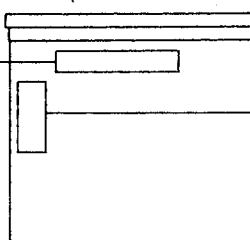
1. Important for Laser products	2	8. Main Adjustment	23
2. Specifications	2	9. Wiring Connections	28
3. Main Features	2	10. Block Diagram	33
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1. Important for Laser Products

Position and Reproduction of Labels

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling.	VARNING: Osynlig laserstråling når denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.	VARO: Avvattessa ja suojakäytös ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
(e)	(d)	(s)	(f)

Bottom panel of the main unit



**CLASS 1
LASER PRODUCT**

Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass 1.

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.

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

RADIO SECTION

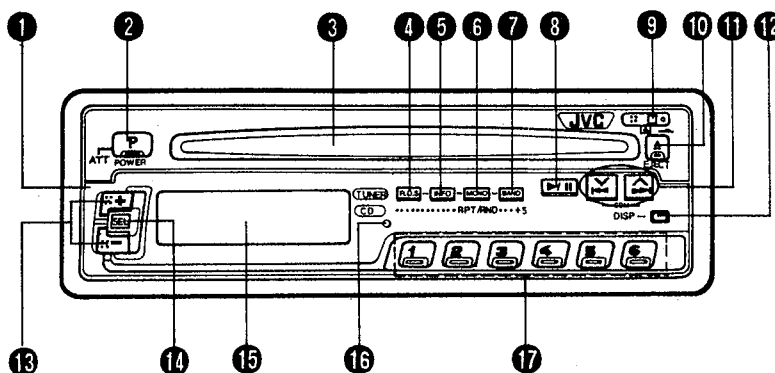
Frequency Range
FM: 87.5 to 108.0 MHz
AM: (MW) 522 to 1,620 kHz (LW) 144 to 279 kHz
[FM Tuner]
Usable Sensitivity: 12.1 dBf (1.1 μ V/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μ V/75 Ω)
Alternate Channel Selectivity: (400 kHz): 65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 30 dB
Capture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

3. Main Features

- Detachable Control Panel
- "Direct-in" disc loading system
- Direct Access Play/Skip Play/Search Play/Repeat Play/Random Play
- Radio Data System (RDS)
- High Sensitivity Tuner
- AM/FM Stereo PLL Synthesizer Tuner
- 18-Station Preset Tuning (FM-12, AM [MW/LW]-6)
- Seek/Manual Tuning
- Strong-station Sequential Memory (SSM)
- 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 (Extracts)

LOCATION OF CONTROLS

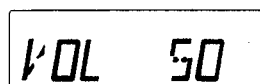


- ① Control panel
- ② POWER (P)/Attenuator (ATT) switch
POWER: Press to turn the power ON. Press for more than 1 second to turn the power OFF.
ATT: When this button is pressed during operation, the volume drops and the ATT indicator blinks. Press again to return to the original volume.

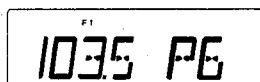
- ③ CD loading slot
- ④ RDS button
- ⑤ Traffic Information (INFO) button
- ⑥ MONO button
- ⑦ Repeat (RPT)/Random (RND) button
- ⑧ BAND/+5 button
- ⑨ Play (▶)/Pause(⏸) button
- ⑩ Control Panel Release (⏏) switch
- ⑪ Eject (⏏) button
- ⑫ Tuning/SSM/Time Adjustment/Skip (search) buttons
Down frequency/Hour adjustment (⏮)/(⏪)
Up frequency/Minute adjustment (⏭)/(⏩)
- ⑬ Display (DISP) button
- ⑭ Level Control buttons
Use to adjust the volume, bass, treble, fader, balance and loudness. (See page 18.)
- ⑮ Electronic Control Mode Select (SEL) button
- ⑯ Display window
- ⑰ Microcomputer Reset button
- ⑱ Preset Station buttons (No.1 to No.6)
- ⑲ Track Number buttons (No.1 to No.6)

- ⑲ Indicators (for Audio Control section)
Volume (VOL)
Bass (BASS)
Treble (TRE)
Fader (FAD)
Balance (BAL)
Loudness (LOUD)
Attenuator (ATT)
Level indicator
- ⑲ Indicators (for Tuner section)
BAND indicator (FM1 [F1]-FM2 [F2]-AM)
Radio frequency
Preset Station
Station name display
TP (Traffic Programme identification)
AF (Alternative Frequencies)
REG (Region)
SSM
T-INFO
ALARM
Mono (MO)
FM Stereo (ST)

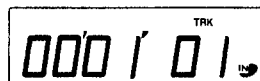
18



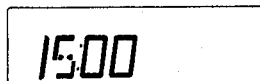
19



20



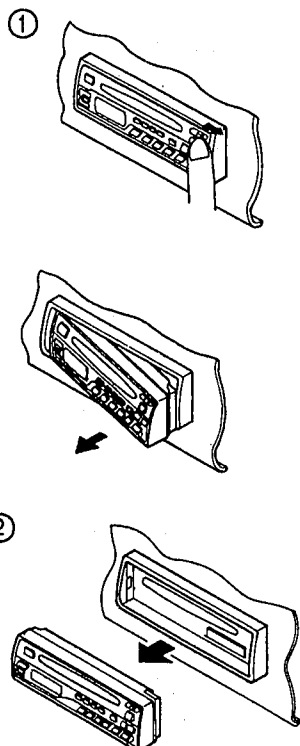
21



- ⑲ Indicators (for CD player section)
LOAD
PLAY
TRK
Track number
RND
EJECT
NO DISC
- ⑲ Indicators (for other controls)
Time

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.

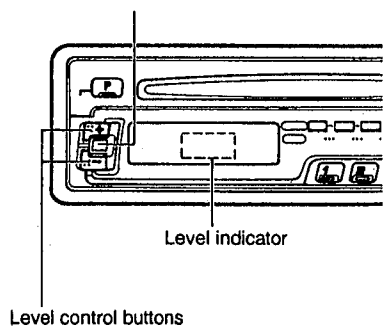


Note:

- 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)

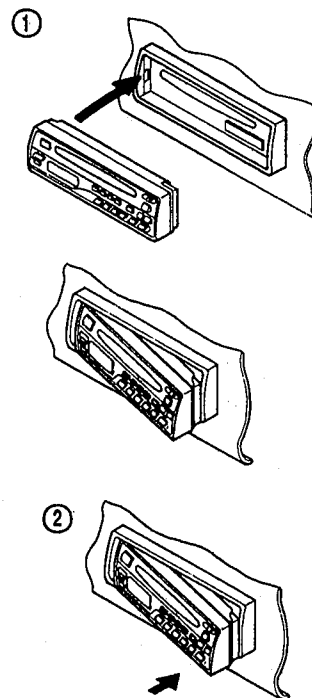


Loudness Control

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.

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.

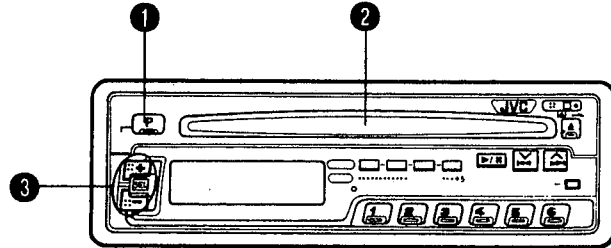


Electronic control mode			
VOL	Volume	(00 – 50) Decreases	(00 – 50) Boosts
BASS	Bass	(–6) – (00) Decreases	(00) – (+6) Boosts
TRE	Treble	(–6) – (00) Decreases	(00) – (+6) Boosts
FAD	Fader	(R5 – 00) Rear	(00 – F5) Front
BAL	Balance	(L6 – 00) Left	(00 – R6) Right
LOUD	Loudness	Off	On

PLAYING COMPACT DISCS

How To Play All Tracks

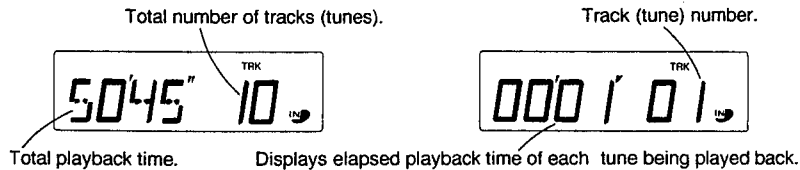
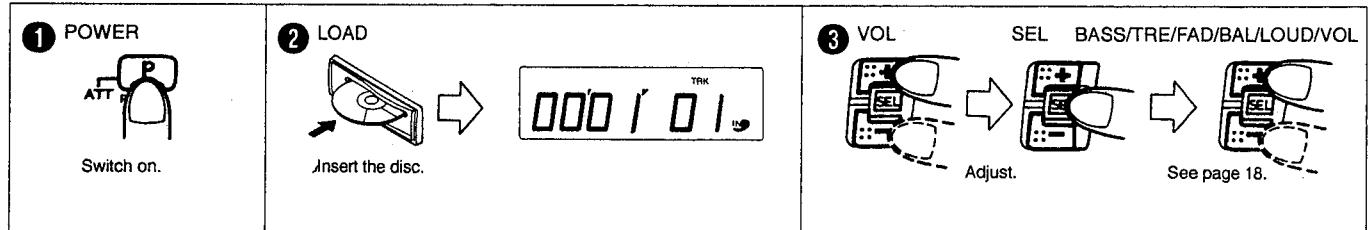
The following example shows a CD containing 10 tracks with a total playback time of 50 minutes, 45 seconds.



Operate in the order shown.

In der gezeigten Reihenfolge vorgehen.

Suivre l'ordre indiqué.



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.

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.

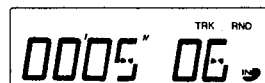
Keep pressed for fast-reverse searching.



Keep pressed for fast-forward searching.

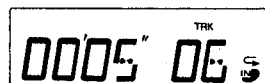
Random Playback

This unit's microcomputer can automatically select tracks on a disc in random order. Press the RND button (for more than 1 second) during playback to start random play. Press it again (for more than 1 second) to cancel the mode.



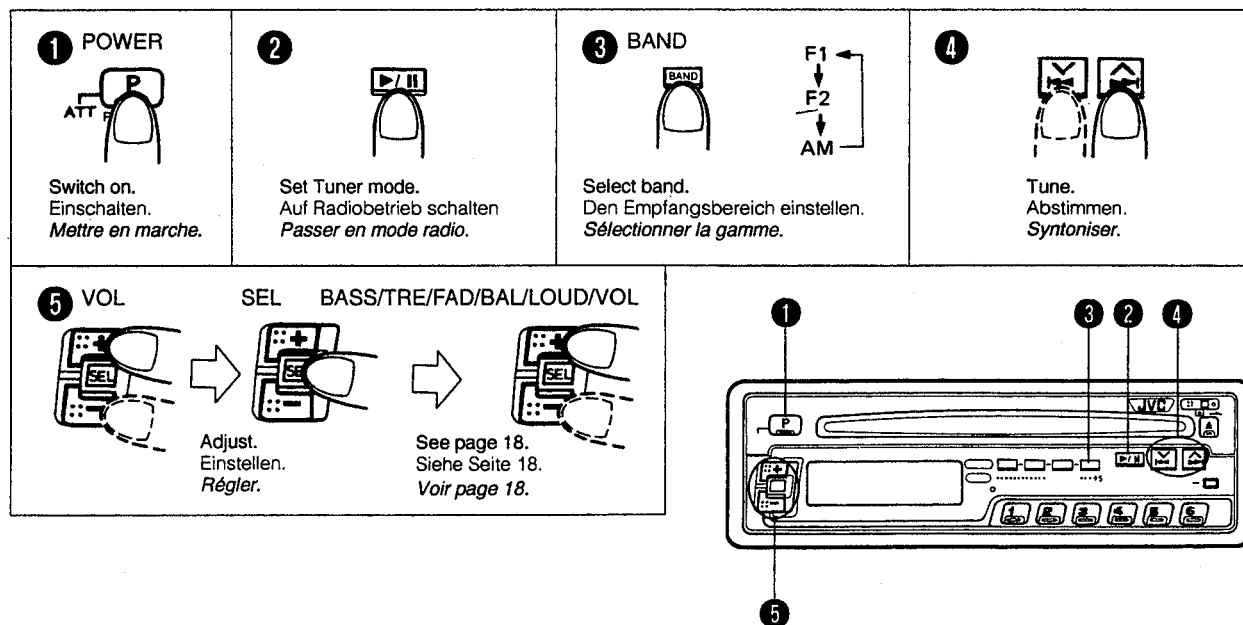
Repeat Playback

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



RADIO OPERATION

Operate in the order shown.



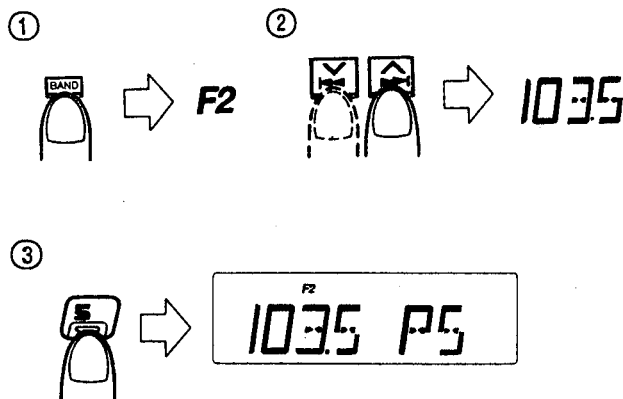
Press to move to lower frequencies.



Press to move to higher frequencies

Seek Tuning

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



Manual Tuning

Each time the Tuning button (\wedge or \vee) is pressed, the unit steps through the current frequency band.

Frequency scan steps are as follows:

FM — in 50 kHz units
MW/LW — in 9 kHz units

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

Preset Button Tuning

How to Preset Stations

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

- ① Select the FM2 band using the Band (BAND) button.
- ② Tune to the desired station.
- ③ Press Preset Station button "5" for more than 2 seconds. (When "P5" blinks in the Preset Station display, the station is preset.)
 - Repeat the above procedure for the other 5 Preset Station buttons and other bands (FM1 and AM [MW/LW]).

Notes:

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

EON (Enhanced Other Networks)

EON automatically stores the frequencies of stations from other networks transmitting information codes (TP/TA/AF/PTY/PS etc.) so they can be mutually used. The following points have been improved:

When listening to a station NOT transmitting traffic information for example, EON automatically tunes to a station in a local network when this information is broadcast and then switches back to the original programme when the broadcast ends.

The transmitted information (AF and other codes) is constantly and automatically updated so that preset programme information can be heard immediately even if in a different network area.

Automatic reception of traffic information

1. Press the INFO button (the TP indicator blinks). Seek tuning will now stop only at stations broadcasting traffic information TP signals. When traffic information is received, the TP indicator lights.
2. When listening to a CD, it will be interrupted automatically by the traffic information, as long as TP is set. After the traffic information ends, the unit switches back to CD playback.

Traffic Information Volume Control

This function adjusts the volume of traffic information broadcasts.

1. Press the INFO button while pressing the SEL button; "INFO" will be displayed.
2. While "INFO" is displayed, set to the required volume using the Volume Level Control buttons.
3. Press the SEL button to preset the volume level.

Note:

When the INFO button is set to ON, an alarm sound can be heard if the tuner is not receiving a station broadcasting traffic information. In this case, perform seek tuning or set the INFO button to OFF.

Preset Station buttons

When a Preset Station button is pressed, if the station with that frequency is broadcasting a sufficiently strong signal, the receiver will tune to that frequency.

When the signal strength is not sufficient for good reception, by referring to the AF list, the receiver searches for a station broadcasting the same programme with a stronger signal. If a station cannot be found in the AF list, PI-seeking tuning starts. If a station broadcasting the same PI code cannot be detected in one search-cycle, PI-seeking tuning is released and the original preset frequency is tuned to.

CT (Clock Time)

When CT data is received in the RDS signal, the time is correctly renewed.

- RDS updates the local time according to Greenwich mean time.
- When automatic renewal of clock time is NOT required, press the DISP button for more than 2 seconds while pressing the SEL button. "ADJ OFF" is displayed and the clock time is NOT renewed even if the CT (Clock Time) data is received with the RDS signal. Repeat the same procedure to reset to ON. "ADJ ON" will be displayed and clock time will be automatically renewed when CT data is received.

Note:

It takes at least 2 minutes to renew the time after receiving CT data. The station must be received for more than 2 minutes continuously, otherwise the time will NOT be renewed.

Mono Button

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

Note:

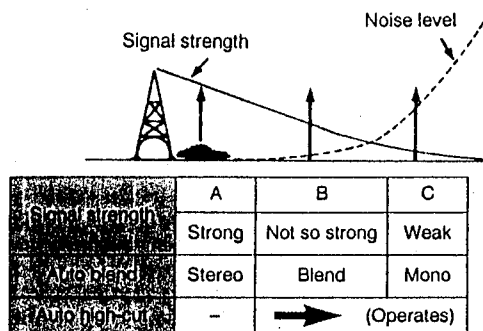
Set to mono when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

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.



Preset Tuning

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

Strong-Station Sequential Memory (SSM)

This function searches for FM and AM (MW/LW) stations broadcasting strong signals. The 6 strongest stations are held in memory in the order of increasing frequency, and can be recalled with the Preset Station buttons (No.1 to No.6).

(Procedure)

- ① Press the SSM buttons (V, ^) for more than 3 seconds.
- ② The strongest signals in the band you are listening to (FM1, FM2 or AM [MW/LW]) will be searched and selected automatically. Six stations are preset in the Preset Station buttons (No.1 to No.6), in the order of increasing frequency. (During this operation, "SSM" lights in the display.) The unit then automatically tunes to the broadcast stored in Preset Station button "1".

Note:

Previously preset stations are canceled automatically when SSM is used.

Station name display

The station name is displayed automatically when an RDS station is received.

RDS button

To select Network-Tracking mode, press the RDS button.

- **Mode 1 (AF: on/REG: on):**
Network-Tracking is activated and Regional mode is engaged (switches between stations broadcasting the same programme, at all times).

- **Mode 2 (AF: on/REG: off):**
Network-Tracking is activated. Switches between stations belonging to the network being received.

Note:

In Mode 2, the broadcast may switch between different programmes even within the same network at certain time.

- **Mode 3 (AF: off):**
Network-Tracking deactivated.

Network-Tracking reception

When driving in an area where the signal strength drops, the tuner automatically uses PI and AF codes to retune to the same programmes with a stronger signal from another RDS station in the network. By utilizing these codes, you can continue to listen to the same programmes in its finest condition, no matter where you drive. (See illustration.)

RDS (Radio Data System)

RDS is a broadcasting system in which digital data is multiplexed together with normal FM radio signals. In this way, RDS offers a wide variety of new functions including AF (Alternative Frequencies — automatic tuning) and TA (Traffic Announcement identification), plus other CT, EON, PI, PS and TP codes:

- CT (Clock Time)
- EON (Enhanced Other Networks)
- PI (Programme Identification)
- PS (Programme Service name)
- TP (Traffic Programme identification)

RDS operation

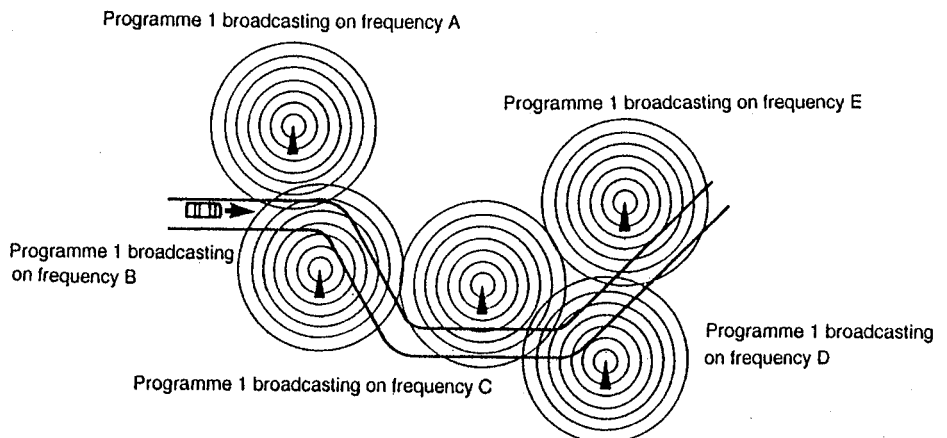
- Traffic programmes and announcements can be automatically received using the TP/TA codes.
- Network Tracking reception uses the PI and AF codes. The PI code identifies the country, area and station for automatic tuning, while AF "knows" what stations are broadcasting the same programme and automatically tunes to the strongest signal for optimum frequency response.
- The PS code allows station names to be displayed.

Note:

RDS operates when in FM mode only.

- When the RDS station to which you are tuned does not provide AF data or the unit is unable to receive AF data for any reason, Network-Tracking reception will NOT operate even when the signal strength drops below the reference level.

The same programme can be received on different frequencies.



DIGITAL CLOCK DISPLAY

Display Button

- Press the DISP button for more than 1 second during Operation mode to continuously display the Time mode, and vice versa.

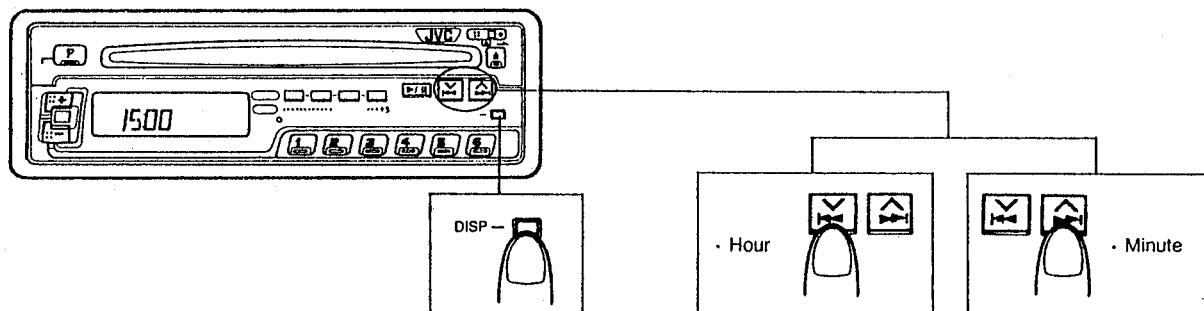
This button is used to select the Station name of the broadcast station being received and Frequency modes. Each time the button is pressed, the display changes as follows:

Station name → Frequency being received.

* When the RDS signal is weak or when not tuned to an RDS station, the Station name is NOT displayed.

How To Adjust The Time

While pressing the DISP button, press the Hour Adjustment button (↙) to adjust the "hours", and press the Minute Adjustment button (↗) to adjust the "minutes".

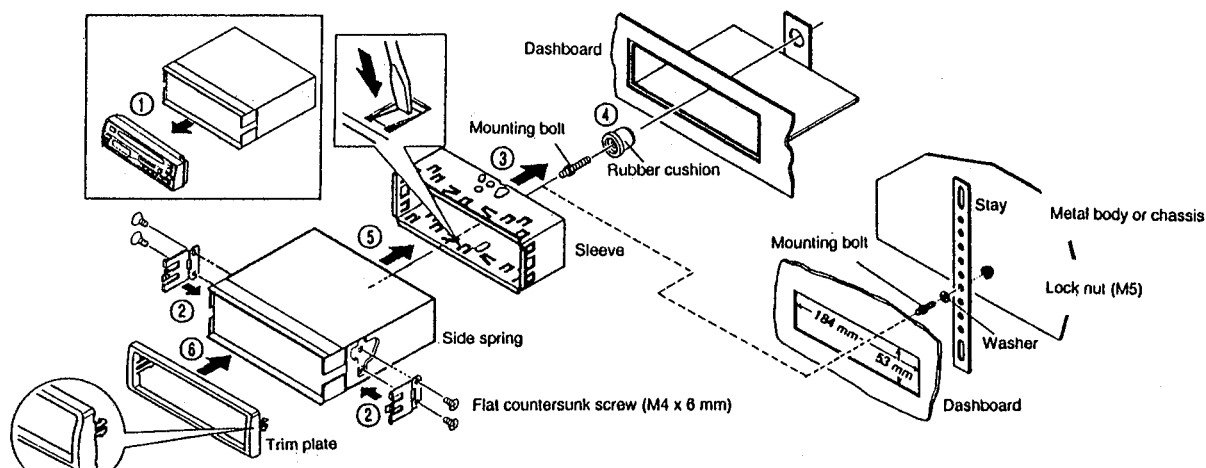


INSTALLATION (IN-DASH MOUNTING)

- 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 "IN-CAR ENTERTAINMENT" dealer.

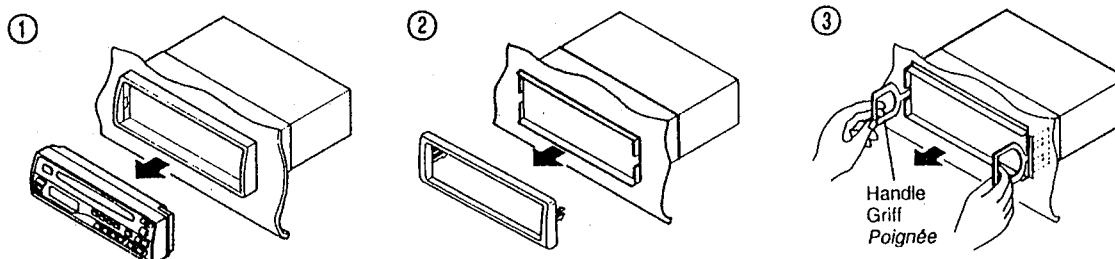
- Slide the Control Panel Release (⏏) switch to the right and remove the control panel.
- Attach the 2 side springs.
- Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
- Fix the mounting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

- Follow the numbers for mounting.



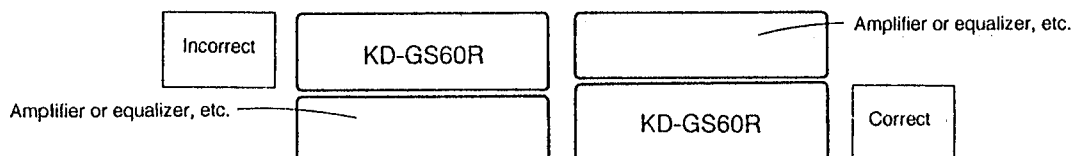
Removing the unit

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



Installing With Other Equipment

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



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 "IN-CAR ENTERTAINMENT" 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.

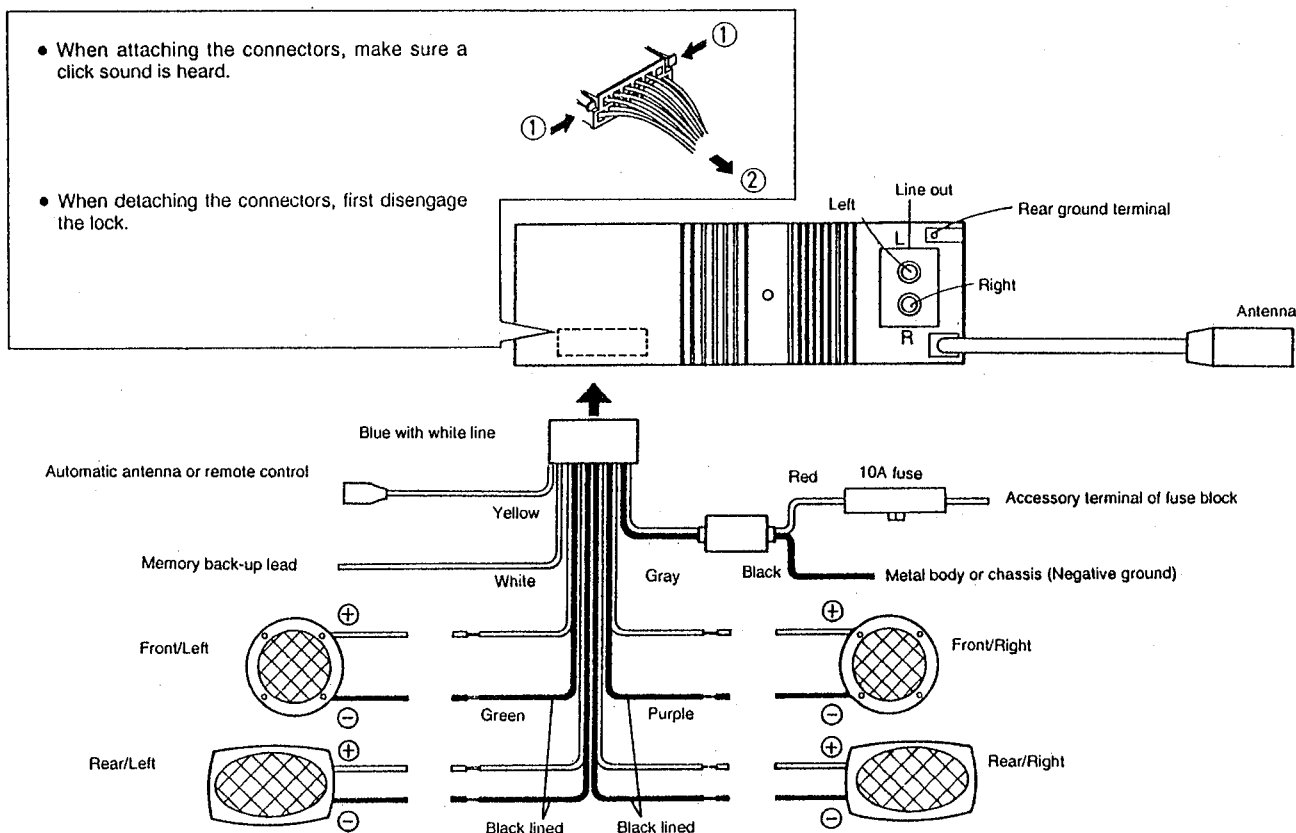
CAUTIONS:

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

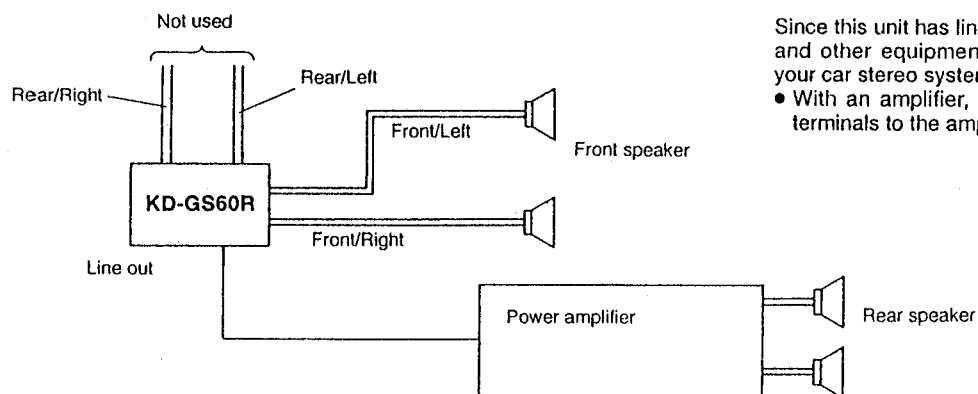
1. Do NOT connect the black-lined speaker leads to a common point.
2. Do NOT connect the speaker leads to the metal body or chassis.
3. Cover the terminals of the leads that are NOT used with insulating tape, to prevent them from shorting.

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

A. 4-Speaker Connections



B. 4-Speaker connections when adding a power amplifier



D. Power Aerial (Automatic Antenna) Connections

This unit can perform automatic extension/retraction of a power aerial when the power is turned ON/OFF. The remote lead connection (blue with white lines) from the audio unit is via a separate relay to the aerial motor unit.

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.

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).

5. Location of Main Parts

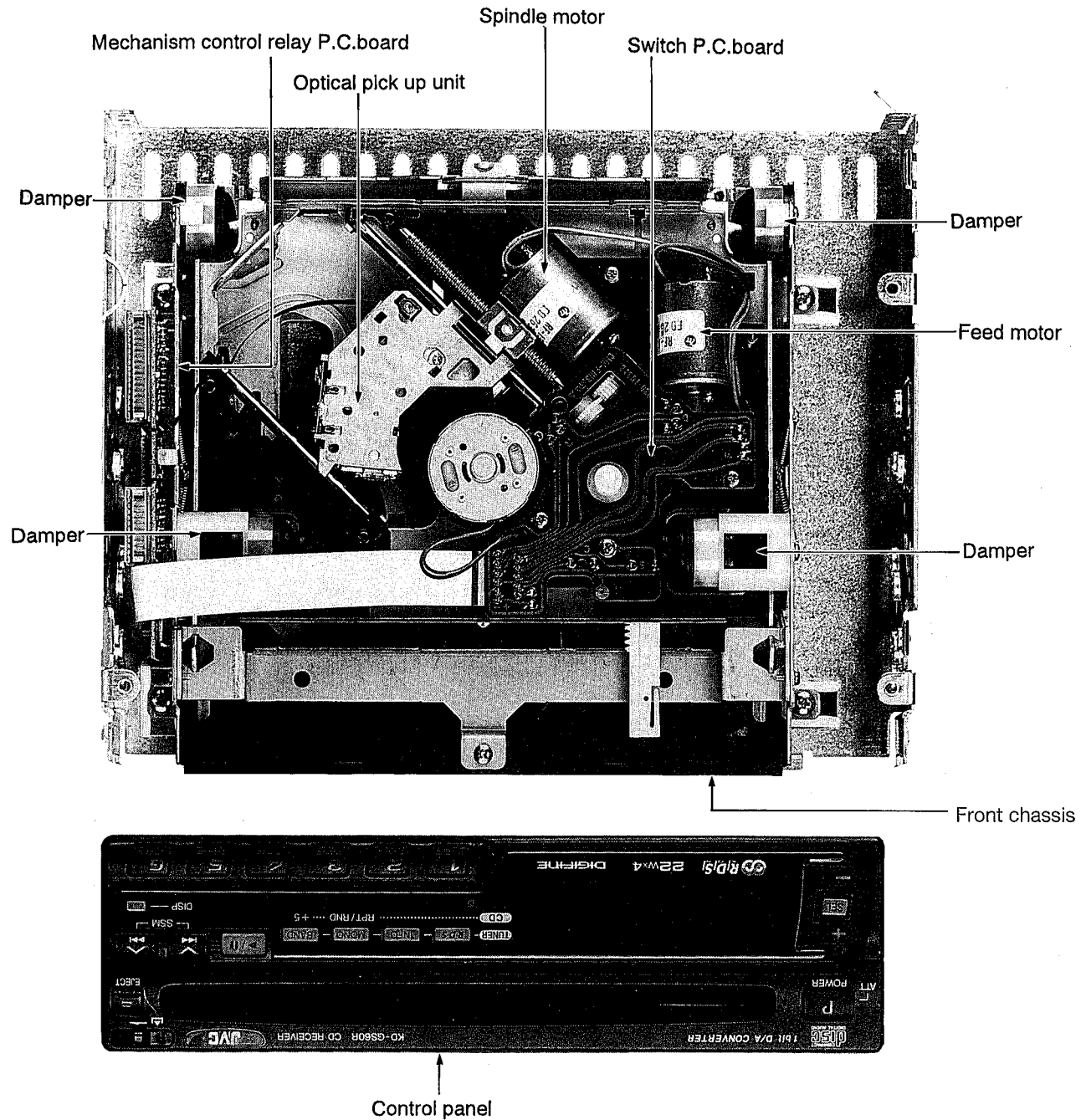


Fig. 5-1

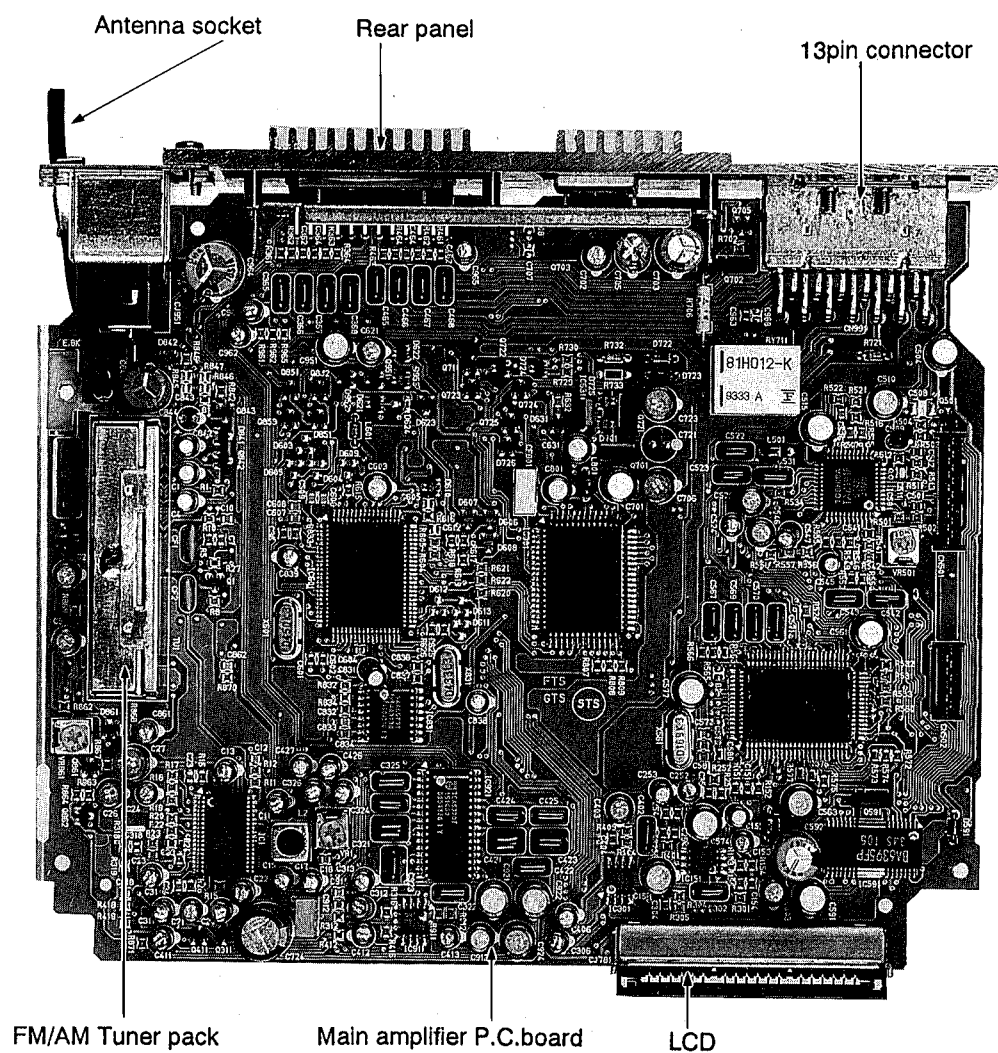


Fig. 5-2

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.

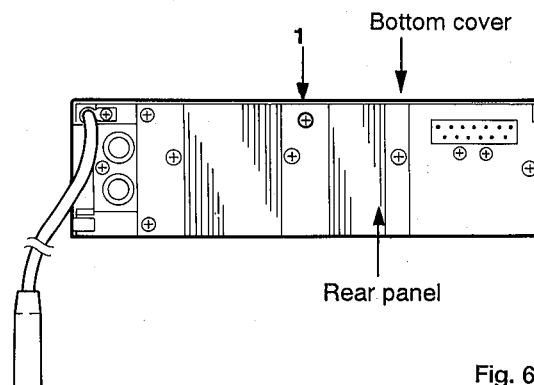


Fig. 6-1

■ 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.

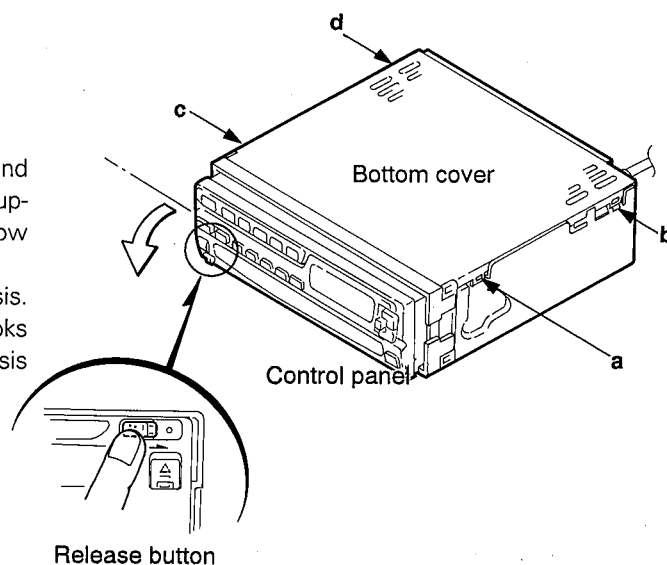


Fig. 6-2

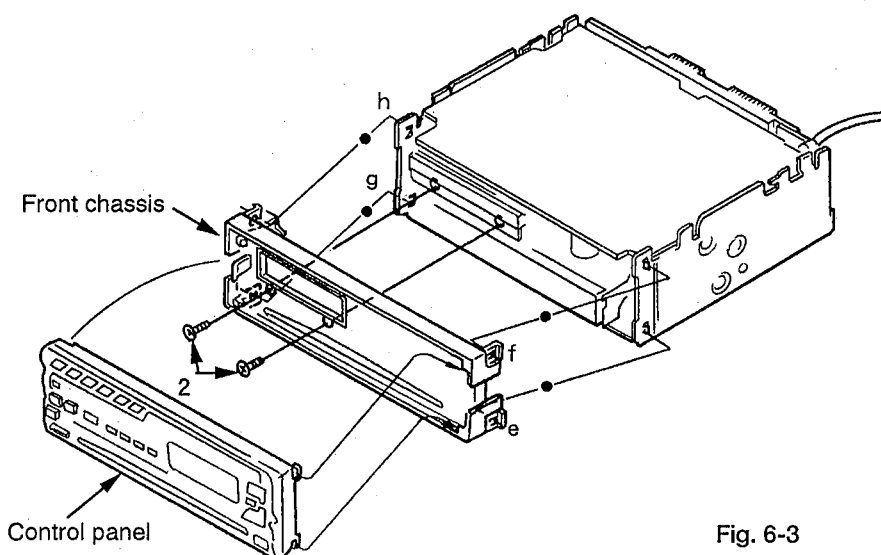


Fig. 6-3

■ 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.

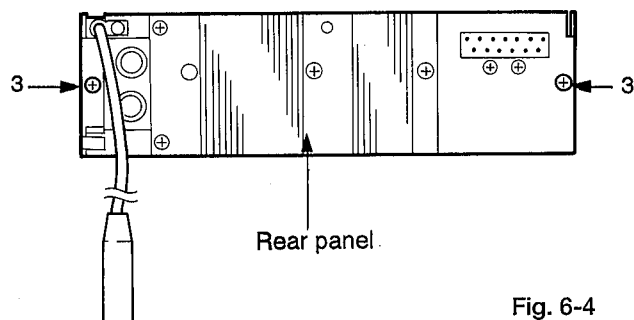


Fig. 6-4

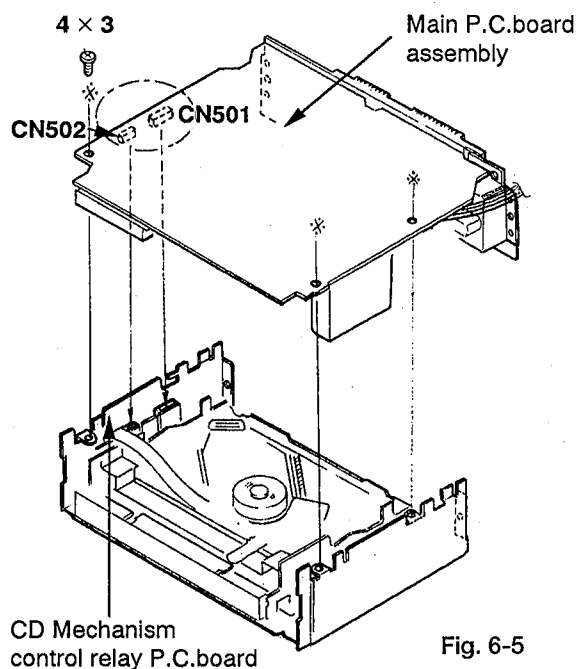


Fig. 6-5

■ 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.

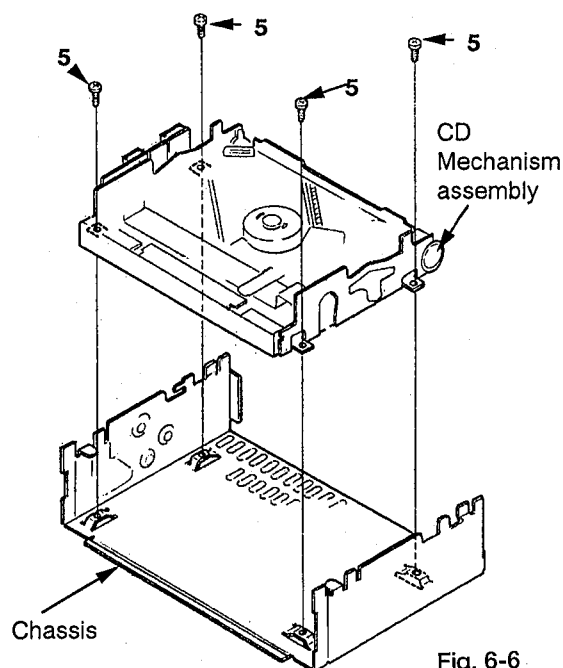


Fig. 6-6

■ 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.

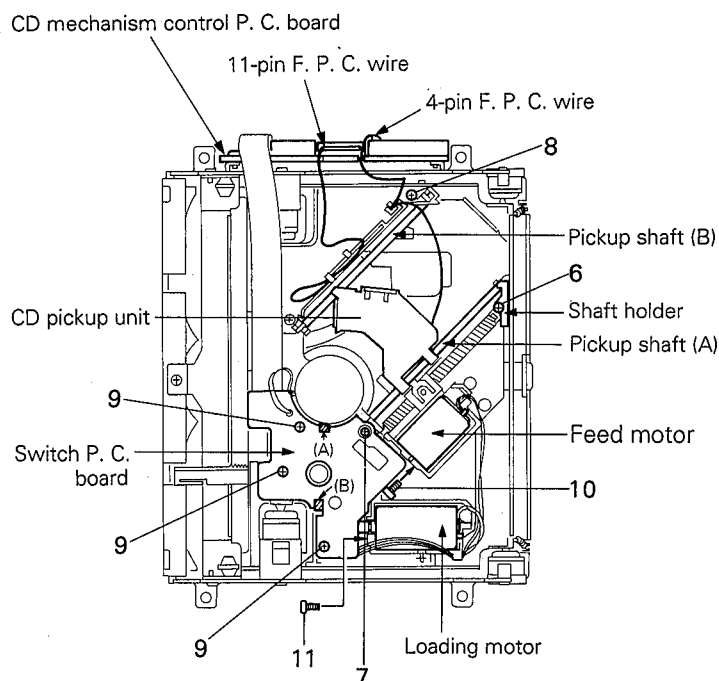


Fig. 6-7

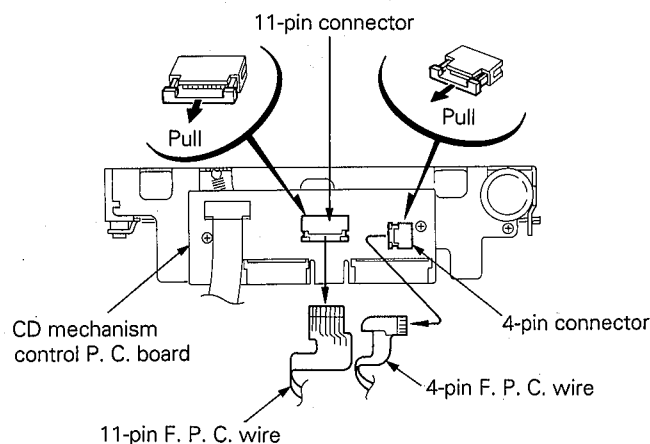


Fig. 6-8

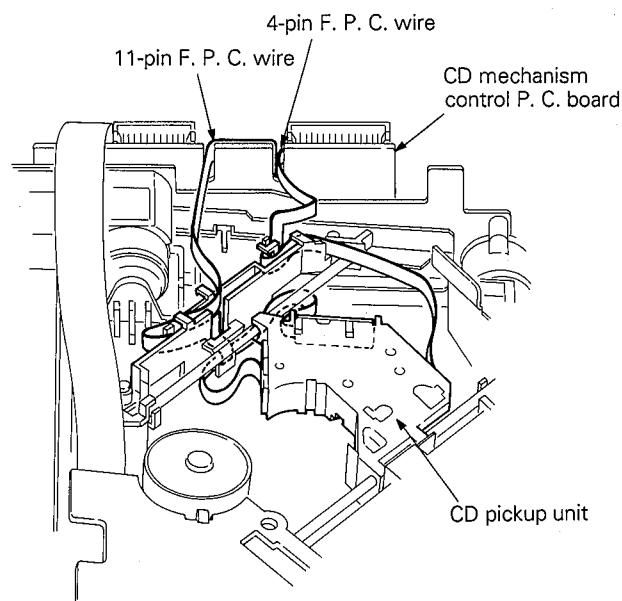


Fig. 6-9

7. Analytic Drawing and Parts List

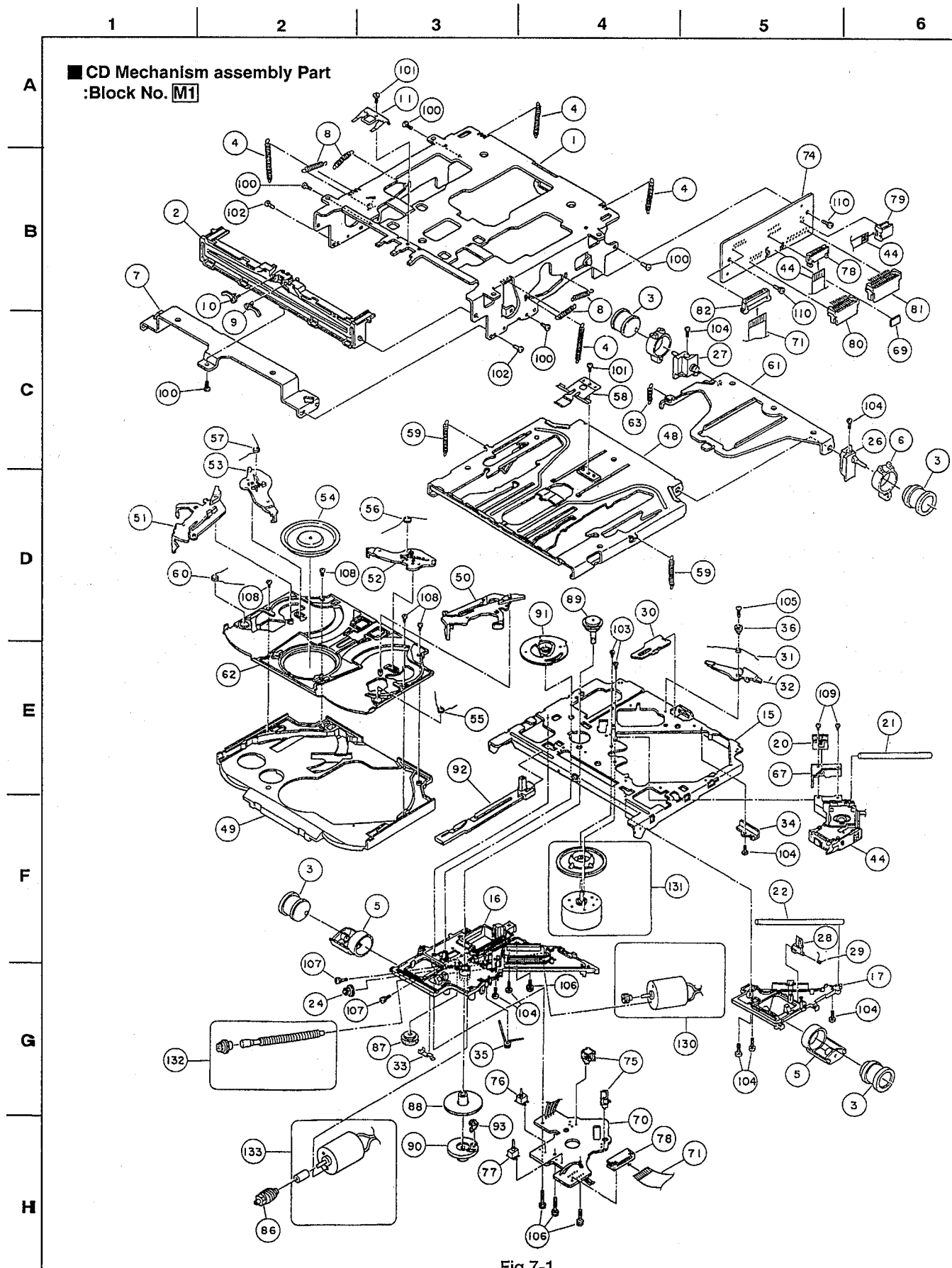


Fig.7-1

■ CD Mechanism assembly parts list

BLOCK NO. M1MM 1 1 1

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	30300101T	FRAME		1		
	2	30300102T	DISC GUIDE		1		
	3	30300104T	DAMPER		4		
	4	30300105T	HANG UP SP.A		4		
	5	30300108T	DAMPER BKT.(F)		2		
	6	30300109T	DAMPER BKT.(R)		2		
	7	30300110T	TTB GUIDE BKT.		1		
	8	30300111T	LEVEL SPRING		4		
	9	30300113T	DISC STOPPER R		1		
	10	30300114T	DISC STOPPER L		1		
	11	30300115T	DS SPRING PLATE		1		
	15	30300501T	T T BASE		1		
	16	30300502T	FEED MOTOR BASE		1		
	17	30300503T	PICK UP GUIDE B		1		
	20	30300506T	NUT		1		
	21	30300507T	PU SHAFT(A)-		1		
	22	30300508T	PU SHAFT(B)		1		
	24	30300510T	PU GEAR(B)		1		
	26	30300512T	T GID.BAS.BKT(R		1		
	27	30300513T	T GID.BAS.BKT(L		1		
	28	30300514T	T GUIDE B.STPR.		1		
	29	30300515T	TGB STPR.SPRING		1		
	30	30300516T	CLASPER		1		
	31	30300517T	CLASPER SPRING		1		
	32	30300518T	CLASPER ARM		1		
	33	30300519T	SW.PLATE		1		
	34	30300520T	SHAFT HOLDER		1		
	35	30300521T	THRUST SPRING		1		
	36	30300522T	COLLAR		1		
	44	OPTIMA-60B2	PICK-UP	OPTIMA-60MZ	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	S ARM(R)SPRING		1		
	56	30300610T	STOPPER(R)SP.		1		
	57	30300611T	STOPPER(L)SP.		1		
	58	30300612T	CLAMP SP.PLATE		1		
	59	30300613T	TAG SPRING		2		
	60	30300614T	S ARM(L)SPRING		1		
	61	30300616T	CLAMPER ARM		1		
	62	30300618T	CD TRAY COVER A		1		
	63	30300617T	C ARM SPRING		1		
	67	30300701T	NUT HOLDER		1		
	69	19500834T	FFC TAPE		1		
	70	30301001T	SW.PCB		1		
	71	30301003T	F-FFC		1		
	74	30301006T	CONNECTOR PCB(J		1		
	75	64020413T	DETECTOR SW		2		
	76	64020414T	SW.		1		
	77	64020415T	SW.		1		

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	78	681402156T	CONNECTOR		2		
	79	681402158T	CONNECTOR		1		
	80	68150225T	CONNECTOR		1		
	81	68150226T	CONNECTOR		1		
	82	68170211T	CONNECTOR		1		
	86	30301101T	LOADING GEAR(A)		1		
	87	30301102T	LOADING GEAR(B)		1		
	88	30301103T	LOADING GEAR(C)		1		
	89	30301104T	LOADING GEAR(D)		1		
	90	30301105T	L CLUTCH DISC		1		
	91	30301108T	CAM GEAR		1		
	92	30301109T	LOAD.GEAR PLATE		1		
	93	30301110T	SELECT LEVER		1		
	100	9B1220051T	TAPPING SCREW	M2 X 5	5		
	101	9C0420253T	TAPPENG SCREW	M2 X 2.5	2		
	102	9P0420041T	SCREW(M2 X 4)	M2 X 4	2		
	103	9C0117223T	SCREW	M1.7 X 2.2	2		
	104	9C2220603T	TAPPING SCREW	M2 X 6	8		
	105	9C3720803T	TAPPING SCREW	M2 X 8	1		
	106	9C3920013T	TAPPING SCREW	M2 X 11	4		
	107	9P0220041T	TAMS SCREW	M2 X 4	2		
	108	9C3817403T	TAPPING SCREW	M1.7 X 4	4		
	109	9C0117225T	CAMERA SCREW		2		
	110	9P1220051T	S TAPPING SCREW	2 X 5	2		
	130	303005301T	FEED MOTOR ASY.		1		
	131	303005302T	SPIN.MOTOR ASY		1		
	132	303005303T	FEED SCREW ASY.		1		
	133	303011301T	LOAD.MOTOR ASY.		1		

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

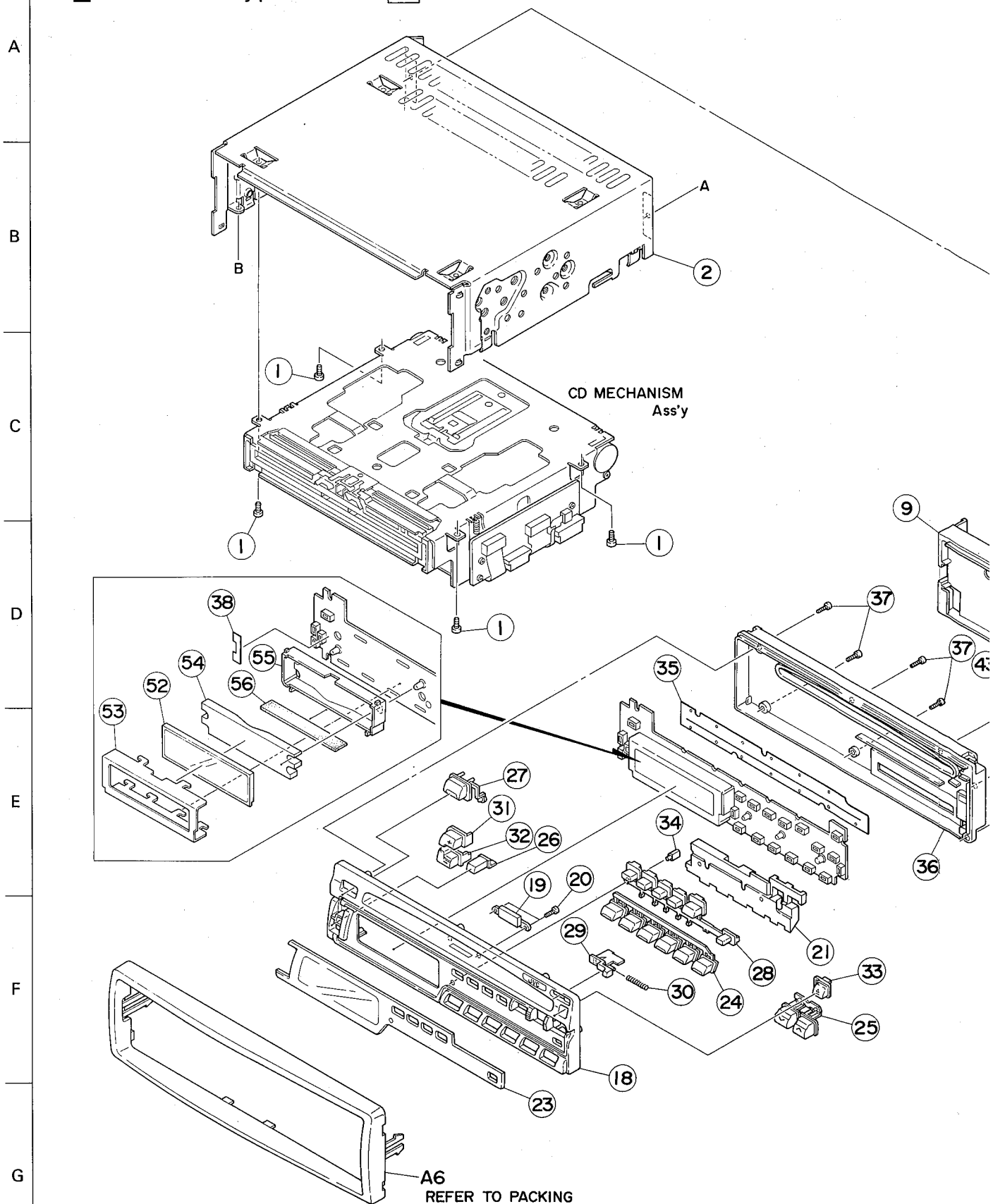


Fig. 7-2

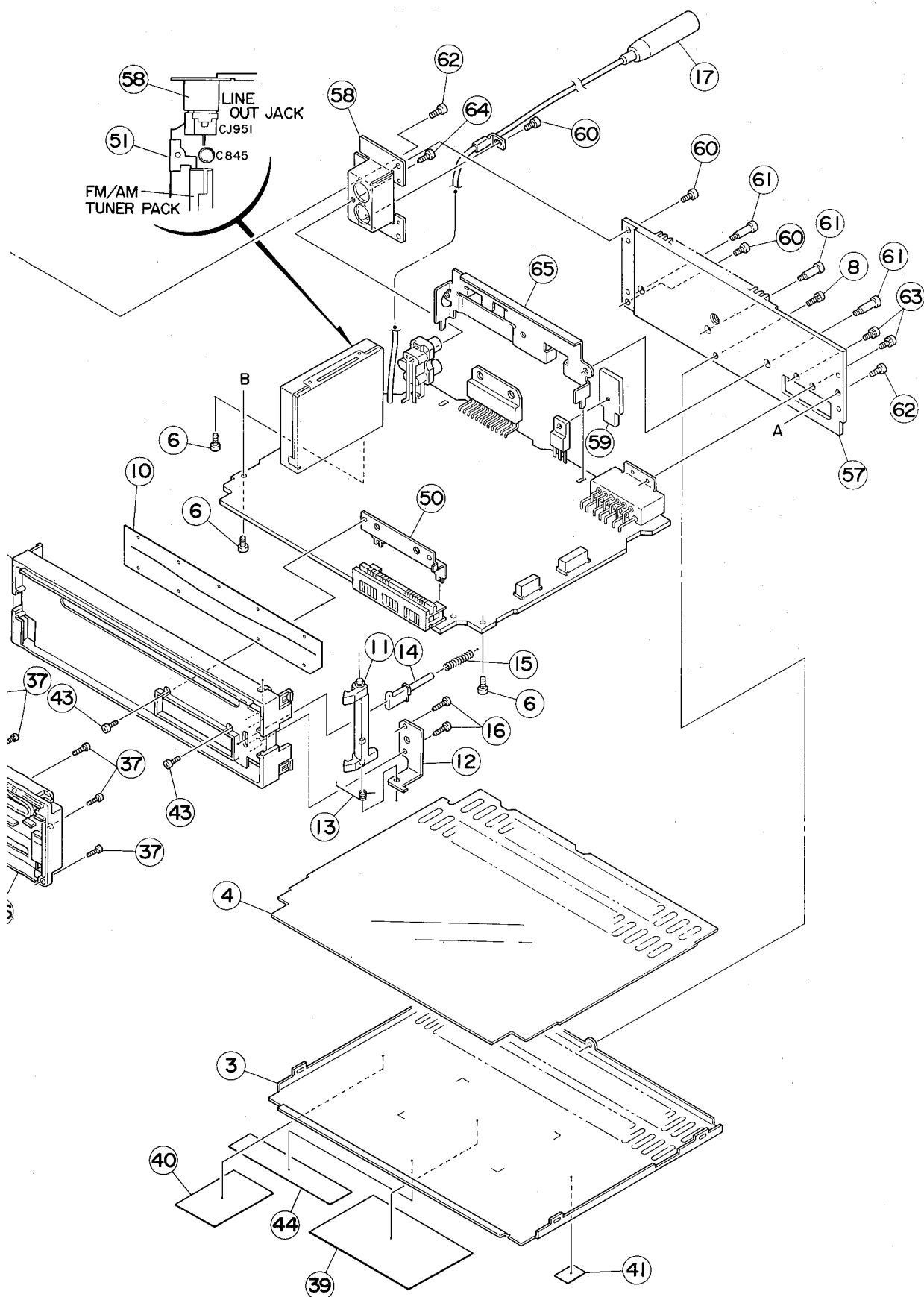
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7

8

9

10



Enclosure assembly parts list

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	A ZCKDGS60RK-NPA	NOSE PIECE ASSY	REFNO.18,23	1		
2	SDST2604Z	SCREW	MECHA+CHASSIS	4		
3	VKL1423-001	CHASSIS		1		
4	VKM3798-001	BOTTOM COVER		1		
5	VMA3218-001	INSULATOR		1		
6	VKZ4345-002	SPECIALSCREW	MAIN BOARD+SIDE	3		
8	LPSP2608Z	SCREW	REAR SIDE BOTTO	1		
9	VJC2529-001	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	VMP0029-031	ANT SOCKET		1		
18	VJG1295-004	FRONT PANEL		1		
19	VJK3646-001	LIGHT LENS		1		
20	SPSN1755N	MINI SCREW		2		
21	VJK2196-001	BUTTON LENS		1		
23	VJK2192-003	FINDER		1		
24	VXP2091-001	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	VXP3657-002	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	VXP3659-001	EJECT BUTTON		1		
34	VXP5251-001	RESET BUTTON		1		
35	VYTA513-001	BLIND(P)		1		
36	VJG1296-003	REAR COVER		1		
37	SPSN1780N	MINI SCREW	FRONT+REAR	7		
38	VYTH529-001	BUTTON CUSHION	SELECT BUTTON	1		
39	VYN3519-002SA	NAME PLATE		1	G,GE	
	VYN3519-001SA	NAME PLATE		1	B,E	
	VYN3519-003SA	NAME PLATE		1	GI	
40	E70891-001	CLASS 1 LABEL		1		
41	VND4597-001	APPROVAL LABEL	KD-GS60RE	1		
43	SDSP2008M	SCREW	CONNECT BOARD	2		
44	E406709-001	LASER CAUTION		1		
50	VKM3818-001	CNN BRACKET		1		
51	VKL7752-001	EARTH PLATE		1		
52	VGL1160-001	LCD	LCD1	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		2		
	SDST2606Z	SCREW		1		

BLOCK NO.

M	2	M	M			
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[illegible]



■ 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)

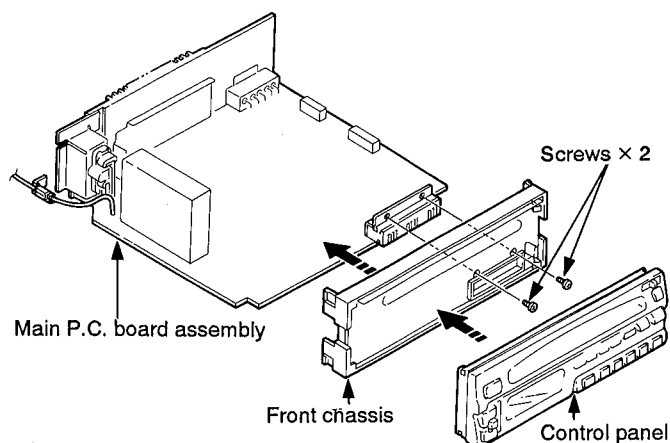


Fig. 8-2

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

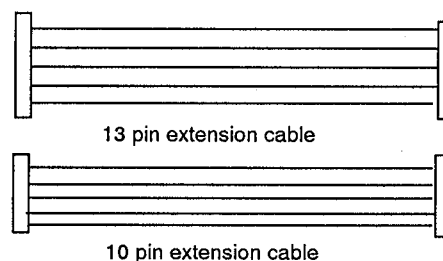


Fig. 8-4

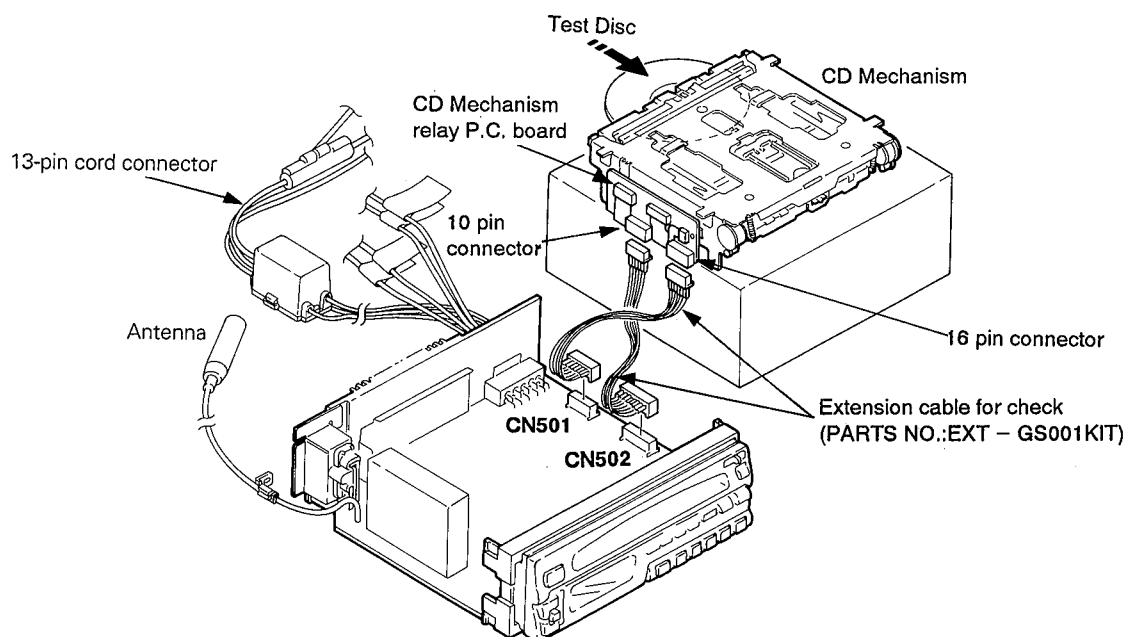
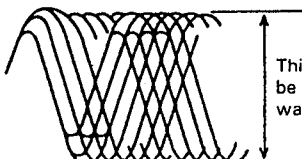
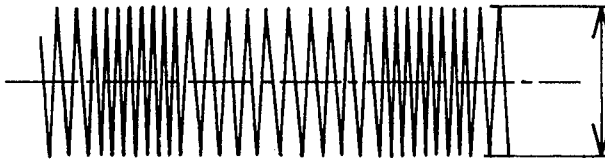


Fig. 8-3

■ CD Section

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 $1.5V \pm 300mV$	
		<p>Eye pattern waveform</p>  <p>This amplitude should be maximum and the waveform clear.</p> <p>Fig. 8 - 5</p>		
3. Tracking offset adjustment	Measuring instruction Oscilloscope	<p>Adjustment procedure</p> 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
		<p>Tracking offset waveform</p>  <p>Set the P-P center of the DC level to zero.</p> <p>Fig. 8 - 6</p>		
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.		

Tuner Section

Item	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. 0V adjustment	Mesuring instructions FM SSG: 97.9MHz unmodulation, 66dB	1. Adjust L2 to get TP11 DC level 0 ± 10 mV when receiving signal. 2. Confirm DC level 0 ± 30 mV after adjust.	DC level 0 ± 30 mV	L2
2. SD adjustment	Mesuring instructions FM SSG : 97.9MHz, 52dB unmodulation	Adjust VR861 to get TP13 volt 3.0 ± 0.1 V when receiving 97.9MHz.	3.0 ± 0.1 V	VR861
3. Separation adjustment	Mesuring instructions FM SSG : 97.9MHz, 66dB, modulation only Rch.	Adjust VR1 so that the deviation between Lch and Rch should be maximum when receiving signal.	deviation : maximum	VR1
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.	

Item	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

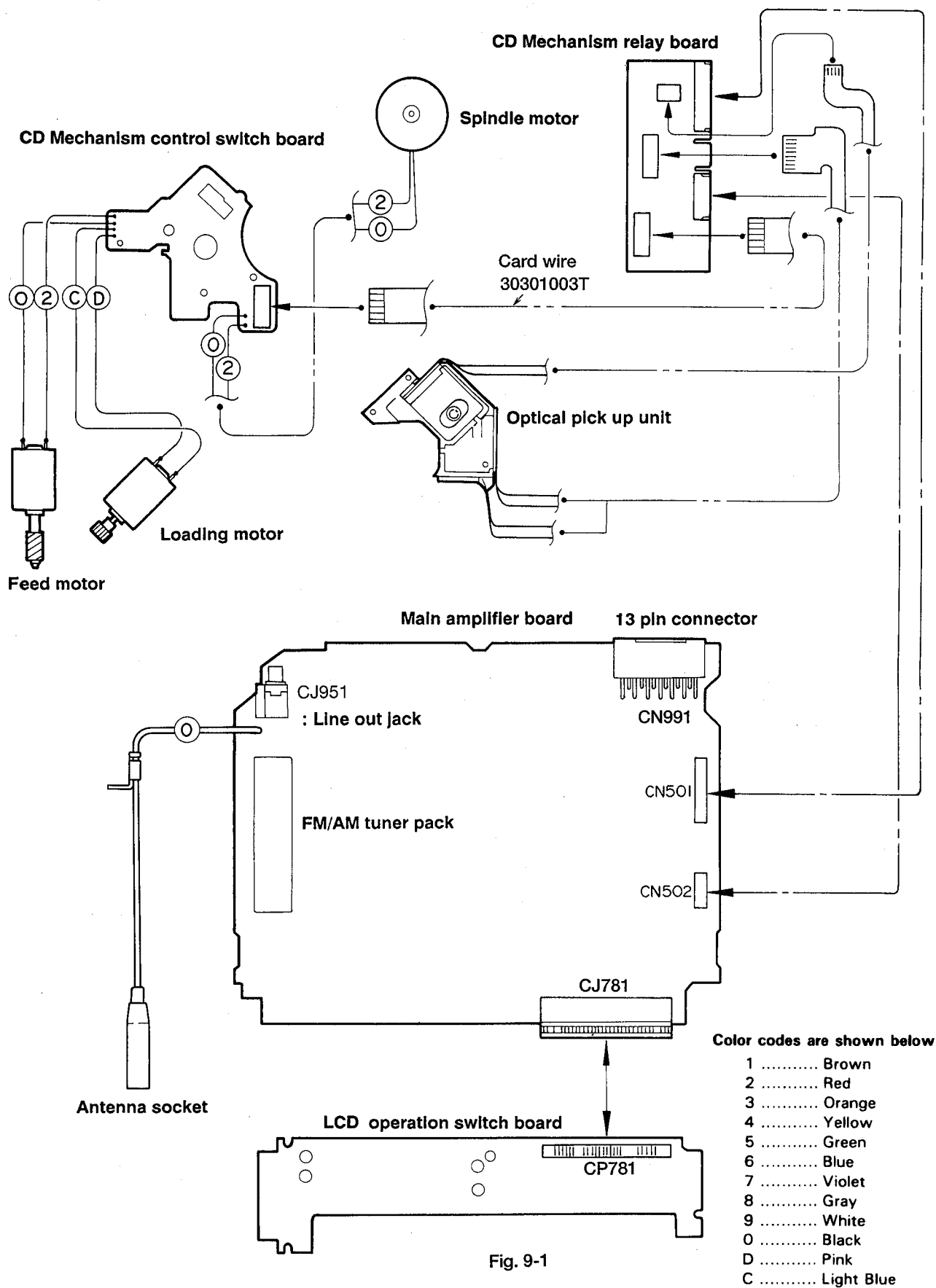
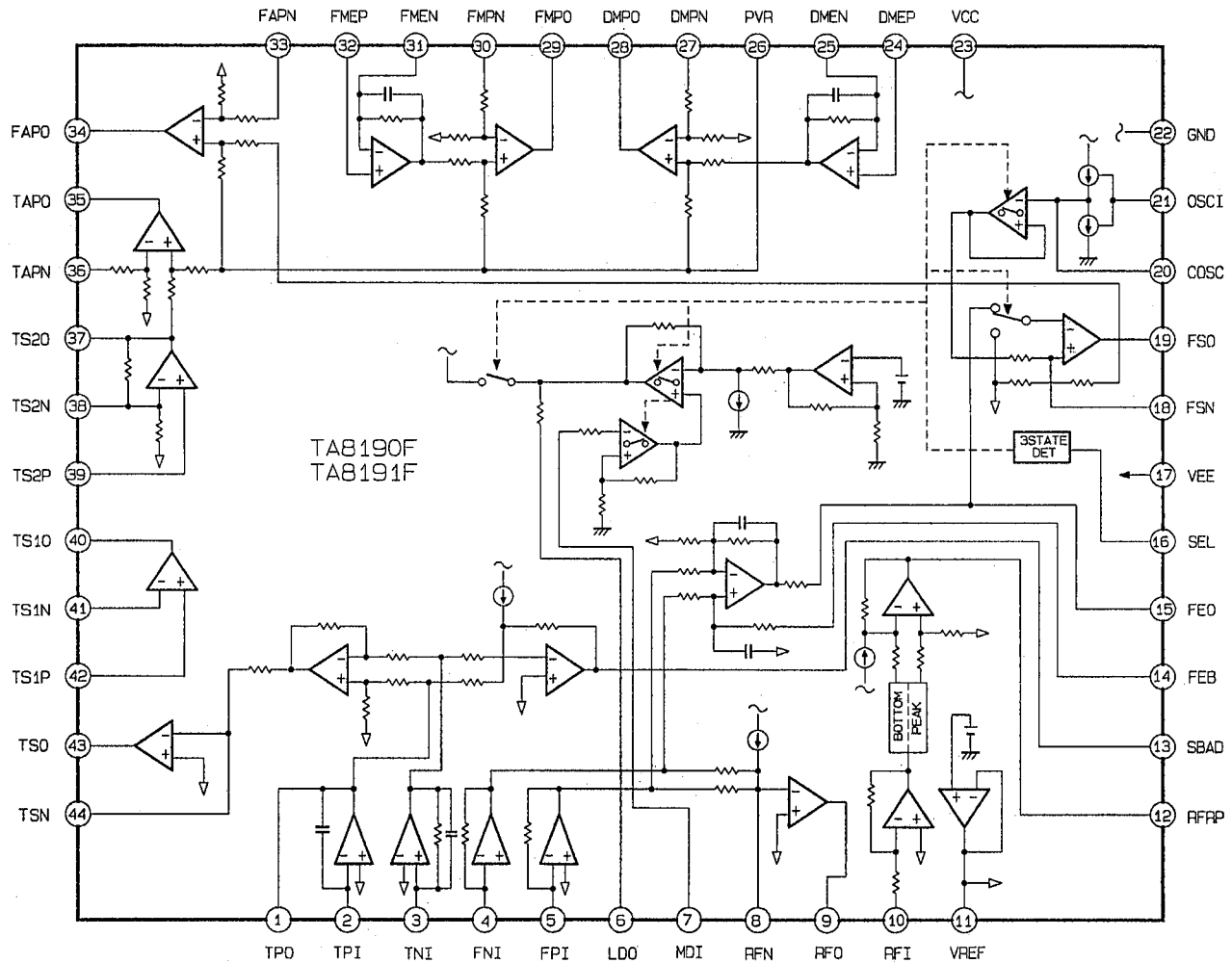


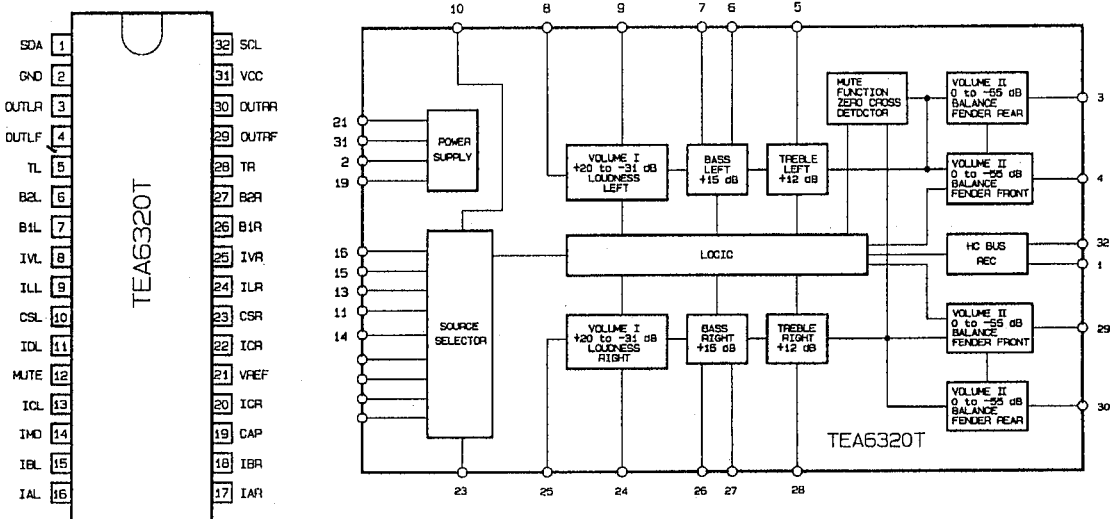
Fig. 9-1

Main IC Block diagram

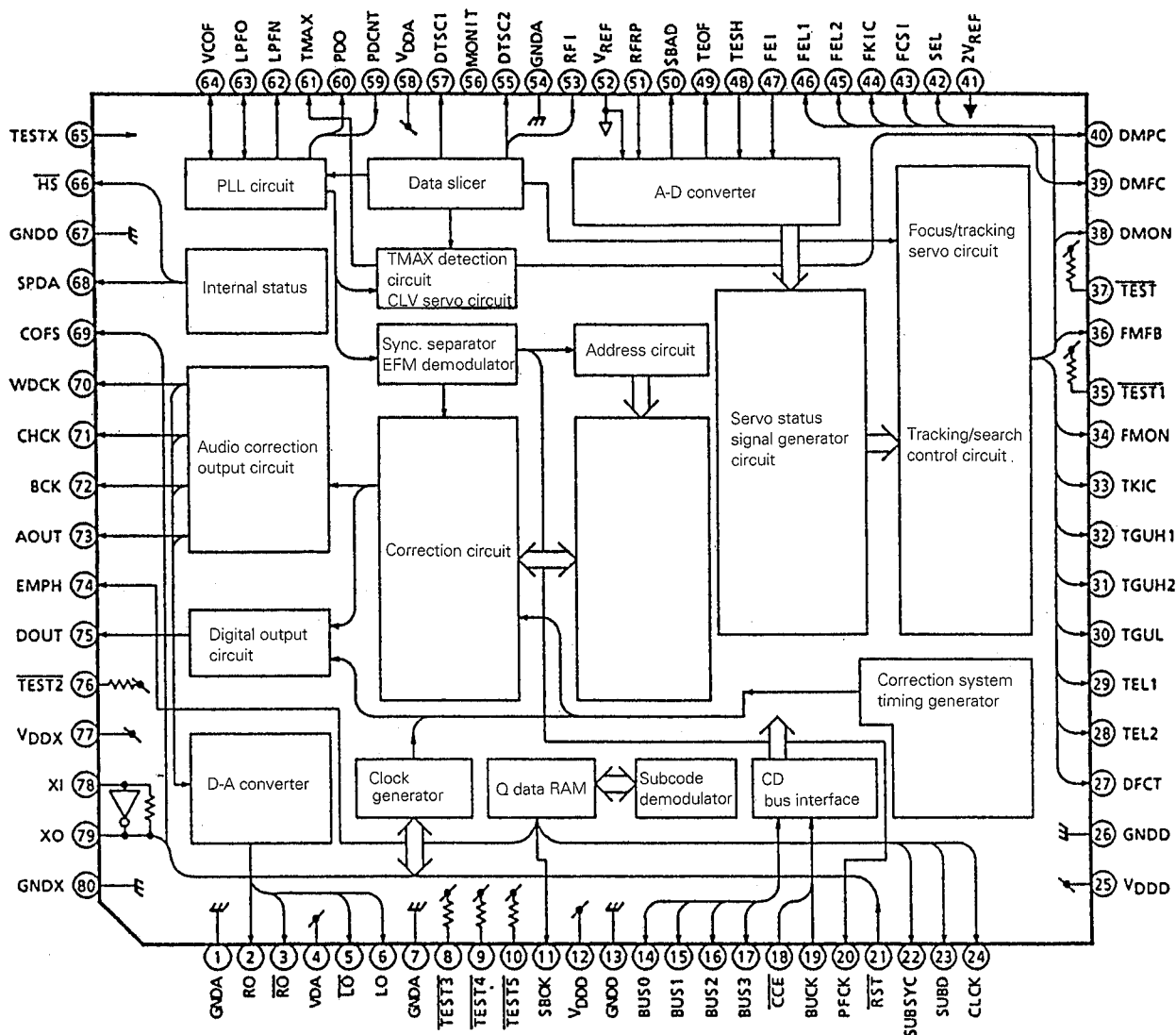
IC501(CD RF & SERVO AMPLIFIER) : TA8191F



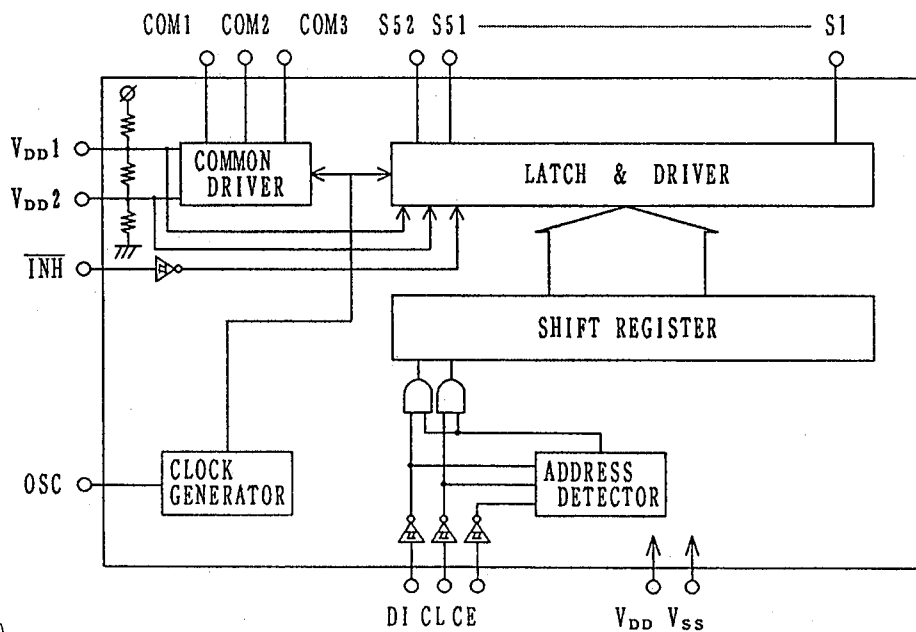
IC321 (ELECTRICAL VOLUME) : TEA6320T



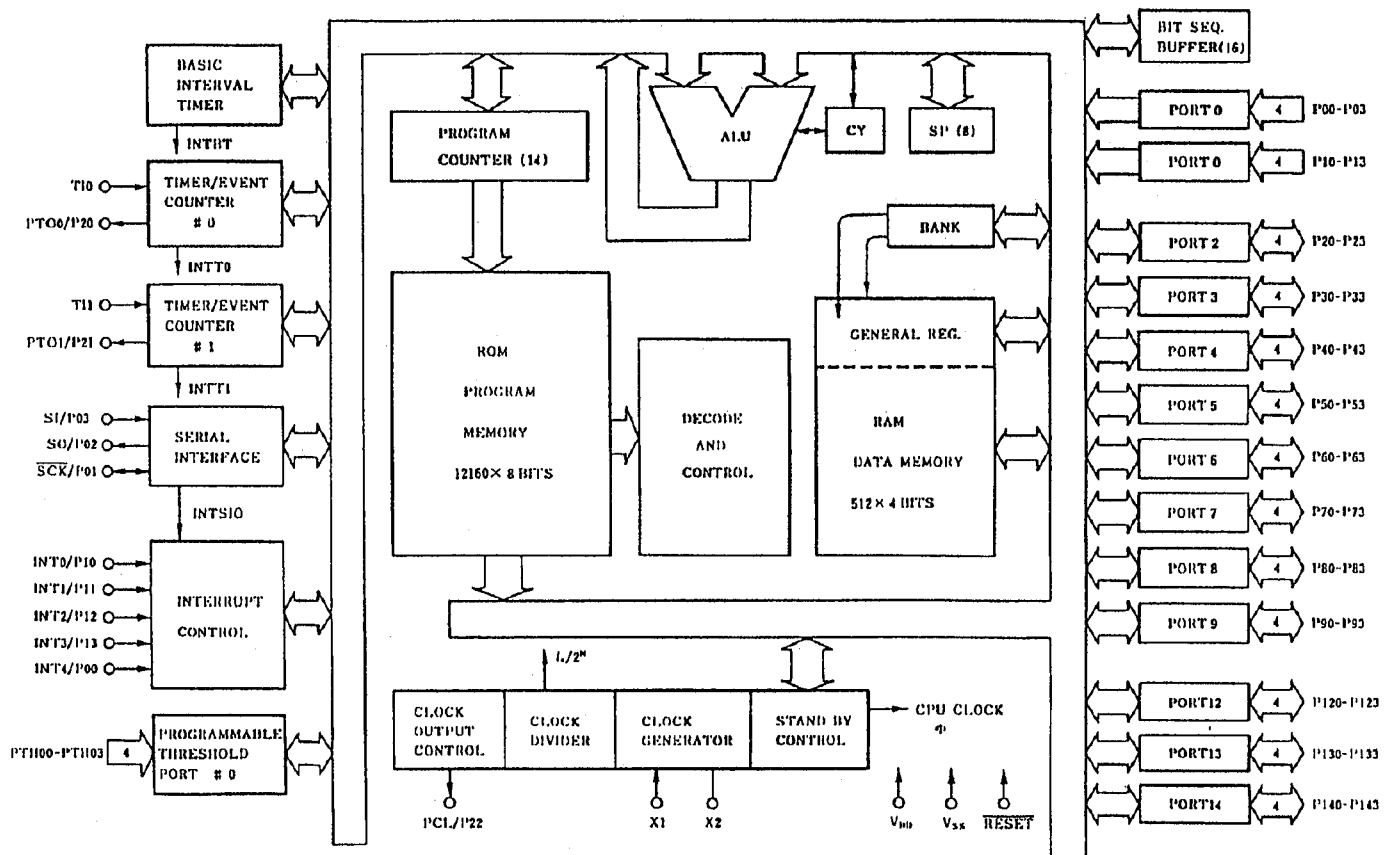
● IC561 (DATA PROCESSOR & DF. D/A) : TC9284AF



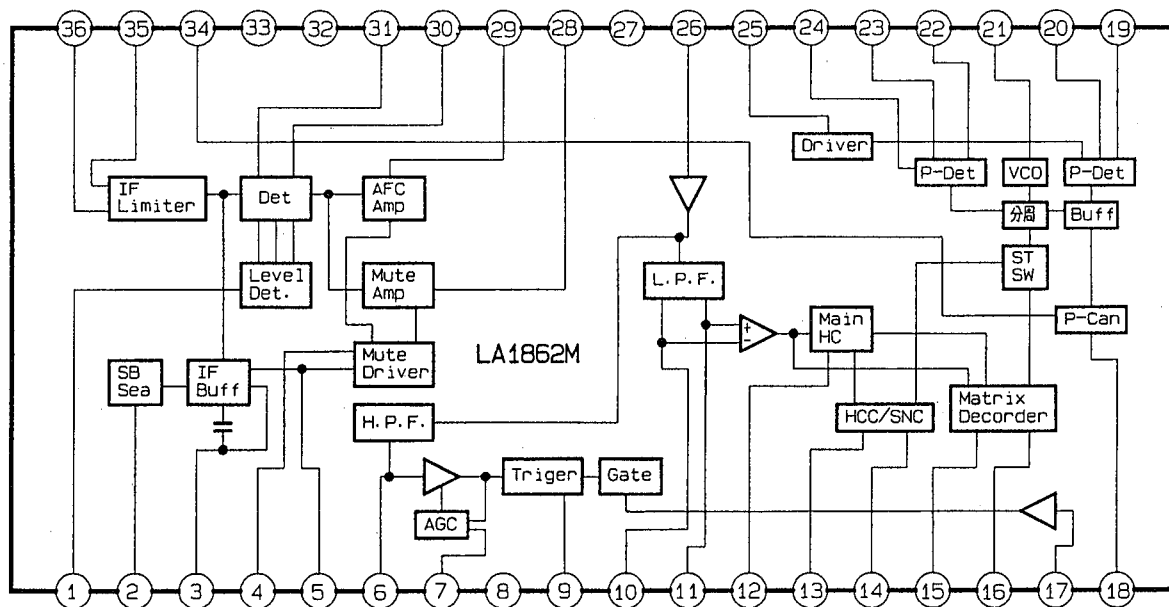
● IC741 (LCD DRIVER) : LC775850E



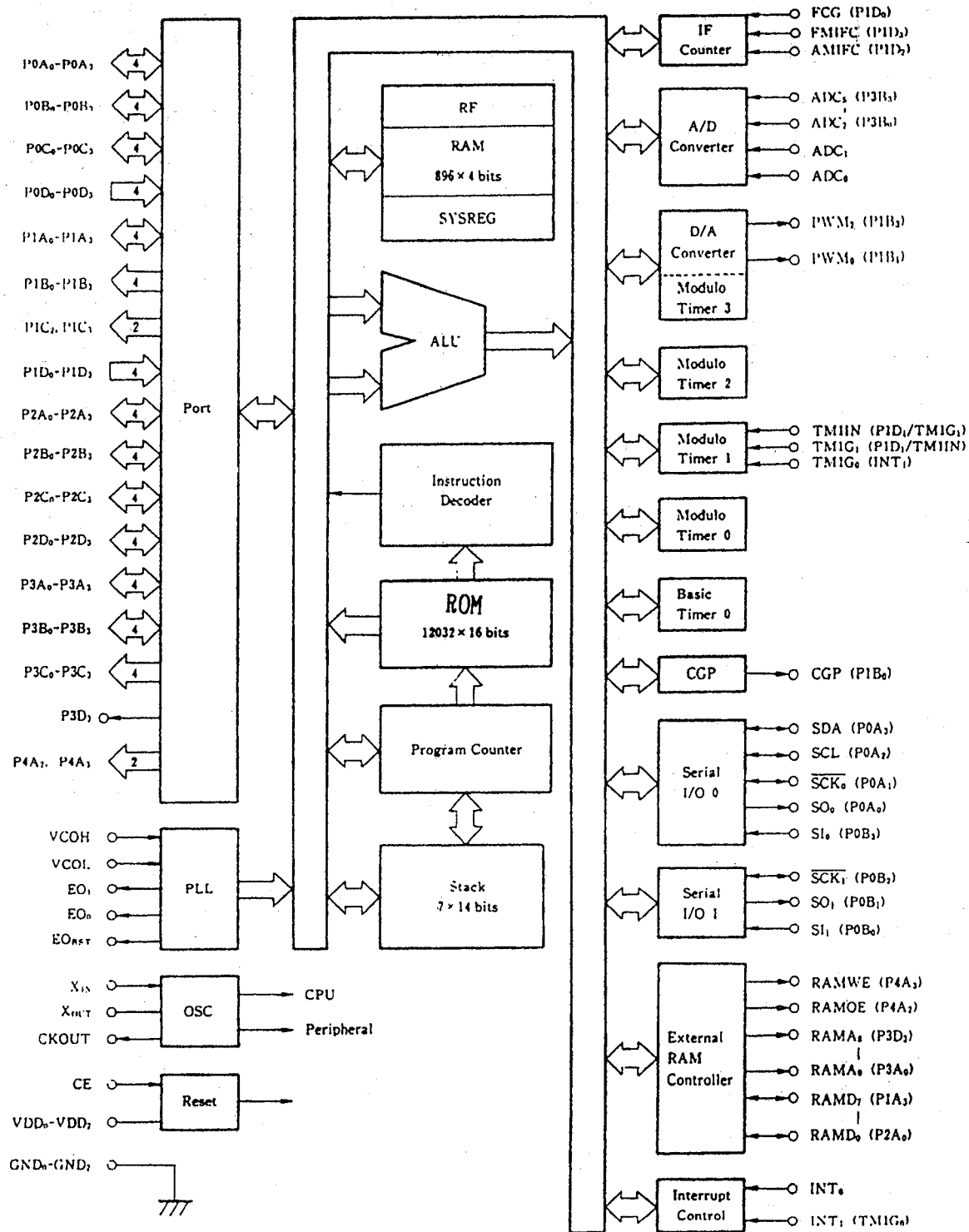
● IC801 (CD μ - COM) : μ PD75112GF - E70



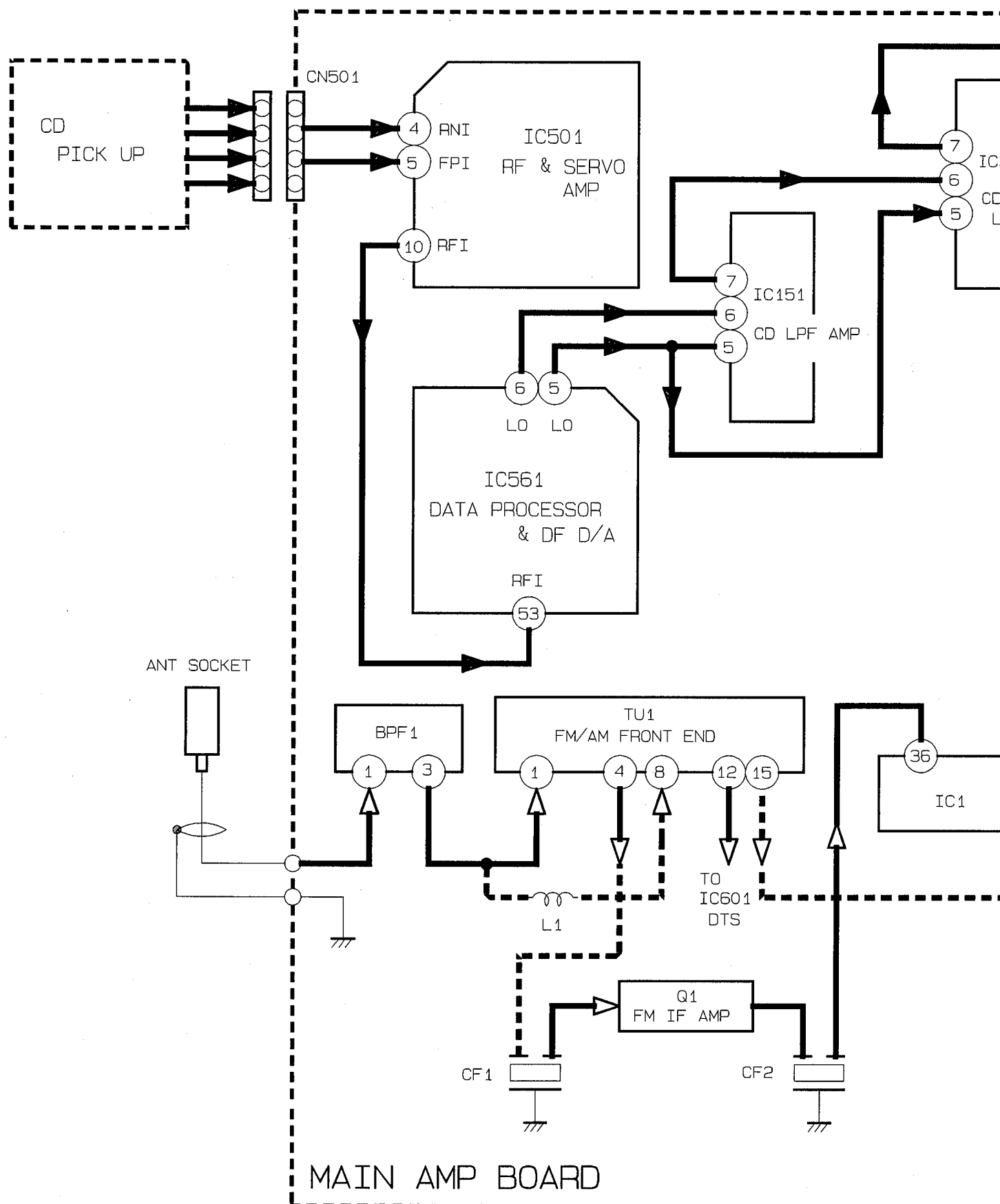
● IC 1 (FM IF & NC & MPX) : LA1862M



● IC601 (DIGITAL TUNING SYSTEM) : μ PD17006AGF - E20



10. Block Diagram



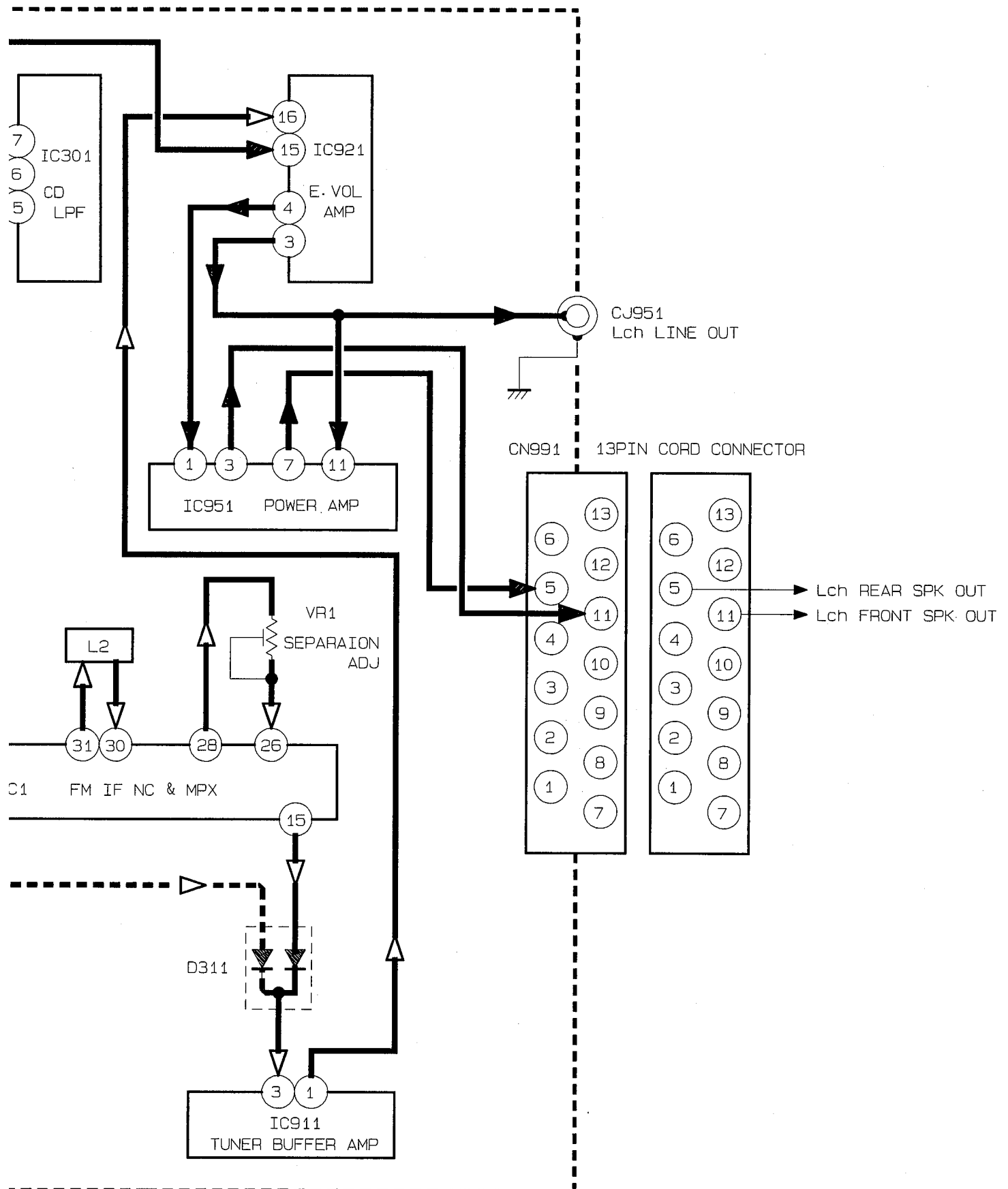
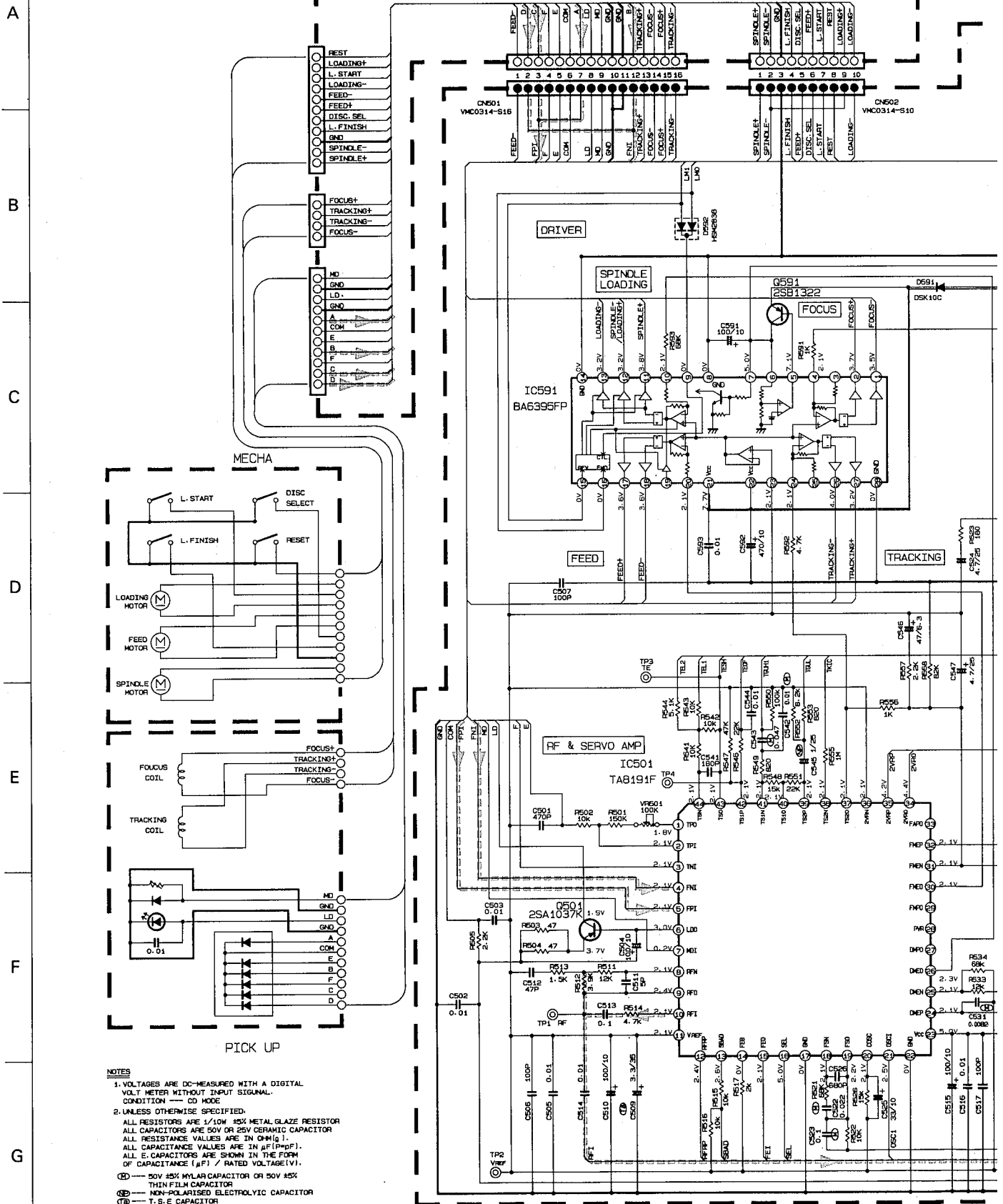
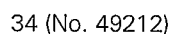


Fig. 10-1

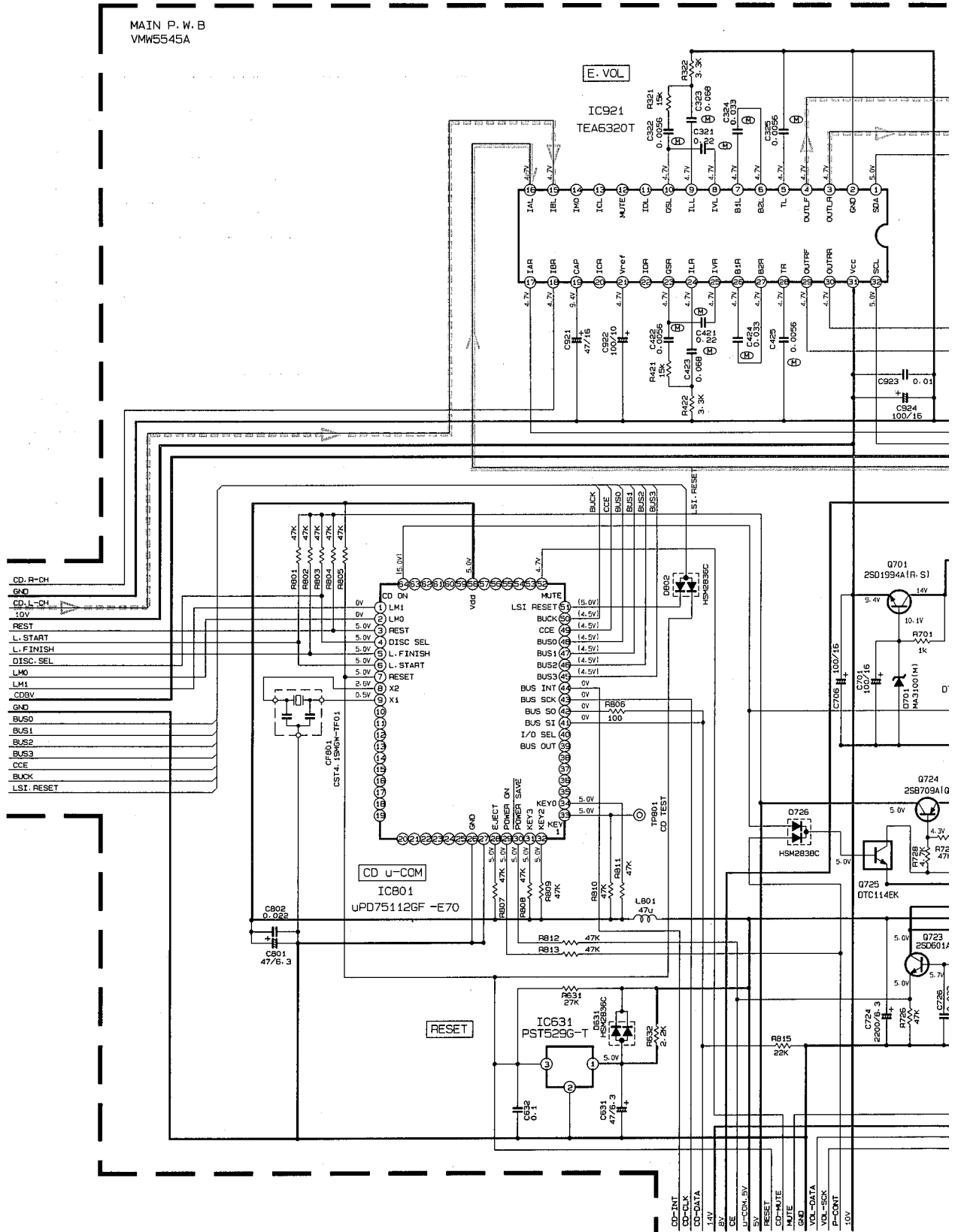
11. Standard Schematic Diagrams

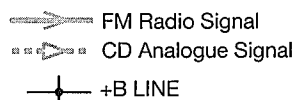
CD Amplifier Circuit : Drawing No. VDH3489-001CV





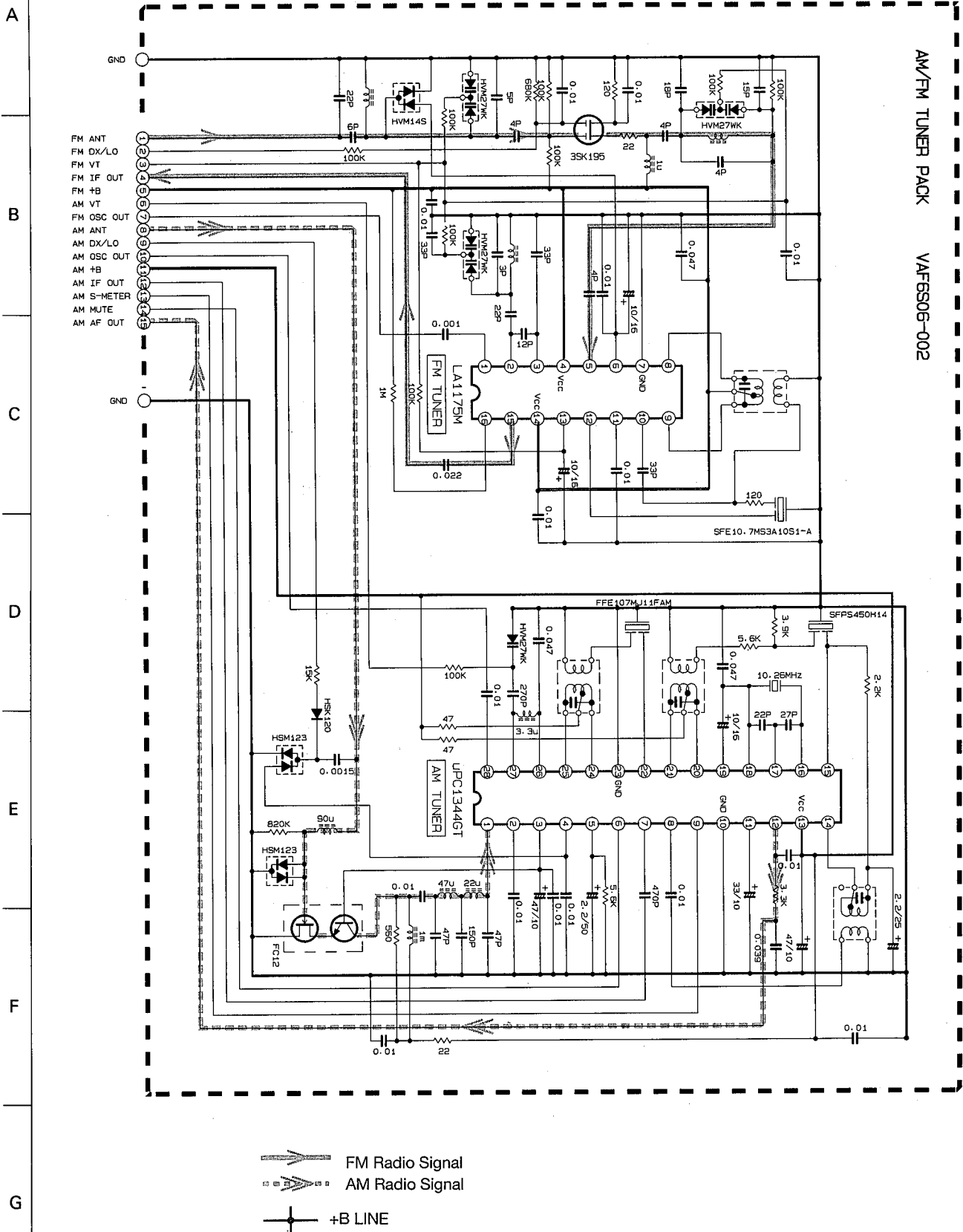
■ Power Amplifier/System Micro Computer Circuit : Drawing No. VDH3519-002AV





(No. 49212) 35

■ FM/AM Tuner Pack : Drawing No. VDH3489-002TW



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■ LCD/Operation Switch Circuit : Drawing No. VDH3519-002SW

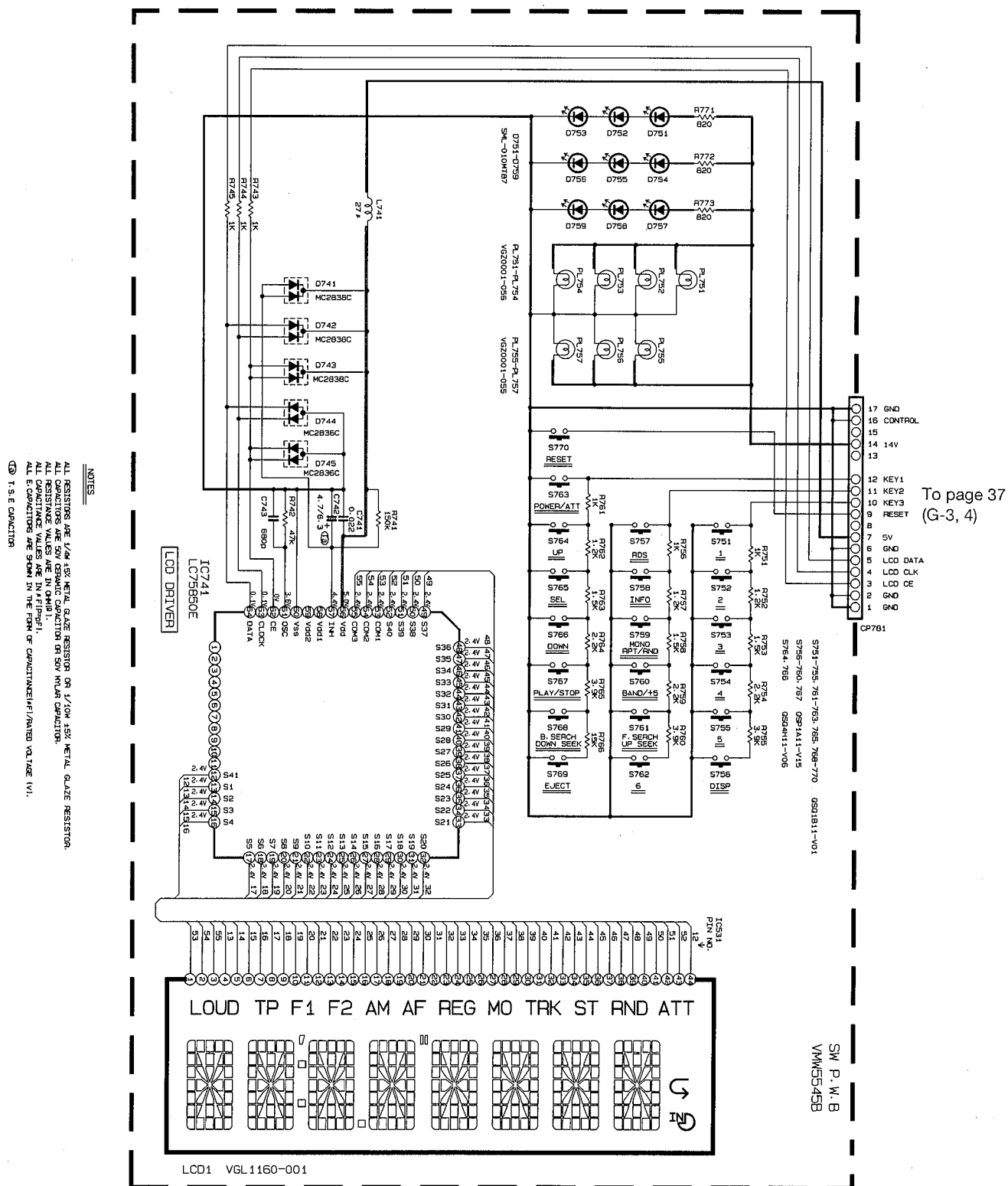


Fig. 11-4

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■ Tuner/DTS circuit : Drawing No. VDH3519-002TV

To page 35 (4~7-G)

A

B

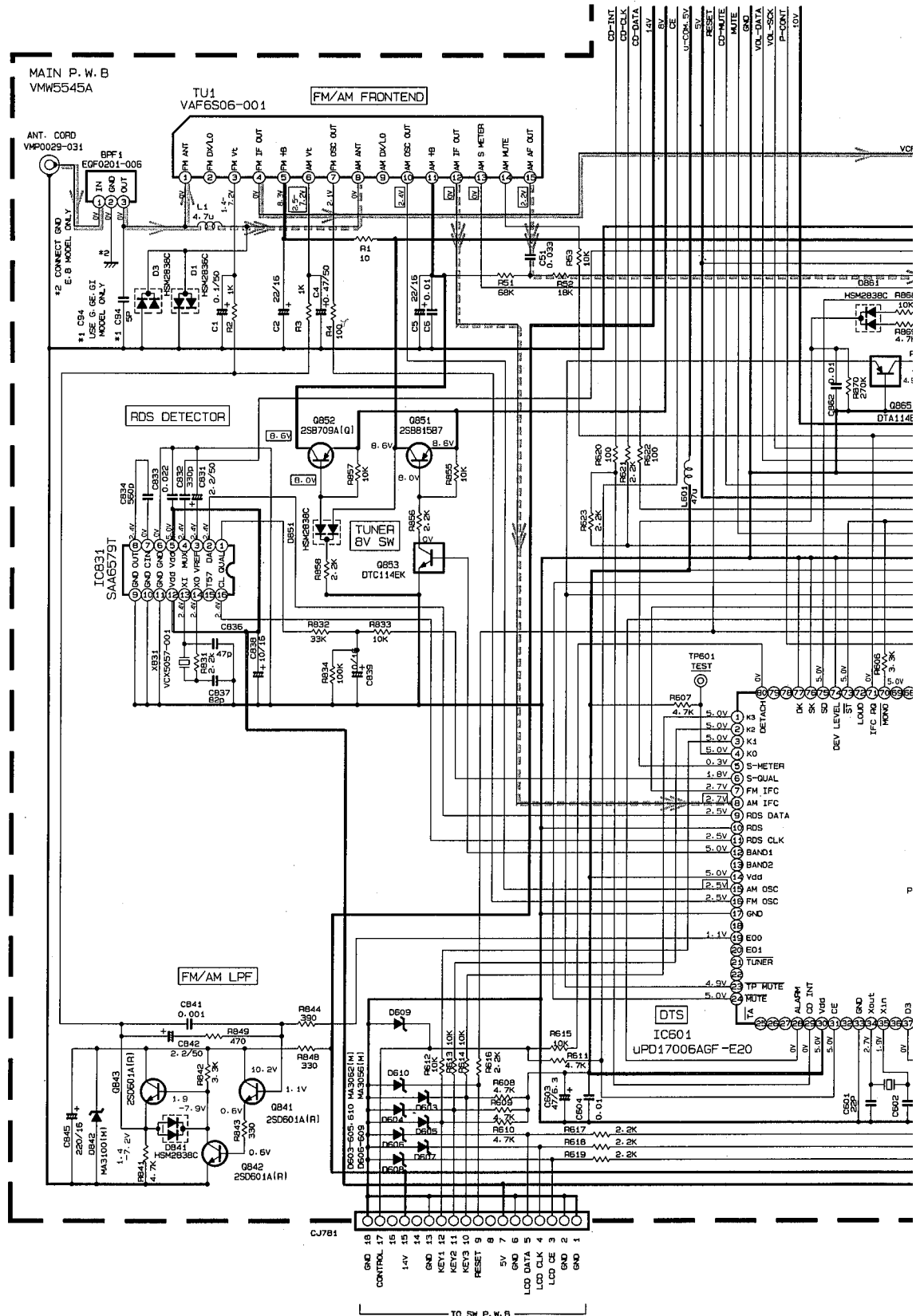
C

D

E

F

G



To page 36 (C, D-10)

Fig.11-5

6

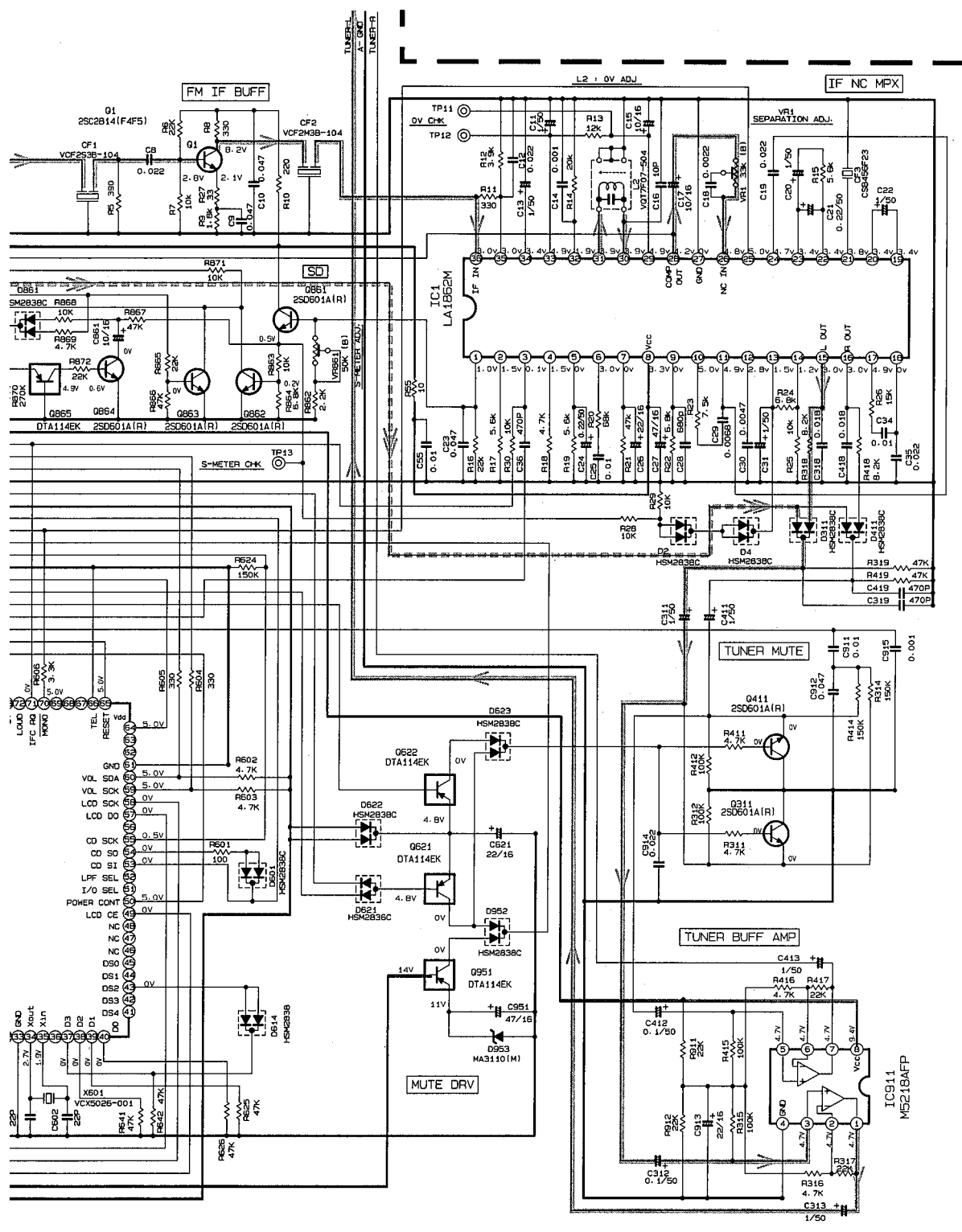
7

8

9

10

7-G)

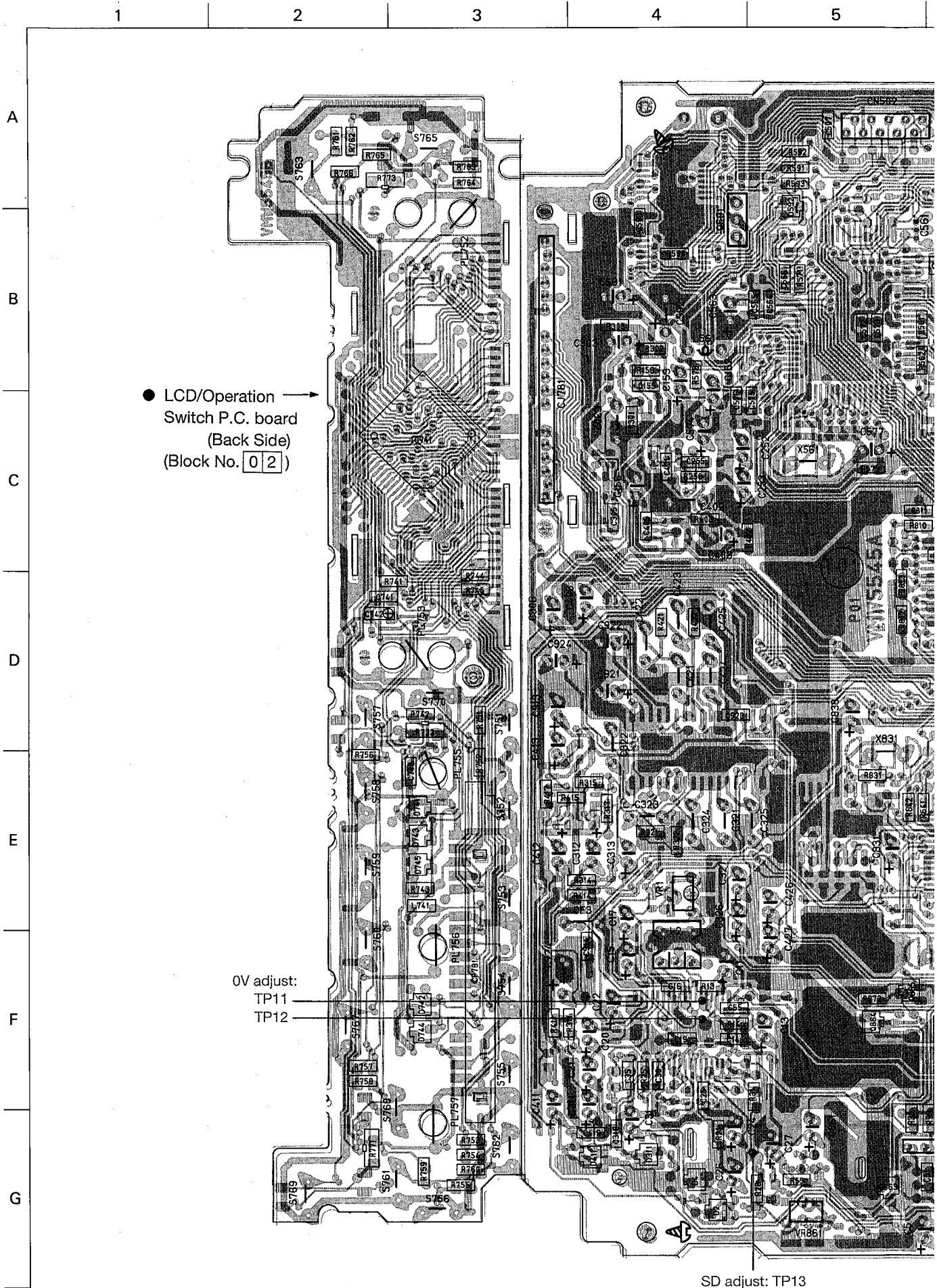


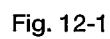
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAMETER WITHOUT INPUT SIGNAL.
CONDITION: — FM MODE; — AM MODE; — CD MODE
2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/4W 1% METAL GLAZE RESISTOR OR 1/10W 1% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITANCE VALUES ARE IN nF (pF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).
(C) 50V 1% MYLAR CAPACITOR OR 50V 1% THIN FILM CAPACITOR

— AM Radio Signal
- - - FM Radio Signal
+B LINE

12. Location of P. C. Board Parts





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

A

B

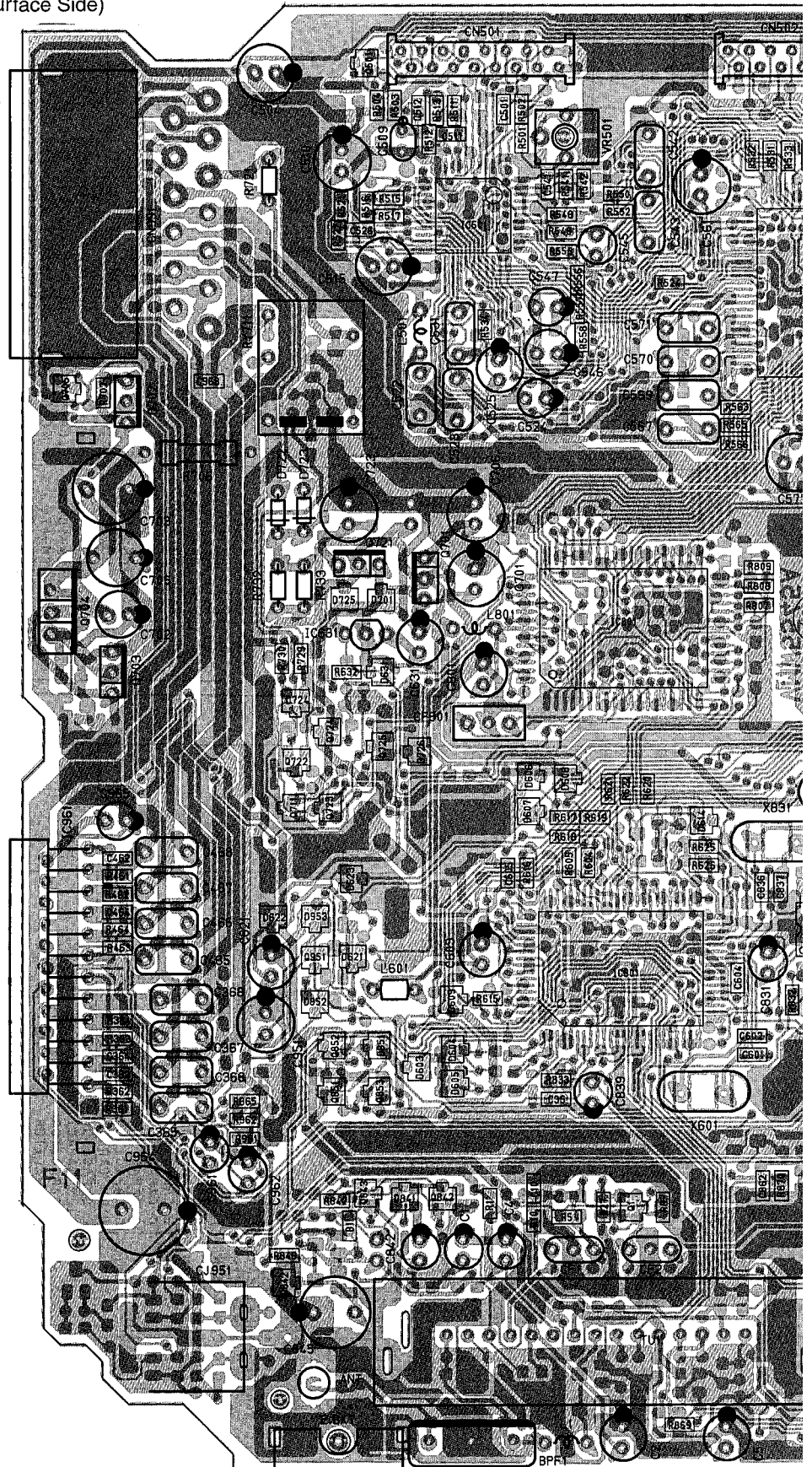
C

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E

F

G



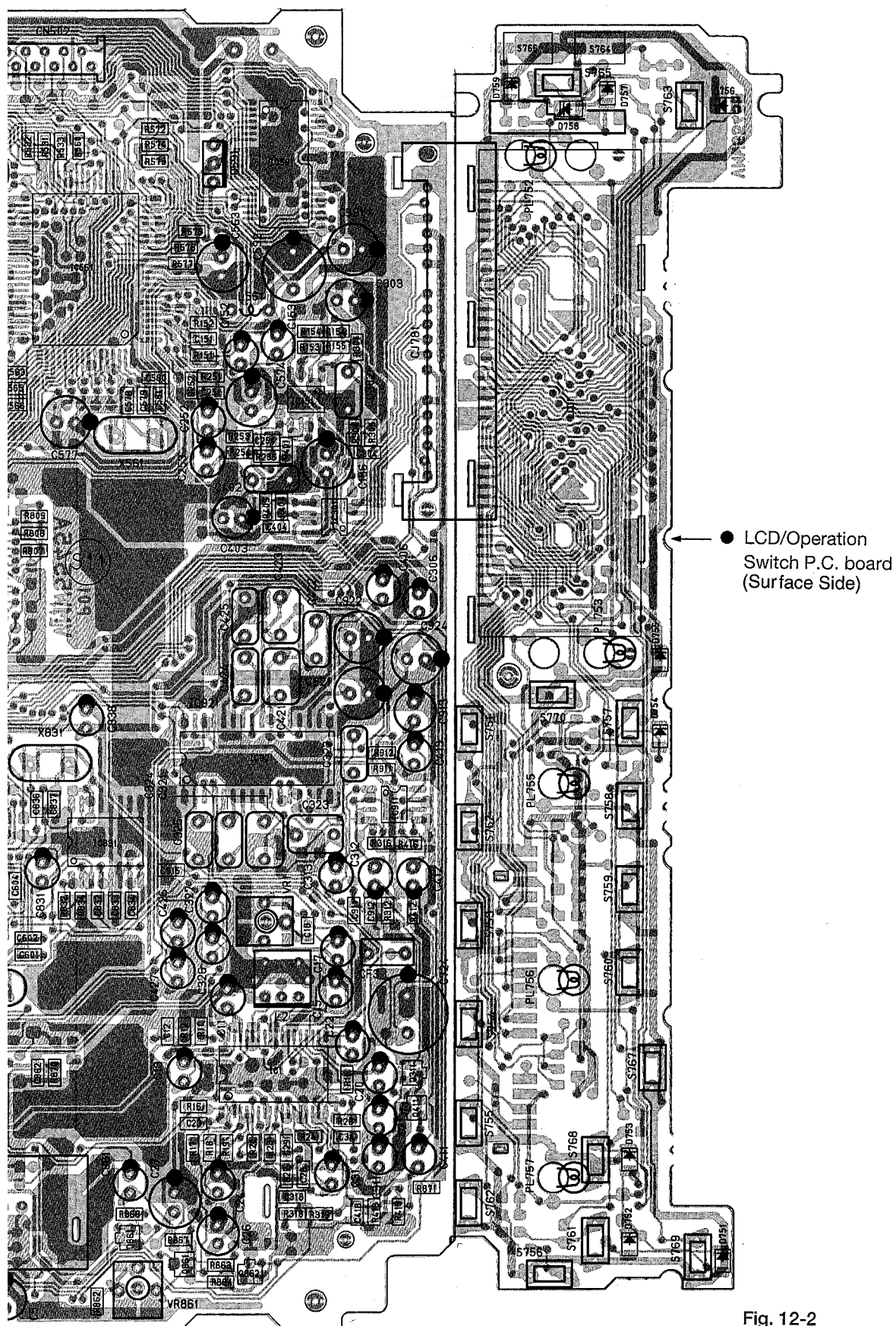


Fig. 12-2

13. Electrical Parts List

■ Main amplifier P.C. board

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
B 1	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
B 99	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
B 602	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
BPF 1	EQF0201-006	B.P. FILTER		
C 1	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 2	QEK41CH-226	E.CAPACITOR	.22MF 20% 16V	
C 4	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 5	QEK41CH-226	E.CAPACITOR	.22MF 20% 16V	
C 6	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 8	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 9	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 10	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 11	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 12	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 13	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 14	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 15	QEK41CH-106	E.CAPACITOR	10MF 20% 16V	
C 16	NCB21HK-100AY	C CAPACITOR	10PF +50:-10% 1	
C 17	QEK41CH-106	E.CAPACITOR	10MF 20% 16V	
C 18	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 19	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 20	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 21	QEK41HM-105	E.CAPACITOR	.22MF 20% 50V	
C 22	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 23	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 24	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
C 25	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 26	QEK41CH-226	E.CAPACITOR	22MF 20% 16V	
C 27	QEK41CH-476	E.CAPACITOR	47MF 20% 16V	
C 28	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C 29	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 30	NCB21HK-472AY	C CAPACITOR	4700PF 10% 50V	
C 31	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 34	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 35	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 36	NCB21HK-471AY	C CAPACITOR	470PF 5% 50V	
C 51	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 55	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 94	NCB21HK-580AY	C CAPACITOR	5.0PF +50:-10%	
C 151	NCB21HK-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	NCB21HK-221AY	C CAPACITOR	220PF 5% 50V	
C 155	NCB21HK-221AY	C CAPACITOR	220PF 5% 50V	
C 156	QEK41CH-1072N	E.CAPACITOR	100MF 20% 16V	
C 251	NCB21HK-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	NCB21HK-221AY	C CAPACITOR	220PF 5% 50V	
C 255	NCB21HK-221AY	C CAPACITOR	220PF 5% 50V	
C 301	NCB21HK-101AY	C CAPACITOR	100PF +50:-10%	
C 302	QFLA1HJ-332ZM	M.CAPACITOR	3300PF 5% 50V	
C 303	QEKFOJM-4762N	E.CAPACITOR	47MF 20% 6.3V	
C 304	NCB21HK-151AY	C CAPACITOR	150PF 5% 50V	
C 305	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 306	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 311	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 312	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 313	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 318	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C 319	NCB21HK-471AY	C CAPACITOR	470PF 5% 50V	
C 321	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 322	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
C 323	QFV71HJ-683ZM	FILM CAPACITOR	.068MF 5% 50V	
C 324	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
C 325	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
C 326	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 327	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 362	NCB21HK-471AY	C CAPACITOR	470PF +50:-10%	
C 364	NCB21HK-471AY	C CAPACITOR	470PF +50:-10%	
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	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 370	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 371	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 372	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 373	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 374	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 401	NCB21HK-101AY	C CAPACITOR	100PF +50:-10%	
C 402	QFLA1HJ-332ZM	M.CAPACITOR	3300PF 5% 50V	
C 403	QEKFOJM-4762N	E.CAPACITOR	47MF 20% 6.3V	
C 404	NCB21HK-151AY	C CAPACITOR	150PF 5% 50V	
C 405	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 406	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 411	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 412	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 413	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 418	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C 419	NCB21HK-471AY	C CAPACITOR	470PF 5% 50V	
C 421	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 422	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
C 423	QFV71HJ-683ZM	FILM CAPACITOR	.068MF 5% 50V	
C 424	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
C 425	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
C 426	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 427	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 462	NCB21HK-471AY	C CAPACITOR	470PF +50:-10%	
C 464	NCB21HK-471AY	C CAPACITOR	470PF +50:-10%	
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 469	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 470	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 471	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 472	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 473	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	
C 474	NCB21HK-101AY	C CAPACITOR	100PF 5% 50V	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 621	GEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 631	GEKFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 632	NCB21HK-104	E.CAPACITOR	.10MF 10% 25V	
	C 701	GEKFC1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 702	GEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 703	GET41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 704	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 705	GET41CM-107	E.CAPACITOR	100MF 20% 16V	
	C 706	GEKFC1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 722	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 723	GEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 724	VCE040J-228Z	E.CAPACITOR	.10MF 10% 25V	
	C 725	NCB21HK-104	E.CAPACITOR	.10MF 10% 25V	
	C 801	GEKFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 802	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 831	GER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 832	NCB21HK-331AY	C CAPACITOR	330PF +50%-10%	
	C 833	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 834	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
	C 836	NCB21HK-470AY	C CAPACITOR	47PF +50%-10% 1	
	C 837	NCB21HK-820AY	C CAPACITOR	82PF +50%-10% 1	
	C 838	GER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 839	GEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 841	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 842	GER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 845	GET41CM-227	E.CAPACITOR	22MF 20% 16V	
	C 861	GEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 862	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 911	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 912	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 913	GEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 914	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 915	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 921	GEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 922	GEKFC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 923	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 924	GEKFC1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 951	GEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 961	GEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 962	GEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 963	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 964	GET41CM-477	E.CAPACITOR	470MF 20% 16V	
	C 965	GEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 966	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 967	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	CF 1	VCF2S3B-104Z	C FILTER		
	CF 2	VCF2W3B-104	CERAMIC FILTER		
	CF 3	CSB456F23	CERA LOCK		
	CF801	EFO-GC41944	CERAMIC RESONAT		
	CJ781	VMC0311-001	CONNECTOR		
	CJ951	EMN00TV-201A	PIN JACK		
	CN501	VMC0314-S16	CONNECTOR		
	CN502	VMC0314-S10	CONNECTOR		
	CN991	VG20007-035	FEED THROUGH		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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	GEKFC1AM-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	GEK41VM-335B	TS.E.CAPACITOR	3.3MF 20% 35V	
	C 510	GEKFC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 511	NCT21CH-3R0AY	C CAPACITOR	3.0PF +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	GEKFC1AM-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	GEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 525	GEKFC1AM-336ZN	E.CAPACITOR	33MF 20% 10V	
	C 526	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
	C 531	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 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	
	C 545	QFVJ1HM-105ZM	NP.E.CAPACITOR	1.0MF 20% 50V	
	C 546	GEKFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 547	GEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 561	GEKFC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 563	GEKFC1AM-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	GEKFC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 575	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 576	NCT21CH-101AY	C CAPACITOR	100PF +50%-10%	
	C 577	GEKFC1AM-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	GEKFC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 592	QFV41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 593	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 601	NCT21CH-220AY	C CAPACITOR	22PF +50%-10% 1	
	C 602	NCT21CH-220AY	C CAPACITOR	22PF +50%-10% 1	
	C 603	GEKFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D 1	MSM2836C	DIODE		
D 2	MSM2838C	DIODE		
D 3	MSM2838C	DIODE		
D 4	MSM2838C	DIODE		
D 311	MSM2838C	DIODE		
D 411	MSM2838C	DIODE		
D 591	DSK10C-E	DIODE		
D 592	MSM2838C	DIODE		
D 601	MSM2838C	DIODE		
D 603	MA3042(M)	ZENER DIODE		
D 604	MA3062(M)	ZENER DIODE		
D 605	MA3062(M)	ZENER DIODE		
D 606	MA3056	ZENER DIODE		
D 607	MA3056	ZENER DIODE		
D 608	MA3056	ZENER DIODE		
D 609	MA3056	ZENER DIODE		
D 610	MA3062(M)	ZENER DIODE		
D 614	MSM2838C	DIODE		
D 621	MSM2836C	DIODE		
D 622	MSM2838C	DIODE		
D 623	MSM2838C	DIODE		
D 631	MSM2836C	DIODE		
D 701	MA3100(M)	ZENER DIODE		
D 702	MA3091(M)	ZENER DIODE		
D 711	MSM2838C	DIODE		
D 721	MSM2836C	DIODE		
D 722	DSK10C-E	DIODE		
D 723	DSK10C-E	DIODE		
D 724	MSM2838C	DIODE		
D 725	MA3062(M)	ZENER DIODE		
D 726	MSM2838C	DIODE		
D 802	MSM2836C	DIODE		
D 841	MSM2838C	DIODE		
D 842	MA3100(M)	ZENER DIODE		
D 851	MSM2838C	DIODE		
D 861	MSM2838C	DIODE		
D 931	MSM2836C	DIODE		
D 932	MSM2838C	DIODE		
D 933	MA3110(M)	ZENER DIODE		
D 961	MSM2836C	DIODE		
IC 1	LA1862M	IC		
IC151	NJM4565M	IC		
IC301	NJM4565M	IC		
IC501	TA8191F	IC		
IC561	IC9284AF	IC		
IC591	BA6395FP-T1	IC		
IC601	UPD17006AGF-E20	IC		
IC631	PST5296	IC		
IC801	UPD751126F-E70	IC		
IC831	SAA6579T	IC		
IC911	NJM4565M	IC		
IC921	TEA6320T	IC		
IC961	HA13152	IC		
L 1	VQP0015-4R7Z	INDUCTOR		
L 2	VGT7F07-504	IFT		

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
L 501	VQP0015-4R7Z	INDUCTOR		
L 561	VQP0015-4R7Z	INDUCTOR		
L 601	VQP0018-470	INDUCTOR		
L 801	VQP0015-470Z	INDUCTOR		
Q 1	2SC2814(F4F5)HL	TRANSISTOR		
Q 311	2SC2412KK1	TRANSISTOR		
Q 352	2SC2412KK1	TRANSISTOR		
Q 411	2SC2412KK1	TRANSISTOR		
Q 452	2SC2412KK1	TRANSISTOR		
Q 501	2SA1037K(R)	TRANSISTOR		
Q 561	2SA1037K(R)	TRANSISTOR		
Q 591	2SB1322(RS)	TRANSISTOR		
Q 621	DTA114EK	TRANSISTOR		
Q 622	DTA114EK	TRANSISTOR		
Q 701	2SD1994(R,S)	TRANSISTOR		
Q 702	2SB1322(RS)	TRANSISTOR		
Q 703	2SD1994(R,S)	TRANSISTOR		
Q 704	2SB1274(R,S)	TRANSISTOR		
Q 705	DTA114EK	TRANSISTOR		
Q 711	DTA114EK	TRANSISTOR		
Q 712	2SC2412KK1	TRANSISTOR		
Q 721	2SD1994(R,S)	TRANSISTOR		
Q 722	2SA1037K(R)	TRANSISTOR		
Q 723	2SC2412KK1	TRANSISTOR		
Q 724	2SA1037K(R)	TRANSISTOR		
Q 725	DTA114EK	TRANSISTOR		
Q 841	2SC2412KK1	TRANSISTOR		
Q 842	2SC2412KK1	TRANSISTOR		
Q 843	2SC2412KK1	TRANSISTOR		
Q 851	2SB815B7-I-HL	TRANSISTOR		
Q 852	2SA1037K(R)	TRANSISTOR		
Q 861	DTA114EK	TRANSISTOR		
Q 862	2SC2412KK1	TRANSISTOR		
Q 863	2SC2412KK1	TRANSISTOR		
Q 864	2SC2412KK1	TRANSISTOR		
Q 865	DTA114EK	TRANSISTOR		
Q 951	DTA114EK	TRANSISTOR		
Q 961	DTA114EK	TRANSISTOR		
R 1	NRS402J-100NY	MG RESISTOR	10 5% 1/10W	
R 2	NRS402J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 3	NRS402J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 4	NRS402J-101NY	MG RESISTOR	100 5% 1/10W	
R 5	NRS402J-391NY	MG RESISTOR	390 5% 1/10W	
R 6	NRS402J-223NY	MG RESISTOR	22K 5% 1/10W	
R 7	NRS402J-103NY	MG RESISTOR	10K 5% 1/10W	
R 8	NRS402J-331NY	MG RESISTOR	330 5% 1/10W	
R 9	NRS402J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 10	NRS402J-221NY	MG RESISTOR	220 5% 1/10W	
R 11	NRS402J-331NY	MG RESISTOR	330 5% 1/10W	
R 12	NRS402J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 13	NRS402J-123NY	MG RESISTOR	12K 5% 1/10W	
R 14	NRS402J-203NY	MG RESISTOR	20K 5% 1/10W	
R 15	NRS402J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 16	NRS402J-223NY	MG RESISTOR	22K 5% 1/10W	

BLOCK NO. 04

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 368	NRSA02J-282NYM	MG RESISTOR	2.2 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 411	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 412	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 414	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R 415	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 416	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 417	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 418	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 419	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 421	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 422	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 452	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 453	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 455	NRSA02J-472NY	MG RESISTOR	4.7K 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-282NYM	MG RESISTOR	2.2 5% 1/10W	
R 466	NRSA02J-282NYM	MG RESISTOR	2.2 5% 1/10W	
R 467	NRSA02J-282NYM	MG RESISTOR	2.2 5% 1/10W	
R 468	NRSA02J-282NYM	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	
R 547	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 04

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 17	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 18	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 19	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 20	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R 21	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 22	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 23	NRSA02J-752NY	MG RESISTOR	7.5K 5% 1/10W	
R 24	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 25	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 27	NRSA02J-330NY	MG RESISTOR	33 5% 1/10W	
R 28	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 31	NRSA02J-090NY	MG RESISTOR	5% 1/10W	
R 311	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R 32	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 33	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 35	NRSA02J-103NY	MG RESISTOR	10 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 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 311	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 312	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 314	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R 315	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 316	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 317	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 318	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 319	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 321	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 322	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 332	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 333	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 335	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 361	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 362	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 363	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 364	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 365	NRSA02J-282NYM	MG RESISTOR	2.2 5% 1/10W	
R 366	NRSA02J-282NYM	MG RESISTOR	2.2 5% 1/10W	
R 367	NRSA02J-282NYM	MG RESISTOR	2.2 5% 1/10W	

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 625	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 626	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 631	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 632	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 642	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 702	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 703	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 704	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 705	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 706	GRX019J-R47A	M.F. RESISTOR	5% 1/1W	
	R 711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 712	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 721	GRD141J-102	CARBON RESISTOR	1.0K 5% 1/4W	
	R 724	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 725	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 726	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 727	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 728	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 729	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 730	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 731	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 732	GRD141J-350S	CARBON RESISTOR	35 5% 1/4W	
	R 801	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 802	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 803	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 804	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 806	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 807	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 808	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 809	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 810	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 811	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 812	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 813	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 815	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 831	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 832	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 833	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 834	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 841	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 842	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 843	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 844	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	R 848	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 849	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 855	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 856	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 857	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 858	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 862	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 863	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 864	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
	R 865	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	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-OR0NY	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-OR0NY	MG RESISTOR	5% 1/10W	
	R 601	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 602	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 603	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 604	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 605	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 606	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 607	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 608	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 609	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 610	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 611	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 612	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 613	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 614	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 615	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 616	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 617	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 618	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 619	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 620	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 621	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 622	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 623	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 624	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	

BLOCK NO. 04

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 866	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 867	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 868	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 869	NRS02J-823NY	MG RESISTOR	82K 5% 1/10W	
R 870	NRS02J-274NY	MG RESISTOR	270K 5% 1/10W	
R 871	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 872	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 911	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 912	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 961	NRS02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 962	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 965	NRS02J-471NY	MG RESISTOR	470 5% 1/10W	
RY711	VSK1D12-118	RELAY		
TU 1	VAF6S06-002	FRONT END		
VR 1	QVPA601-333	V-RESISTOR		
VR501	QV23523-104	V-RESISTOR		
VR861	QVPA601-503A	V-RESISTOR		
X 561	VCX5016-934Z	CRYSTAL		
X 601	VCX5026-001Z	CRYSTAL		
X 831	VCX5057-001	CRYSTAL		

■ LCD/Operation switch P.C. board

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 741	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 742	NEF20JM-475RY	TS-E CAPACITOR	4.7MF 20% 6.3V	
C 743	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
CP781	VMC0312-001	CONNECTOR		
D 741	HSM2838C	DIODE		
D 742	HSM2838C	DIODE		
D 743	HSM2838C	DIODE		
D 744	HSM2836C	DIODE		
D 745	HSM2836C	DIODE		
D 751	SML-010MTT87	LED		
D 752	SML-010MTT87	LED		
D 753	SML-010MTT87	LED		
D 754	SML-010MTT87	LED		
D 755	SML-010MTT87	LED		
D 756	SML-010MTT87	LED		
D 757	SML-010MTT87	LED		
D 758	SML-010MTT87	LED		
D 759	SML-010MTT87	LED		
IC741	LC75850E	IC		
L 741	VGP1003-270Y	INDUCTOR		
PL752	VGZ0001-056	LAMP	LCD	
PL753	VGZ0001-056	LAMP	LCD	
PL755	VGZ0001-055	LAMP	SW	
PL756	VGZ0001-055	LAMP	SW	
PL757	VGZ0001-055	LAMP	SW	
R 741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R 742	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 743	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 744	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 745	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 751	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 752	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 753	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 755	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 756	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 757	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 758	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 759	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 760	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 761	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 762	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 763	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 764	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 765	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 766	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 771	NRS181J-821NY	MG RESISTOR	820 5% 1/8W	
R 772	NRS181J-821NY	MG RESISTOR	820 5% 1/8W	
R 773	NRS181J-821NY	MG RESISTOR	820 5% 1/8W	
S 751	QSQ1B11-V01Z	TACT SWITCH	M1	
S 752	QSQ1B11-V01Z	TACT SWITCH	M2	
S 753	QSQ1B11-V01Z	TACT SWITCH	M3	
S 754	QSQ1B11-V01Z	TACT SWITCH	M4	
S 755	QSQ1B11-V01Z	TACT SWITCH	M5	
S 756	QSP1A11-V15	TACT SWITCH	DISP	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
S 757	QSP1A11-V15	TACT SWITCH	RDS	
S 758	QSP1A11-V15	TACT SWITCH	INFO	
S 759	QSP1A11-V15	TACT SWITCH	MONO/RPT.RND	
S 760	QSP1A11-V15	TACT SWITCH	BAND/+5	
S 761	QSQ1B11-V01Z	TACT SWITCH	U-SEEK/F.SKIP	
S 762	QSQ1B11-V01Z	TACT SWITCH	M6	
S 763	QSQ1B11-V01Z	TACT SWITCH	POWER/ATT	
S 764	QSQ4H11-V06Y	TACT SWITCH	VOL UP	
S 765	QSQ1B11-V01Z	TACT SWITCH	SELECT	
S 766	QSQ4H11-V06Y	TACT SWITCH	VOL DOWN	
S 767	QSP1A11-V15	TACT SWITCH	PLAY/STOP	
S 768	QSQ1B11-V01Z	TACT SWITCH	D-SEEK/B.SKIP	
S 769	QSQ1B11-V01Z	TACT SWITCH	EJECT	
S 770	QSQ1B11-V01Z	TACT SWITCH	RESET	

14. Illustration of Packing and Parts List

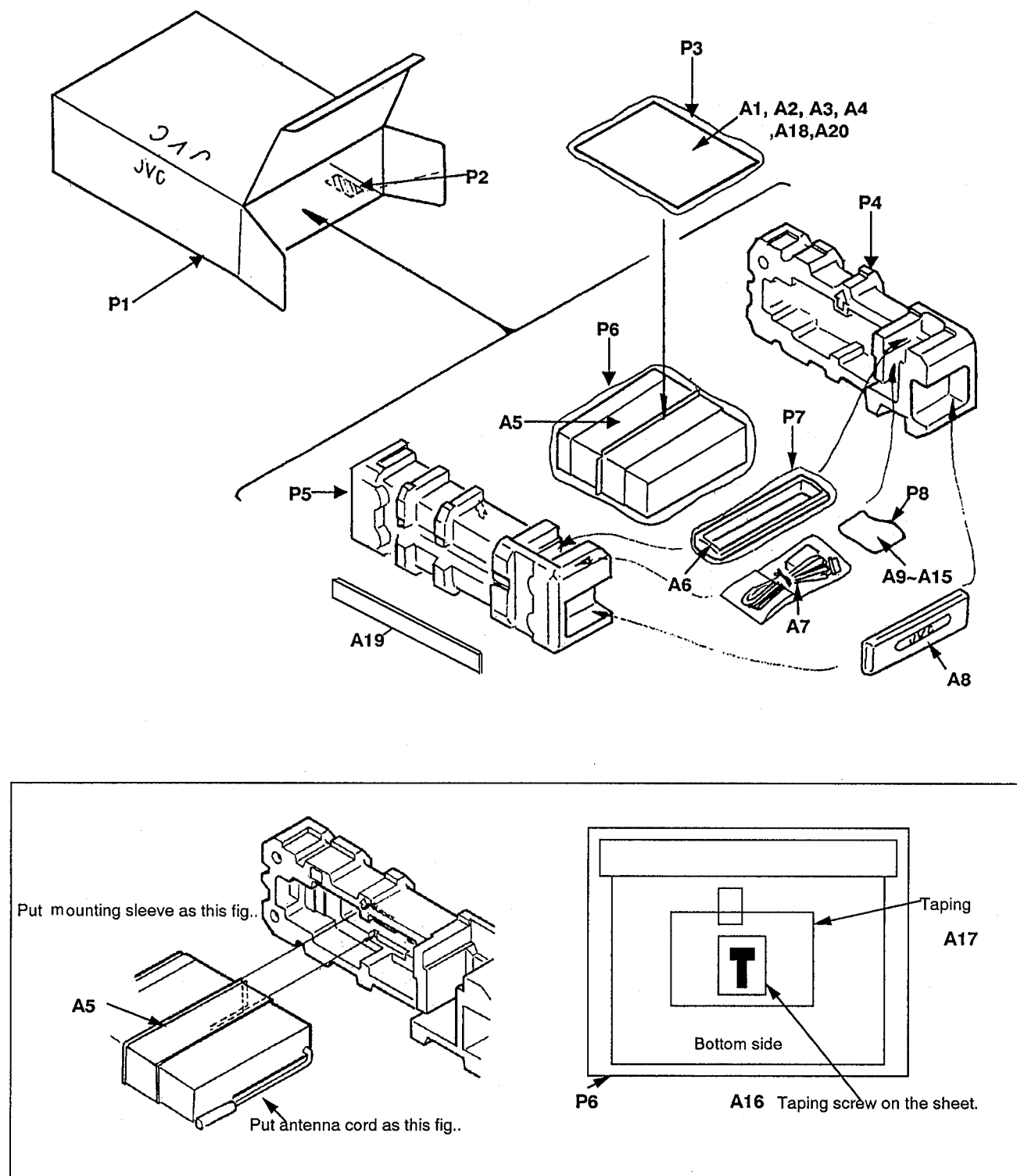


Fig. 14-1

■ Packing parts list

BLOCK NO. **M3MM**

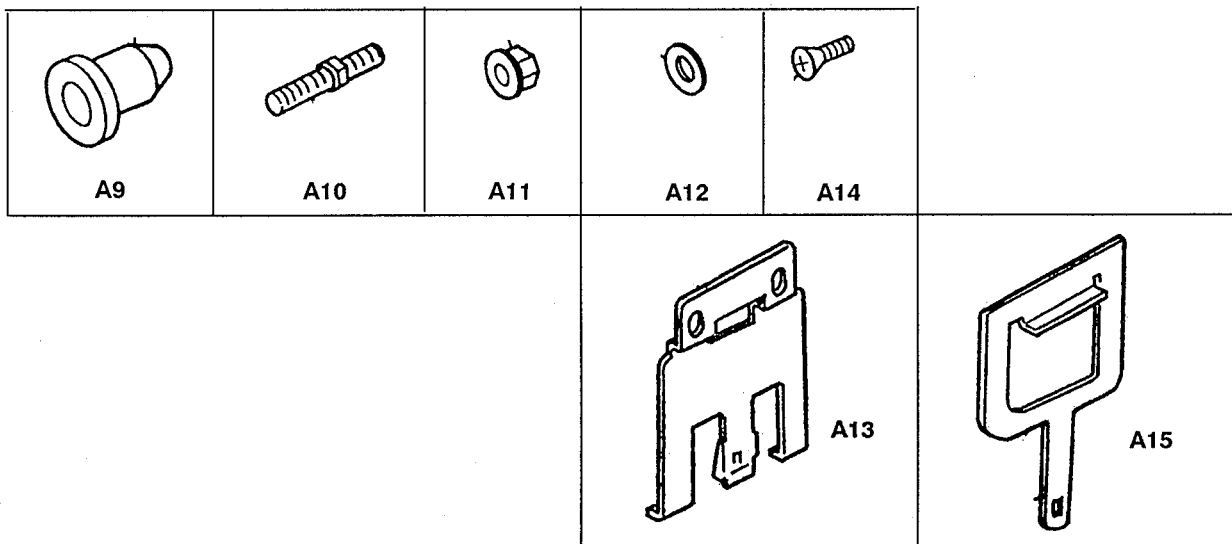
△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC3519-003	CARTON		1		
	P 2	VND3046-005	SIRIAL TICKET		1	G	
		VND3046-001	SERIAL TICKET		1	GI,GE	
		VND3046-003	SERIAL TICKET		1	E	
		VND3046-004	SERIAL TICKET		1	B	
	P 3	QPGB017-02404	POLY BAG	INSTRUCTIONS	1		
	P 4	VPH1652-001	CUSHION(L)		1		
	P 5	VPH1652-002	CUSHION(R)		1		
	P 6	VPE3005-066	POLY BAG	FOR SET	1		
	P 7	QPGA010-03003	POLY BAG	TRIM PLATE	1		
	P 8	QPGA008-01205	POLY BAG	SCREW KIT	1		

■ Accessories

BLOCK NO. **M4MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN3519-211	INSTRUCTIONS		1	B,E,G,GI,GE	
		VNN3519-471	INSTRUCTIONS		1	GI	
		VNN3519-451	INSTRUCTIONS		1	E	
		VNN3519-481	INSTRUCTIONS		1	E	
	A 2	VNC2400-090	CAUTION SHEET		1		
	A 3	BT-20066A	WARRANTY CARD		1	B	
	A 4	BT20060	WARRANTY CARD		1	B	
		BT-20135	WARRANTY CARD		1	G	
	A 5	VKL3732-019	MOUNTING SLEEVE		1		
	A 6	FSJD2004-002	TRIM PLATE		1		
	A 7	VMC0014-149	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		
	A 18	VND3050-001	IDENTITY CARD		1		
	A 19	VKL5460-001	STAY		1		
	A 20	VNC2400-098	CAUTION SHEET		1		
	KIT 1	KSRT80RK-SCREW1	SCREW PARTS KIT	P8,A9-A15	1		

■ Breakdown of screw 1 kit (KIT 1)



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