

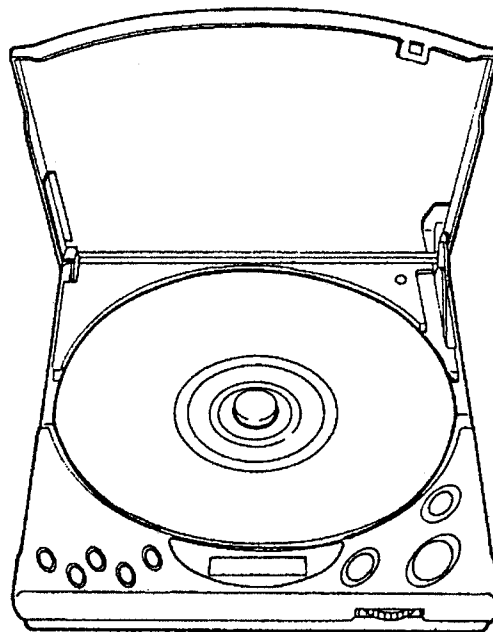
JVC

Revision

SERVICE MANUAL

PORTABLE CD PLAYER

XL-P80 B/C/E/G/J/EN/U

**COMPU LINK**
COMPACT
disc
DIGITAL AUDIO
Area Suffix

B.....	U.K.
C.....	Canada
E.....	Continental Europe
G.....	Germany
J.....	U.S.A.
EN.....	Northern Europe
U.....	Other Area

With change of substantial design of the XL-P80B/C/E/G/J/EN/U, this edition is issued as a revision of the Service Manual (No. 1874) for this model.

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 日本ビクター株式会社
 サービス部 部品管理課

No. 1874

August 1993

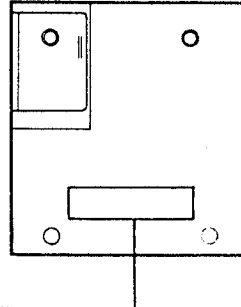
1. Safety Precautions

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the bottom cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

XL – P80 C/J



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
MANUFACTURED

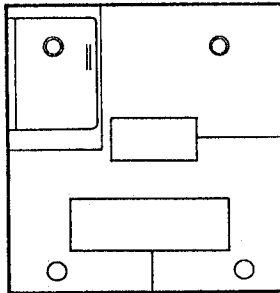
*1

US JVC CORP.
41 SLATER DRIVE
ELMWOOD PARK,
N.J. 07407
MANUFACTURED
AT *2
MADE IN JAPAN

Notes:

- *1 The date of manufacture.
- *2 The ID code of manufacturing plant.

XL – P80 B/E/G/GI/EN



**CLASS 1
LASER PRODUCT**

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

ADVARSEL-Der vil udstråles osynlig laserbestråling når apparatet åbnes og aflåsningmekanismen frigøres. UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.

DANGER-Invisible laser radiation when open and interlock defeated
AVOID DIRECT EXPOSURE TO BEAM.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



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



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

IMPORTANT (In the United Kingdom)**Mains Supply (AC 240 V~, 50 Hz only)**

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

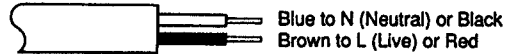
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

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

IMPORTANT

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

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



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

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

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

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

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

CAUTION:

CHARGE ONLY PROVIDED NI-Cd RECHARGEABLE BATTERIES, TYPE BN-R121. OTHER TYPES OF BATTERIES MAY BURST CAUSING PERSONAL INJURY AND DAMAGE.

1. AC adaptor

Be sure to unplug the AC adaptor from the wall AC outlet when not in use.

2. Do not expose the unit(s) to drips or splashes of water.

If water gets inside the unit, unplug the AC adaptor from the wall AC outlet and consult your dealer.

3. Do not touch the interior parts.

2. Specifications

Portable CD player XL-P80

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup (semiconductor laser)
Pickup system	: 3 beam laser
Number of channels	: 2 channels (stereo)
Frequency response	: 20 Hz to 20,000 Hz
Wow & flutter	: Unmeasurable
Output	: Line out (3.5 mm dia. stereo x 1) 800 mV/10 kohms Headphone (3.5 mm dia. stereo x 1) 5 mW at 5 % THD/20 ohms, matching impedance (16 ohms to 1 Kohms)
Duration of battery	: Approx. 2 hours when using rechargeable battery (BN-R121) charged for 2 hours, Approx. 5 hours when using an alkaline battery (AA-Panasonic)
Power requirements	: DC 3 V (Ordinary battery x 2, size AA) DC 2.4 V (Rechargeable battery (BN-R121) x 2) DC IN 4-5 V
Dimensions (WxHxD)	: 130 x 17 x 148.5 mm (5-1/8" x 11/16" x 5-15/16") (Excluding buttons and controls)
Weight	: Approx. 389 g (0.86 lbs) (with rechargeable batteries)
Accessories provided	: AC adaptor (AA-R401J) x 1 Rechargeable battery (BN-R121) x 2 Headphone x 1 Signal cord x 1 Car audio cassette adapter (CA-RC1)

AC adaptor (AA - R401J or AA - R40J)

Input power source	: Ac 120V, 60Hz	AA - R401J
Output voltage	: DC 4V, 800mA	
Input power source,	: AC120V, 60Hz	AA - R40J
Output voltage	: DC4V, 1A	

AC adaptor (AA - R401E/B)

Input power source	: AC 240V, 50Hz (B version)
	: AC230V, 50Hz (E version)
Output voltage	: DC4V, 800mA

AC adaptor (AA - R401U)

Input power source	: AC120V/230V, 50/60 Hz
Output voltage	: DC4V, 800mA

Rechargeable battery BN-R121

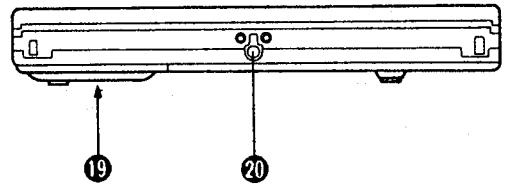
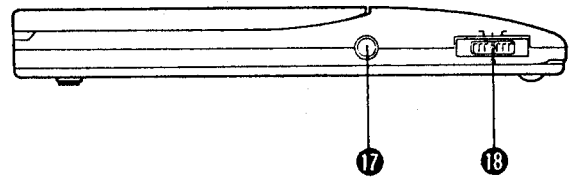
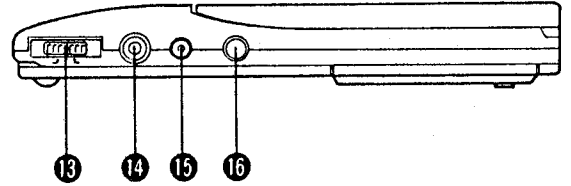
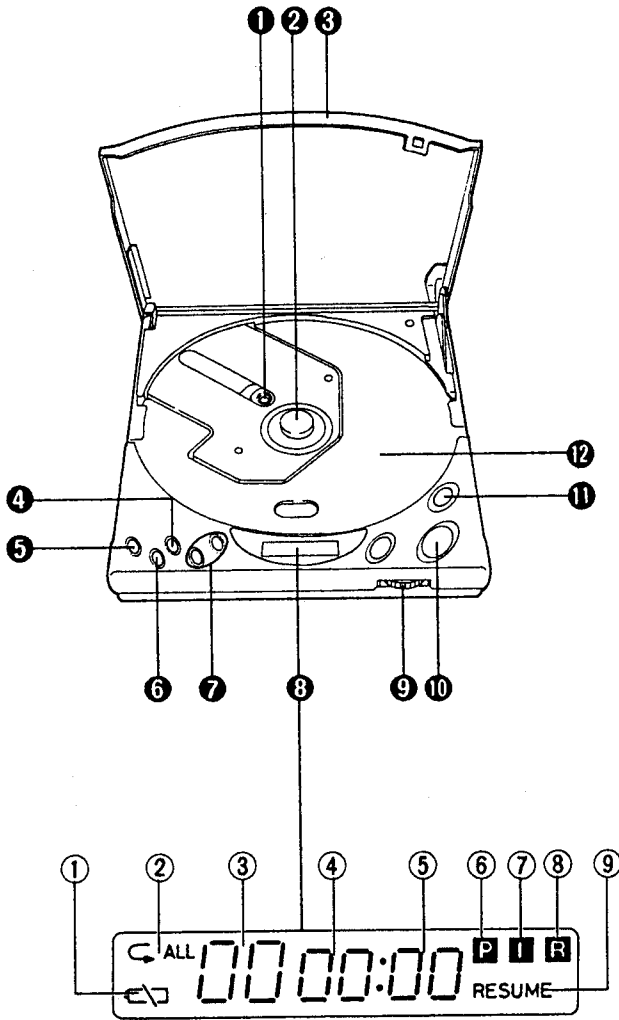
Type	: Ni-Cd rechargeable battery
Battery life	: Repeat recharging approx. 300 times
Output voltage	: DC 1.2 V

Design and specifications are subject to change without notice.

3. Instructions (Extract)

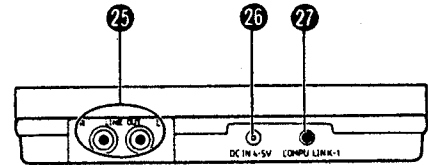
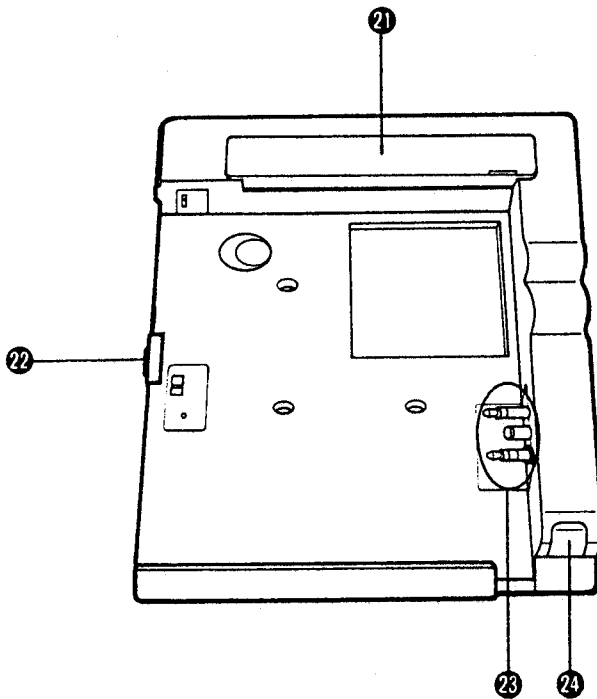
NAMES OF PARTS AND THEIR FUNCTIONS


• Main unit



- ① Lens
- ② Disc table
- ③ Lid
- ④ REPEAT button
- ⑤ MEMORY button
- ⑥ INTRO/RANDOM button
- ⑦ SEARCH (◀▶) button
- ⑧ Display window (The display is back lit when power is supplied from the DC IN jack.)
 - ① Battery indicator (🔋)
 - ② Repeat play indicator (↺ ALL)
 - ③ Track (tune) number display
 - ④ Time (minute)/Program order number display
 - ⑤ Time (second) display
 - ⑥ Program mode (P) indicator
 - ⑦ Intro scan (I) indicator
 - ⑧ Random play (R) indicator
 - ⑨ RESUME indicator
- ⑨ VOLUME control
- ⑩ PLAY/PAUSE (▶⏸) button
- ⑪ OPEN (▲) button
- ⑫ STOP/CLEAR (■) button
- ⑬ HYPER-BASS switch
- ⑭ PHONES (Ⓞ) jack
- ⑮ DC IN (⚡) jack
- ⑯ LINE OUT jack
- ⑰ COMPU LINK-1 jack
- ⑱ RESUME/HOLD switch
- ⑲ Rechargeable battery compartment cover
- ⑳ Installation hole for car insulator (optional)

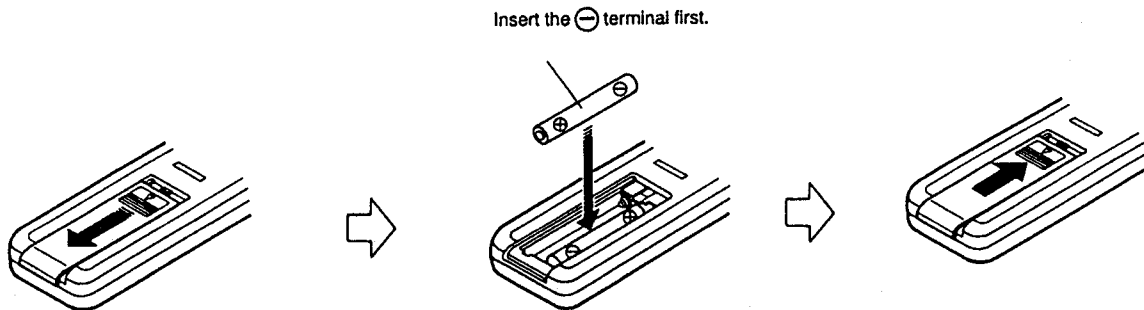
• Home Audio Station unit (optional)



- ① Rechargeable battery compartment (for the BN-R121)
- ② Main unit LOCK/RELEASE knob
- ③ Terminals
- ④ REMOTE SENSOR section
- ⑤ LINE OUT terminals
- ⑥ DC IN 4 - 5 V () jack
- ⑦ COMPU LINK-1 terminals

REMOTE CONTROL UNIT (optional)

- Loading batteries into the remote control unit
Insert two "AAA" size batteries.

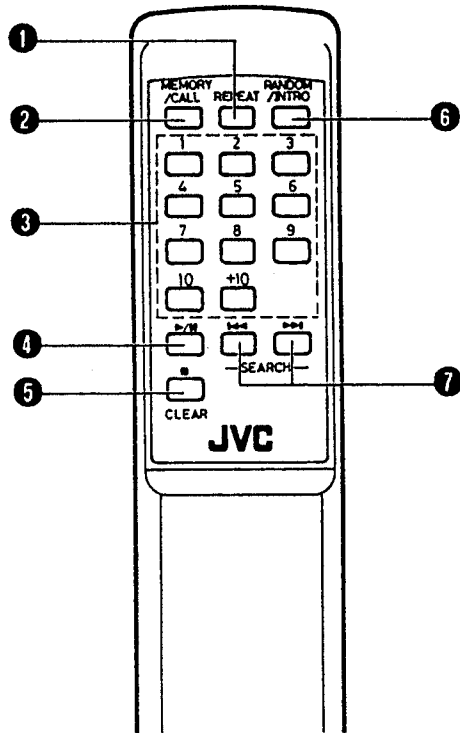


- Battery replacement
When the remote control operation becomes unstable or the operable distance becomes shorter, replace the batteries with new ones.

Using the remote control unit

When using the remote control unit, point it at the REMOTE SENSOR section and press the buttons gently and firmly. If the distance is within about 7 m (approx. 23 ft), remote control operation is possible. However, since the remote control range decreases when the unit is used at angle, used from in front of the REMOTE SENSOR section as much as possible.
Do not expose the remote sensor section to strong light (direct sunlight or artificial lighting) and do not place any obstacles between the remote sensor section and the remote control unit.

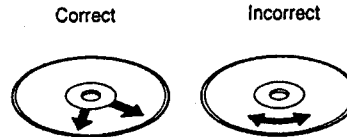
Names of parts and their functions



- ① REPEAT button
- ② MEMORY/CALL button
- ③ Track (tune) number buttons (No. 1 - No. 10, +10)
- ④ Play/pause button (▶/⏸)
- ⑤ Stop/clear button (■/CLEAR)
- ⑥ RANDOM/INTRO button
- ⑦ SEARCH button (◀◀, ▶▶)

Note:
It is impossible to switch the power of the CD player on and off using the remote control unit.

- 1. Usable compact discs**
Use a compact disc with the mark as shown.



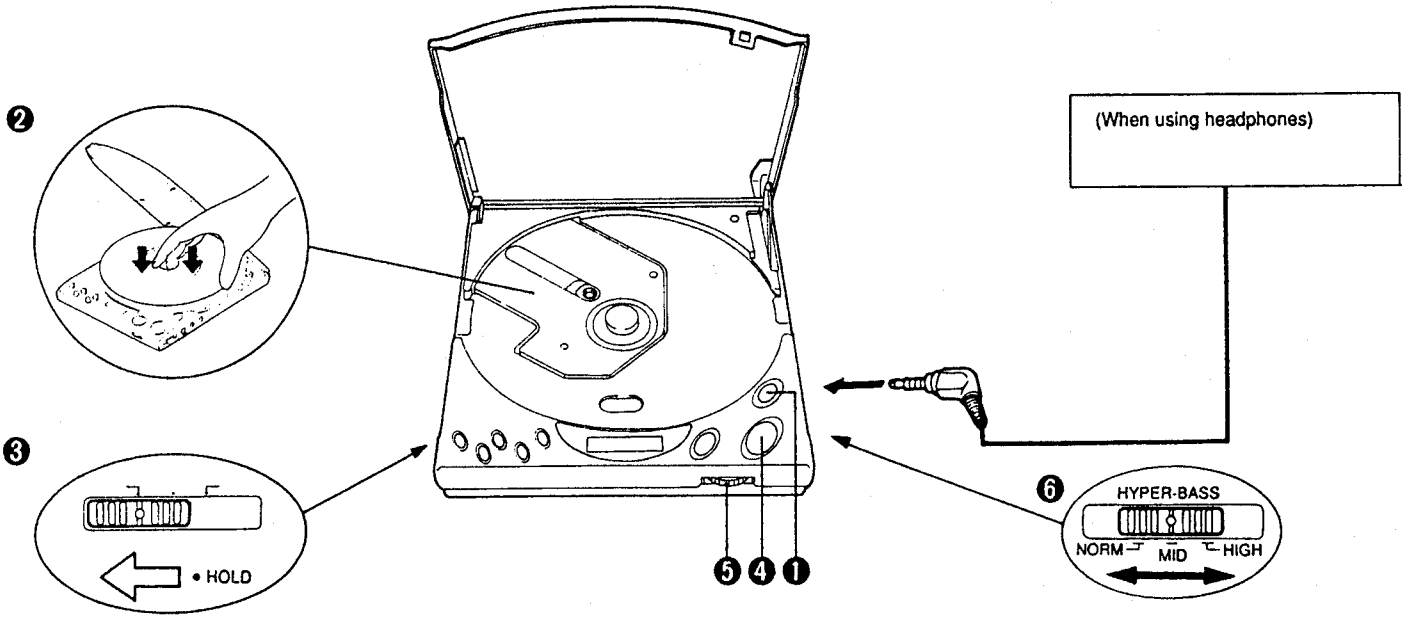
- 2. Notes on handling discs**
- Do not touch the rainbow color reflecting recorded surface.
 - Do not stick paper or write anything on the label surface.
 - Do not bend the disc.
- 3. Storage**
- For storage, be sure to return a disc to its case.
 - Do not expose discs to direct sunlight, high temperature such as from a heater, high humidity, and dust.
- 4. Cleaning a disc**
Before operation, wipe off dust, dirt and fingerprints on the disc surface with a soft cloth. The disc should be cleaned by wiping from the inside to the edge, not circularly.

- Never use thinner, benzine, analog record (LP) cleaner or antistatic spray.

8-cm (3-3/16") "CD singles"

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

PLAYING COMPACT DISCS



To play all tunes

- 1 Press to open the lid; open further by hand.
- 2 Load a disc with the label facing up. Press the section shown by an arrow until you hear the mechanism engage.
 - It is possible to play CDs with the lid open.
- 3 Set the HOLD switch to the OFF (release) position
- 4 Press the PLAY/PAUSE (▶||) button to start play. "cd" is displayed and, after a few seconds, the track (tune) number (starting from 1) and the playing time are displayed.
- 5 Adjust the volume.
- 6 Set the HYPER-BASS switch as required.

- When all tunes have been played, the unit stops automatically.
- **HOLD switch**
If the HOLD switch is set to on, the unit is locked to the current mode and will not change to another mode, even if another button is pressed. However, the volume control and HYPER-BASS switches can be used. (When the wireless remote control (optional) is used, the CD player can be operated even when the HOLD switch is set to on.)

Notes:

- When this unit is used with the lid open, be sure to stop the disc using STOP/CLEAR button before replacing the disc.
- When removing a 8-cm (3-3/16") CD, using the concavity makes removal easier.

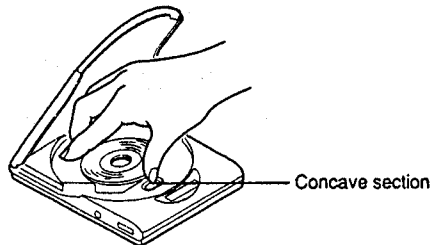
Skip play

To listen to the next tune...

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

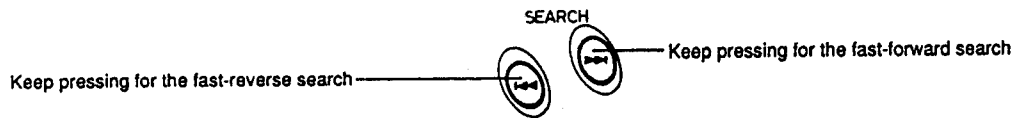
To listen to the previous tune...

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



Search play

- The required position can be located using fast-forward or reverse search during play.



To stop play

- **To stop a disc temporarily**
Press the ►|| PLAY/PAUSE button. When pressed again, play resumes.
- **To stop in the middle of a disc**
During play, press the ■ STOP/CLEAR button to stop play. The total number of tunes and total playing time are displayed. When pressed again, power will be switched off.
- **Auto power off function**
When left in the stop mode for more than 2 minutes, power is switched off automatically.

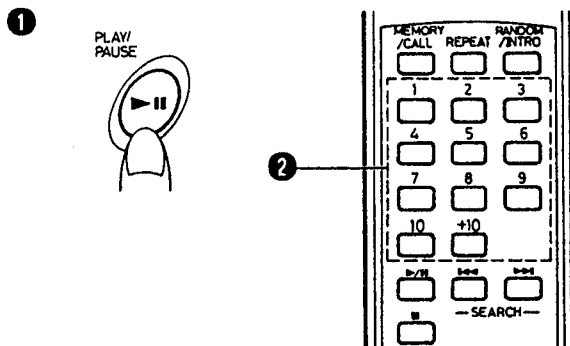
Note:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down. In such a case, check the disc and insert again, and clean or change the disc.



Direct access playback (can only be performed using the remote control unit (optional))

- When all the tunes programmed have been played, pressing any of the track number buttons will start play from the beginning of the designated tune directly.



- 1 Press the ►|| button of the CD player to set to the CD play mode.
- 2 Designate the required tune using the track number buttons.

- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune numbers 11 or more, press the +10 button the required number of times, then a track number button. (Example: To designate the 30th tune, press the +10 button twice, then press track number button 10.)

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

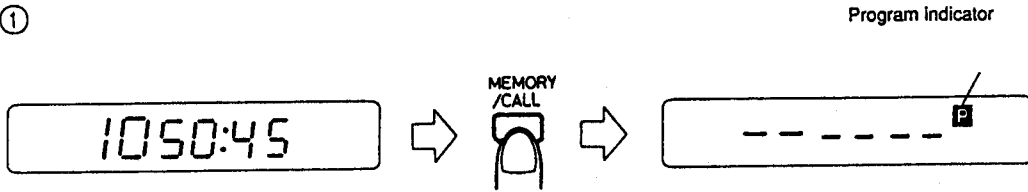
- **To play another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play

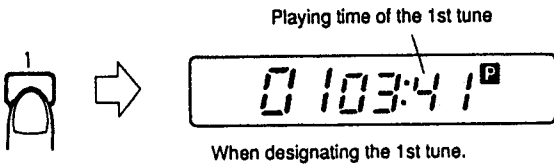
When operating using the remote control (optional)

- Programmed play of up to 20 tunes (max.) can be performed in any required order.

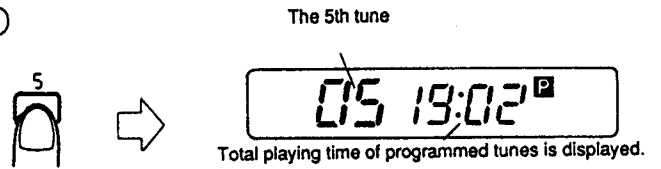
①



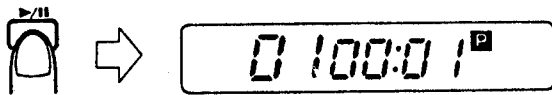
②



③



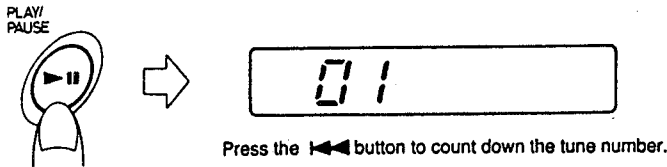
④



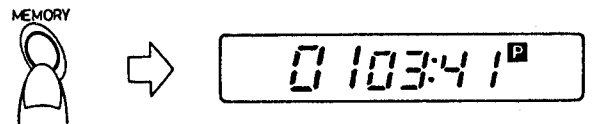
- ① While the total number of tunes and total playing time are displayed, press the MEMORY/CALL button to set to the programming mode.
- ② Designate the required tune using the track number button.
- ③ Designate other tunes by pressing the track number buttons.
- ④ Press the ▶/|| button when programming is completed. Programmed playback starts.

When programming using the controls of the CD player

①

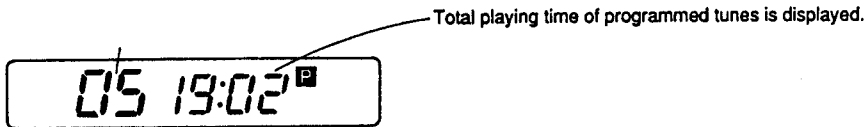


②

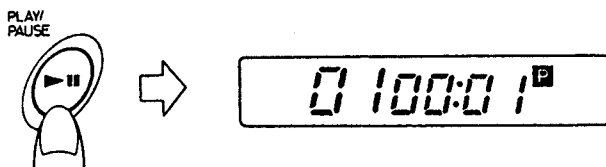


③

The 5th tune



④



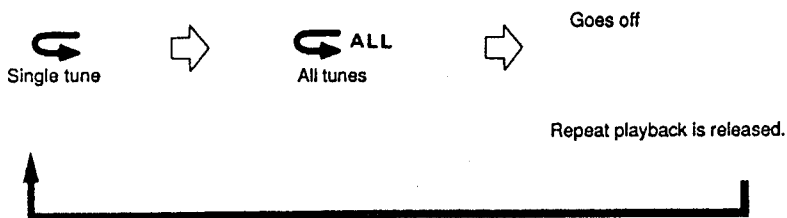
- ① Select the required tune in the stop mode.
- ② Program the tune.
- ③ Repeat steps ① and ② to program other tunes.
- ④ Press to start programmed play.

To confirm the numbers of programmed tunes...
When the MEMORY button is pressed, the numbers of programmed tunes are displayed in programmed order.

To clear programmed tunes...
Press the ■ STOP/CLEAR button before starting play. During programmed play, press this button twice.

Repeat play


Press the REPEAT button during CD play. A single tune or all the tunes can be repeated.




INTRO-scan/RANDOM play


Each time the INTRO/RANDOM button is pressed, the mode will change from the intro, random, intro/random to the clear mode.

- **INTRO-scan operation**

When the intro-scan mode is set ( is displayed) before or during play, the first 15 seconds of all tunes or programmed tunes are played; the mode is automatically released when the intro-scan operation is complete.

- **RANDOM play**

When the random mode is set ( is displayed), each tune is played once, in random order.



- **Repeat playback of a single tune ()**

The tune being played back can be heard repeatedly.

- **Repeat playback of all the tunes ( ALL)**

When playing back the entire disc or programmed tunes, all the tunes or the programmed tunes can be heard repeatedly.

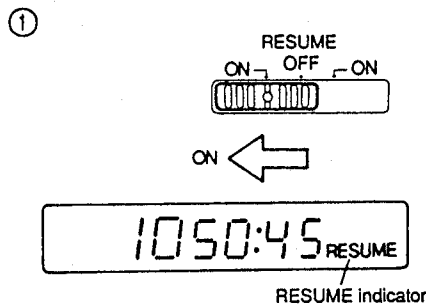
- **INTRO-scan/RANDOM play**

When this mode is set ( and  are displayed), intro scan operations of randomly selected tunes are played.

Resume play

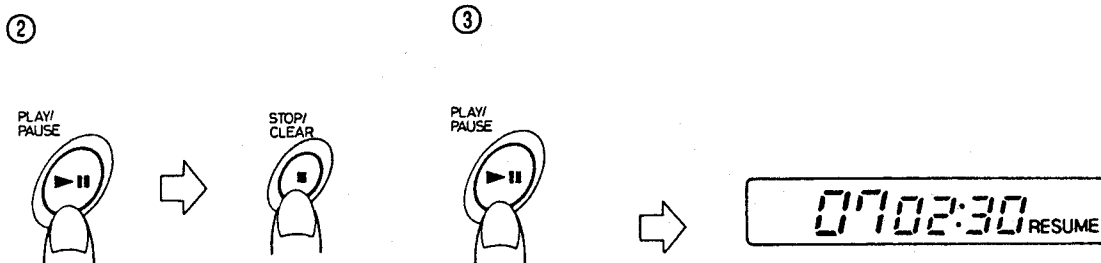
When play is resumed, play restarts from where the previous play stopped.

When the power is supplied from a car's cigarette lighter, etc., it is convenient because each time the power is switched off, the laser pickup will not go back to the first tune.



- ① Set the RESUME switch.
- ② Play a tune and stop, for example, at 2 minutes 30 seconds of the 7th tune and set the power to off.
- ③ When the power is set to on again, play restarts from the point where the unit stopped.

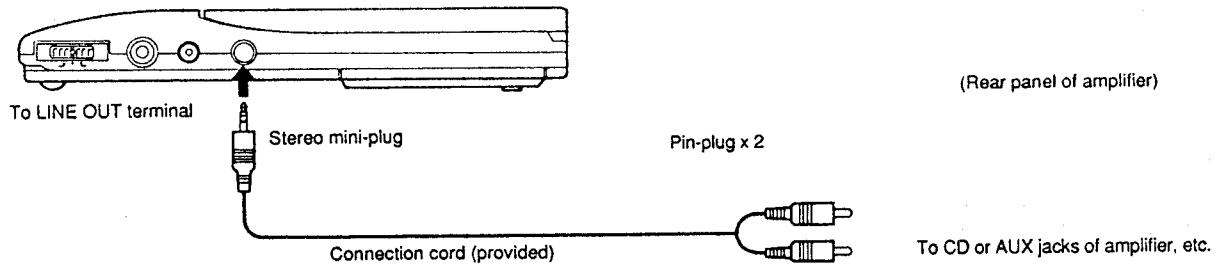
- When using the car adapter, load the rechargeable battery BN-R121 into the main unit, in order to back up the memory of resume play.



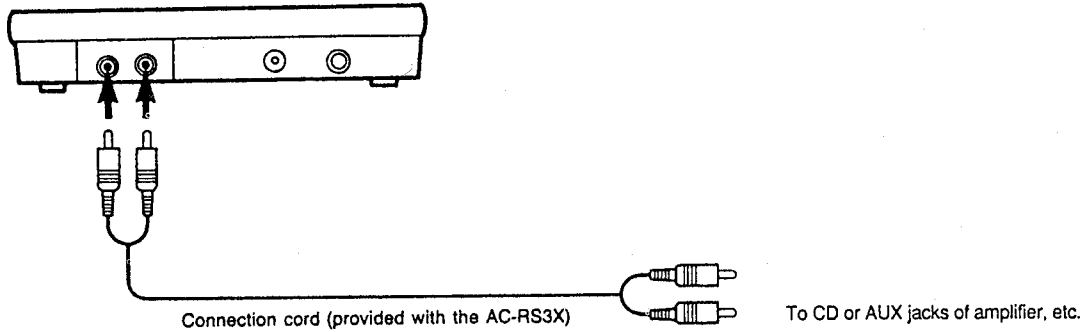
CONNECTIONS

A. Connections to stereo components

- Do not switch the power on until all the connections are completed.
 - Insert plugs firmly; poor contact can cause noise.
1. When the CD player is connected directly to an amplifier, etc....

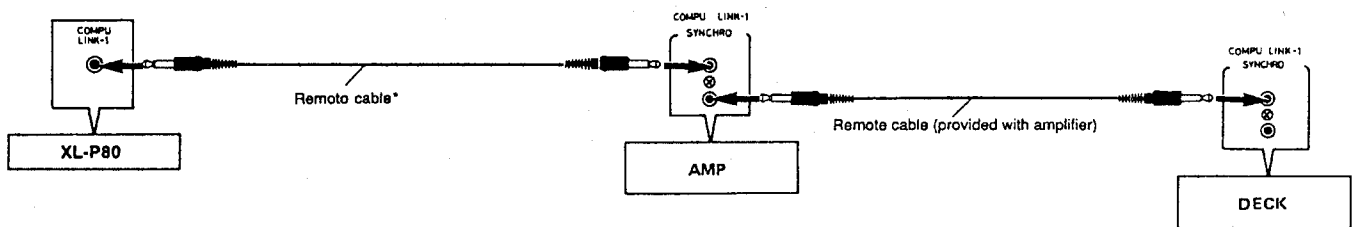


2. When the CD player is used with the Home Audio Station unit (AC-RS3X) (optional).



COMPU LINK

- Synchronized recording is only possible with JVC products which have COMPU LINK-1/SYNCHRO terminals. For further details, refer to the instruction book of the units connected to the XL-P80.



* Use the remote cable (3.5 mm dia. mini plug) available from an audio store or JVC parts number "EWP805-001E" for COMPU LINK connections. For more details, consult your nearest JVC dealer.

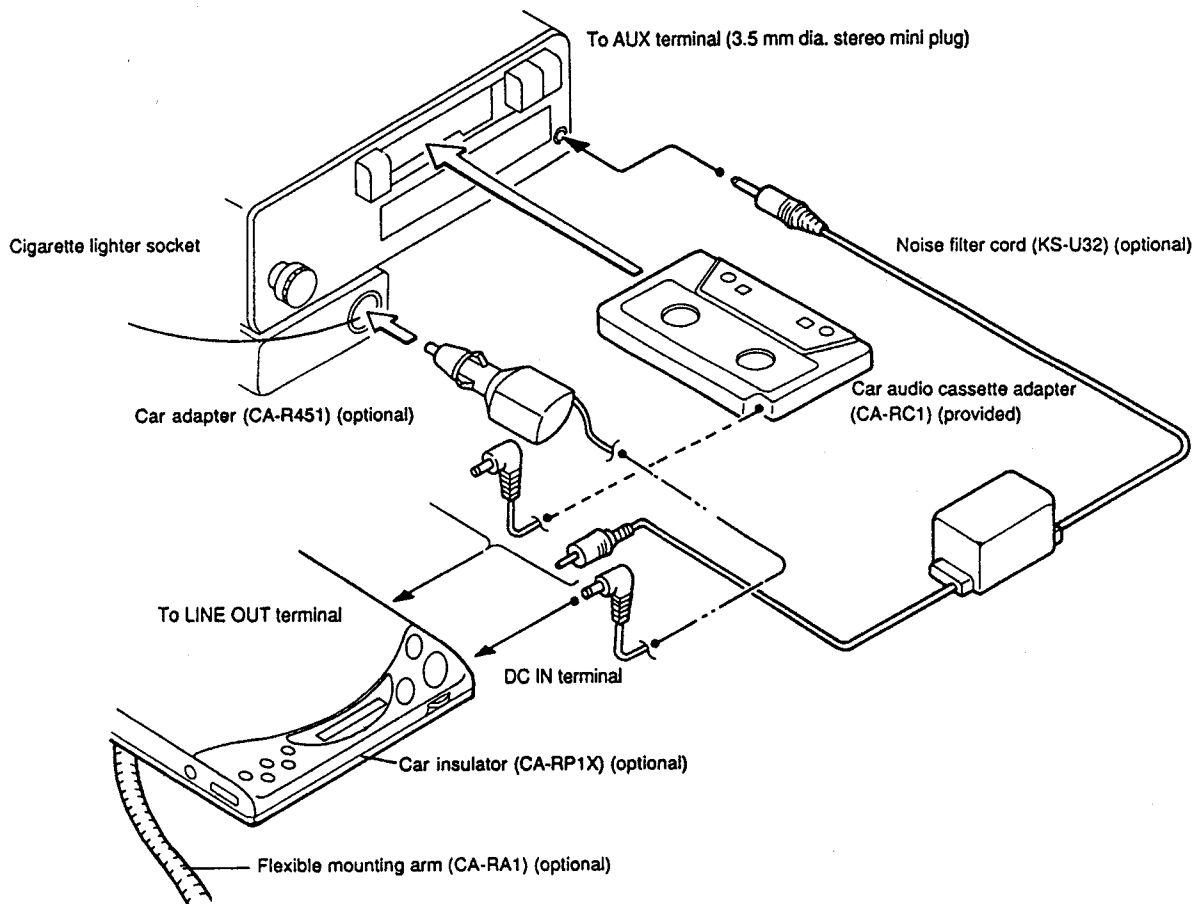
Notes:

- Be sure to use the AC adapter when connecting a remote cable to the COMPU LINK-1 jack.
- Set the power of the XL-P80 on when connecting a remote cable to the COMPU LINK-1 jack.
- When connecting a remote cable to the COMPU LINK-1 jack, the provided connection cord must be also connected.
- The Auto Power Off function does not work when the COMPU LINK-1 jack is connected.
- To avoid misoperation, do not set the CD player to the pause mode at the beginning of synchronized recording.
- During synchronized recording, the CD player will not enter the pause mode.
- The data stored in the CD player for programmed play will be cancelled when the FUNCTION switch of the amplifier is switched over.
- CD auto search is possible using the remote control unit provided with the amplifier.

B. Connection to car audio system

Power is supplied from the car adapter; use a cassette adapter or noise filter cord to connect the signal cord.

- For these connections, refer to the instruction book of each accessory.



- Car audio cassette adapter CA-RC1 (provided)
- Connection and use
- To use the car audio cassette adapter

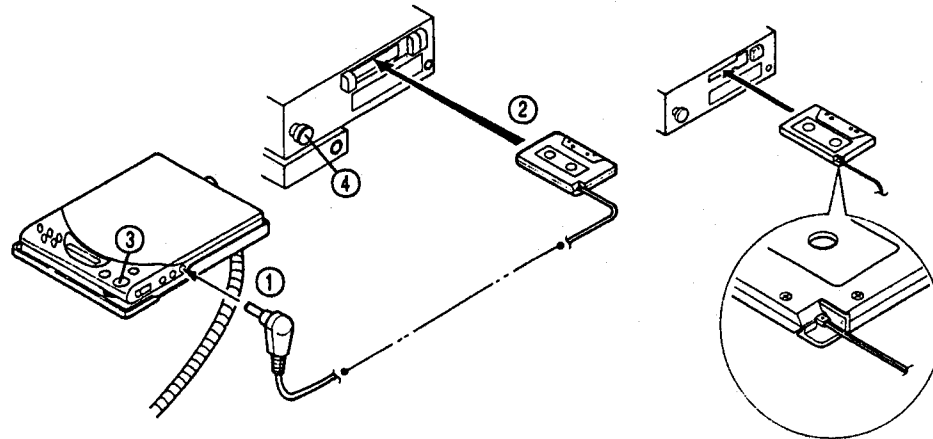


Fig. 3

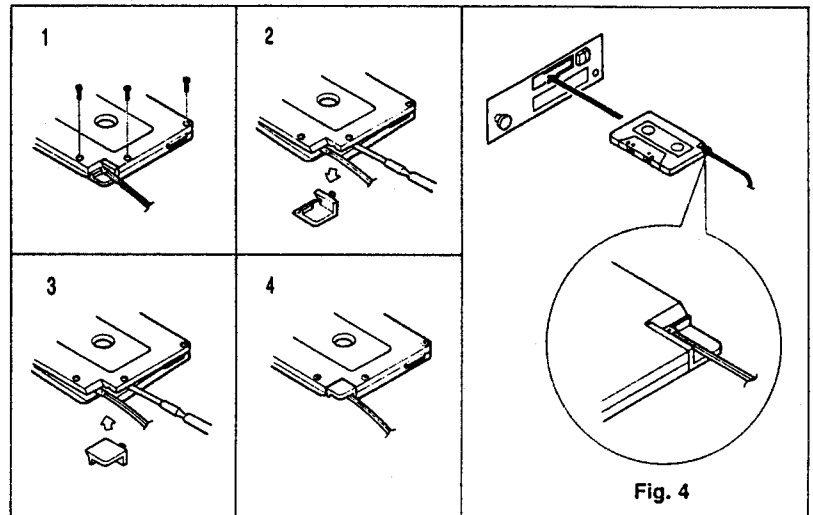


Fig. 4

- ① Connect to the LINE OUT jack.
- ② Load the car audio cassette adapter into the loading slot of cassette car receiver, etc.
- ③ Play the CD player.
- ④ Adjust the volume of the cassette receiver etc.

Notes:

- Load the cassette adapter so that the cord attached to the cassette adapter is towards you as shown in Fig. 3, to avoid any malfunction.
- The loading direction may differ with different types of cassette receiver. In such a case, replace with the provided parts so that the cord attached to the cassette adapter is towards you as shown in Fig. 4.

• Incompatible cassette car receivers

The CA-RC1 cannot be used in the following cassette car receivers:

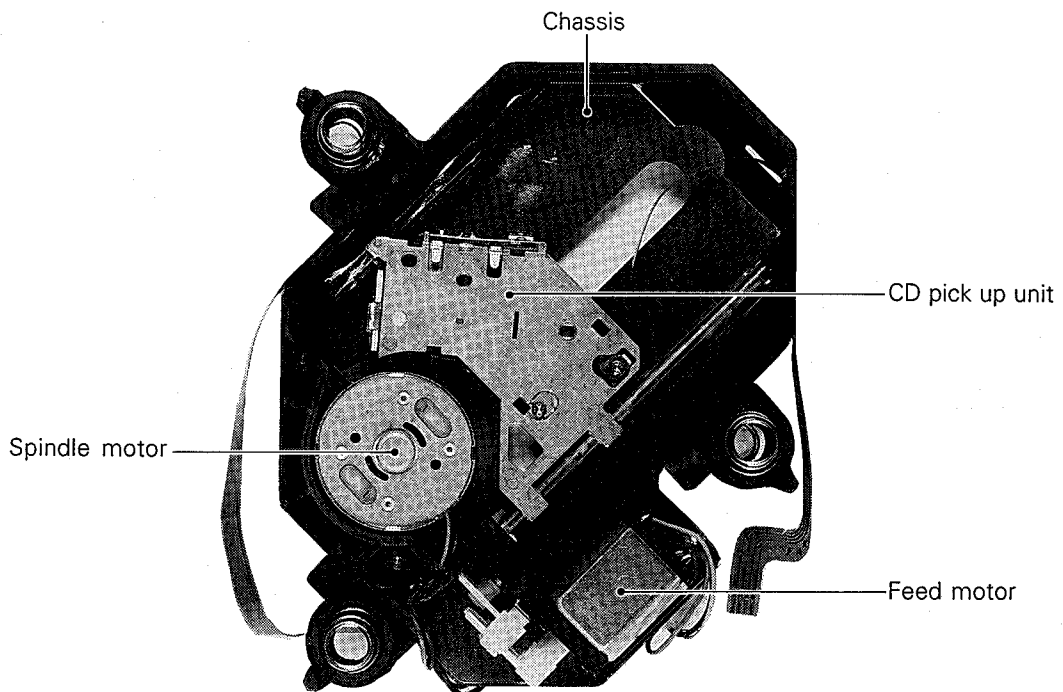
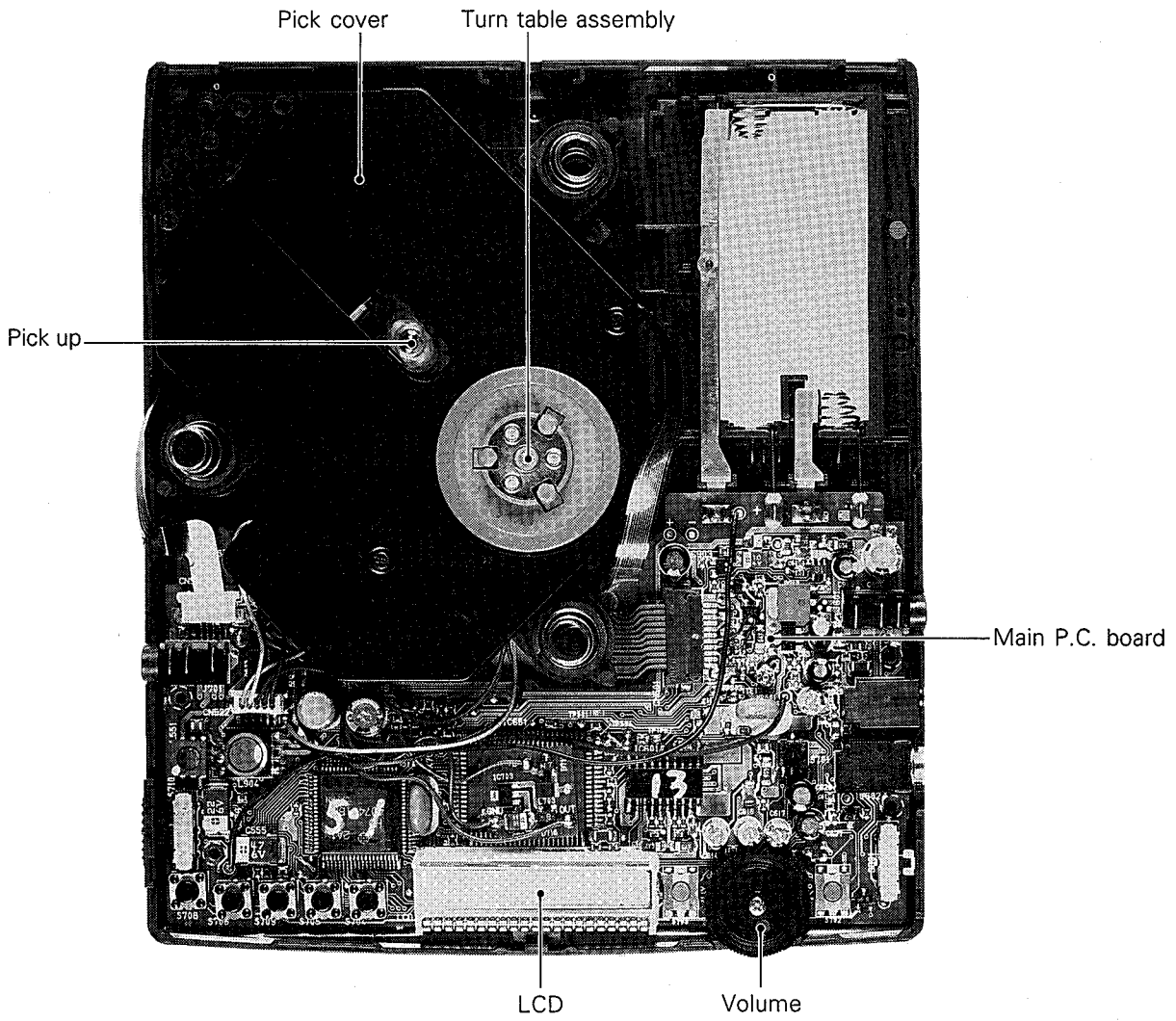
1. Cassette car receivers without an auto-reverse mechanism (one-way type), equipped with heads on the left side.

2. Cassette car receivers that detect tape tension. (When the CA-PR1X is inserted into the cassette car receiver, it is ejected automatically.)
3. Cassette car receivers that are hindered by the cord of CA-RC1 during loading and unloading.

• Notes on use:

- When the cassette car receiver has a tape select switch, set to normal (TYPE I) position.
- When the cassette car receiver has a Dolby NR switch, set the NR switch to OFF.
- When no sound is heard or the sound level is extremely low, if your cassette car receiver has an auto-reverse mechanism, change the tape travel direction.
- To remove the CA-RC1, press the EJECT button of cassette car receiver.
- Do not insert the CA-RC1 with its cord downward or toward the cassette car receiver. It may break the cord or cause a malfunction in the cassette car receiver.

4. Location of Main Parts



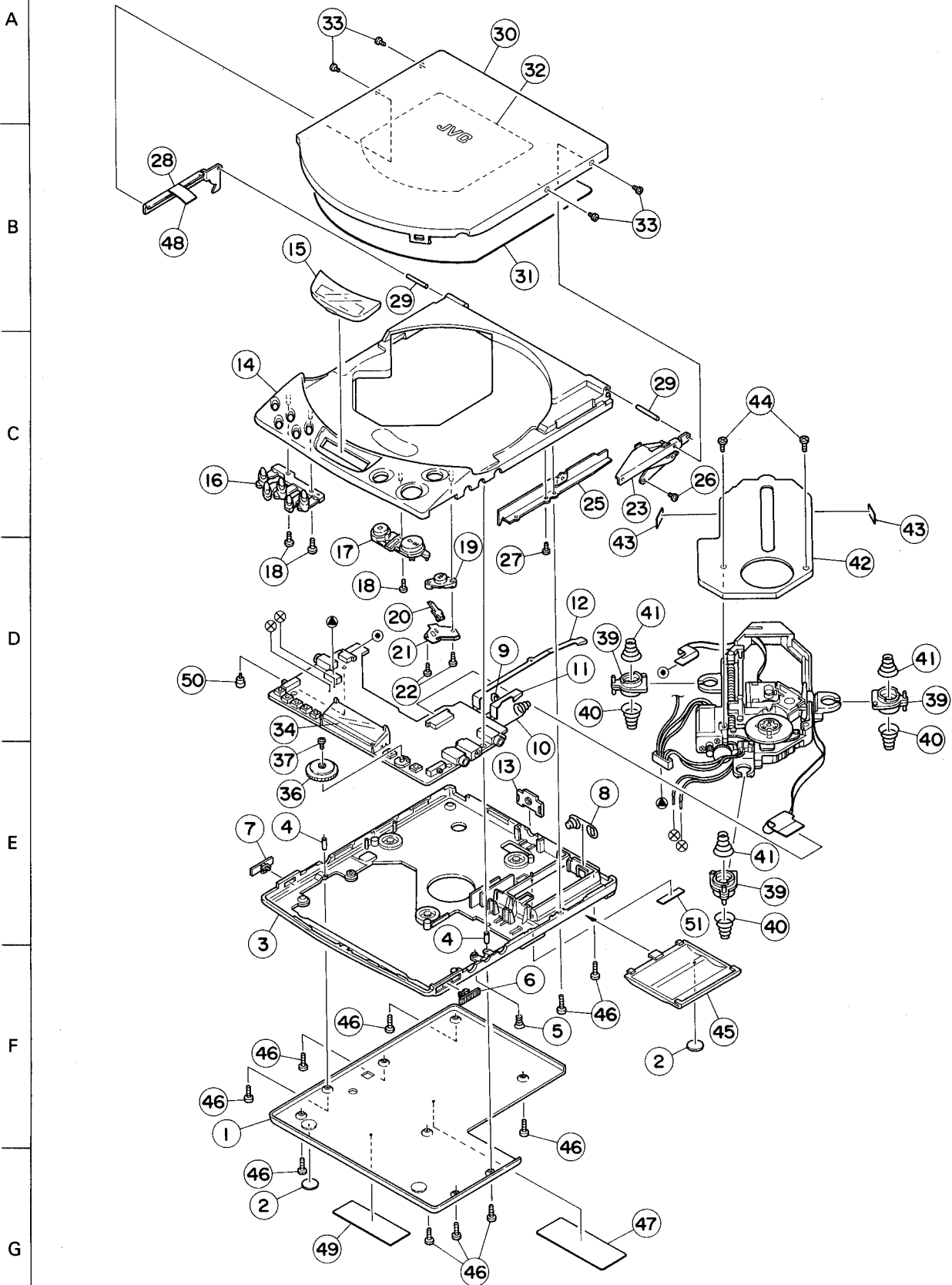
5. Parts Change Depending on Alteration of Pickup

Product number	Machine number # 1 ~ 9500	Machine number # 9501 ~																																																								
Pick up unit	SANYO : SF - 89.5 JV1	JVC : OPTIMA - 60																																																								
Difference point of outside	<p>Silver</p> <p>Pickup SF89.5 JV1</p> <p>CN501</p> <p>IC651</p> <p>LCD</p> <p>Main P.C. board VMW1298 - 101QX</p> <p>Written to SF pick up</p>	<p>Black</p> <p>Pickup OPTIMA - 60</p> <p>CN501</p> <p>LCD</p> <p>Anti shock P.C. board</p> <p>Main P.C. board VMW1298 - 001QX</p>																																																								
Difference point of motor assembly	<p>Turn Table</p> <p>2.1mm</p> <p>Spindle Motor</p>	<p>Turn Table</p> <p>2.15 mm</p> <p>Spindle Motor</p>																																																								
Fixed number of Servo control circuit	<table border="0"> <tr> <td>R509</td> <td>100k Ω</td> <td>R533</td> <td>560 K Ω</td> </tr> <tr> <td>R519</td> <td>12k Ω</td> <td>R559</td> <td>150 K Ω</td> </tr> <tr> <td>R522</td> <td>39 k Ω</td> <td>C530</td> <td>0.022 μ F</td> </tr> <tr> <td>R527</td> <td>100 k Ω</td> <td>C532</td> <td>0.0047 μ F</td> </tr> <tr> <td>R508</td> <td>47K Ω</td> <td>C534</td> <td>820 P F</td> </tr> <tr> <td>R517</td> <td>10 K Ω</td> <td>C535</td> <td>470 P F</td> </tr> <tr> <td>R515</td> <td>270K Ω</td> <td></td> <td></td> </tr> </table>	R509	100k Ω	R533	560 K Ω	R519	12k Ω	R559	150 K Ω	R522	39 k Ω	C530	0.022 μ F	R527	100 k Ω	C532	0.0047 μ F	R508	47K Ω	C534	820 P F	R517	10 K Ω	C535	470 P F	R515	270K Ω			<table border="0"> <tr> <td>R509</td> <td>330 k Ω</td> <td>R533</td> <td>-</td> </tr> <tr> <td>R519</td> <td>33 k Ω</td> <td>R559</td> <td>120 K Ω</td> </tr> <tr> <td>R522</td> <td>18 k Ω</td> <td>C530</td> <td>-</td> </tr> <tr> <td>R527</td> <td>150 k Ω</td> <td>C532</td> <td>0.0056 μ F</td> </tr> <tr> <td>R508</td> <td>100 K Ω</td> <td>C534</td> <td>-</td> </tr> <tr> <td>R517</td> <td>3.3 K Ω</td> <td>C535</td> <td>100 P F</td> </tr> <tr> <td>R515</td> <td>390K Ω</td> <td></td> <td></td> </tr> </table>	R509	330 k Ω	R533	-	R519	33 k Ω	R559	120 K Ω	R522	18 k Ω	C530	-	R527	150 k Ω	C532	0.0056 μ F	R508	100 K Ω	C534	-	R517	3.3 K Ω	C535	100 P F	R515	390K Ω		
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Anti shock P.C. board (Additional P.C. board)		<table border="0"> <tr> <td>IC101</td> <td>BA4510F</td> </tr> <tr> <td>R101</td> <td>330 K Ω</td> </tr> <tr> <td>R102</td> <td>150 K Ω</td> </tr> <tr> <td>R103</td> <td>150 K Ω</td> </tr> <tr> <td>R104</td> <td>47 K Ω</td> </tr> <tr> <td>R105</td> <td>47 K Ω</td> </tr> <tr> <td>R106</td> <td>5.6 K Ω</td> </tr> <tr> <td>C101</td> <td>330 P F</td> </tr> <tr> <td>C102</td> <td>1 μ F</td> </tr> <tr> <td>D101</td> <td>HSM2838</td> </tr> </table>	IC101	BA4510F	R101	330 K Ω	R102	150 K Ω	R103	150 K Ω	R104	47 K Ω	R105	47 K Ω	R106	5.6 K Ω	C101	330 P F	C102	1 μ F	D101	HSM2838																																				
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D101	HSM2838																																																									

6. Remoral of Main Parts and Analytic Drawing

■ Enclosure Assembly Parts

: Block No. M1



■ Enclosure Assembly Parts List

BLOCK NO. M1MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJC3223-103	BOTTOM COVER		1		
2	VJF4049-003	FOOT		2		
3	VJG1197-001	BOTTOM CASE		1		
4	VYH7756-001	COLLAR		2		
5	VYH7591-001	EARTH SPRING		1		
6	VXS4386-002	SLIDE KNOB	SUPER BASS	1		
7	VXS4386-003	SLIDE KNOB	HOLDE	1		
8	VKW5064-001	BATT.SPRING(+)		1		
9	VKW5065-001	BATT.SPRING(-)		1		
10	VKW5066-001	BATT.CONTACT(+)		1		
11	VYH7794-003	CHARGE CONTACT		1		
12	VYH7795-002	CENTER CONTACT		1		
13	VYH7796-001	NUT PLATE		1		
14	VJG1198-001	CD CASE		1		
15	VJD3946-001	LCD LENS		1		
16	VXP3553-001	PUSH BUTTON(A)	INTRO, SERCH,	1		
17	VXP3554-001	PUSH BUTTON(B)	STOP/PLAY	1		
18	SPSN1450M	MINI SCREW		3		
19	VXP5177-001	OPEN BUTTON	DOOR	1		
20	VYH7757-002	LOCK LEVER		1		
21	VYH7758-001	BUTTON BRACKET		1		
22	SPSN1450M	MINI SCREW	BUTTON BKT	2		
23	VYH7760-00A	ARM ASS'Y		1		
25	VYH7759-001	ARM BRACKET		1		
26	VKZ4616-004	SCREW		1		
27	SPSN1450M	MINI SCREW	ARM BRACKET	1		
28	VYH7762-001	DOOR BRACKET(L)		1		
29	VYH7590-002	SHAFT		2		
30	VJT2312-002	CD DOOR		1		
31	VYH7813-001	DOOR PLATE		1		
32	VYTT631-001	ADHESION SHEET	DOOR+PLATE	1		
33	VKZ4616-002	SCREW	DOOR HOLDER	4		
34	VYH7587-002	LCD HOLDER		1		
36	VXL4396-003	VOLUME KNOB		1		
37	SPSH1735N	SCREW	VOLUME KNOB	1		
39	VYH7588-102	CUSHION		3		
40	VKW5041-001	SPRING		3		
41	VKW5041-101	SPRING		3		
42	VJD3947-004	PICK COVER		1		
43	VYSA1R6-009	SPACER	PICK COVER	2		
44	SPSJ2055M	MINI SCREW	PICK COVER	2		
45	VJD3956-002	BATT.COVER		1		
46	SPSN1780M	MINI SCREW	BOTTOM+CASE	10		
47	VND4221-001	CLASS 1 LABEL		1	B, E, G, EN	
	VND4975-001	CAUTION LABEL	BOTTOM COVER	1	J	
48	VYSA1R8-069	SPACER	REF.NO.28	1		
49	VND4285-002	HHS LABEL		1	C, J	
50	VYH7592-001	PIN	DCS.CONTACT	1		
51	VPZ4011-003	SERIAL LABEL	BOTTOM CASE	1		

■ CD Door Assembly (Refer to Fig. 1)

1. Turn the body over and remove the battery cover.
2. From the bottom case assembly, remove the ten screw 46 retaining the CD door assembly.
3. After turning the front surface upside, dismount the CD door assembly.

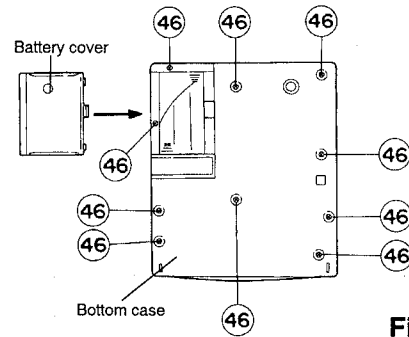


Fig. 1

■ CD Door 30 (Refer to Fig. 2, 3)

1. Remove the two screws 33 retaining the left side door 30 from the CD case 14.
2. Remove the two screws 33 retaining the right side door 30 from the CD case 14.

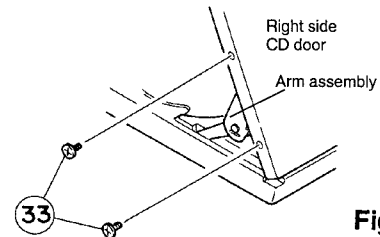


Fig. 2

■ CD Case 14 (Refer to analytic drawing)

1. Remove the two screws 18 retaining the push button (A) 16 from the CD case.
2. Remove the screw 18 retaining the push button (B) from the CD case 14.
3. Remove the screw 27 retaining the arm bracket 25 from the CD case 14.
4. Remove the two screws 22 retaining the open button 19 and button bracket 21, lock lever 20 from the CD case 14.

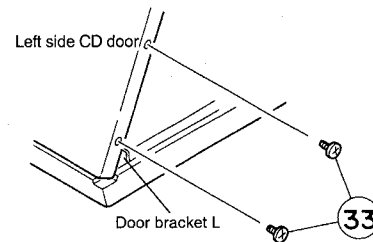


Fig. 3

■ CD Mechanism Assembly (Refer to Fig. 4,5)

1. From the connector CN501 on the main P.C. board, remove the flexible wire outgoing from the CD mechanism assembly.
2. From the connector CN551 on the main P.C. board, remove the flexible wire outgoing from the CD mechanism assembly.
3. From the connector CN522 on the main P.C. board, remove the connector wire outgoing from the CD mechanism assembly.

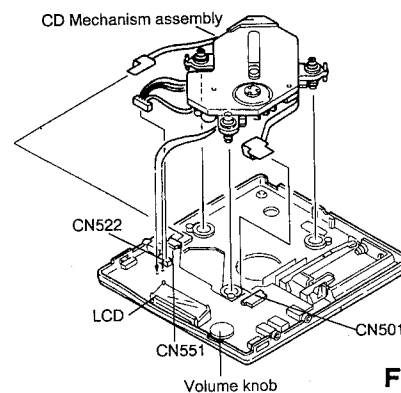


Fig. 4

■ Main P. C. board assembly (Refer to Fig. 4,5)

Remove the HBS slide switch knob 6 and hold switch knob 7 from the respective switches on the main P.C. board.

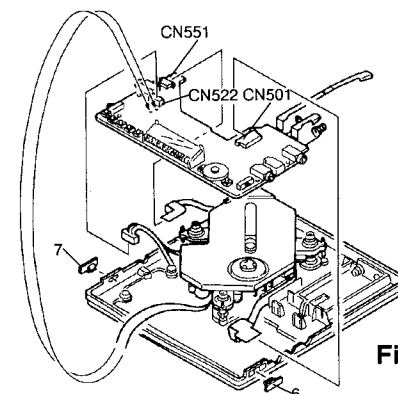


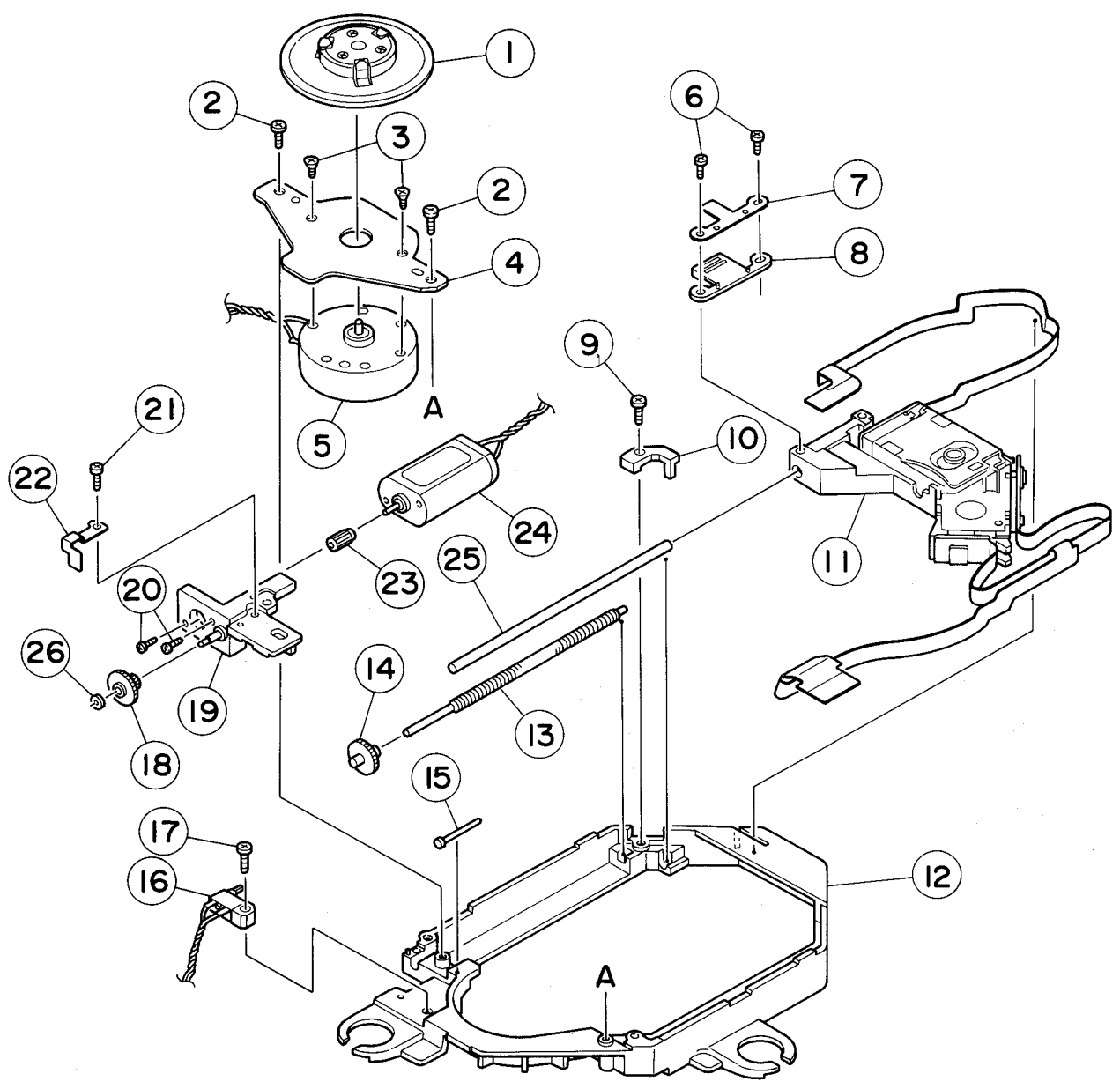
Fig. 5

1 | 2 | 3 | 4 | 5

■ CD Mechanism Assembly Part

: Block No. M 2

A
B
C
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F
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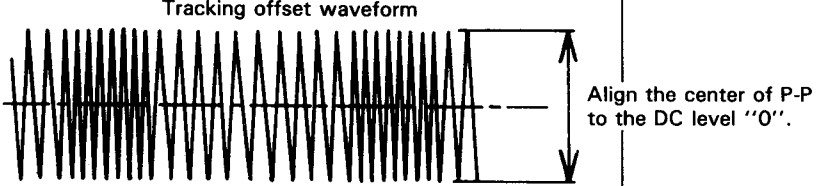


■ CD Mechanism Assembly Parts List

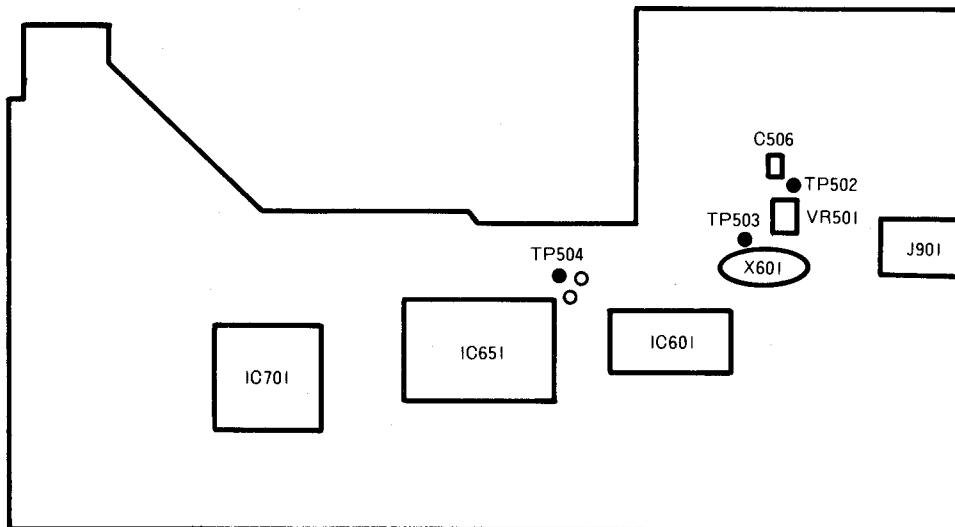
BLOCK NO.

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VKS3568-00C	TURN TABLE ASSY		1		
2	VKZ4248-206	MINI SCREW	M.HOLDER	2		
3	SSSK1720M	SCREW		2		
4	VKL7257-001	MOTOR HOLDER		1		
5	RF-3LOPA-12330	MOTOR (SPINDLE)		1		
6	SPSK1730M	SCREW	<FOR RACK PLATE	2		
7	VKL7133-001	RACK PLATE		1		
8	VKS5391-001	RACK GEAR		1		
9	VKZ4248-206	MINI SCREW	<FOR SWITCH>	1		
10	VKS5389-001	SHAFT HOLDER		1		
11	OPTIMA-60B	OPTICAL P.UNIT	#9501-	1		
11	SF-89.5JV1	OPTICAL P.UNIT	#1-#9500	1		
12	VKS1124-004	CHASSIS		1		
13	VKZ4642-001	SCREW SHAFT		1		
14	VKS5423-001	S.SHAFT GEAR		1		
15	VKS5390-001	SWITCH BAR		1		
16	VSH1143-001	SWITCH		1		
17	VKZ4248-206	MINI SCREW	<FOR S.HOLDER>	1		
18	VKS5426-001	MIDDLE GEAR		1		
19	VKS3613-001	MOTOR BKT		1		
20	LPSP2005Z	SCREW	<FOR FEED>	2		
21	VKZ4248-206	MINI SCREW	<FOR M.BKT&S.SP	1		
22	VKL7256-001	STOPPER SPRING		1		
23	VKS5425-001	F.M.GEAR		1		
24	FF-030PA-11160	MOTOR (FEED)		1		
25	VKH5566-001	SHAFT(L)		1		
26	VKS5334-001	PUSH NUT		1		

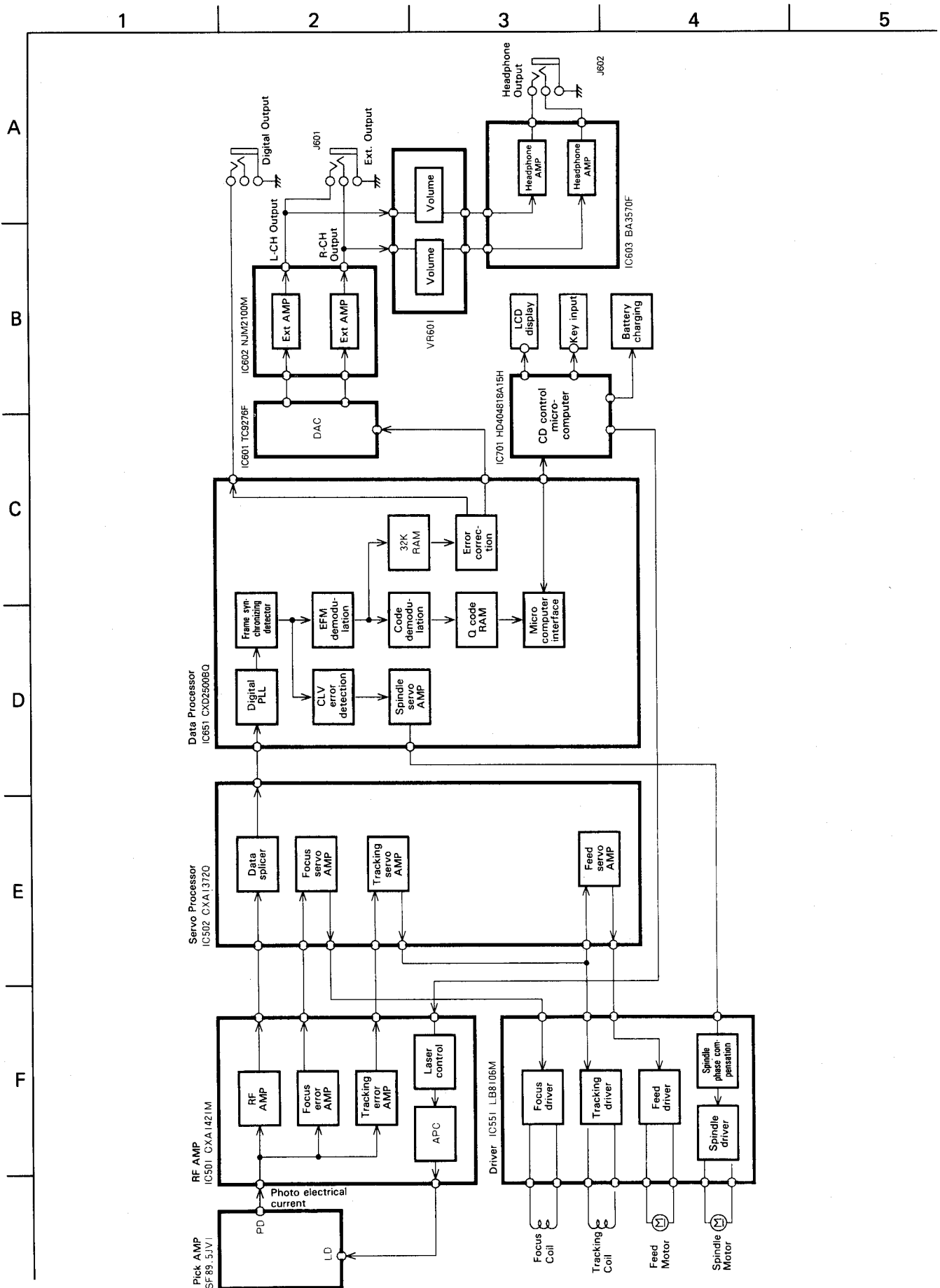
7. Main Adjustment

Item	Devices Used	Adjustment Method	Adjust
Adjustment of tracking offset	Normal disk oscilloscope	<ol style="list-style-type: none"> 1. Insert an oscilloscope between TP502 (VREF) and TP503 (TE). 2. Apply 4.5 V to DC IN (J901). 3. After setting a normal disk, press the [PLAY] button (switch) continuously until "Cd" is displayed while pressing the F. SKIP and B. SKIP button switches. 4. Short the connection between TP504 and TP502. 5. With VR501, adjust the tracking offset so that the DC level of tracking error signal (waveform of oscilloscope) becomes zero. <div style="text-align: center;"> <p>Tracking offset waveform</p>  </div> <p>Notes 1. With VR501, perform adjustment so that the waveform becomes vertically symmetrical to the zero level. 2. The oscilloscope input should be DC-coupled.</p>	VR501

■ Location of Adjustment

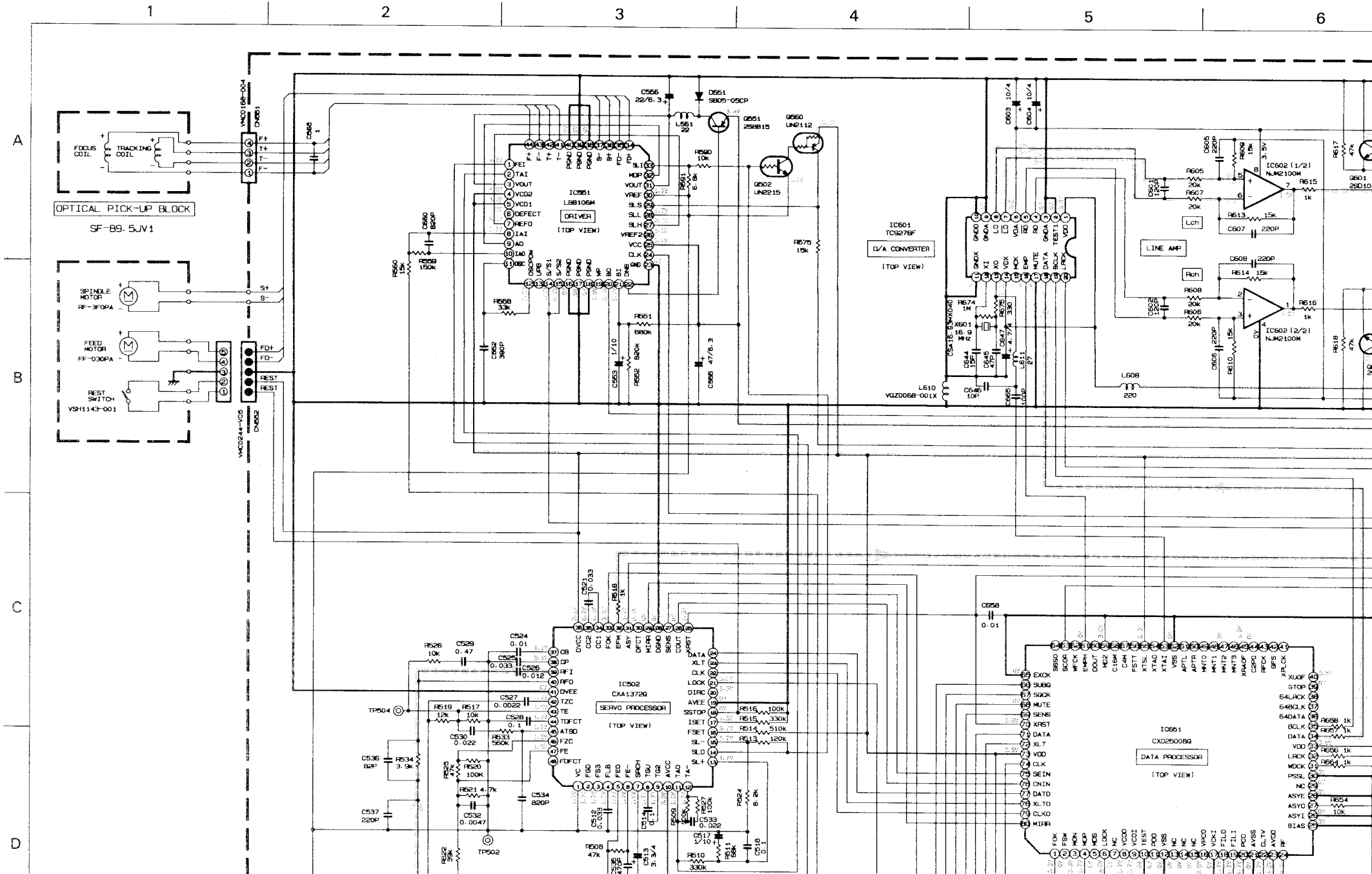


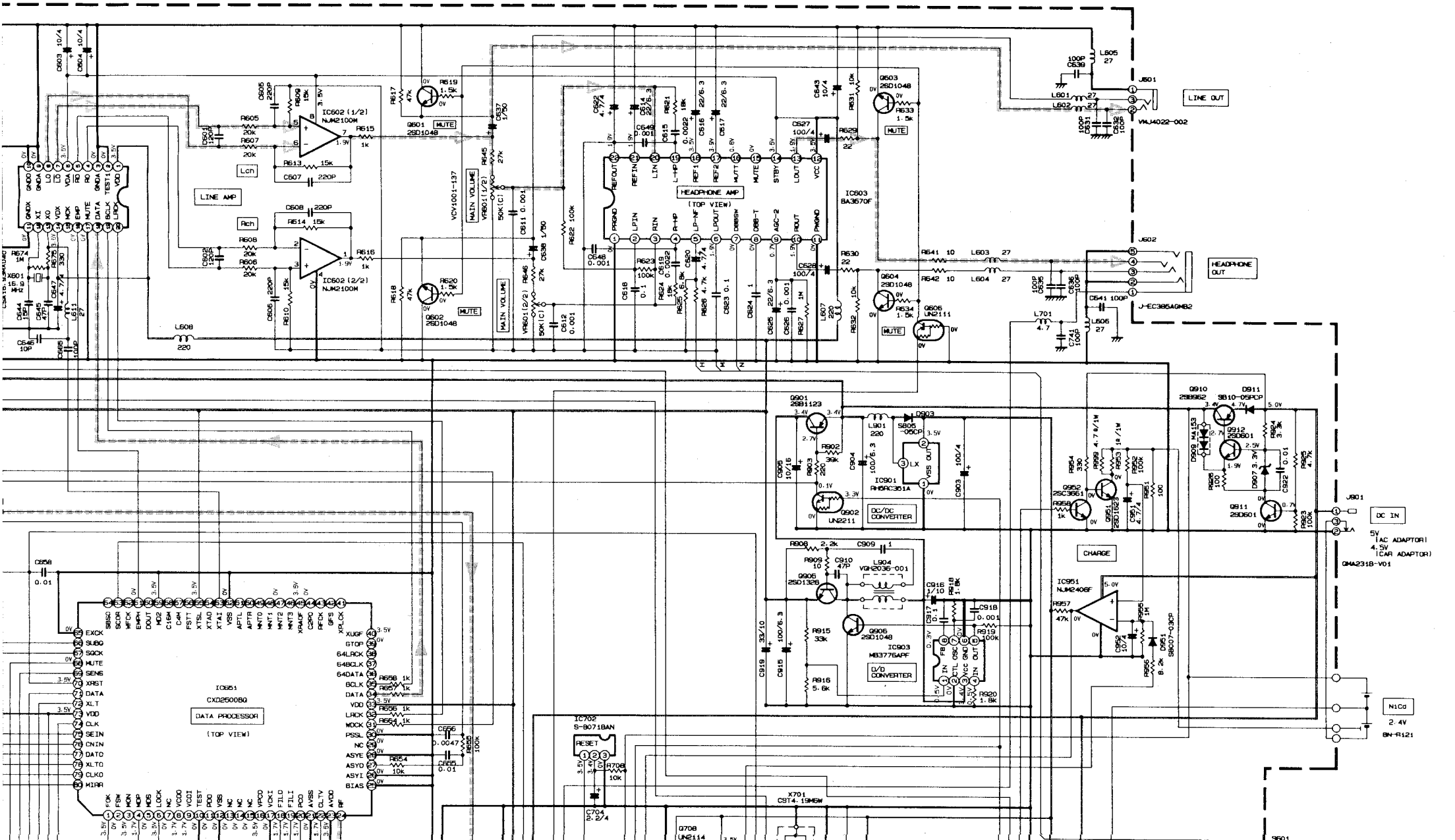
8. Block Diagram



9. Standard Schematic Diagram

(• Pick up unit : SF-89.5JV1/SANYO
 • Product machine number : #1~#9500)





IC951
CXD2500BQ
DATA PROCESSOR
(TOP VIEW)

CHARGE

DC/DC CONVERTER

IC702
S-8071BAN
RESET

D/D CONVERTER

IC903
MB3776AFP

IC951
LM2406F

IC901
R45RC301A

IC603
BA3670F

IC602
LM2100M

IC601
2SD1048

IC701
CS14-194EM

IC904
V42036-001

IC902
UN2211

IC903
UN2111

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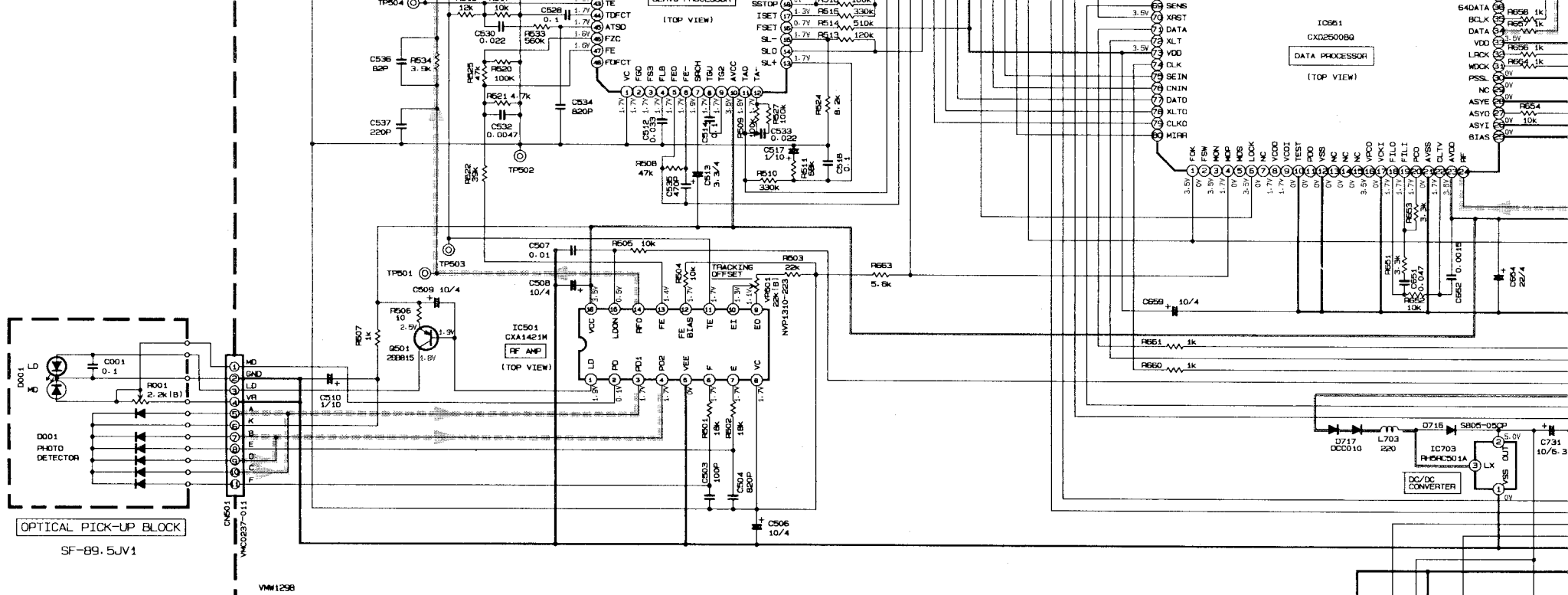
IC1000
UN2111

D

E

F

G



OPTICAL PICK-UP BLOCK

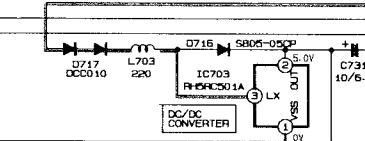
SF-89.5JV1

VM125B

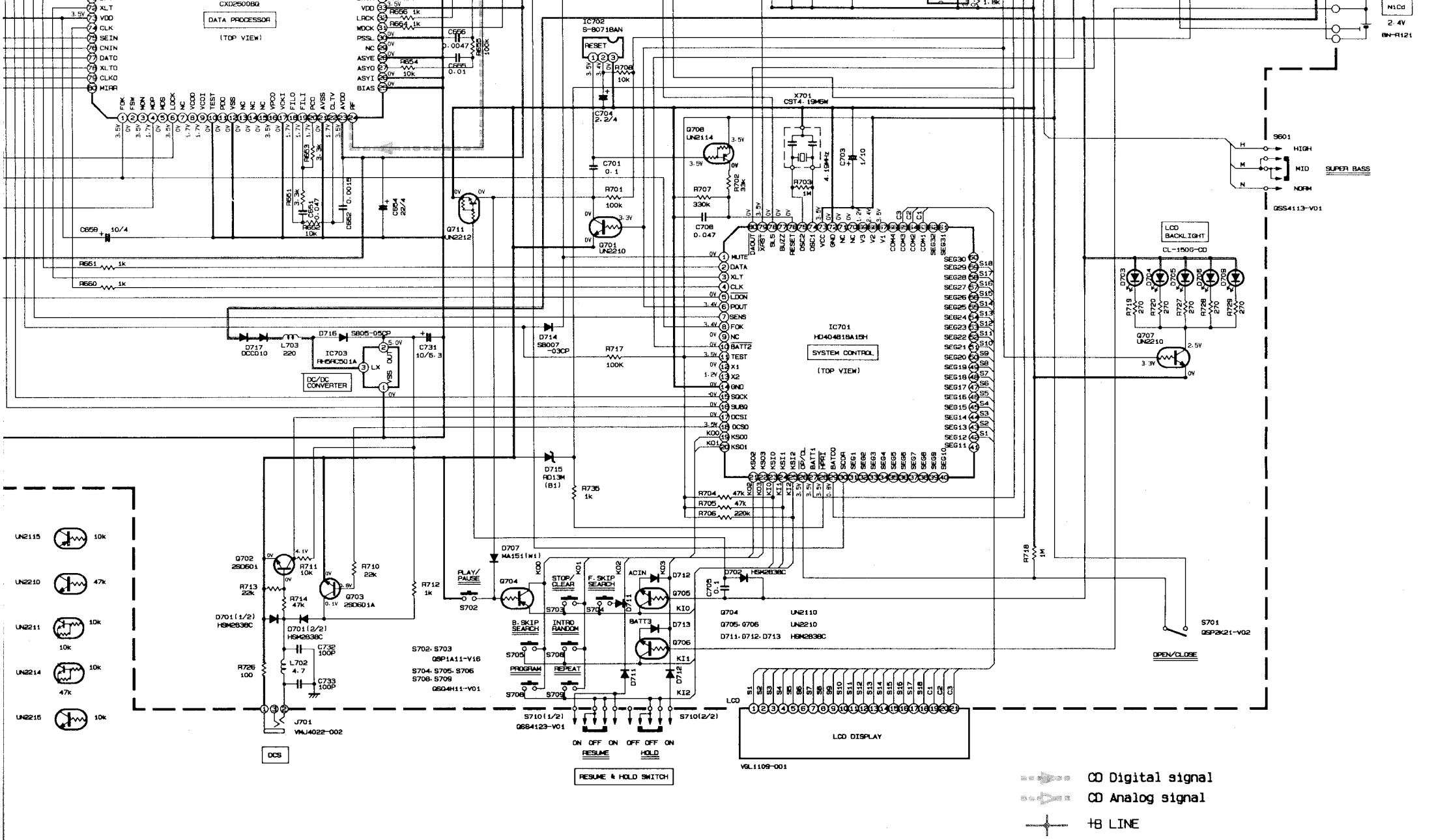
NOTES

- 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE IN PLAYBACK WITH AC ADAPTOR
- 2. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR
 ALL RESISTANCE VALUES ARE IN OHM(Ω)
 ALL CAPACITANCE VALUES ARE IN pF(pF)
 ALL INDUCTANCE VALUES ARE IN μH(μH)
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)

UN2110		47k	UN2115		10k
UN2111		10k	UN2210		47k
UN2112		22k	UN2211		10k
UN2113		47k	UN2214		10k
UN2114		10k	UN2215		10k



DCS



- Pick up unit : OPTIMA-60/JVC
- Product machine number : #9501~

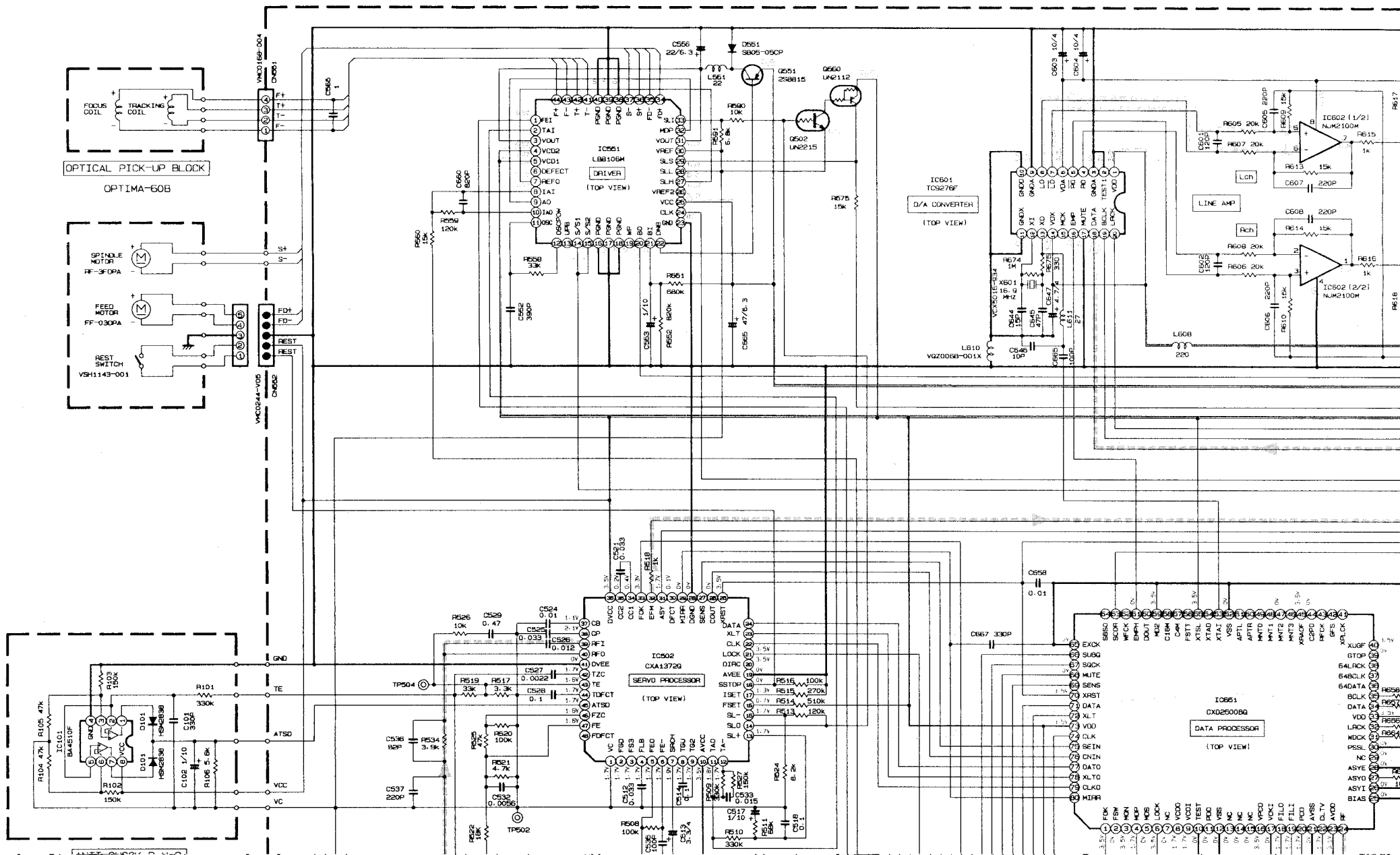
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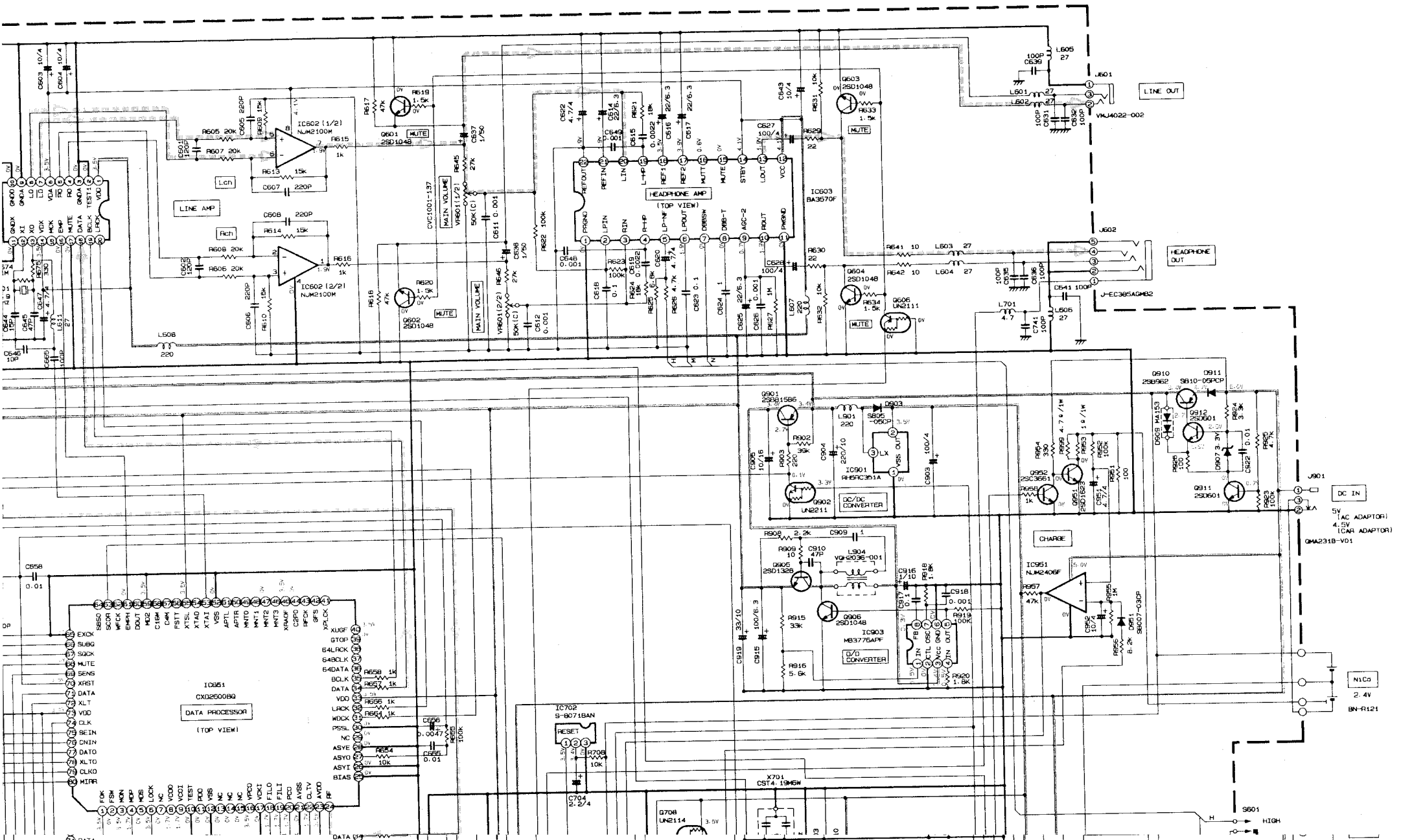
A

B

C

D



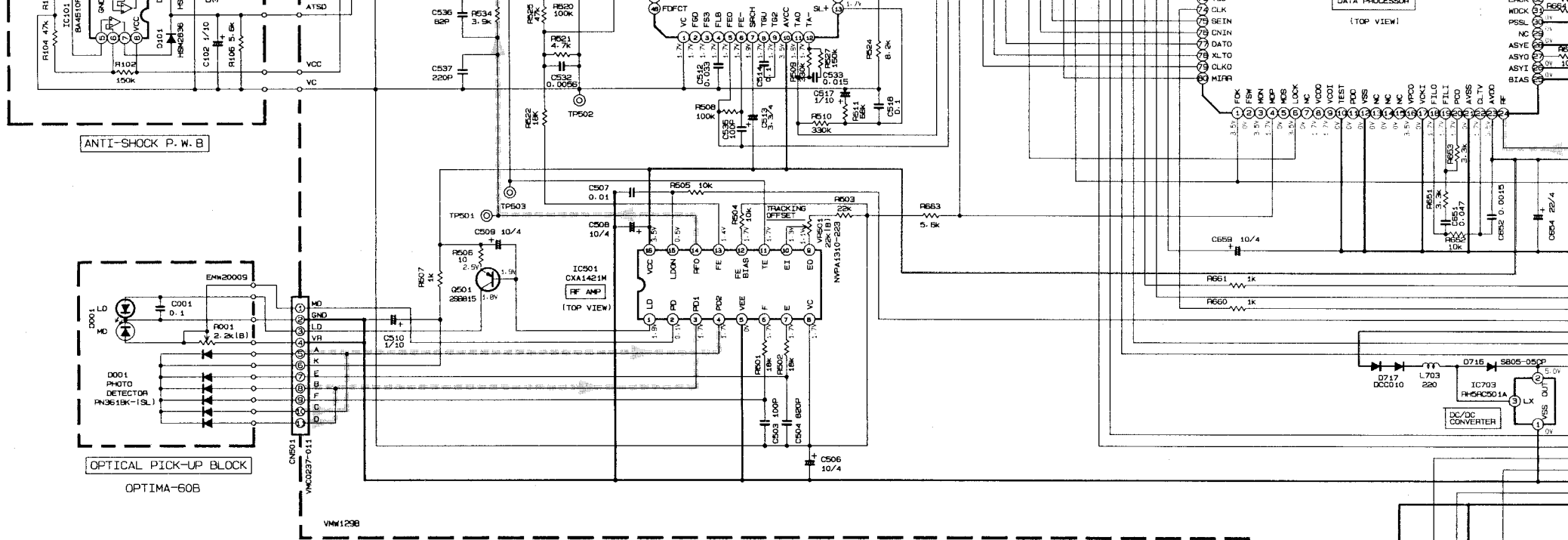


D

E

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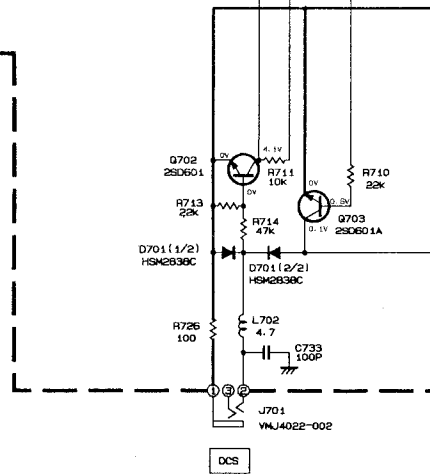
G

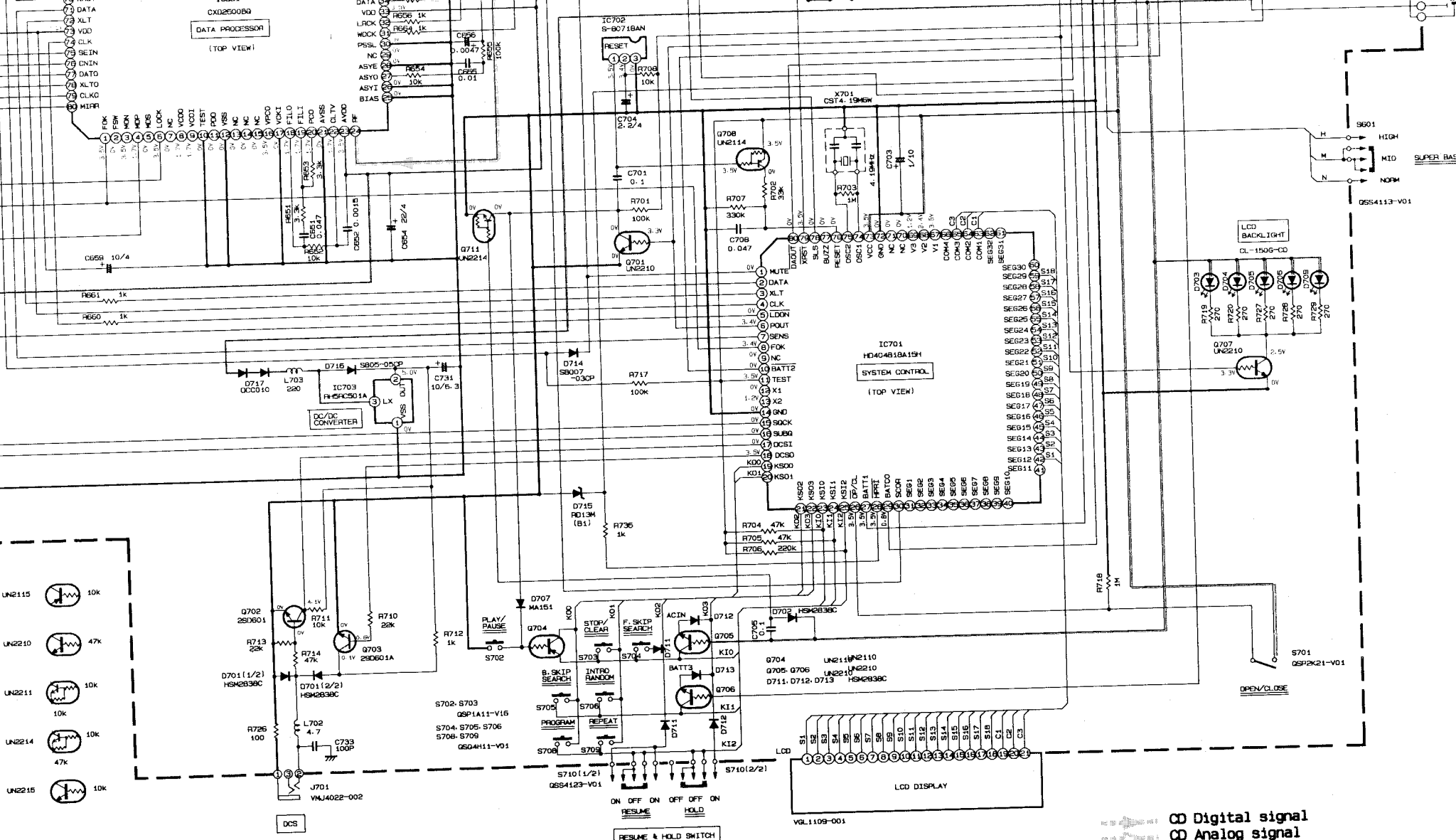


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE IN PLAYBACK WITH AC ADAPTOR
2. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR
 ALL RESISTANCE VALUES ARE IN OHM(Ω)
 ALL CAPACITANCE VALUES ARE IN pF(pF)
 ALL INDUCTANCE VALUES ARE IN μH(μH)
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)

UN2110	47k	UN2115	10k
UN2111	10k	UN2210	47k
UN2112	22k	UN2211	10k
UN2113	47k	UN2214	10k
UN2114	47k	UN2215	10k





- UN2115 10k
- UN2210 47k
- UN2211 10k
- UN2214 10k
- UN2215 10k

VL1109-001

DD Digital signal
 CD Analog signal
 T+B LINE

H HIGH
 M MID
 N NORM
 SUPER BASS
 0554113-V01

DPDV.GLOBE

S701 05P2K21-V01

IC701
 HD404818A15H
 SYSTEM CONTROL
 (TOP VIEW)

CX02500BQ
 DATA PROCESSOR
 (TOP VIEW)

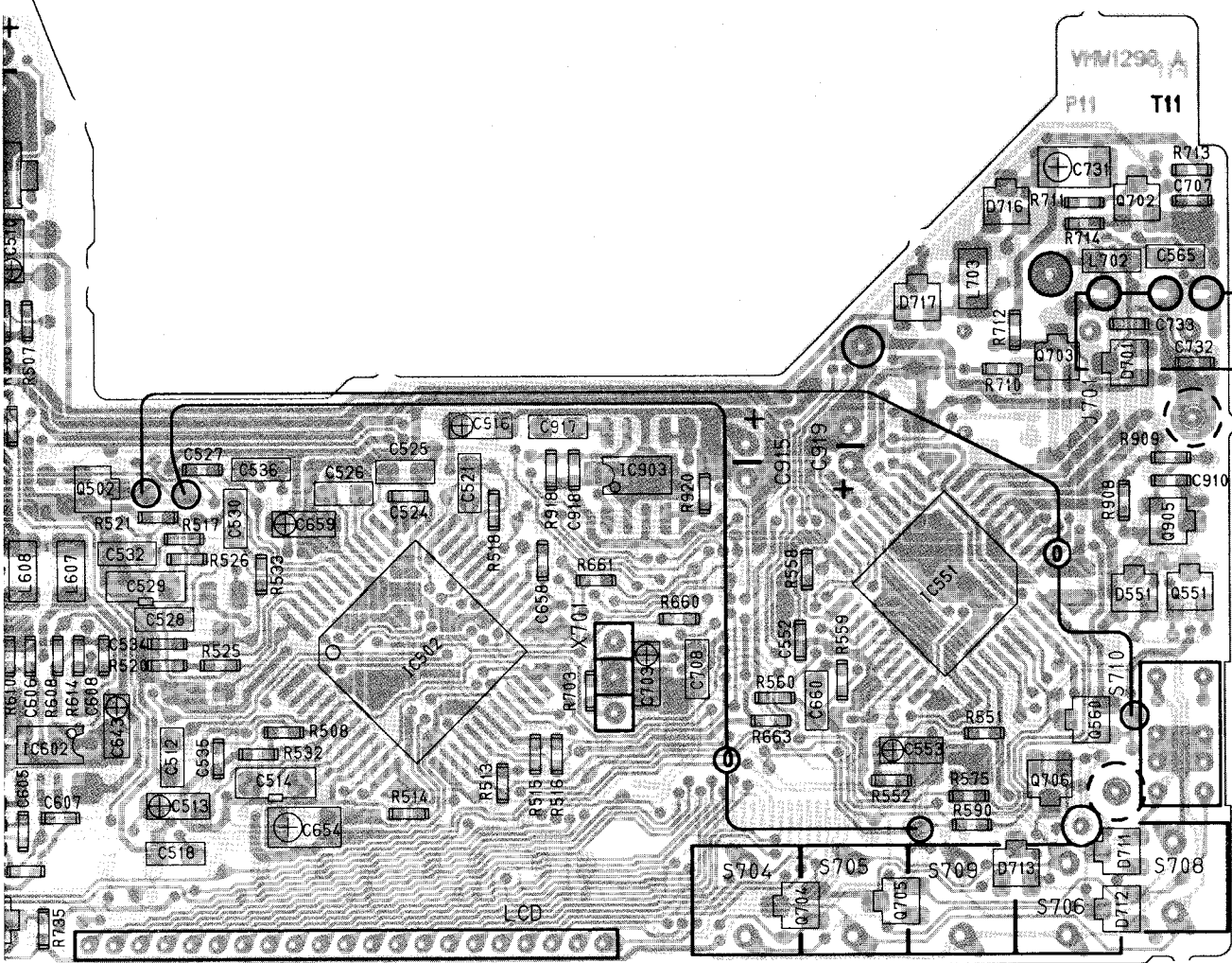
IC703
 FM2501A
 DC/DC CONVERTER

LCD BACKLIGHT
 DL-1505-CD

LCD DISPLAY
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

RESUME & HOLD SWITCH

DCS





D

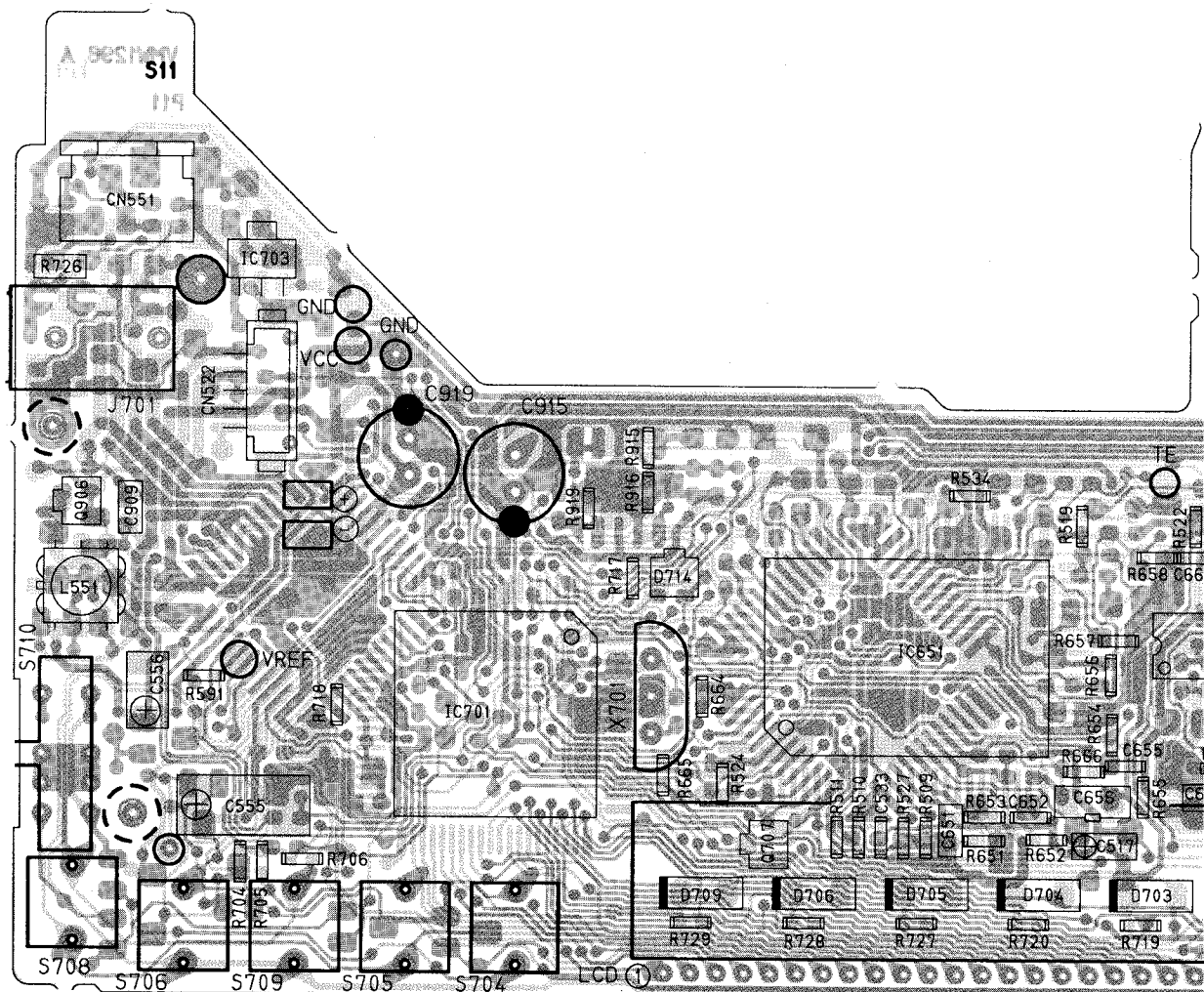
E

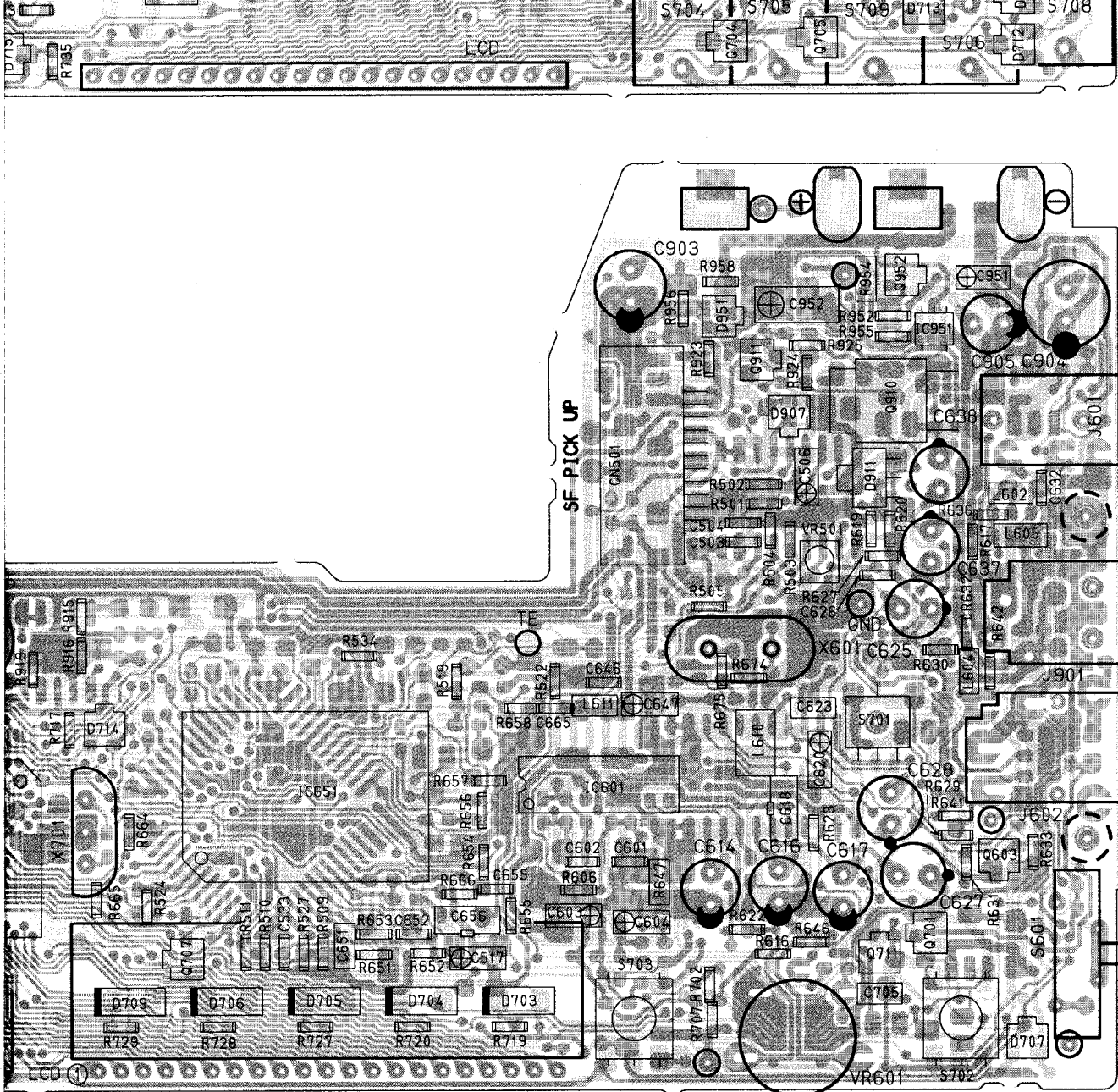
F

G

(Surface Side)

 Back Face Pattern
 Surface Pattern





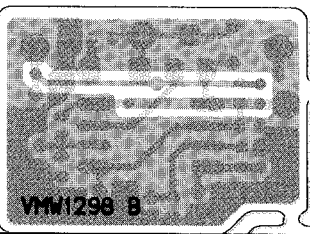
- Pick up unit : OPTIMA-60/JVC
- Product machine number : #9501~

1 2 3 4 5 6

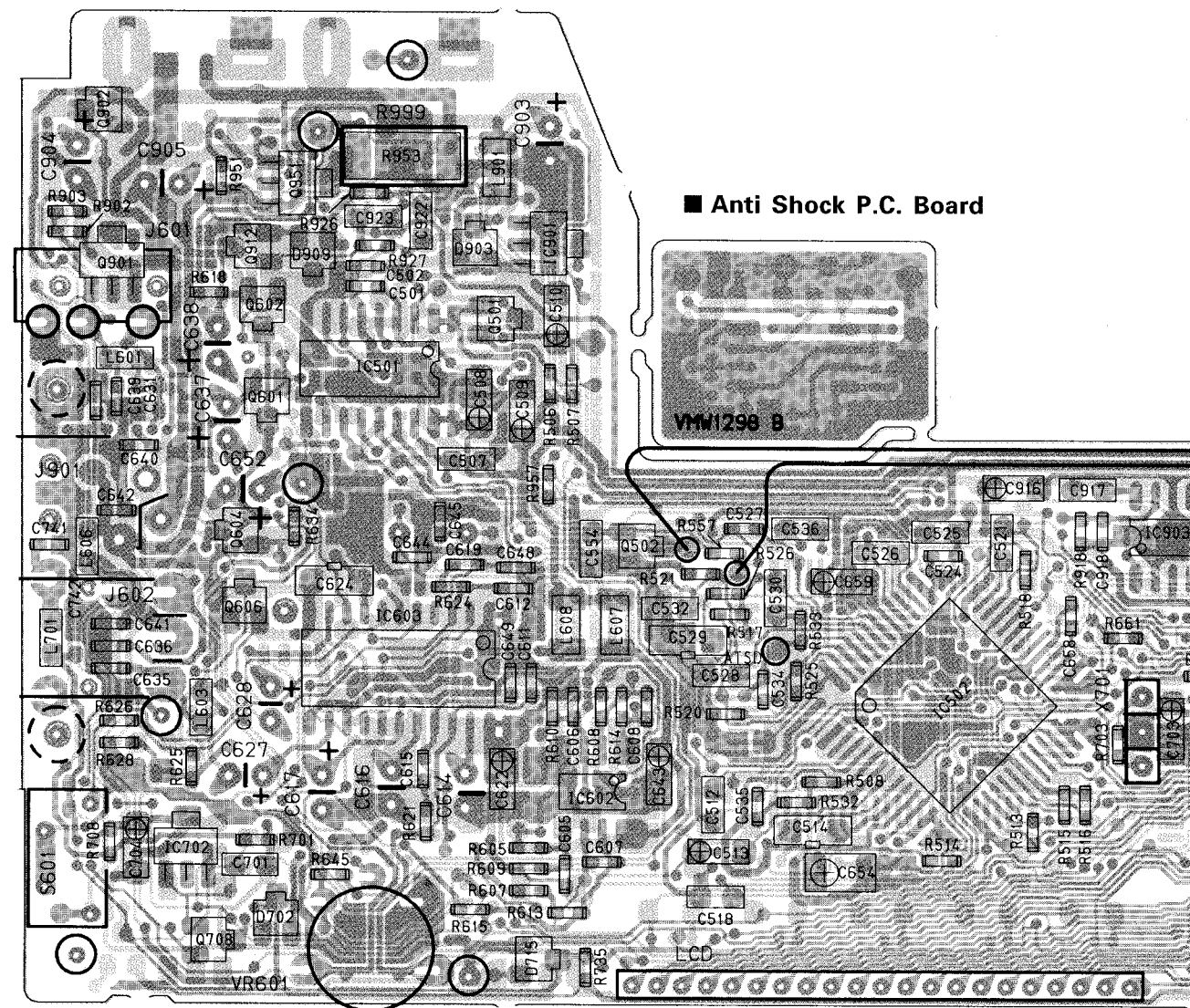
■ Main P.C. Board

(Back Face Side)

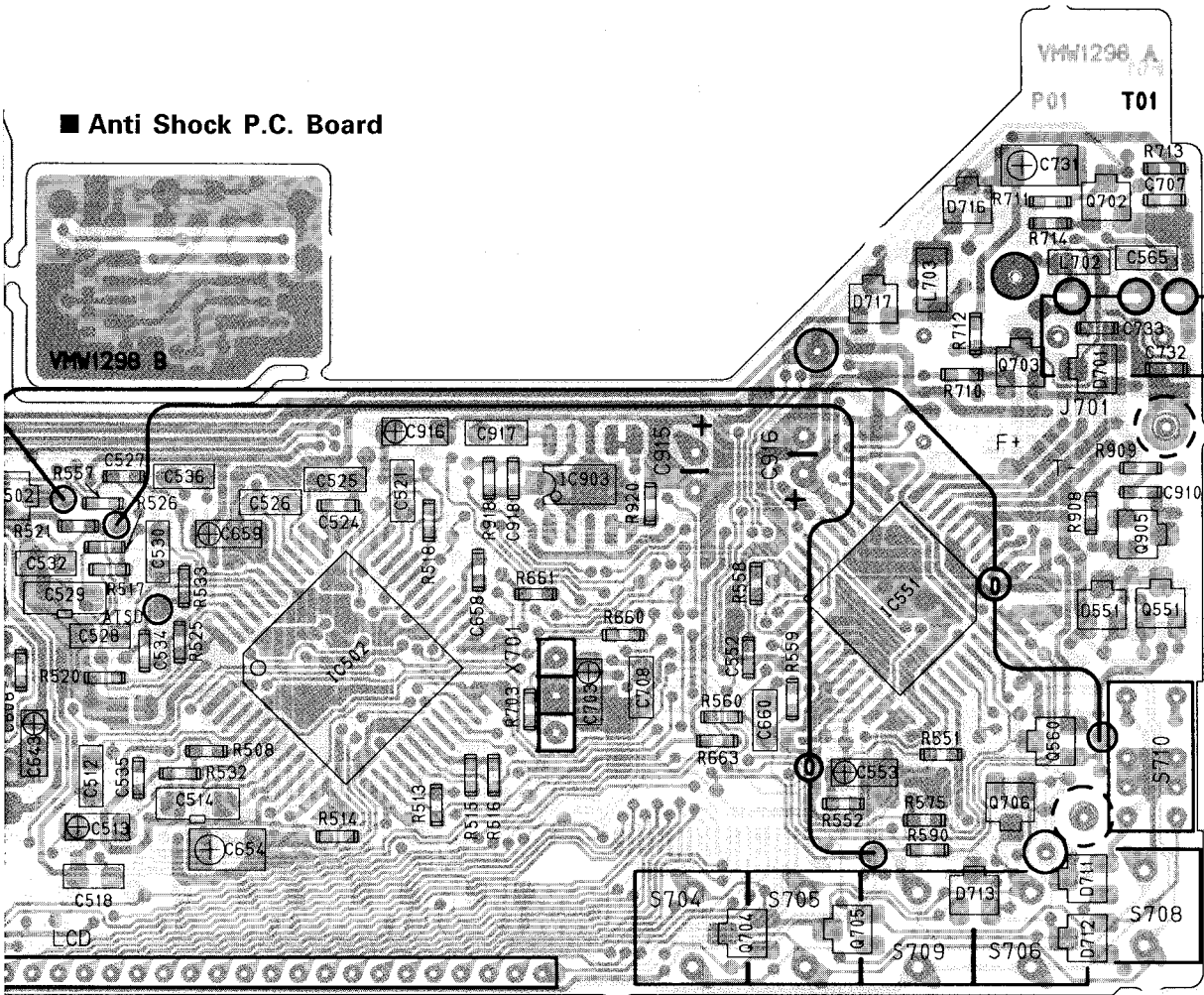
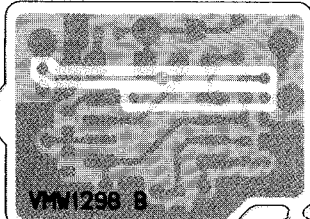
■ Anti Shock P.C. Board



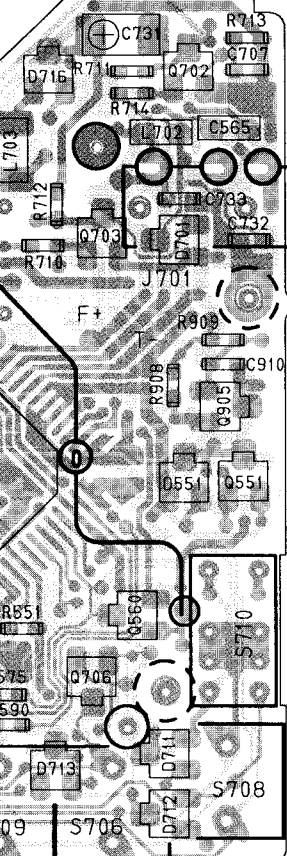
A
B
C
D



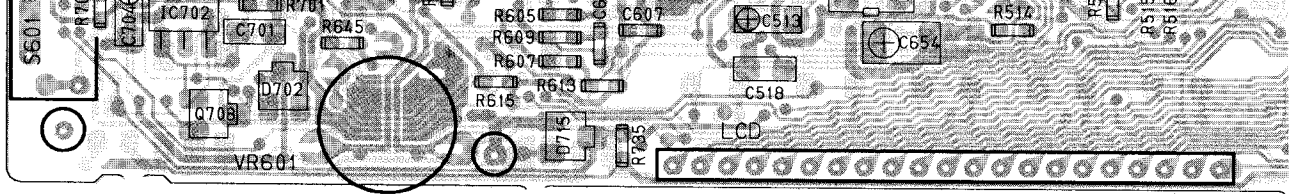
■ Anti Shock P.C. Board



VMW1298 A
P01 T01





D



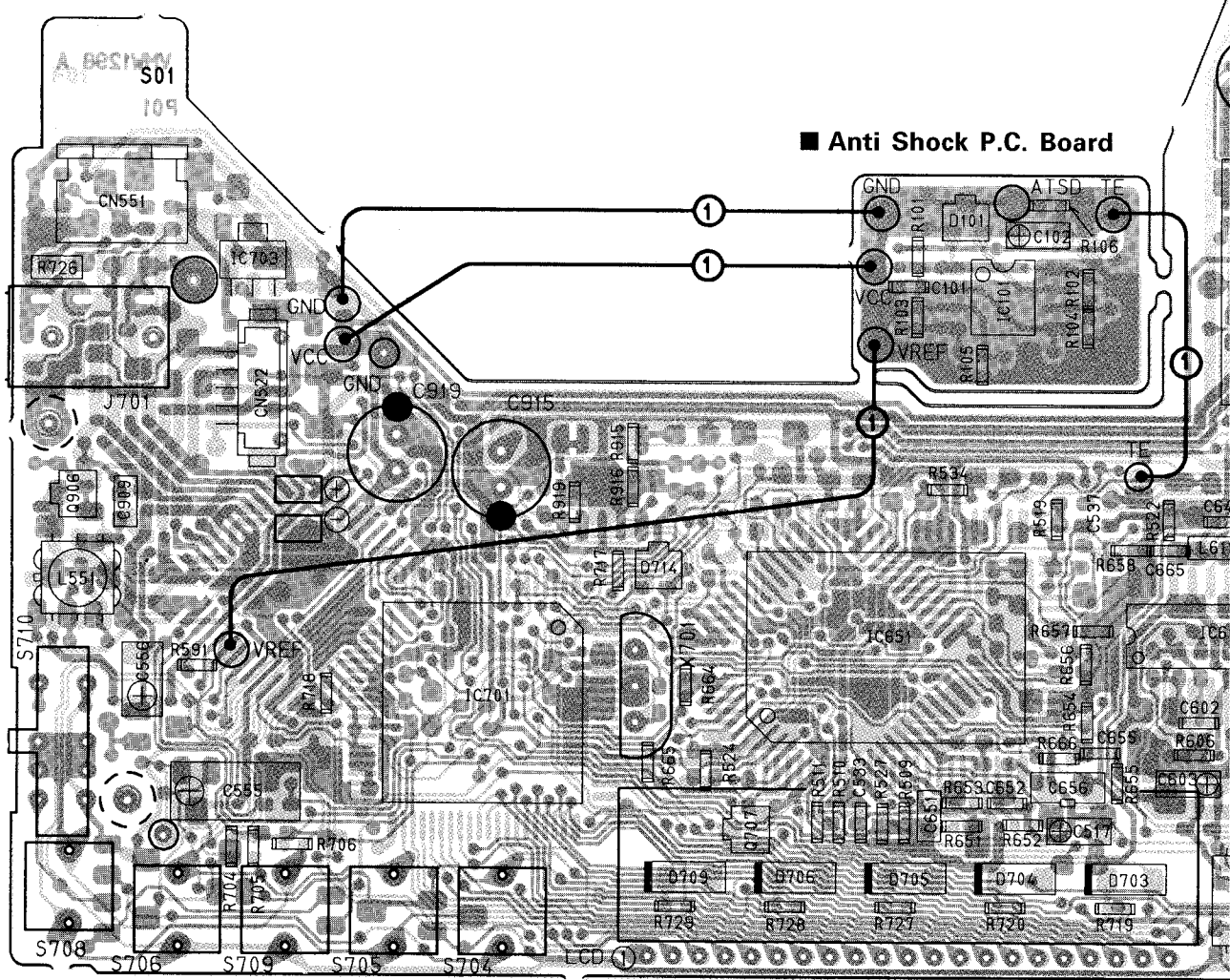
E

(Surface Side)

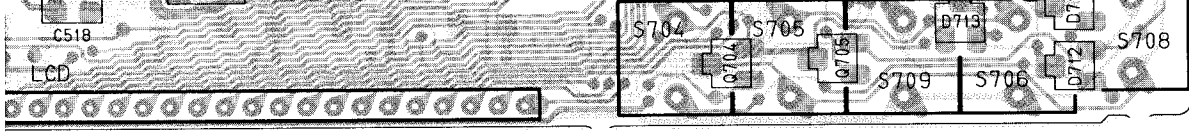
 Back Face Pattern
 Surface Pattern

F

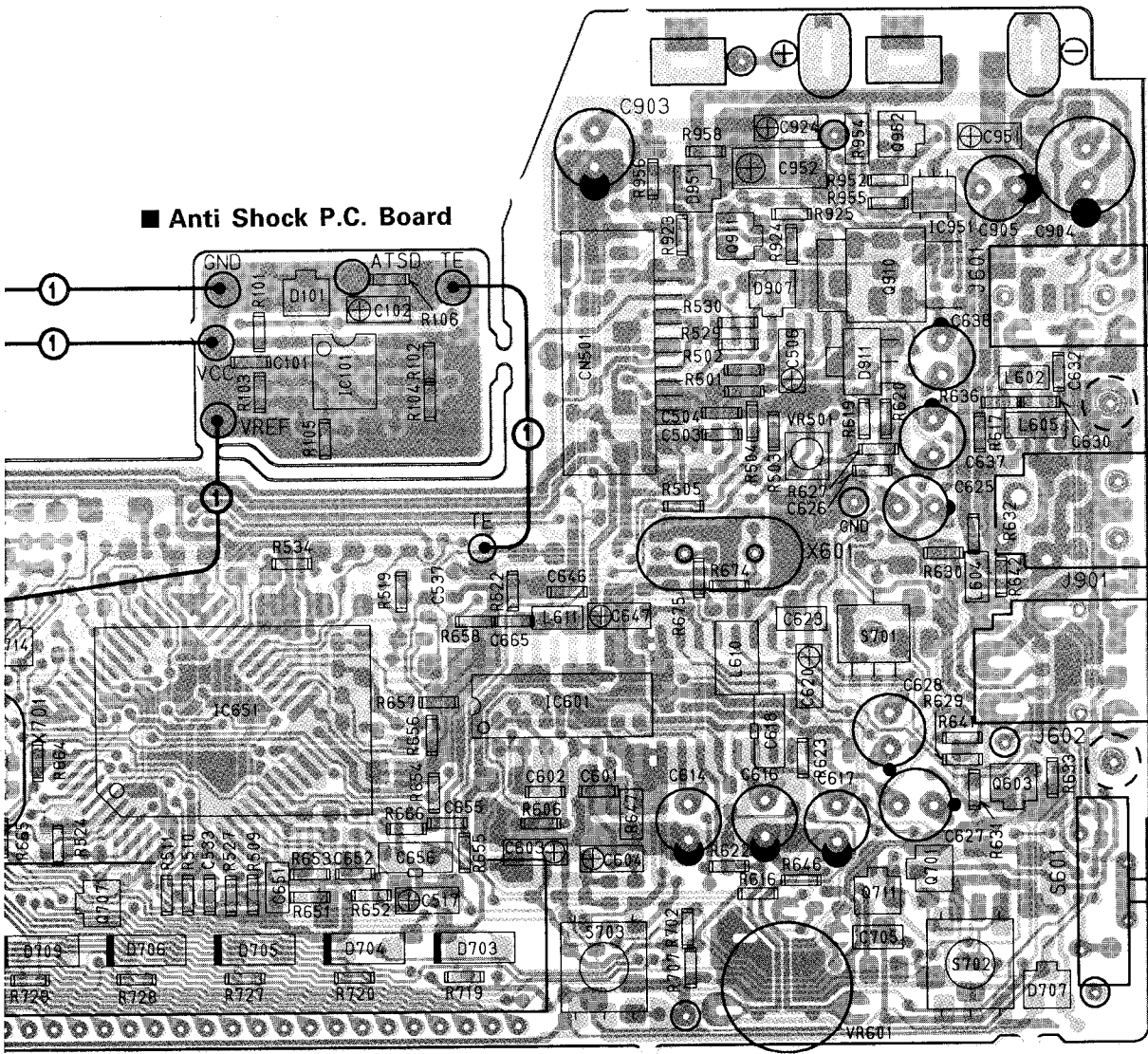
■ Anti Shock P.C. Board



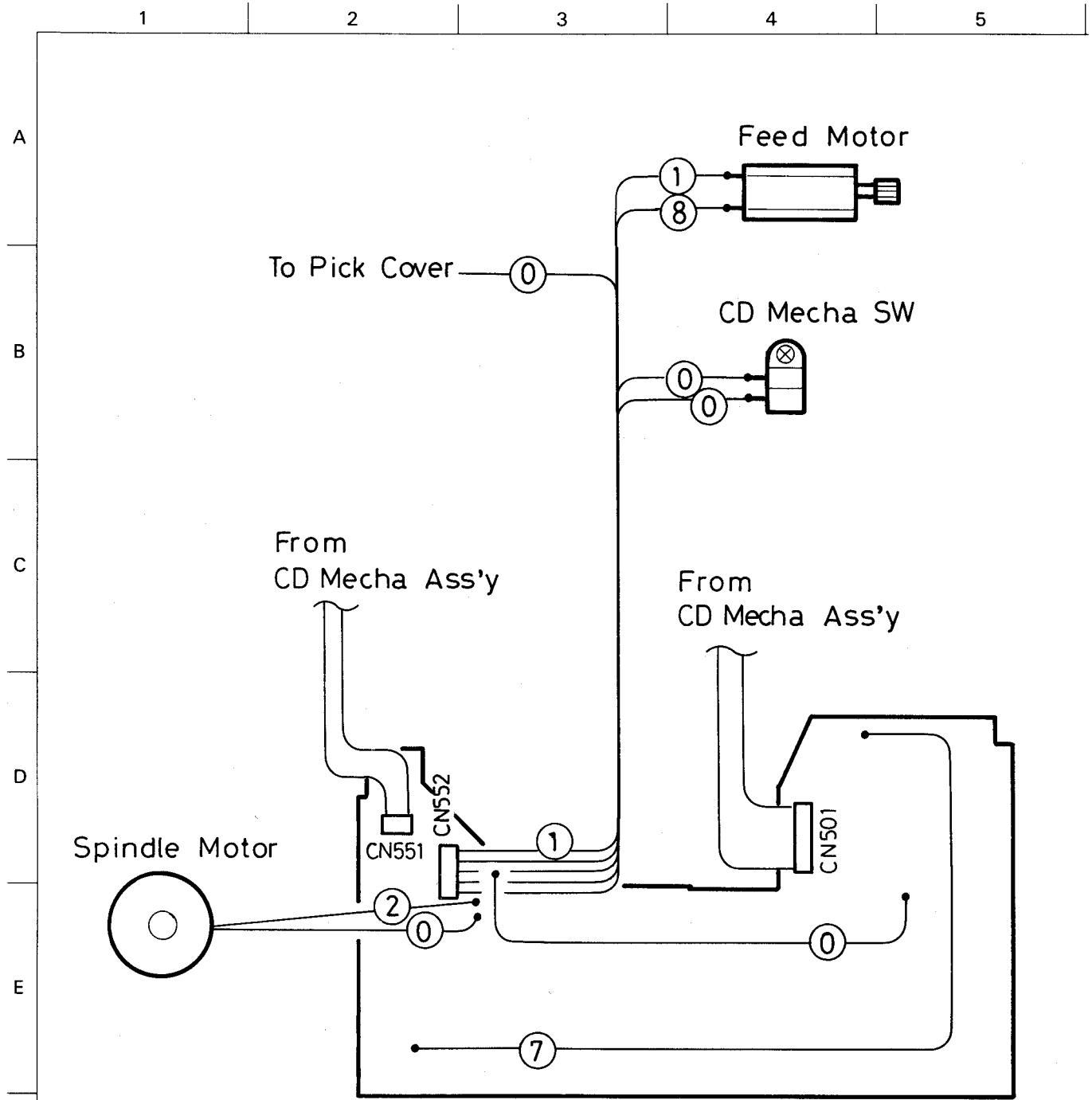
G



■ Anti Shock P.C. Board



11. Wiring Connection



Color codes are shown below.

- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Violet
- 8 Gray
- 9 White
- 0 Black
- D Pink
- C Light Blue

12. Electrical Parts

Main P.C. Board

BLOCK NO. 01111111		BLOCK NO. 01111111		
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 503	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 504	NCB31HK-821AY	C CAPACITOR	820PF 10% 50V	
C 506	ECST0G106R	TS E CAPACITOR	.010MF 10% 50V	
C 507	NCB21HK-103AY	C CAPACITOR		
C 508	ECST0G106R	TS E CAPACITOR		
C 509	ECST0G106R	TS E CAPACITOR		
C 510	NEF11AM-105RY	TS E CAPACITOR	1.0MF 20% 10V	
C 512	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 513	NEF10GM-335RY	TS E CAPACITOR	3.3MF 20%	
C 514	QCF81HZ-104Y	C CAPACITOR	1.0MF +80:-20%	
C 517	NEF11AM-105RY	TS E CAPACITOR	1.0MF 20% 10V	
C 518	NCB21CK-104AY	C CAPACITOR	.10MF 10% 16V	
C 521	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 524	NCB31HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 525	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 526	NCB21HK-123AY	C CAPACITOR	.012MF 10% 50V	
C 527	NCB31HK-222AY	C CAPACITOR	FZC	
C 528	NCB21CK-104AY	C CAPACITOR	FZC	
C 529	QCF81EZ-474YR	C CAPACITOR	TDFCT	
C 530	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 532	NCB21HK-562AY	E CAPACITOR	5600PF 10% 50V	
C 533	NCF31HZ-223AY	C CAPACITOR	.022MF +80:-20%	
C 534	NCB31HK-561AY	C CAPACITOR	560PF 10% 50V	
C 535	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 536	NCI21CH-820AY	C CAPACITOR	82PF +50:-10% 1	
C 537	NCB31HK-221AY	C CAPACITOR	220PF 10% 50V	
C 552	NCB31HK-391AY	C CAPACITOR	390PF 10% 50V	
C 553	NEF11AM-105RY	TS E CAPACITOR	1.0MF 20% 10V	
C 555	QCF80JM-476X	TS E CAPACITOR	47MF 20% 6.3V	
C 556	ECST0JX226R	T.S.E. CAPACITOR		
C 565	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 601	NCB31HJ-121AY	C CAPACITOR	120PF 5% 50V	
C 602	NCB31HJ-121AY	C CAPACITOR	120PF 5% 50V	
C 603	ECST0G106R	TS E CAPACITOR		
C 604	ECST0G106R	TS E CAPACITOR		
C 605	NCB31HK-221AY	C CAPACITOR	220PF 10% 50V	
C 606	NCB31HK-221AY	C CAPACITOR	220PF 10% 50V	
C 607	NCB31HK-221AY	C CAPACITOR	220PF 10% 50V	
C 608	NCB31HK-221AY	C CAPACITOR	220PF 10% 50V	
C 611	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 612	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 614	QER40JM-226	E CAPACITOR	22MF 20% 6.3V	
C 615	NCB31HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 616	QER40JM-226	E CAPACITOR	22MF 20% 6.3V	
C 617	QER40JM-226	E CAPACITOR	22MF 20% 6.3V	
C 618	QCF81HZ-104Y	C CAPACITOR	1.0MF +80:-20%	
C 619	NCB31HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 620	NEF10GM-475RY	TS E CAPACITOR	4.7MF 20%	
C 622	NEF10GM-475RY	TS E CAPACITOR	4.7MF 20%	
C 623	NCB21CK-104AY	C CAPACITOR	1.0MF 10% 16V	
C 624	QCF81CZ-105YA	C CAPACITOR	1.0MF +80:-20%	
C 625	QER40JM-226	E CAPACITOR	22MF 20% 6.3V	
C 626	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 627	QERF0GM-107ZM	E CAPACITOR	100MF 20%	
C 628	QERF0GM-107ZM	E CAPACITOR	100MF 20%	

BLOCK NO. 01111111		BLOCK NO. 01111111		
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 631	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 632	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 635	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 636	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 637	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
C 638	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
C 639	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 641	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 643	ECST0G106R	TS E CAPACITOR		
C 644	NCB31HJ-150AY	C CAPACITOR	15PF 5% 50V	
C 645	NCB31HJ-470AY	C CAPACITOR	47PF 5% 50V	
C 647	NEF10GM-475RY	TS E CAPACITOR	4.7MF 20%	
C 648	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 649	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 651	NCB21HK-473AY	C CAPACITOR	.047MF 10% 50V	
C 652	NCB31HK-152AY	E CAPACITOR	1500PF 10% 50V	
C 654	ECST0GX226R	E CAPACITOR		
C 655	NCB31HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 656	QCY41HK-472	C CAPACITOR	4700PF 10% 50V	
C 658	NCF31HZ-103AY	C CAPACITOR	.010MF +80:-20%	
C 659	ECST0G106R	TS E CAPACITOR		
C 660	NCB21HK-821AY	C CAPACITOR	820PF 10% 50V	
C 665	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 701	NCB21CK-104AY	C CAPACITOR	.10MF 10% 16V	
C 703	NEF11AM-105RY	TS E CAPACITOR	1.0MF 20% 10V	
C 704	NEF10GM-225LY	TS E CAPACITOR	2.2MF 20%	
C 705	NCB21CK-104AY	C CAPACITOR	.10MF 10% 16V	
C 708	NCB21EK-473AY	C CAPACITOR	.047MF 10% 25V	
C 731	ECST0JX106R	T.S.E. CAPACITOR		
C 733	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 741	NCB31HK-101AY	C CAPACITOR	100PF 10% 50V	
C 903	QERF0GM-107ZM	E CAPACITOR	100MF 20%	
C 904	QERF0JM-107ZN	E CAPACITOR	100MF 20% 6.3V	
C 905	QER41CM-106M	E CAPACITOR	10MF 20% 16V	
C 909	QCF81CZ-105YA	C CAPACITOR	1.0MF +80:-20%	
C 910	NCB31HJ-470AY	C CAPACITOR	47PF 5% 50V	
C 915	QERF0JM-107ZN	E CAPACITOR	100MF 20% 6.3V	
C 916	NEF11AM-105RY	TS E CAPACITOR	1.0MF 20% 10V	
C 917	NCB21CK-104AY	C CAPACITOR	.10MF 10% 16V	
C 918	NCB31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 919	VCE031A-336Z	E CAPACITOR	.010MF 10% 50V	
C 922	NCB21HK-103AY	C CAPACITOR	4.7MF 20%	
C 951	NEF10GM-475RY	TS E CAPACITOR	4.7MF 20%	
C 952	QERF0GM-106X	TS.E. CAPACITOR	10MF 20%	
CN501	VNC0237-011-T	FPC CONNECTOR	RF CONNECTOR	
CN551	VNC0168-004-T	FPC CONNECTOR		
D 551	SB05-05CP-HL	S K DIODE		
D 701	HSM2838C	DIODE		
D 702	HSM2838C	DIODE		
D 703	CL-150G-CD	LED	BACK LIGHT	
D 704	CL-150G-CD	LED	BACK LIGHT	
D 705	CL-150G-CD	LED	BACK LIGHT	
D 706	CL-150G-CD	LED	BACK LIGHT	
D 707	MA151WA	SI DIODE		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 603	2SD1048X7T-HL	TRANSISTOR		
	Q 604	2SD1048X7T-HL	TRANSISTOR		
	Q 606	UN2111	TRANSISTOR		
	Q 701	UN2210	TRANSISTOR		
	Q 702	2SD601A(RS)	TRANSISTOR		
	Q 703	2SD601A(RS)	TRANSISTOR		
	Q 704	UN2110	TRANSISTOR		
	Q 705	UN2210	TRANSISTOR		
	Q 706	UN2210	TRANSISTOR		
	Q 707	UN2210	TRANSISTOR		
	Q 708	UN2114	D. TRANSISTOR		
	Q 711	UN2212	TRANSISTOR		
	Q 901	2SB1123(ST)	TRANSISTOR		
	Q 902	UN2211	TRANSISTOR		
	Q 905	2SD1328(S,T)	TRANSISTOR		
	Q 906	2SD1048X7T-HL	TRANSISTOR		
	Q 910	2SB962Z(Q-E)	TRANSISTOR		
	Q 911	2SD601A(RS)	TRANSISTOR		
	Q 912	2SD601A(RS)	TRANSISTOR		
	Q 951	2SD1623(T)	TRANSISTOR		
	Q 952	2SC3661	TRANSISTOR		
	R 501	NRSA63J-183NY	MG RESISTOR	18K 5%	
	R 502	NRSA63J-183NY	MG RESISTOR	18K 5%	
	R 503	NRSA63J-223NY	MG RESISTOR	22K 5%	
	R 504	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 505	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 506	NRSA63J-220NY	MG RESISTOR	22 5%	
	R 507	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 508	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 509	NRSA63J-124NY	MG RESISTOR	120K 5%	
	R 510	NRSA63J-334NY	MG RESISTOR	330K 5%	
	R 511	NRSA63J-683NY	MG RESISTOR	68K 5%	
	R 513	NRSA63J-124NY	MG RESISTOR	120K 5%	
	R 514	NRSA63J-514NY	MG RESISTOR	510K 5%	
	R 515	NRSA63J-394NY	MG RESISTOR	390K 5%	
	R 516	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 517	NRSA63J-332NY	MG RESISTOR	3.3K 5%	
	R 518	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 519	NRSA63J-223NY	MG RESISTOR	22K 5%	
	R 520	NRSA63J-102NY	MG RESISTOR	100K 5%	
	R 521	NRSA63J-472NY	MG RESISTOR	ATSC	
	R 522	NRSA63J-183NY	MG RESISTOR	ATSC	
	R 524	NRSA63J-822NY	MG RESISTOR	8.2K 5%	
	R 525	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 526	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 527	NRSA63J-154NY	MG RESISTOR	150K 5%	
	R 531	NRSA63J-564NY	MG RESISTOR	560K 5%	
	R 532	NRSA63J-ORONY	MG RESISTOR	5%	
	R 533	NRSA63J-564NY	MG RESISTOR	560K 5%	
	R 534	NRSA63J-392NY	MG RESISTOR	3.9K 5%	
	R 551	NRSA63J-684NY	MG RESISTOR	680K 5%	
	R 552	NRSA63J-824NY	MG RESISTOR	820K 5%	
	R 557	NRSA63J-ORONY	MG RESISTOR	5%	
	R 558	NRSA63J-333NY	MG RESISTOR	33K 5%	
	R 559	NRSA63J-124NY	MG RESISTOR	120K 5%	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 709	CL-150G-CD	LED	BACK LIGHT	
	D 711	HSM2838C	DIODE		
	D 712	HSM2838C	DIODE		
	D 713	HSM2838C	DIODE		
	D 714	SB007-03CP-HL	S K DIODE		
	D 715	RD13M(B1)	Z DIODE		
	D 716	SB05-05CP-HL	S K DIODE		
	D 717	DCC010	SI DIODE		
	D 903	SB05-05CP-HL	S K DIODE		
	D 907	RD3.3M(B1)	Z DIODE		
	D 909	MA153X	DIODE		
	D 911	SB10-05PCP	S K DIODE		
	D 951	SB007-03CP-HL	S K DIODE		
	IC501	CXA1421M	IC	FPC22PIN	
	IC502	CXA1372Q	IC	FPC48PIN	
	IC503	CXD2500BQ	IC	FPC80PIN	
	IC551	LB8106M	IC	DAC	
	IC601	TC9276F(ELP)	D/A CONVERTER	LINE AMP	
	IC602	NJM2100M	IC	HEADPHONE AMP	
	IC603	BA3570F	IC	FPC80PIN	
	IC651	CXD2500BQ	IC	CPU	
	IC701	HD404818A15H	IC	RESET	
	IC702	S-80718AN-DF	IC	DC/DC CONV	
	IC703	RH5RC501A	IC	DC/DC CONV	
	IC901	RH5RC351A	IC	LINE OUT	
	IC951	NJM2406F	IC	H.P JACK	
	J 601	VMJ4022-002	JACK		
	J 602	J-EC385AGMB2	JACK		
	J 701	VMJ4022-002	JACK		
	J 901	QMA231B-V01	DC JACK		
	L 551	VM2006-001	OSC COIL(BIAS)		
	L 554	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
	L 601	VRP1007-270Y	INDUCTOR		
	L 602	VRP1007-270Y	INDUCTOR		
	L 603	VRP1007-270Y	INDUCTOR		
	L 604	VRP1007-270Y	INDUCTOR		
	L 605	VRP1003-270Y	INDUCTOR		
	L 606	VRP1007-270Y	INDUCTOR		
	L 607	VRP0032-221Y	INDUCTOR		
	L 608	VRP0032-221Y	INDUCTOR		
	L 610	VRZ0068-001X	INDUCTOR		
	L 611	VRP1007-270Y	INDUCTOR		
	L 701	VRP1007-487Z	INDUCTOR		
	L 702	VRP1007-487Z	INDUCTOR		
	L 703	VRP0032-221Y	INDUCTOR		
	L 901	VRP0032-221Y	INDUCTOR		
	L 904	VQH2036-001T	OSC COIL(BIAS)		
	LCD	VGL1109-001	LCD		
	Q 501	2SB81597-T-HL	TRANSISTOR		
	Q 502	UN2215	TRANSISTOR		
	Q 551	2SB81597-T-HL	TRANSISTOR		
	Q 560	UN2112	TRANSISTOR		
	Q 601	2SD1048X7T-HL	TRANSISTOR		
	Q 602	2SD1048X7T-HL	TRANSISTOR		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 666	NRSA63J-ORONY	MG RESISTOR	5%	
	R 674	NRSA63J-105NY	MG RESISTOR	1.0M 5%	
	R 675	NRSA63J-331NY	MG RESISTOR	330 5%	
	R 701	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 702	NRSA63J-333NY	MG RESISTOR	33K 5%	
	R 703	NRSA63J-105NY	MG RESISTOR	1.0M 5%	
	R 704	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 705	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 706	NRSA63J-224NY	MG RESISTOR	220K 5%	
	R 707	NRSA63J-334NY	MG RESISTOR	330K 5%	
	R 708	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 710	NRSA63J-223NY	MG RESISTOR	22K 5%	
	R 711	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 712	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 713	NRSA63J-223NY	MG RESISTOR	22K 5%	
	R 714	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 717	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 718	NRSA63J-105NY	MG RESISTOR	1.0M 5%	
	R 719	NRSA63J-271NY	MG RESISTOR	270 5%	
	R 720	NRSA63J-271NY	MG RESISTOR	270 5%	
	R 726	NRSA63J-101NY	MG RESISTOR	100 5%	
	R 727	NRSA63J-271NY	MG RESISTOR	270 5%	
	R 728	NRSA63J-271NY	MG RESISTOR	270 5%	
	R 729	NRSA63J-271NY	MG RESISTOR	270 5%	
	R 735	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 902	NRSA63J-393NY	MG RESISTOR	39K 5%	
	R 903	NRSA63J-221NY	MG RESISTOR	220 5%	
	R 908	NRSA63J-222NY	MG RESISTOR	2.2K 5%	
	R 909	NRSA63J-100NY	MG RESISTOR	10 5%	
	R 915	NRSA63J-393NY	MG RESISTOR	39K 5%	
	R 916	NRSA63J-562NY	MG RESISTOR	5.6K 5%	
	R 918	NRSA63J-182NY	MG RESISTOR	1.8K 5%	
	R 919	NRSA63J-104NY	MG RESISTOR	10K 5%	
	R 920	NRSA63J-182NY	MG RESISTOR	1.8K 5%	
	R 922	NRSA63J-104NY	MG RESISTOR	10K 5%	
	R 924	NRSA63J-332NY	MG RESISTOR	3.3K 5%	
	R 925	NRSA63J-472NY	MG RESISTOR	4.7K 5%	
	R 926	NRSA63J-101NY	MG RESISTOR	100 5%	
	R 927	NRSA63J-ORONY	MG RESISTOR	5%	
	R 951	NRSA63J-101NY	MG RESISTOR	100 5%	
	R 952	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 953	NRS016J-1RONZM	MG RESISTOR	1.0 5% 1W	
	R 954	NRS02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 955	NRSA63J-105NY	MG RESISTOR	1.0M 5%	
	R 956	NRSA63J-822NY	MG RESISTOR	8.2K 5%	
	R 957	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 958	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 999	NRS016J-1RONZM	MG RESISTOR	1.0 5% 1W	
	S 601	QSS4113-V01	SLIDE SW	SUPER BASS SW	
	S 701	QSP2K11-V02	PUSH SWITCH	OPEN/CLOSE	
	S 702	QSP1A11-V16Y	TACT SW		
	S 703	QSP1A11-V16Y	TACT SW		
	S 704	QSQ4H11-V01	TACT SWITCH		
	S 705	QSQ4H11-V01	TACT SWITCH		
	S 706	QSQ4H11-V01	TACT SWITCH		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 560	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 575	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 590	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 591	NRSA63J-682NY	MG RESISTOR	6.8K 5%	
	R 601	NRSA63J-ORONY	MG RESISTOR	5%	
	R 602	NRSA63J-ORONY	MG RESISTOR	5%	
	R 603	NRSA63J-ORONY	MG RESISTOR	5%	
	R 604	NRSA63J-ORONY	MG RESISTOR	5%	
	R 605	NRSA63J-203NY	MG RESISTOR	20K 5%	
	R 606	NRSA63J-203NY	MG RESISTOR	20K 5%	
	R 607	NRSA63J-203NY	MG RESISTOR	20K 5%	
	R 608	NRSA63J-203NY	MG RESISTOR	20K 5%	
	R 609	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 610	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 613	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 614	NRSA63J-153NY	MG RESISTOR	15K 5%	
	R 615	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 616	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 617	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 618	NRSA63J-473NY	MG RESISTOR	47K 5%	
	R 619	NRSA63J-152NY	MG RESISTOR	1.5K 5%	
	R 620	NRSA63J-152NY	MG RESISTOR	1.5K 5%	
	R 621	NRSA63J-185NY	MG RESISTOR	18K 5%	
	R 622	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 623	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 624	NRSA63J-183NY	MG RESISTOR	18K 5%	
	R 625	NRSA63J-682NY	MG RESISTOR	6.8K 5%	
	R 626	NRSA63J-472NY	MG RESISTOR	4.7K 5%	
	R 627	NRSA63J-105NY	MG RESISTOR	1.0M 5%	
	R 628	NRSA63J-ORONY	MG RESISTOR	5%	
	R 629	NRSA63J-220NY	MG RESISTOR	22 5%	
	R 630	NRSA63J-220NY	MG RESISTOR	22 5%	
	R 631	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 632	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 633	NRSA63J-152NY	MG RESISTOR	1.5K 5%	
	R 634	NRSA63J-152NY	MG RESISTOR	1.5K 5%	
	R 636	NRSA63J-221NY	MG RESISTOR	220 5%	
	R 641	NRSA63J-100NY	MG RESISTOR	10 5%	
	R 642	NRSA63J-100NY	MG RESISTOR	10 5%	
	R 645	NRSA63J-273NY	MG RESISTOR	27K 5%	
	R 646	NRSA63J-273NY	MG RESISTOR	27K 5%	
	R 647	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
	R 651	NRSA63J-332NY	MG RESISTOR	3.3K 5%	
	R 652	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 653	NRSA63J-332NY	MG RESISTOR	3.3K 5%	
	R 654	NRSA63J-103NY	MG RESISTOR	10K 5%	
	R 655	NRSA63J-104NY	MG RESISTOR	100K 5%	
	R 656	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 657	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 658	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 660	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 661	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 663	NRSA63J-562NY	MG RESISTOR	5.6K 5%	
	R 664	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
	R 665	NRSA63J-ORONY	MG RESISTOR	5%	

■ Anti Shock P.C. Board

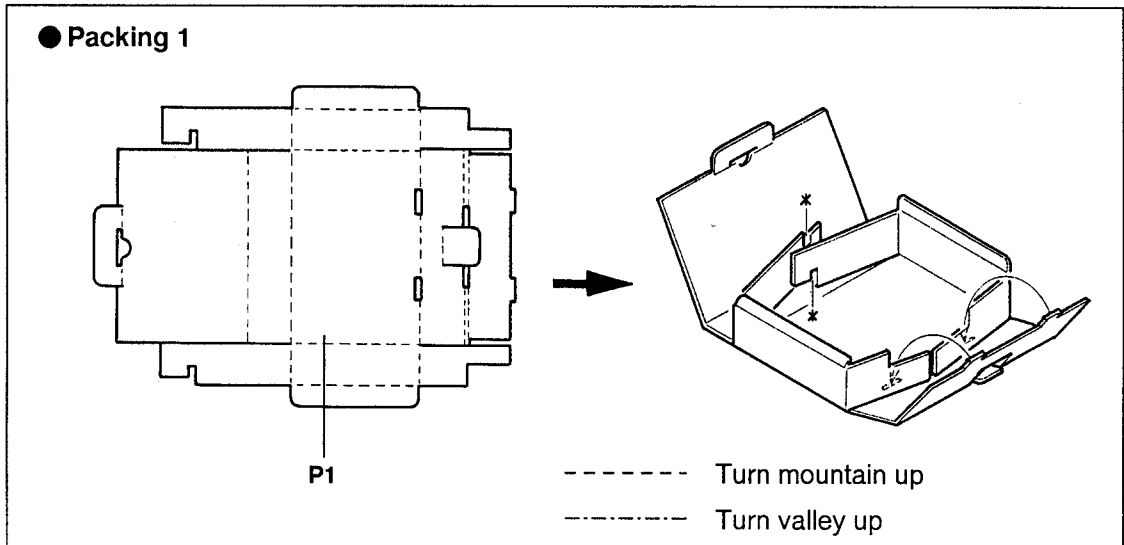
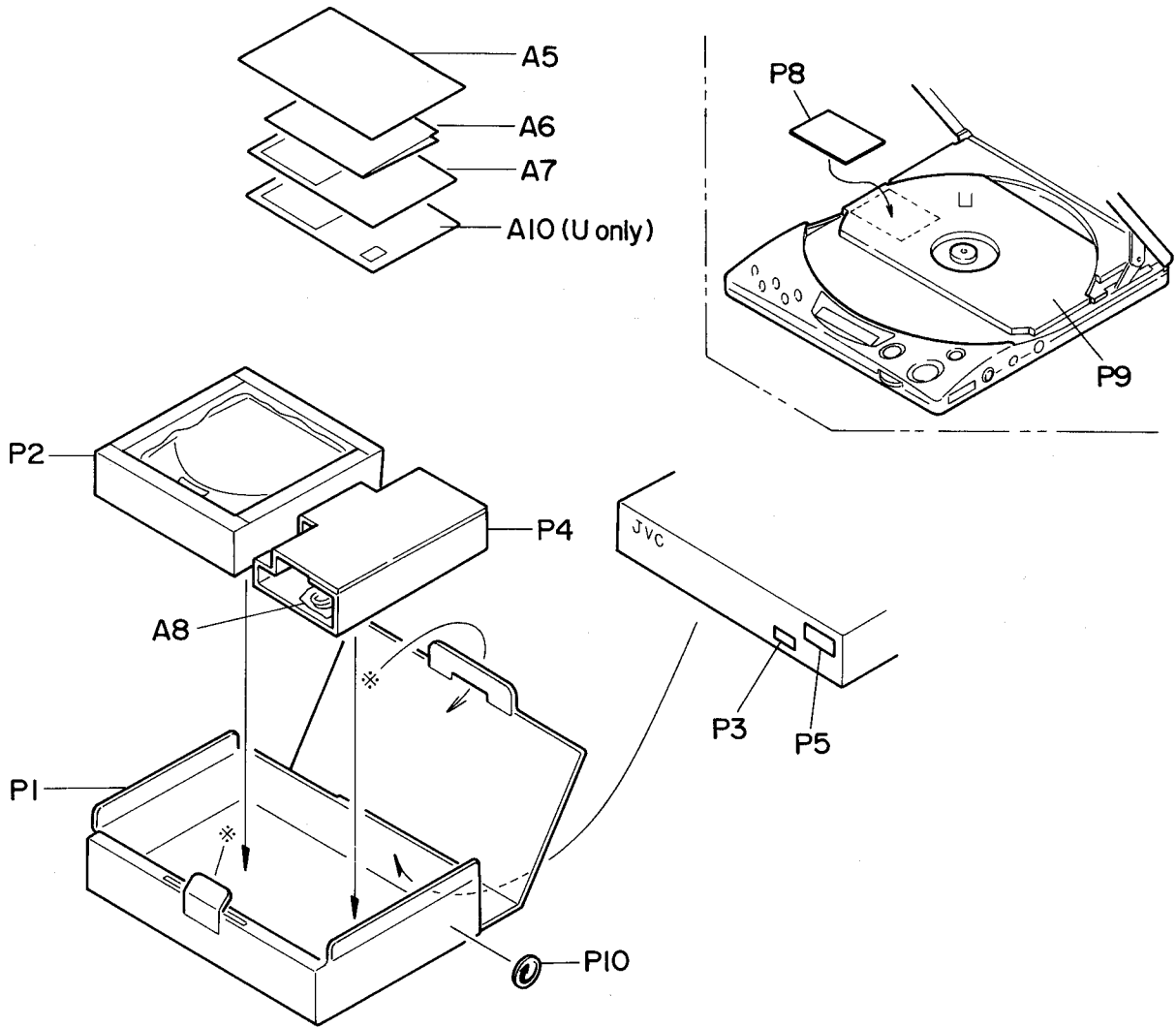
BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 101	NCS31HJ-331AY	CER. CAPACITOR-M	330PF 5% 50V	
D 102	NEF11AW-103RY	TA E. CAPACITOR	1.0MF 20% 10V	
D 101	HSN2838C	D		
IC101	BA4510F	IC		
R 101	NRSA63J-334NY	M.G. RESISTOR	330K 5%	
R 102	NRSA63J-154NY	M.G. RESISTOR	150K 5%	
R 103	NRSA63J-154NY	M.G. RESISTOR	150K 5%	
R 104	NRSA63J-473NY	M.G. RESISTOR	47K 5%	
R 105	NRSA63J-473NY	M.G. RESISTOR	47K 5%	
R 106	NRSA63J-562NY	M.G. RESISTOR	5.6K 5%	

BLOCK NO. 01

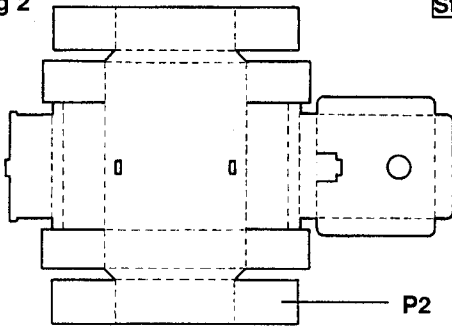
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
S 708	QSG4H11-V01	TACT SWITCH		
S 709	QSG4H11-V01	TACT SWITCH		
S 710	QSS4123-V01	SLIDE SW	HOLD & RESUME	
VR501	NVP1310-223NY	SEMI.V. RESISTOR	EF BALANCE	
VR601	VCV1001-157	V RESISTOR	MAIN VOLUME	
X 601	VCX5016-934V	CERA LOCK		
X 701	CST4.19MGW	CERA LOCK		

13. Illustration of Packing and Parts List

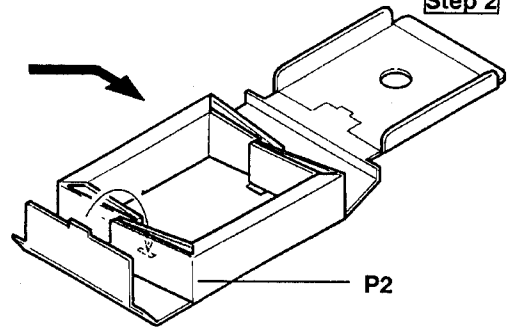


● Packing 2

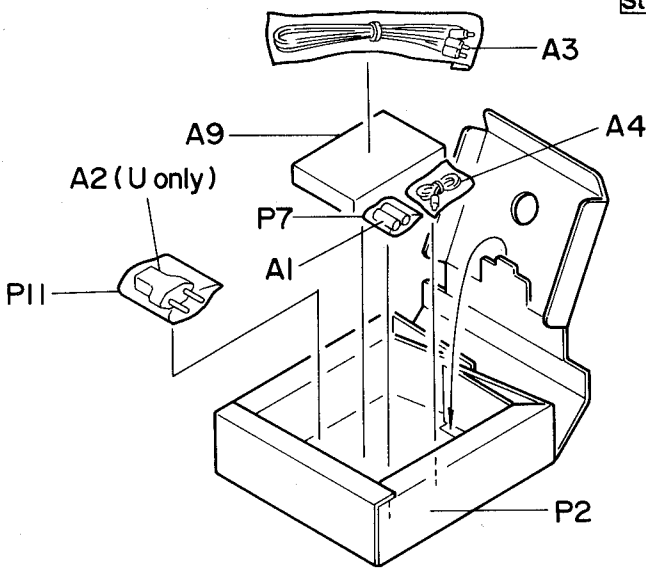
Step 1



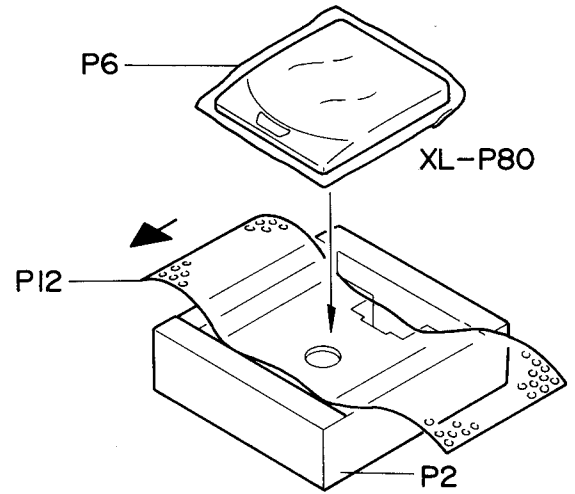
Step 2



Step 3

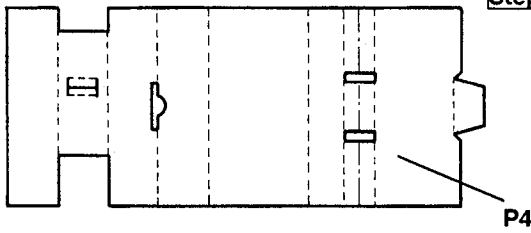


Step 4

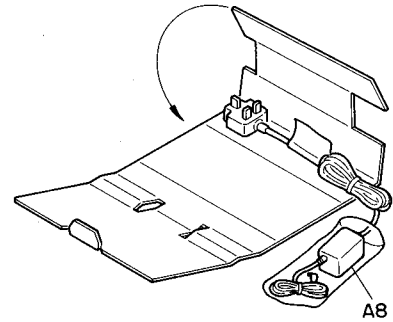


● Packing 3

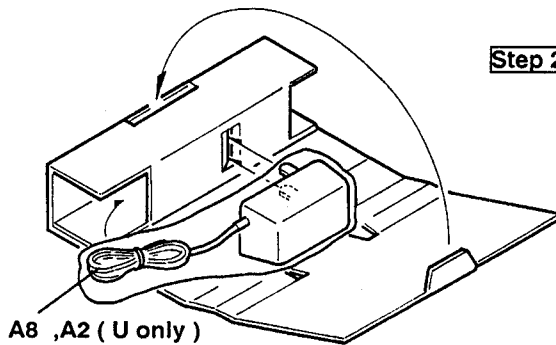
Step 1



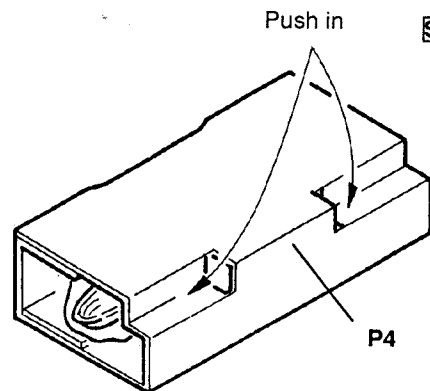
Step 2
(B only)



Step 2



Step 3



■ Packing Parts List

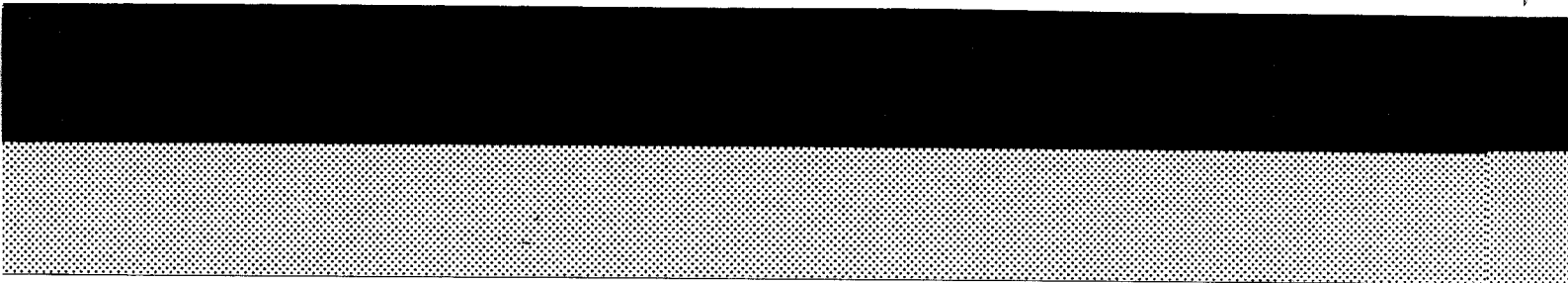
BLOCK NO. M3MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P 1	VPC9203-601	CARTON		1	J,C	
	VPC9203-501	CARTON		1	B,E,G,U,EN	
P 2	VPK3268-001	PACKING CASE		1		
P 3	VND4976-001	CAUTION LABEL	CARTON	1	J	
P 4	VPK3269-001	PACKING HOLDER		1	C,EN,E,G	
P 5	VPK3298-001	PACKING HOLDER		1	U,B	
	VND3046-003	NUMBER LABEL		1	E	
	VND3046-005	NUMBER LABEL		1	G	
	VND3046-006	NUMBER LABEL		1	C	
	VND3046-004	NUMBER LABEL		1	B	
	VND3046-002	NUMBER LABEL		1	J	
P 6	VND3046-001	NUMBER LABEL		1	U,EN	
P 6	QPGA015-02503	POLY BAG	FOR SET	1		
P 7	QPGA008-01205	POLY BAG	BATTERY	1		
P 8	VND4333-002	CAUTION LABEL		1		
P 9	VPK4270-001	CUSHION SHEET		1		
P 10	QZLA001-011	APPROVAL MARK	CARTON	1	EN	
P 11	QPGA008-01205	POLY BAG	FOR AC PLUG	1	U	
P 12	VPK4199-004	PACKING CUSHION		1		

■ Accessories

BLOCK NO. M4MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	VGZ0069-002	BATTERY		2	J,C	
	VGZ0067-001	BATTERY		2	U,E,G,B,EN	
A 2	V04062-001	AC PLUG		1	U	
A 3	VMP0109-001	LINE CORD		1		
A 4	VJY4038-00B	HEAD PHONE		1	J,E,B,G,C	
	VJY4041-00A	HEADPHONE		1	U	
A 5	VNC1200-080	INST.SHEET		1		
	VNN9203-611	INSTRUCTIONS		1	C,J	
	VNN9203-111	INSTRUCTIONS		1	U	
	VNN9203-251	INSTRUCTIONS		1	B,EN	
	VNN9203-261	INSTRUCTIONS		1	G,E,EN	
	VNN9203-271	INSTRUCTIONS		1	EN	
A 6	BT-20135	WARRANTY CARD		1	G	
	BT-20047F	WARRANTY CARD		1	J,U	
	BT-20025K	WARRANTY CARD		1	C	
A 7	BT-20137	SERVICE NETWORK		1	J,U	
	BT-20071B	SVC CENTRE LIST		1	C	
	VNC5311-204	CAUTION CARD		1	U	
	VNC5311-203	CAUTION CARD		1	U	
	E43486-340B	SAFETY SHEET		1	B	
	BT20060	GUARANTY CARD		1	B	
A 8	BT-20066A	WARRANTY CARD		1	B	
	VGB0045-009	AC ADAPTOR		1	J,C	
	VGB0045-012	AC ADAPTOR		1	U	
	VGB0045-010	AC ADAPTOR		1	E,G	
	VGB0045-011BS	AC ADAPTOR		1	B	
A 9	VGA4011-001	CASSET.ADAPTOR		1	J,C	
A 10	VNC5311-204	CAUTION CARD		1	U	
	VNC5311-203	CAUTION CARD		1	U	



JVC

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