

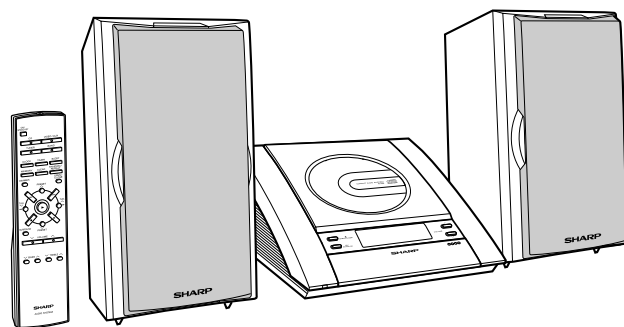
SHARP SERVICE MANUAL

No. S6242XL1500W/

COMPACT AUDIO SYSTEM

MODEL XL-1500W

XL-1500W Compact Audio System consisting of XL-1500W (main unit) and CP-XL1500H (speaker system).



• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

	Page
SAFETY PRECAUTION FOR SERVICE MANUAL	2
VOLTAGE SELECTION	2
AC POWER CORD AND PLUG ADAPTOR	2
SPECIFICATIONS	3
NAMES OF PARTS	4
OPERATION MANUAL	6
DISASSEMBLY	8
REMOVING AND REINSTALLING THE MAIN PARTS	10
ADJUSTMENT	11
TEST MODE	12
NOTES ON SCHEMATIC DIAGRAM	19
TYPES OF TRANSISTOR AND LED	19
WAVEFORMS OF CD CIRCUIT	20
BLOCK DIAGRAM	21
SCHEMATIC DIAGRAM	24
WIRING SIDE OF P.W.BOARD	32
TROUBLESHOOTING	36
FUNCTION TABLE OF IC	42
LCD SEGMENT	44
PARTS GUIDE/EXPLODED VIEW	

SAFETY PRECAUTION FOR SERVICE MANUAL

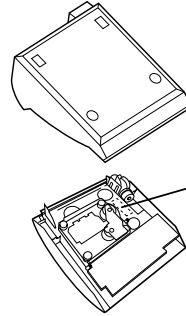
This product is classified as a CLASS 1 LASER PRODUCT.

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output is less than Class 1 but the laser component is capable of emitting radiation exceeding the limit for Class 1. Therefore it is important that the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

- (1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
- (2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
- (3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
- (4) Under no circumstances look directly into the Pickup Lens at any time.
- (5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties
 Material: GaAlAs
 Wavelength: 780 nm
 Emission Duration: continuous
 Laser Output: max. 0.6 mW

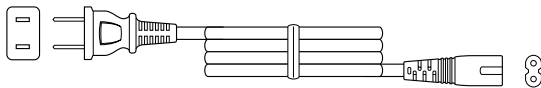


VOLTAGE SELECTION

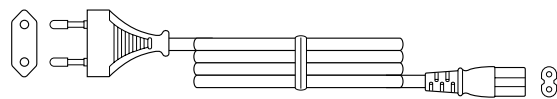
Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows, Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

AC POWER CORD AND PLUG ADAPTOR

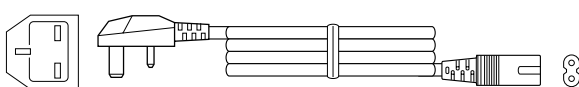
QACCA0002SJ00



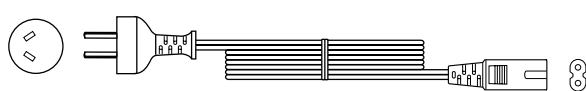
QACCE0002SJZZ



QACCB0003SJ00



QACCL0002SJ00



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

■ General

Power source	AC 110, 127, 220, 230 - 240 V, 50/60 Hz
Power consumption	30 W
Dimensions	Width: 226 mm (8-15/16") Height: 145 mm (5-3/4") Depth: 292 mm (11-1/2")
Weight	3.3 kg (7.3 lbs.)

■ Amplifier

Output power	MPO: 30 W (15 W + 15 W) (10 % T.H.D.) RMS: 20 W (10 W + 10 W) (10 % T.H.D.)
Output terminals	Speakers: 8 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) CD digital output (optical)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms

■ CD player

Type	Compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

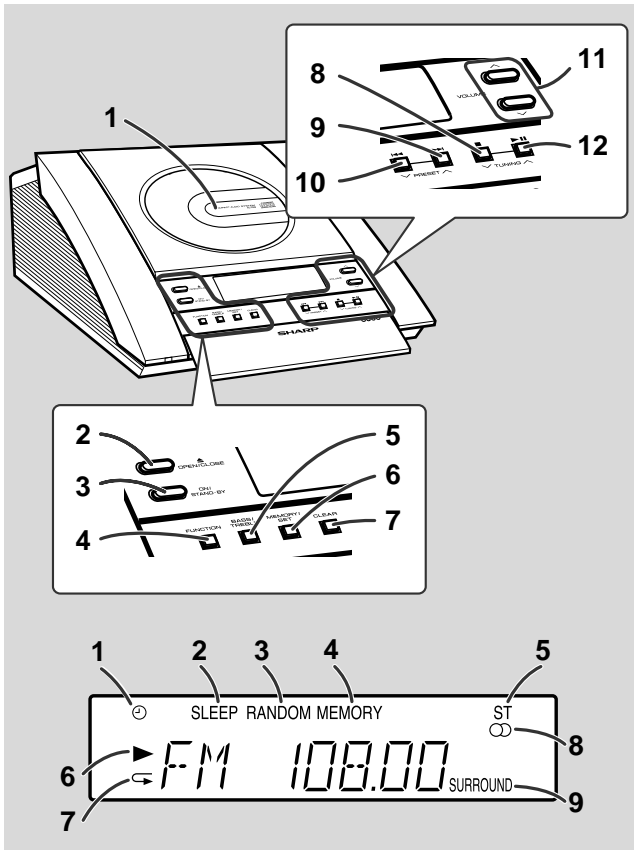
Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz
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■ Speaker

Type	2-way type speaker system Tweeter 10 cm (4") Woofer
Maximum input power	20 W
Rated input power	10 W
Impedance	8 ohms
Dimensions	Width: 146 mm (5-3/4") Height: 267 mm (10-9/16") Depth: 186 mm (7-3/8")
Weight	1.5 kg (3.3 lbs.)/each

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS



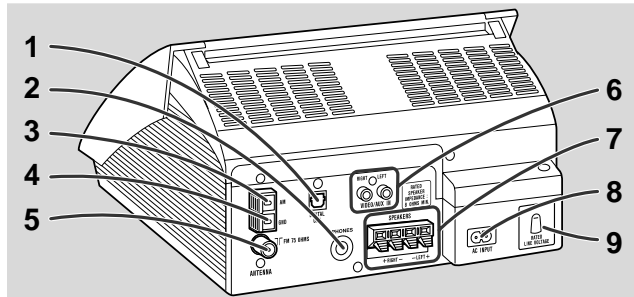
■ Front panel

1. CD Compartment
2. CD Open/Close Button
3. On/Stand-by Button
4. Function Selector Button
5. Bass/Treble Selector Button
6. Memory/Set Button
7. Clear Button
8. CD Stop, Tuning Down Button
9. CD Track Up or Fast Forward, Tuner Preset Up Button
10. CD Track Down or Fast Reverse, Tuner Preset Down Button
11. Volume Up and Down Buttons
12. CD Play or Pause, Tuning Up Button

■ Display

1. Timer Play Indicator
2. Sleep Indicator
3. CD Random Play Indicator
4. Memory Indicator
5. FM Stereo Mode Indicator
6. CD Play Indicator
7. CD Repeat Play Indicator
8. FM Stereo Receiving Indicator
9. Surround Indicator

■ Rear panel



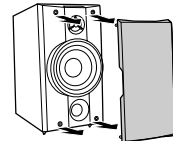
1. CD Digital Output Socket
2. Headphone Socket
3. AM Aerial Terminal
4. Aerial Earth Terminal
5. FM 75 Ohms Aerial Socket
6. Video/Auxiliary (Audio Signal) Input Sockets
7. Speaker Terminals
8. AC Power Input Socket
9. AC Voltage Selector

■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Terminals

Speaker grilles are removable:

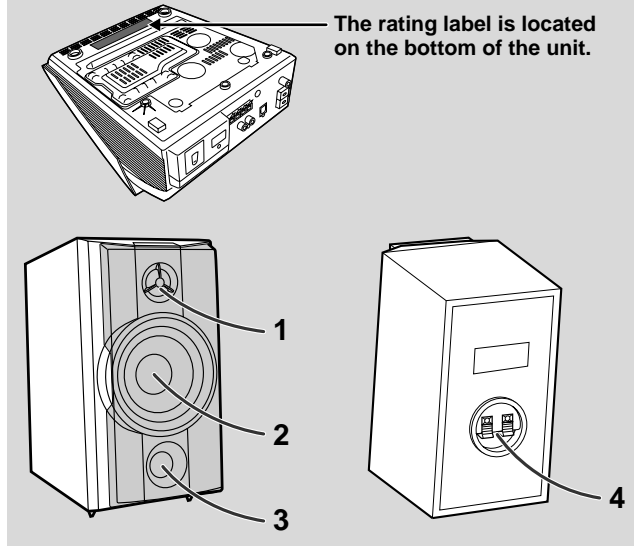
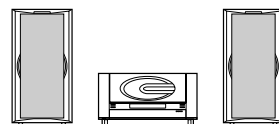
Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.

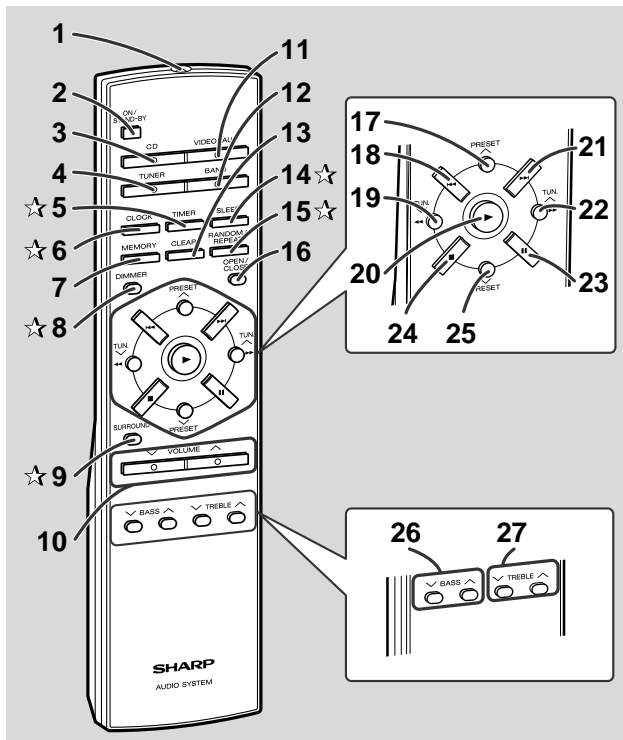


Placing the speaker system:

There is no distinction between the right and the left speakers.

Left speaker Right speaker





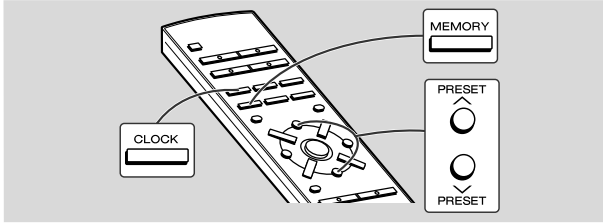
■ Remote control

- 1. Remote Control Transmitter
- 2. On/Stand-by Button
- 3. CD Button
- 4. Tuner Button
- 5. **Timer Button**
- 6. **Clock Button**
- 7. Memory Button
- 8. **Dimmer Button**
- 9. **Surround Button**
- 10. Volume Up and Down Buttons
- 11. Video/Auxiliary Button
- 12. Band Selector Button
- 13. Clear Button
- 14. **Sleep Button**
- 15. **Random/Repeat Button**
- 16. CD Open/Close Button
- 17. Tuner Preset Up Button
- 18. CD Track Down Button
- 19. CD Fast Reverse, Tuning Down Button
- 20. CD Play Button
- 21. CD Track Up Button
- 22. CD Fast Forward, Tuning Up Button
- 23. CD Pause Button
- 24. CD Stop Button
- 25. Tuner Preset Down Button
- 26. Bass Up and Down Buttons
- 27. Treble Up and Down Buttons

Buttons with "☆" mark in the illustration can be operated on the remote control only.

OPERATION MANUAL

Setting the clock

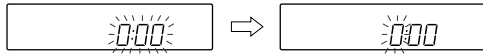


This may be operated only with the remote control.
In this example, the clock is set for the 24-hour (0:00) display.

1 Press the **CLOCK** button and within 3 seconds, press the **MEMORY** button.



2 Within 1 minute, press the **PRESET** (∨ or ^) button to select 24-hour or 12-hour display and then press the **MEMORY** button.

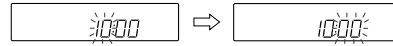


"0:00" → The 24-hour display will appear.
(0:00 - 23:59)

"AM 12:00" → The 12-hour display will appear.
(AM 12:00 - PM 11:59)

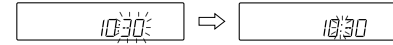
Note that this can only be set when the unit is first installed or it has been reset.

3 Within 1 minute, press the **PRESET** (∨ or ^) button to adjust the hour and then press the **MEMORY** button.



When the 12-hour display is selected, "AM" will change automatically to "PM".

4 Within 1 minute, press the **PRESET** (∨ or ^) button to adjust the minutes and then press the **MEMORY** button.



- The hour will not advance even if minutes advance from "59" to "00".
- The clock starts from "0" second. (Seconds are not displayed.)

To confirm the time display when the power is on:
Press the **CLOCK** button.
The time display will appear for about 5 seconds.

Note:
The "0:00" or time will flash at the push of the **CLOCK** button when the AC power supply is restored after a power failure or unplugging the unit. Readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from the beginning. If the time display is flashing, step 2 (for selecting the 24-hour or 12-hour display) will be skipped.

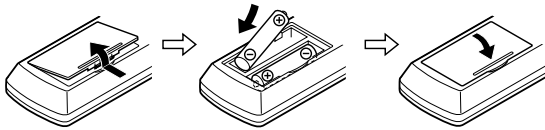
To change the 24-hour or 12-hour display:

- 1 Clear all the programmed contents.
- 2 Perform "Setting the clock" from the beginning.

Remote control

Battery installation

- 1 Remove the battery cover.
- 2 Insert the supplied batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- 3 Replace the cover.



Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

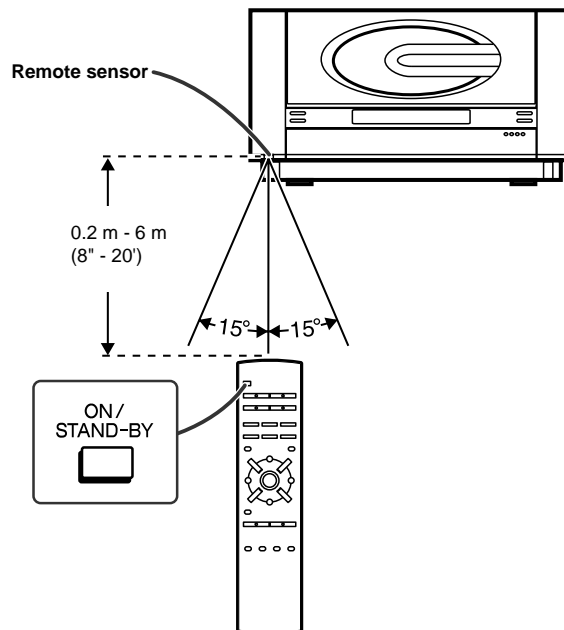
Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

Test of the remote control

Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the **ON/STAND-BY** button. Does the power turn on? Now, you can enjoy the music.

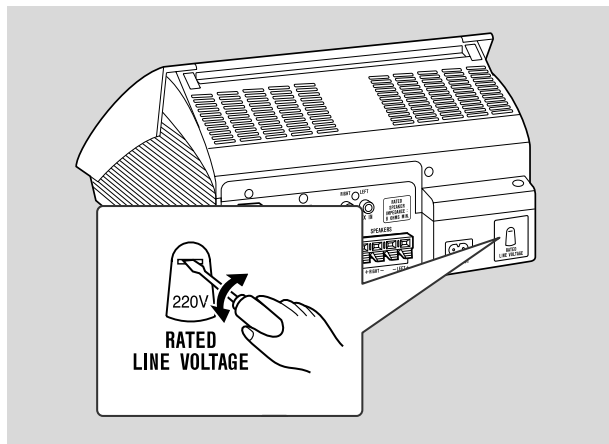


System connections

■ Setting the AC voltage selector

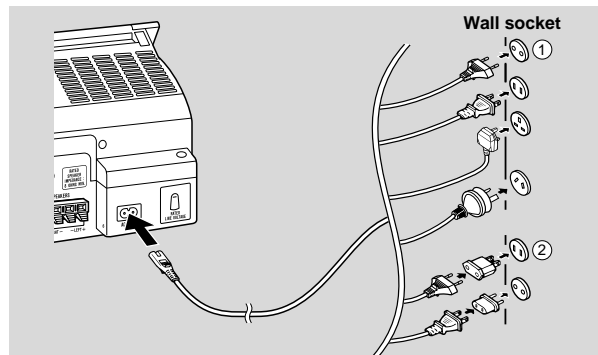
Check the setting of the AC voltage selector located on the rear panel before plugging the unit into a wall socket. If necessary, adjust the selector to correspond to the AC power voltage used in your area.

Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).



■ Connecting the AC power lead

After checking all the connections have been made correctly, connect the AC power lead to the AC power input socket, then into the wall socket.



Notes:

- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.
- **Never use a power lead other than the one supplied. Use of a power lead other than the one supplied may cause an electric shock or fire.**

AC Plug Adaptor

In areas (or countries) where a wall socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the wall socket and AC power plug can be directly connected (see illustration ①).

Note for users in Australia and New Zealand:

An AC plug adaptor is not supplied if the lead has an Australian Standard plug.

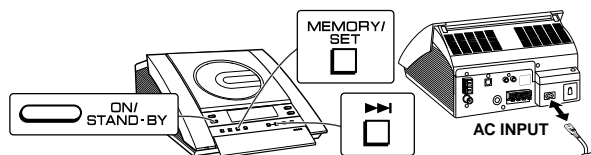
Troubleshooting

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- 1 Set the unit to the stand-by mode and turn the power on again.
- 2 If the unit is not restored in step 1, unplug and plug in the unit, and then turn the power on.
- 3 If neither step 1 nor 2 restores the unit, do the following:
 - ① Press the ON/STAND-BY button to enter the power stand-by mode.
 - ② Unplug the AC power lead from the AC INPUT socket on the unit.
 - ③ Whilst pressing down the MEMORY/SET button and the ►► button, plug the AC power lead into the AC INPUT socket on the unit.



Caution:

- This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.
- After the above operation, interval span setting for AM will be returned to 9 kHz (50 kHz for FM) automatically.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

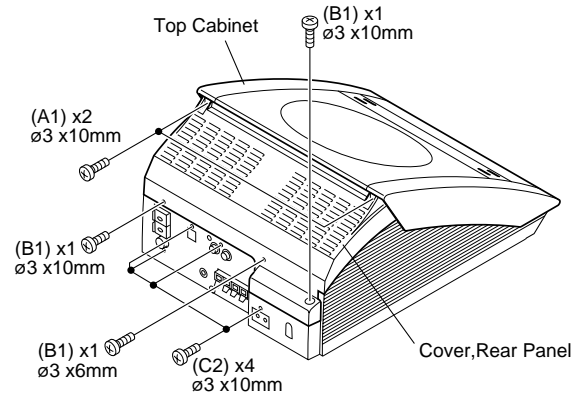


Figure 8-1

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4 2. Socket (A2) x9	8-1,2 8-2
2	Cover,Rear panel	1. Screw (B1) x3	8-1
3	Chassis	1. Screw (C1) x5 2. Screw (C2) x4 3. Hook (C3) x4	8-3 8-1 8-3
4	Tuner PWB	1. Screw (D1) x1 2. Socket (D2) x1	9-1
5	Terminal PWB	1. Screw (E1) x2 2. Socket (E2) x1	9-1
6	Rear Panel	1. Screw (F1) x1	9-1
7	Main PWB	1. Screw (G1) x6 2. Screw (G2) x2 3. Socket (G3) x2	9-1
8	CD PWB	1. Flat Cable (H1) x1 2. Socket (H2) x2 3. Screw (H3) x4	9-2
9	CD Mechanism	1. Screw (J1) x4	9-2
10	LED PWB	1. Screw (K1) x2	9-2
11	Switch PWB	1. Hook (L1) x2 2. Socket (L2) x1	9-3
12	Display PWB	1. Screw (M1) x6 2. Socket (M2) x1	9-3
13	Gear Box	1. Hook (N1) x3	9-3

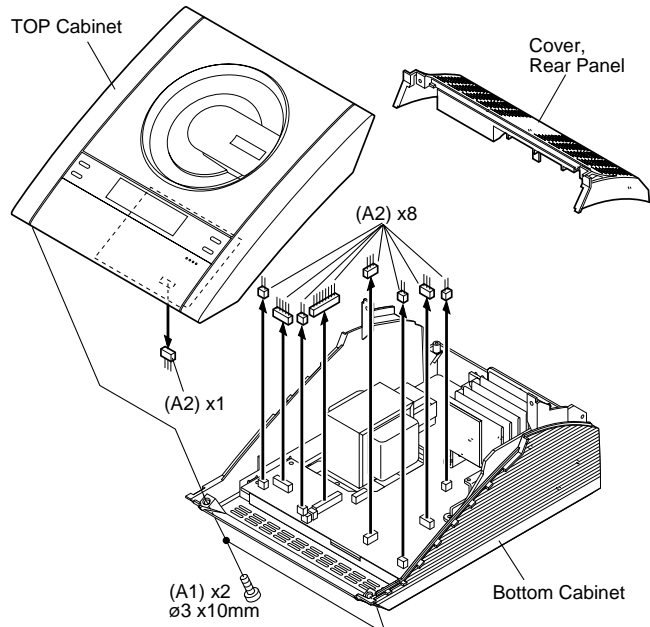


Figure 8-2

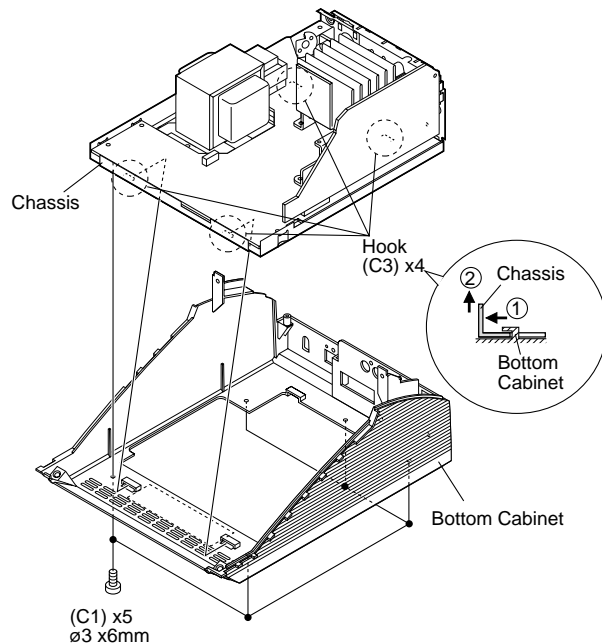


Figure 8-3

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector remove to protect the optical pickup from electrostatic damage.

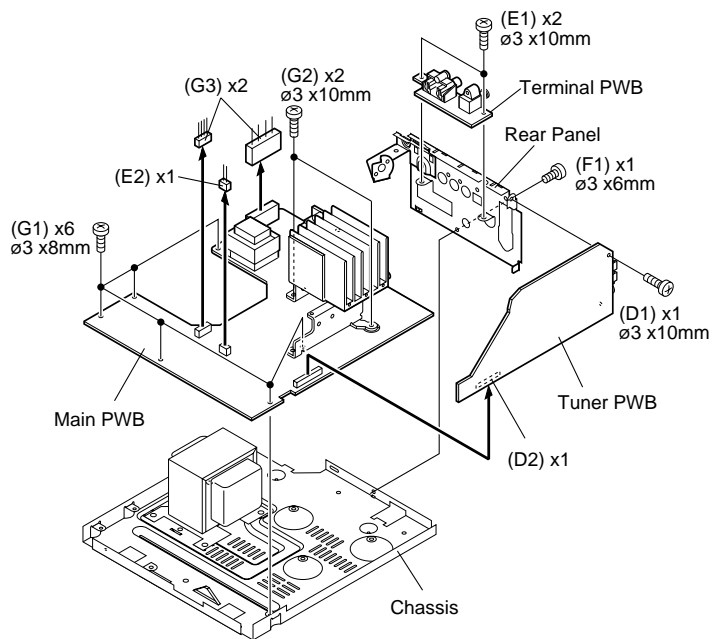


Figure 9-1

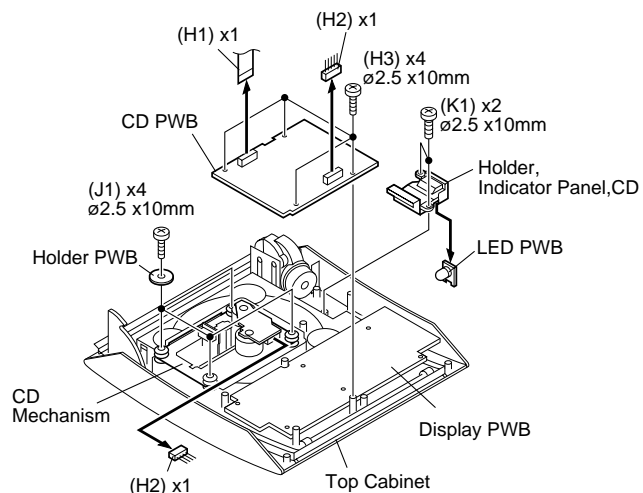


Figure 9-2

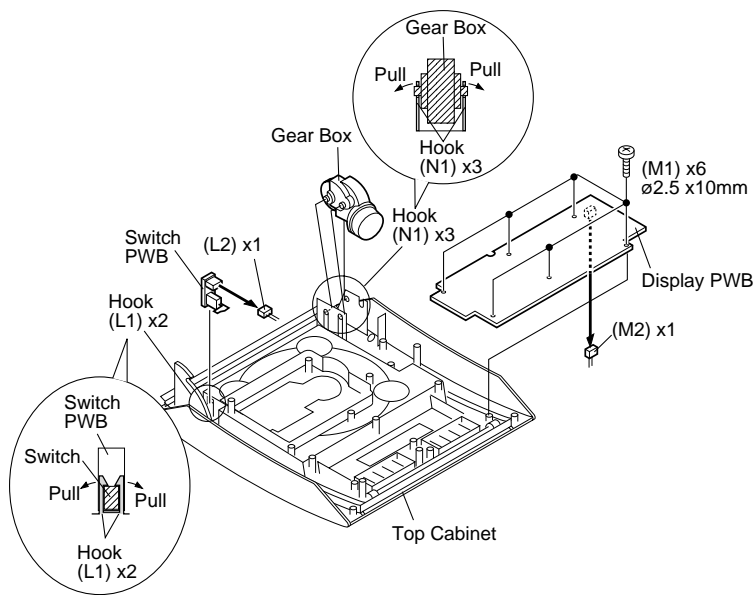


Figure 9-3

STEP	REMOVAL	PROCEDURE	FIGURE
1	Speaker	1. Net Frame (A1) x1 2. Front Panel (A2) x1 3. Screw (A3) x4	9-4

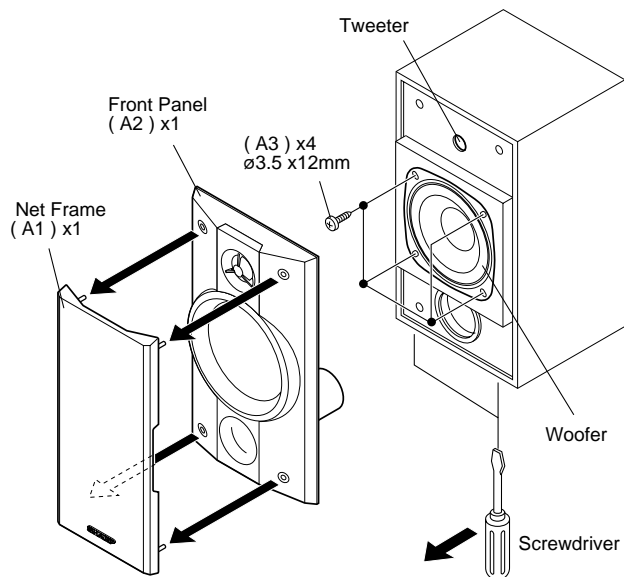


Figure 9-4

REMOVING AND REINSTALLING THE MAIN PARTS

How to remove the CD lid (See Fig. 10-1.)

Perform steps 1 to 13 of the disassembly method to remove the gear box. (See page 8,9)

1. Remove the screws (A1) x 2 pcs., to remove the CD lid motor.
2. Remove the hooks (A2) x 3 pcs., to remove the worm wheel.

Caution:

Be careful so that the gear is not damaged.
(The damage gear emits noise during searching.)

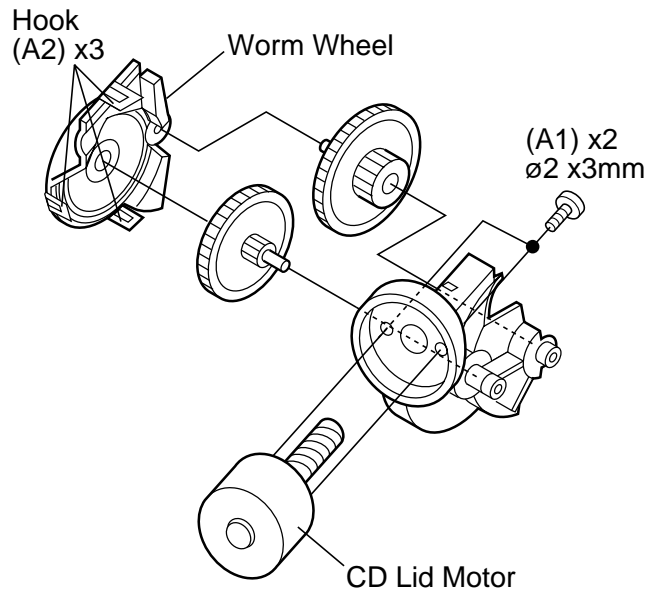


Figure 10-1

CD MECHANISM SECTION (See Fig. 10-2.)

Perform steps 1 to 9 of the disassembly method to remove the CD mechanism. (See page 8,9)

1. Remove the mechanism cover, paying attention to the pawls (A1)x 4 pcs.
2. Remove the screws (A2) x 2 pcs., to remove the shaft (A3) x 1 pc.
3. Remove the stop washer (A4) x 1 pc., to remove the gear (A5) x 1 pc.
4. Remove the pickup unit.

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector remove to protect the optical pickup from electrostatic damage.

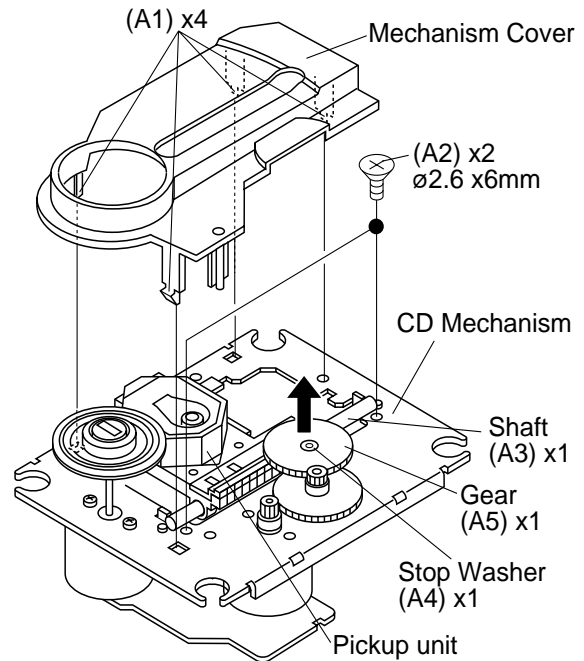


Figure 10-2

ADJUSTMENT

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

• **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Frequency	Frequency	Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T351	*1
AM Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T302	*1

*1. Input: Antenna, Output: Speaker Terminal

*2. Input: Input is not connected, Output: TP301

• **Setting the Test Mode**

Keeping the FF/FWD button and MEMORY/SET button pressed, turn on ON/STAND-BY. Then, the frequency is initially set in the memory as shown in Table. Call it with the VOLUME UP/DOWN button to use it for adjustment and check of tuner circuit.

Preset No.	FM	Preset No.	AM
1	87.50 MHz	6	522 kHz
2	108.00 MHz	7	1,620 kHz
3	98.00 MHz	8	990 kHz
4	90.00 MHz	9	603 kHz
5	106.00 MHz	10	1,404 kHz

• **FM Mute Level**

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Display	Adjusting Parts	Instrument Connection
98.00 MHz (30 dBμV)	98.00 MHz	VR351*1	Input: SO301 Output: Speaker Terminal

*1. Adjust so that an output signal appears.

• **Check FM VT**

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Display	Check Point	Instrument Connection
87.5 MHz	87.5 MHz	2.2 V ± 0.7 V	TP301
108 MHz	108 MHz	7.3 V ± 1.0 V	TP301

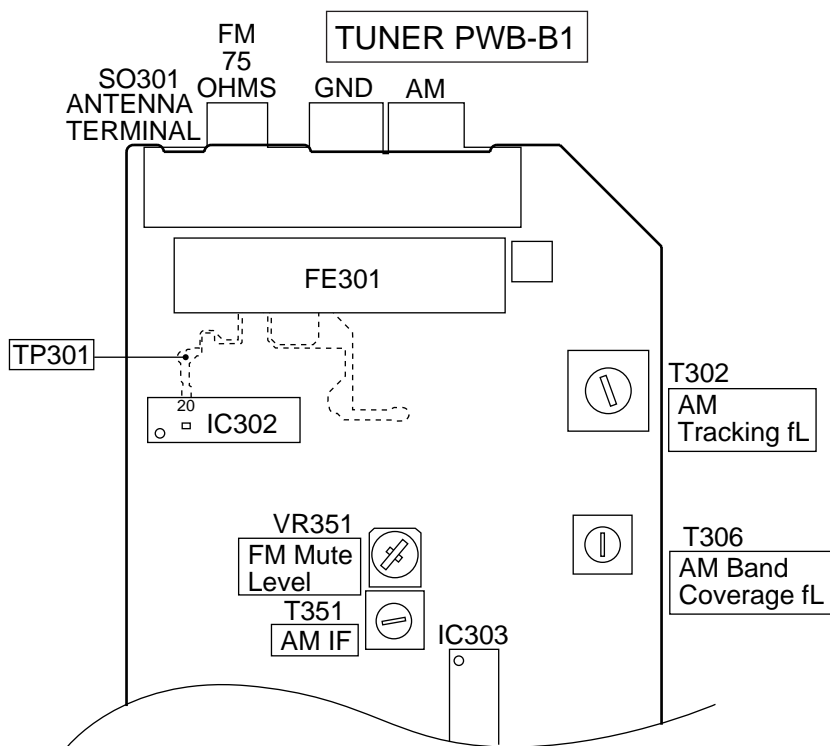


Figure 11 ADJUSTMENT POINTS

TEST MODE

The test mode applied to this microcomputer has three modes, namely the ordinary test mode for adjustment or measurement, the aging test mode, and the self-diagnosis test mode for self-judgment in case of final product inspection.

1. Turning on the test mode

For obtaining each test mode, press the ON/STAND-BY button, while keeping pressing the following two buttons in the ordinary stand-by mode (power off). In this case, the main unit buttons are valid. When turning the ON/STAND-BY on with remote control buttons, test modes are not obtained.

[Ordinary test mode]

- 1. CD Test Mode (TEST 1).....BASS/TREBLE + STOP
- 2. Tuner Test Mode (TEST 2).....BASS/TREBLE + VOL+
- 3. Electronic Volume Test Mode (TEST 3)..... BASS/TREBLE + VOL-
- 4. Timer Test Mode (TEST 4)..... MEMORY/SET + STOP
- 5. LCD Test Mode (TEST 5)..... MEMORY/SET + VOL-
- 6. Electric CD Lid Aging Test Mode (TEST 8)..... MEMORY/SET + VOL+

[Self-diagnosis Test Mode]

- 1. Button input diagnosis test mode (TEST6).....MEMORY/SET + PLAY

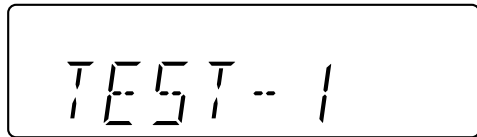
Processes are different depending on destinations at initial settings.

2. CD Test Mode (TEST 1)

In the CD test mode the operation of each step is possible even if the LID-SW is off. If focus cannot be taken in step 3 or any error is processed, it is impossible to proceed to the next step. During error processing, end the test mode by pressing the ON/STAND-BY button or return to the step 1 by pressing the CD STOP button. Any other operations are inhibited.

1. Step 1 Mode

When the CD test mode is obtained, the following display lights up. Then CD initialization operation flow proceeds up to CD STB off to wait for the following buttons to be pressed.



One second after display lights up



Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" After the pickup returns to the innermost periphery, it slides toward the outer periphery while this button is pressed.

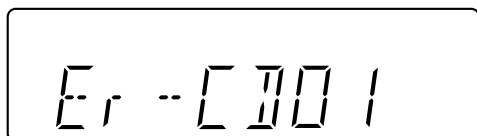
"REW/REV" After the pickup returns to the innermost periphery, it slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" Shift to step 2

"STOP" Invalid

"FUNCTION" Shift to step 5

* In case of initialization, the pickup is moved toward the inner periphery. Any buttons other than "ON/STAND-BY" button are not accepted until the shift of pickup to the inner periphery is completed at this time. If PICKUP IN SW ON cannot be detected within 10 seconds, the slide motor stops, and the following error display appears. Press the ON/STAND-BY button to end the test mode, or press the CD STOP button to return to step 1. Any other operations are inhibited.



2. Step 2 Mode

Press the "CD PLAY" button in this mode to transmit the laser lighting command LDON (8400) and turn on the laser. Any other operations are not performed in this case.



Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" The pickup slides toward the outer periphery while this button is pressed.

"REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" Shift to step 3

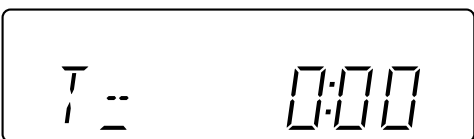
"STOP" Return to step 1

"FUNCTION" Shift to step 5

3. Step 3 Mode

While the laser keeps lighting, CD initialization operation flow proceeds up to 'CLV servo ON' to wait for the following buttons to be pressed. (Focus servo turned on for focus search)

The focus search is repeated to take focus.



Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" The pickup slides toward the outer periphery while this button is pressed.

"REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" If focus has been taken, shift to step 4 is executed. If not, acceptance is inhibited.

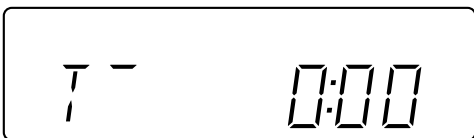
"STOP" Return to step 1

"FUNCTION" Shift to step 5

*If the focus is not received after it has been taken, the process returns to step 1.

4. Step 4 Mode

The CLV servo ON command (8600) is transmitted to wait for the following buttons to be pressed. (The disc is rotated for CLV lock.)



The time display always indicates "0:00".

Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" The pickup slides toward the outer periphery while this button is pressed.

"REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" Shift to step 5

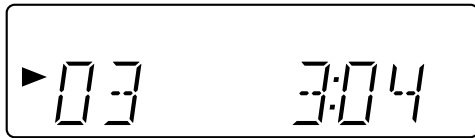
"STOP" Return to step 1

"FUNCTION" Shift to step 5

*If the focus is not received, the process returns to step 1.

5. Step 5 Mode

When the CD initialization operation flow is completed, the mute is turned off, and playback is started. Even if playback reaches the outermost periphery of disc, the operation does not stop. The LCD display indicates the playback passage time as in case of ordinary CD playback.



Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" The pickup slides toward the outer periphery while this button is pressed.

"REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" Invalid

"STOP" Return to step 1

"FUNCTION" Shift to step 6

"MEMORY" Shift to step 7

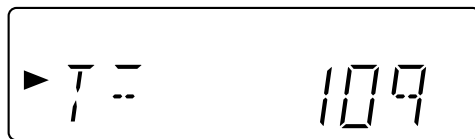
*If the is not received, the process returns to step 1.

Other cautions

- TOC IL is not available for this test mode.

6. Step 6 Mode

Press the FUNCTION button during step 5 operation to set EC/FC bit to "H" by PROSET command (9188 transmission) and to monitor BUS2 (QDRE) during idle mode. The number of errors for 1 frame (1 sub-code block in IC data) is read by read command SRC6 during "H". The number of errors accumulated in 750 frames for 10 seconds is displayed on LCD. During the display, music signal is played back.



Press the following buttons in this state to obtain the operations specified below.

"ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.

"FF/FWD" The pickup slides toward the outer periphery while this button is pressed.

"REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.

"PLAY" Invalid

"STOP" Return to step 1

"FUNCTION" Shift to step 5

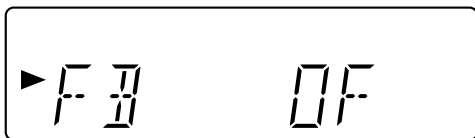
"MEMORY" Shift to step 7

Press FF/PRESET UP or REW/PRESET DOWN button to slide the pickup. The number of errors accumulated up to that time is cleared and addition is restarted after shift.

*If the focus is not received, the process returns to step 1.

7. Step 7 Mode

Press "MEMORY" key during step 6 operation to display automatically adjusted values on LCD in the order as below. Item names are displayed by left alignment, and adjusted values by right alignment in hexadecimal numbers. Operations other than display are as same as those for step 5.



- a) "Fb" is displayed on the left of LCD. FTBAST command (D480) is transmitted to designate focus balance adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. After waiting 2 seconds, operation is shifted to (b).
- b) "FG" is displayed on the left of LCD. FTBAST command (D481) is transmitted to designate focus gain adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. The upper two bits, which are invalid, are displayed as "00". After waiting two seconds, operation is shifted to (c).
- c) "Tb" is displayed on the left of LCD. FTBAST command (D482) is transmitted to designate tracking balance adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. After waiting 2 seconds, operation is shifted to (d).
- d) "TG" is displayed on the left of LCD. FTBAST command (D483) is transmitted to designate tracking gain adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. The upper two bits, which are invalid, are displayed as "00". After waiting 2 seconds, operation is shifted to (e).
- e) "FO" is displayed on the left of LCD. FTBAST command (D484) is transmitted to designate focus offset adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. After waiting 2 seconds, operation is shifted to (f).
- f) "TO" is displayed on the left of LCD. FTBAST command (D485) is transmitted to designate tracking offset adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. After waiting 2 seconds, operation is shifted to (g).
- g) "FF" is displayed on the left of LCD. FTBAST command (D486) is transmitted to designate RF amplitude adjusting register. Then data read by read command SRC2 (2) are displayed in hexadecimal numbers. After waiting 2 seconds, operation is shifted to (a).

Press the following buttons in this state to obtain the operations specified below.

- "ON/STAND-BY" Test mode and power turned off to shift to the ordinary standby mode.
 - "FF/FWD" The pickup slides toward the outer periphery while this button is pressed.
 - "REW/REV" The pickup slides toward the inner periphery while this button is pressed. If PICKUP IN is on, input is invalid.
 - "PLAY" Invalid
 - "STOP" Return to step 1
 - "FUNCTION" Shift to step 6
 - "MEMORY" Shift to step 5
- *If the focus is not received, the process returns to step 1.

XL-1500W

3. Tuner Test Mode (TEST 2)

1. Outline of tuner (radio) test mode

The tuner test mode is intended to store the adjustment and measurement frequencies in the preset memory CH. When adjusting the tuner section in the production line, adjusting personnel are not required to set frequency.

2. Details of tuner test mode

Press the "REW/PRESET DOWN" and "CD PLAY" buttons in POWER OFF state and turn on the power by the use of "ON/STAND-BY" button to preset and store frequency for adjustment and measurement of destination specified by the AREA terminal in the preset memory CH. However, Ordinary 1 and Ordinary 2 are stored in the destinations (selected by SPAN switching operation) when the test mode is obtained.

("FF▶▶" + "MEMORY/SET" KEY SPAN CHANGE)

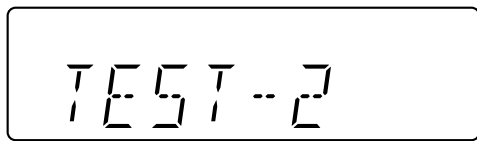
(As for frequencies to be preset and stored for each destination, refer to item 3.)

The tuner test mode is started from preset No.1.

The operations of test mode are identical with the ordinary operations of TUNER function. FUNCTION switching is invalid.

It is necessary to discard the content of preset memory when the tuner test mode is ended; be sure to write "0000" or "1111" bits in the memory to be checked for judging memory error at initial setting and to initialize memory.

When the tuner test mode is obtained, the following display lights for one second.



- The TUNER TEST2 mode is obtained with >> + MEMORY + ON/STAND-BY. ->Turn off AC in the TEST2 mode to restore the initial state.



Turn off POWER to protect the memory of TEST2 mode.
Turn off POWER again to obtain the ordinary operation while the data is stored in the memory (besides TUNER).



If AC OFF state is maintained in this state for about 1/2 day, start is executed in the initial state.

- To clear the whole memory, insert the AC cord, pressing MEMORY + CD PLAY.

3. Preset frequencies for various destinations (random preset memory)

CH	BAND	FM
1		FM 87.50 MHz
2		FM108.00 MHz
3	FM	FM 98.00 MHz
4	STEREO	FM 90.00 MHz
5		FM106.00 MHz

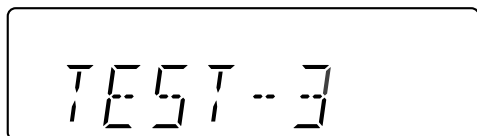
CH	BAND	AM
6		AM 522 kHz
7		AM1620 kHz
8	AM	AM 990 kHz
9		AM 603 kHz
10		AM1404 kHz

CH	BAND	FM
16-25		
26		FM106.00 MHz
27		FM 90.00 MHz
28	FM	FM 98.00 MHz
29	MONO	FM108.00 MHz
30		FM 87.50 MHz

- The slant line sections of the table store no memory.

4. Electronic volume Test Mode (TEST 3)

When this test mode is obtained, the following display lights for one second.



In this mode, volume is -14 dB (STEP28), BASS/TREBLE is set to 0 (0 dB) and SURROUND mode to OFF, and start-up function to CD, respectively. The button operations in the test mode are the same as those of ordinary operation except volume UP/DOWN.

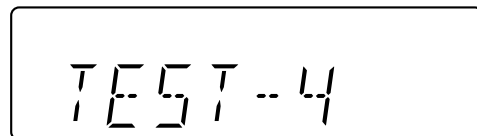
- (1) The display is the same as that of ordinary operation except test mode setting.
- (2) Unlike the ordinary state, the volume is controlled with the volume UP/DOWN button in accordance with the following three steps.

Volume- ∞ (STEP 0) <-> Volume-14 dB (STEP 23) <-> Volume-0 (STEP 30)

- (3) BASS/TREBLE and SURROUND are switched when button is pressed..

5. Timer test Mode (TEST 4)

When this test mode is obtained, the following display lights for one second.

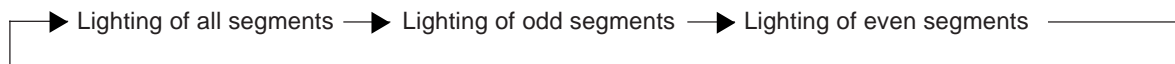


Set the current time and timer time according to the following procedure to reproduce the timer.

1. Set the current time to 1:00, the timer to ON time 1:05, the function to CD, and volume to STEP 12, respectively. One minute is counted as one second, and the timer is reproduced. The fade-in (when playback is started) is executed at a rate of one step for 1 sec. After completion of fade-in, the fade-out is executed at a rate of one step for 1 sec (WAIT 1 sec inserted). After completion of fade-out, the power is turned off (after WAIT 1 sec), and the mode is shifted to the standby. The display during operation is the same as that of ordinary timer operation.

6. LCD Test Mode (TEST 5)

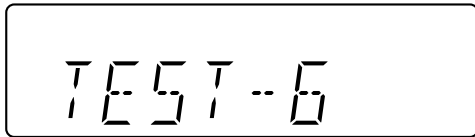
When the LCD test mode is obtained, all the LCD segments are lighted. Then pressing the "PLAY" button switches display as below.



XL-1500W

7. Button input diagnosis Test Mode (TEST 6)

When the test mode is obtained, the following is displayed.



This test mode is intended to check whether all the main unit buttons can be detected. Accordingly, in this test mode, it is checked whether the "ON/STAND-BY" button was pressed after all the buttons shown below were pressed. If the result is OK, OK is displayed. If any one of keys was not pressed, an error is displayed. In both cases of OK termination or error termination, the mode is shifted to the standby mode if the "ON/STAND-BY" button is pressed subsequently.

All models using this type of microcomputer are not always provided with the same buttons. Since the buttons used are different depending on models, types of buttons to be used are determined by whether RDS, SURROUND, and an electric lid are available at the initial setting by MODEL port.

The order of buttons to be pressed is not determined. Accordingly, it is checked whether all buttons have been pressed.

1. PU-IN buttons: REW/PRESET DOWN + CD STOP

Since this model is provided with SURROUND (HAVE OR NOT), RDS (HAVE OR NOT), and electric CD lid, the following 10 buttons are detected as all buttons.

PLAY, BASS/TREBLE, FUNCTION, VOLUME UP/DOWN, MEMORY/SET, REW, FF, STOP, CD-OPEN/CLOSE

The OK/NG display of test result is as follows.



8. Electric CD lid Aging Test Mode (TEST 8) (Only for model with electric CD lid)

Outline

OPEN/CLOSE operations of electric CD lid are repeated. The number of repeated times and time period are monitored. If the lid does not move to the regular position after the specified time, operation is stopped. When an error is detected by [CLID_PRO] during CLOSE, operation is also stopped.

a. POWER ON for function AUX

CD lid position is checked.

CLOSE position: Operation proceeds to the next process.

Position other than CLOSE: After the lid moves to CLOSE, operation proceeds to the next process.

b. CD lid operation started

OPEN operation

WAIT 1 second

CLOSE operation

WAIT 1 second

c. Operations above are repeated.

Specified monitoring time

OPEN operation: 5 seconds

CLOSE operation: 5 seconds

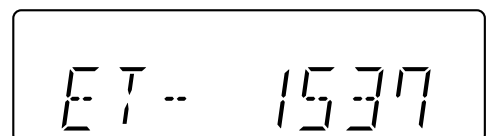
d. Display

OPEN>CLOSE is counted as 1. 1 to 59999 are counted; if the count is over 59999, display is returned to 0 to repeat counting.



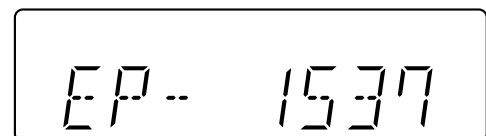
Display when the lid does not move to the regular position after the specified time

(Ex: Defective operation occurring in the middle of 1538.)



Highlight display of stop when an error is detected by [CLID-PRO]

(Ex: Defective operation occurring in the middle of 1538.)



NOTES ON SCHEMATIC DIAGRAM

- Resistor:
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
(CH), (TH), (RH), (UJ): Temperature compensation
(ML): Mylar type
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
 1. In the tuner section,
() : AM mode
 : FM stereo mode
 2. In the CD section, the CD is stopped.
- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW702	PICKUP IN	ON—OFF
SW709	ON/STAND-BY	ON—OFF
SW710	CD LID OPEN/CLOSE	ON—OFF
SW711	REW/PRESET DOWN	ON—OFF
SW712	FF/PRESET UP	ON—OFF
SW713	CD STOP/TUNING DOWN	ON—OFF
SW718	CD PLAY/PAUSE/TUNING UP	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW719	VOLUME DOWN	ON—OFF
SW720	VOLUME UP	ON—OFF
SW725	BASS/TREBLE	ON—OFF
SW726	MEMORY/SET	ON—OFF
SW727	CLEAR	ON—OFF
SW728	FUNCTION	ON—OFF
SW802	CD LID	ON—OFF

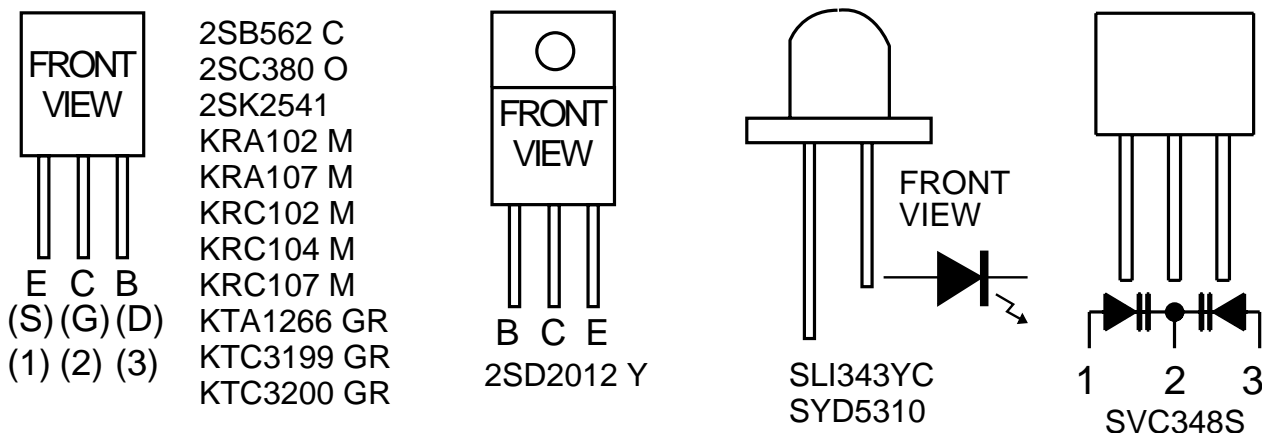
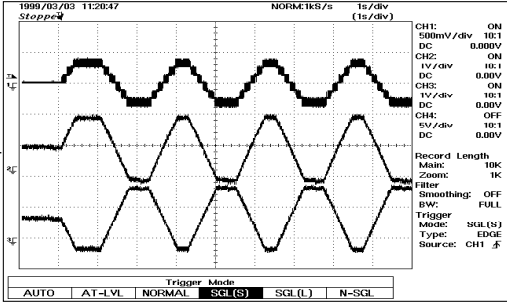


Figure 19 TYPES OF TRANSISTOR AND LED

WAVEFORMS OF CD CIRCUIT

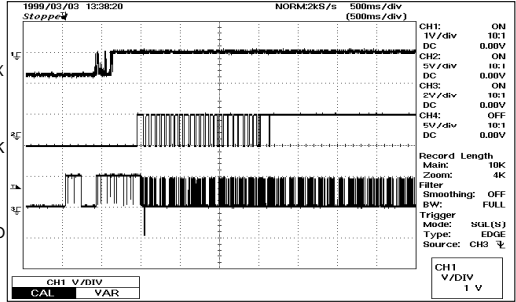
NO DISC FOCUS SEARCH

- 1 IC801 33pin
- 2 IC803 26pin
- 3 IC803 25pin



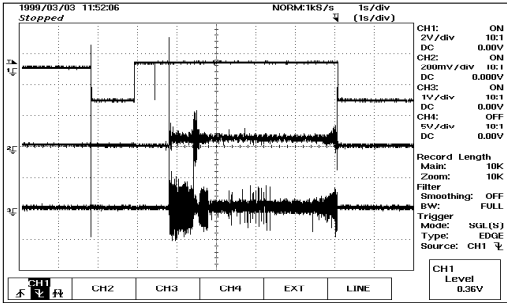
STOP→PLAY

- 12 TMAX
- 13 SBOK
- 14 DMO



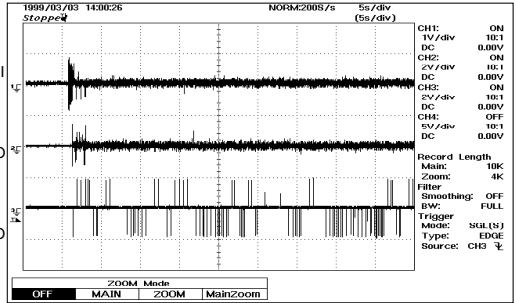
FOCUS SEARCH→TOC IL

- 4 IC801 38pin
- 5 IC801 29pin
- 6 IC801 31pin



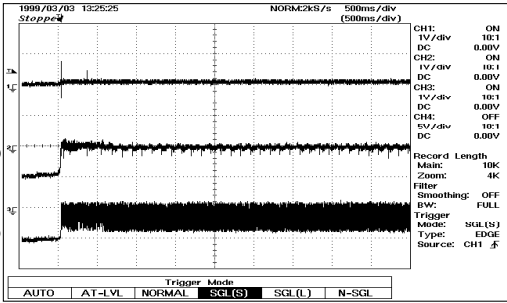
STOP→PLAY

- 6 IC801 31pin
- 11 IC801 34pin
- 15 IC801 40pin



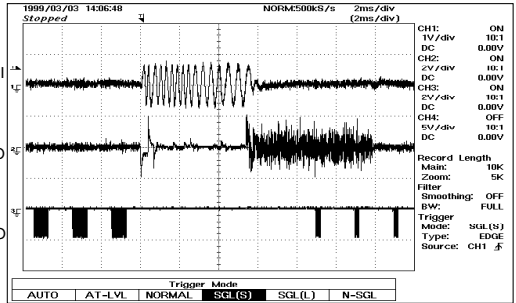
STOP→PLAY

- 5 IC801 29pin
- 7 IC801 30pin
- 8 IC802 22pin



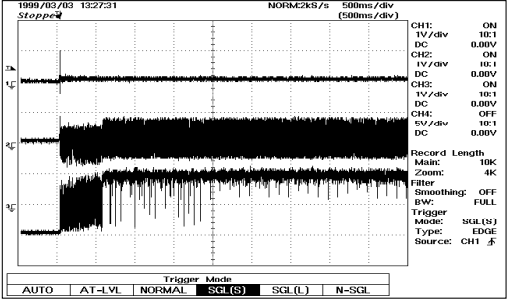
CUE

- 6 IC801 31pin
- 11 IC801 34pin
- 15 IC801 40pin



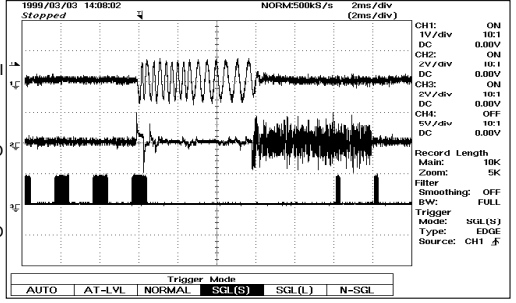
STOP→PLAY

- 5 IC801 29pin
- 9 IC802 19pin
- 10 IC802 17pin



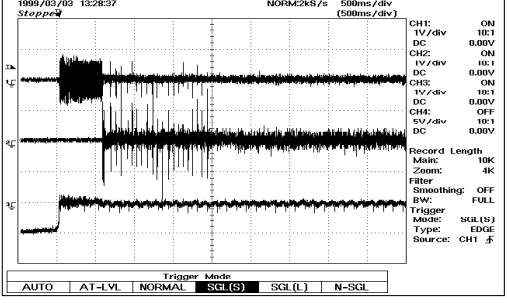
REVIEW

- 6 IC801 31pin
- 11 IC801 34pin
- 15 IC801 40pin



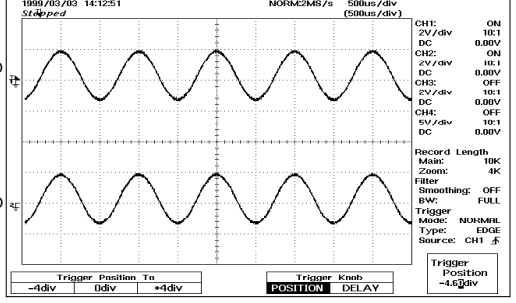
STOP→PLAY

- 6 IC801 31pin
- 11 IC801 34pin
- 7 IC801 30pin



TCD-782 TNO-02 PLAYBACK

- 16 IC801 53pin
- 17 IC801 50pin



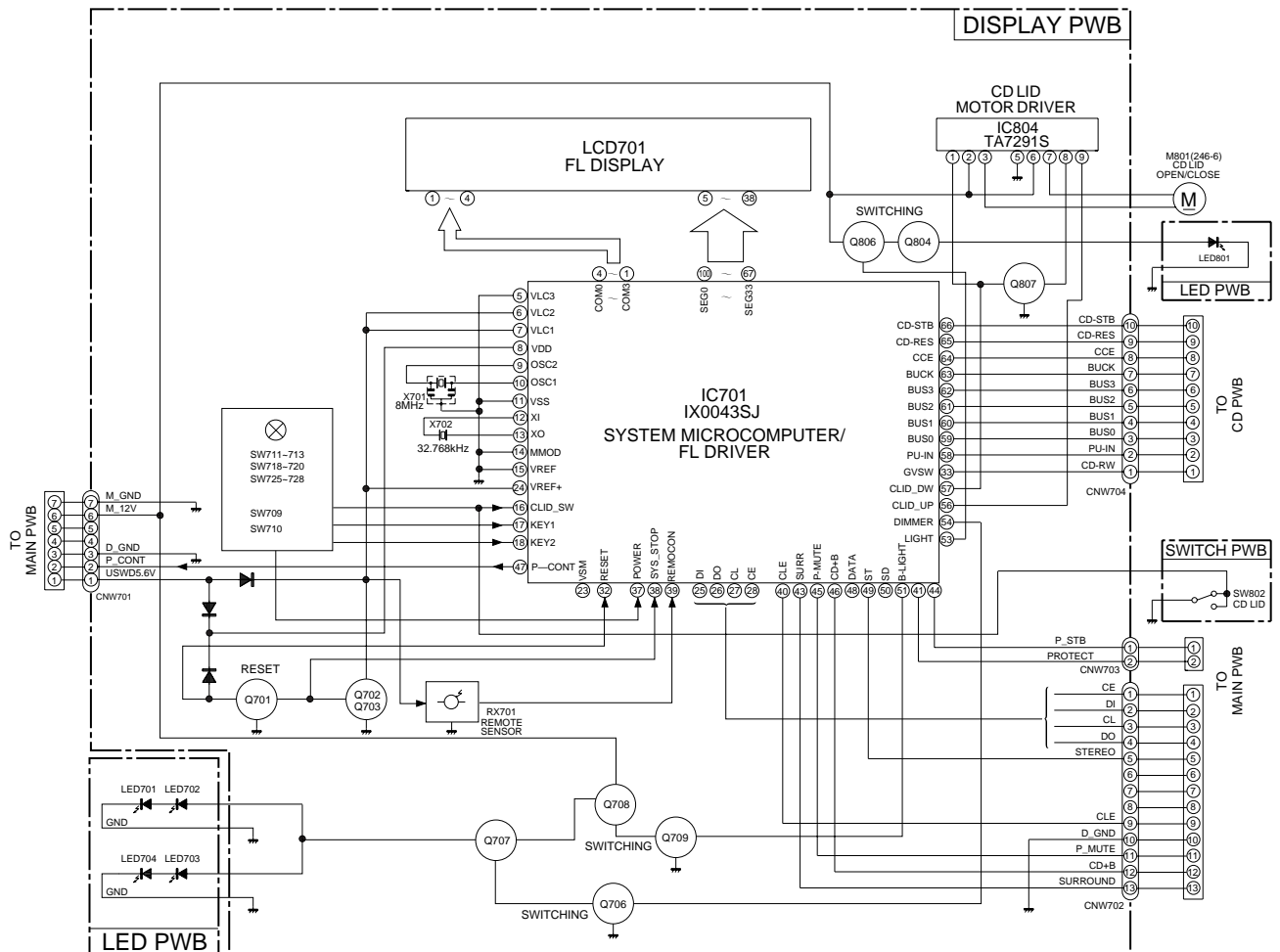
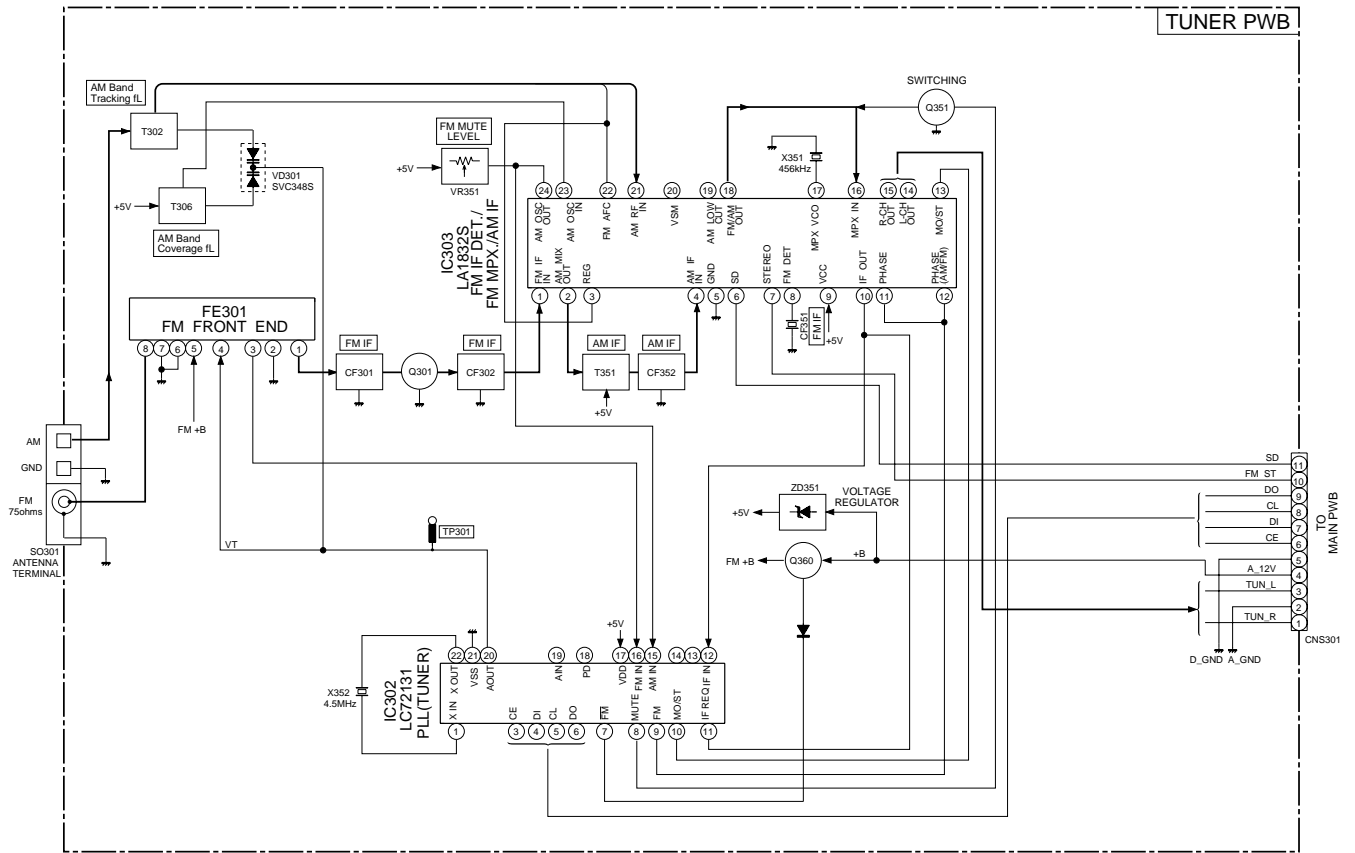


Figure 21 BLOCK DIAGRAM (1/3)

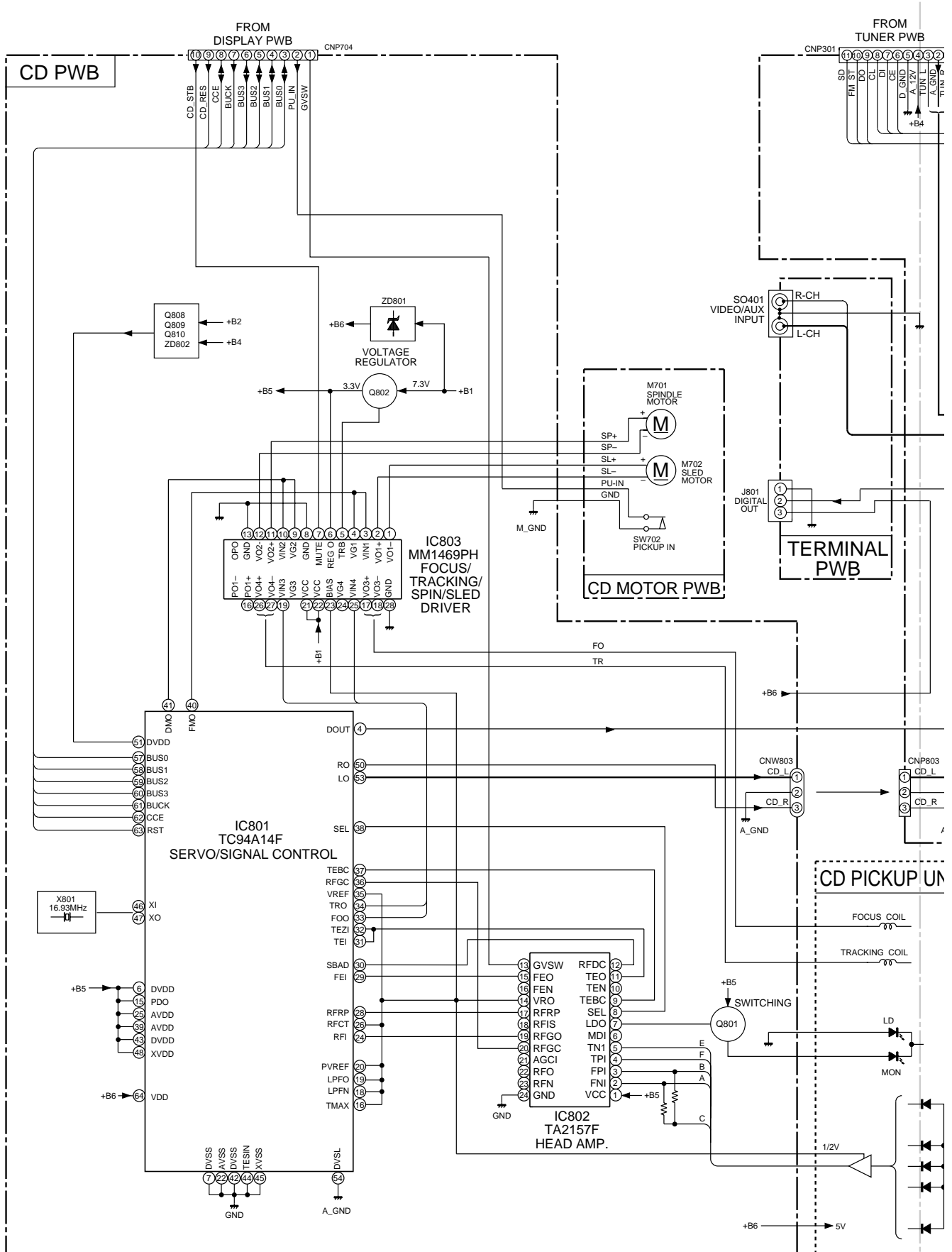


Figure 22 BLOCK DIAGRAM (2/3)

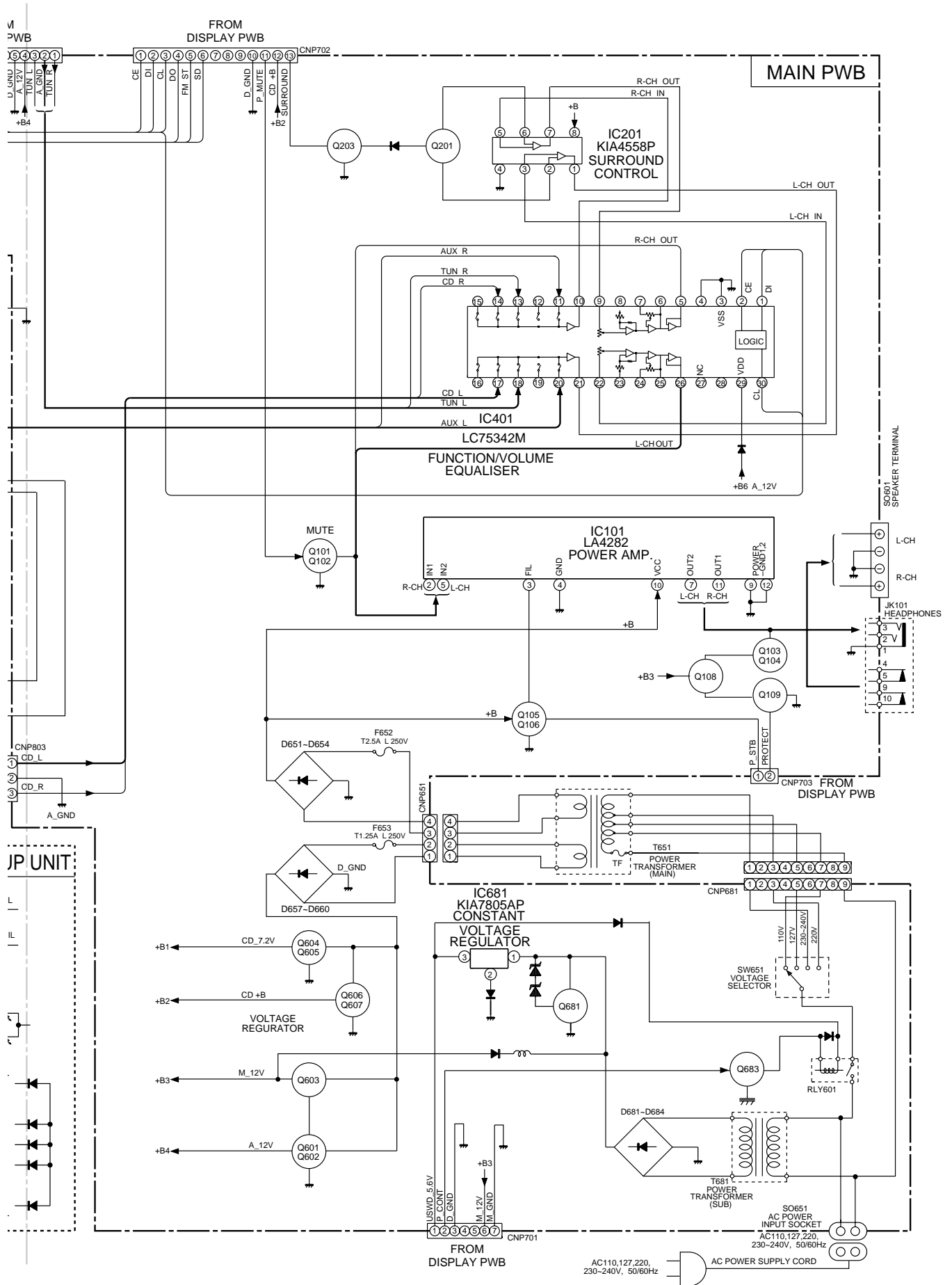
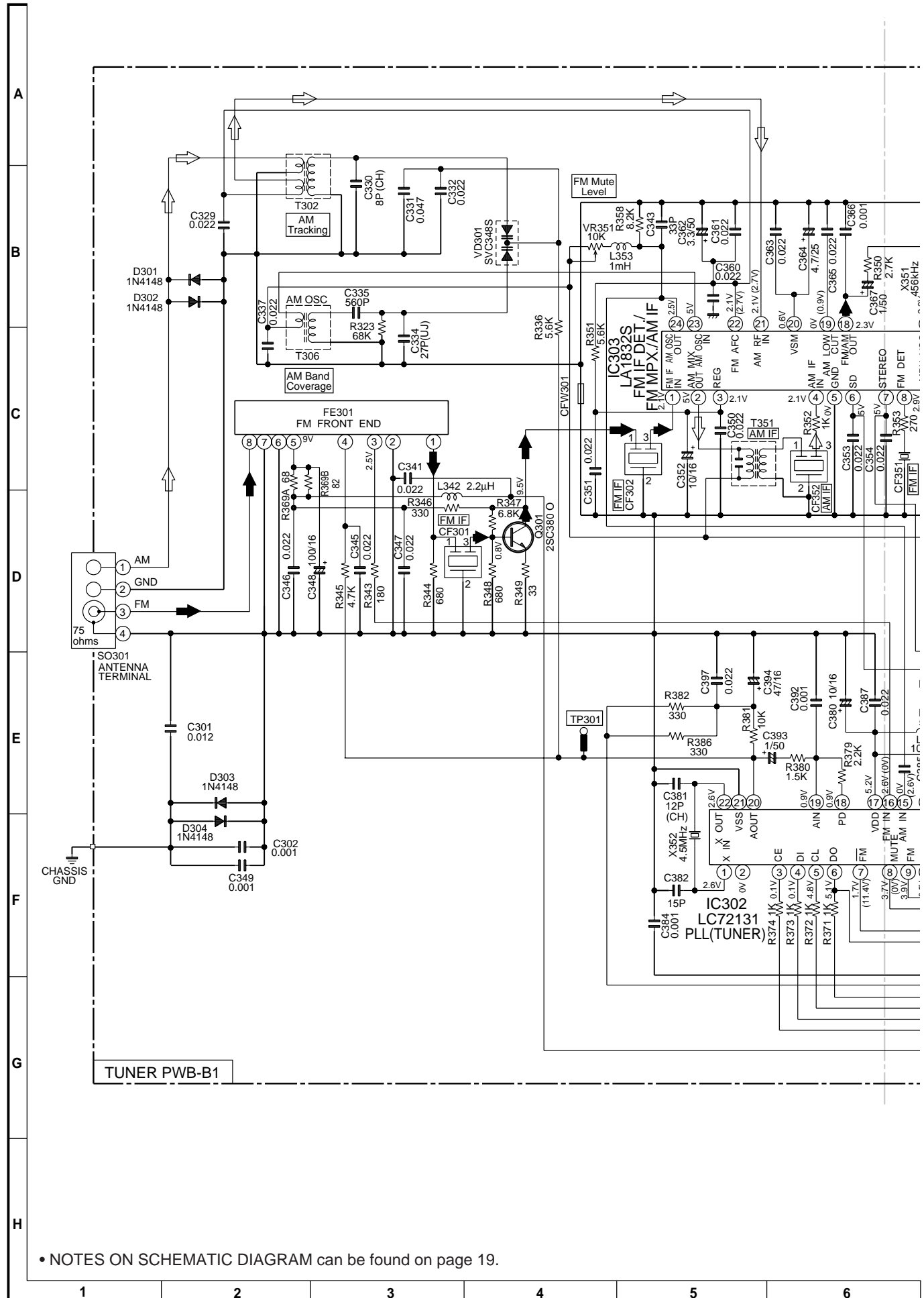
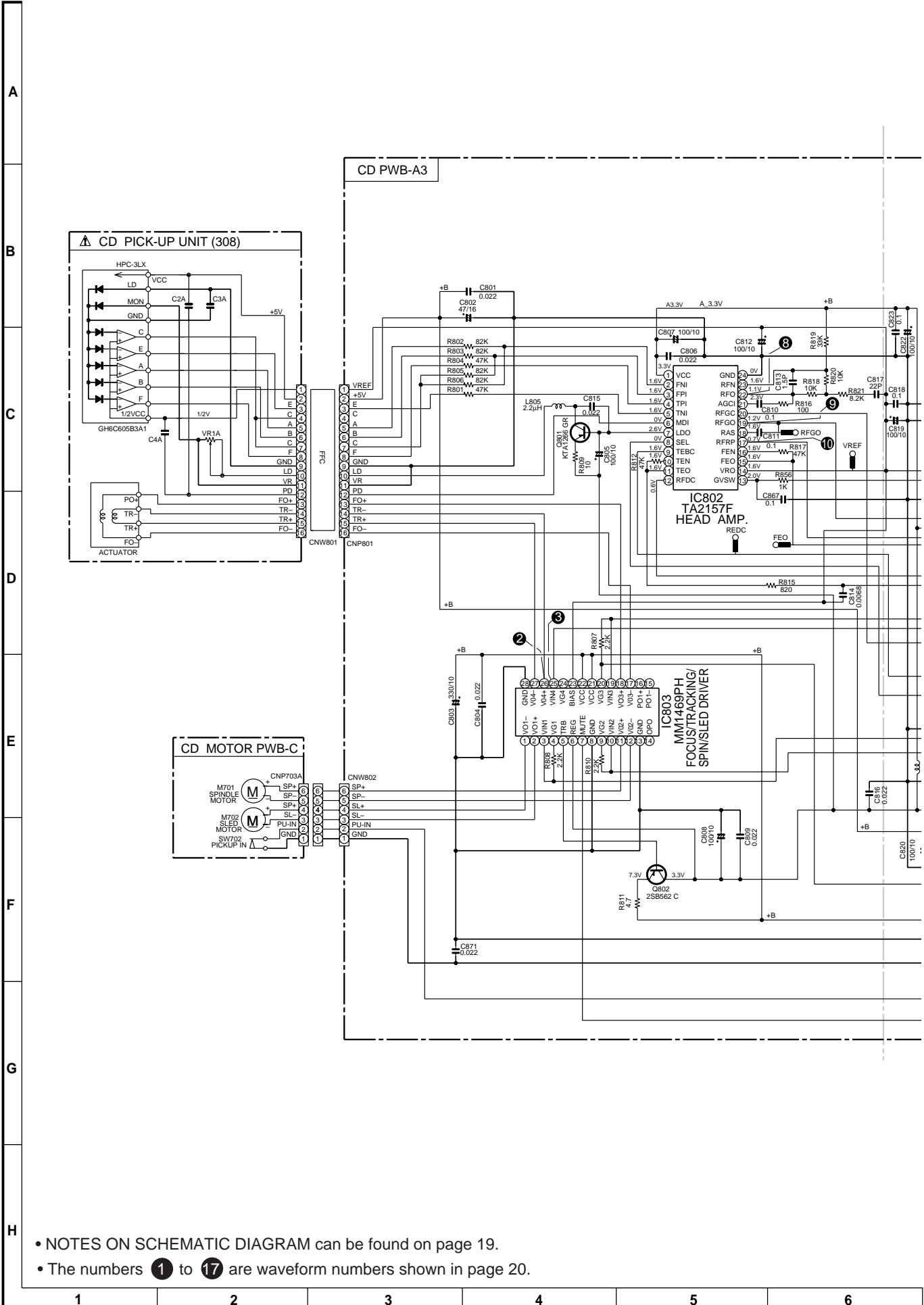


Figure 23 BLOCK DIAGRAM (3/3)



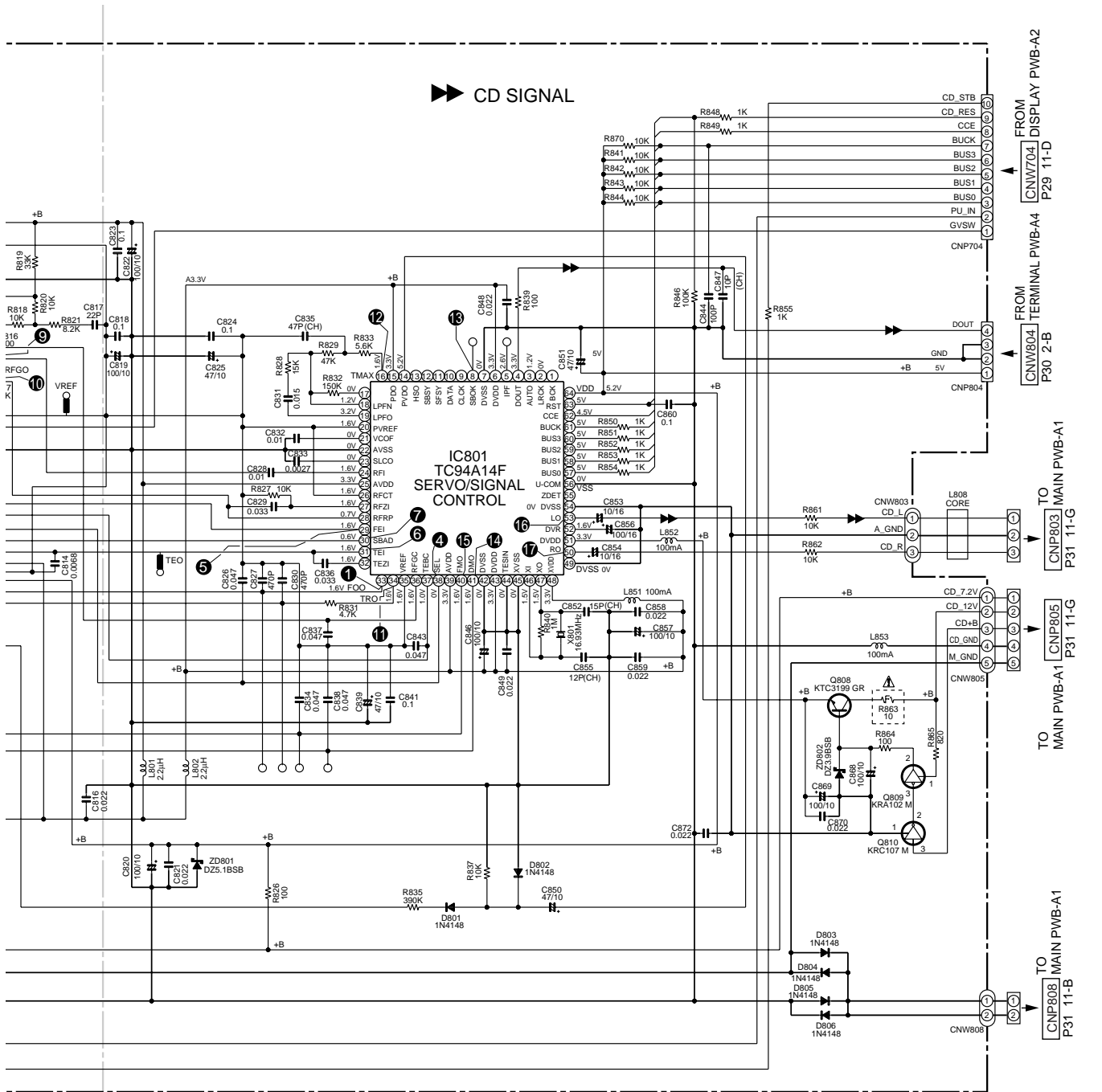
• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 24 SCHEMATIC DIAGRAM (1/8)



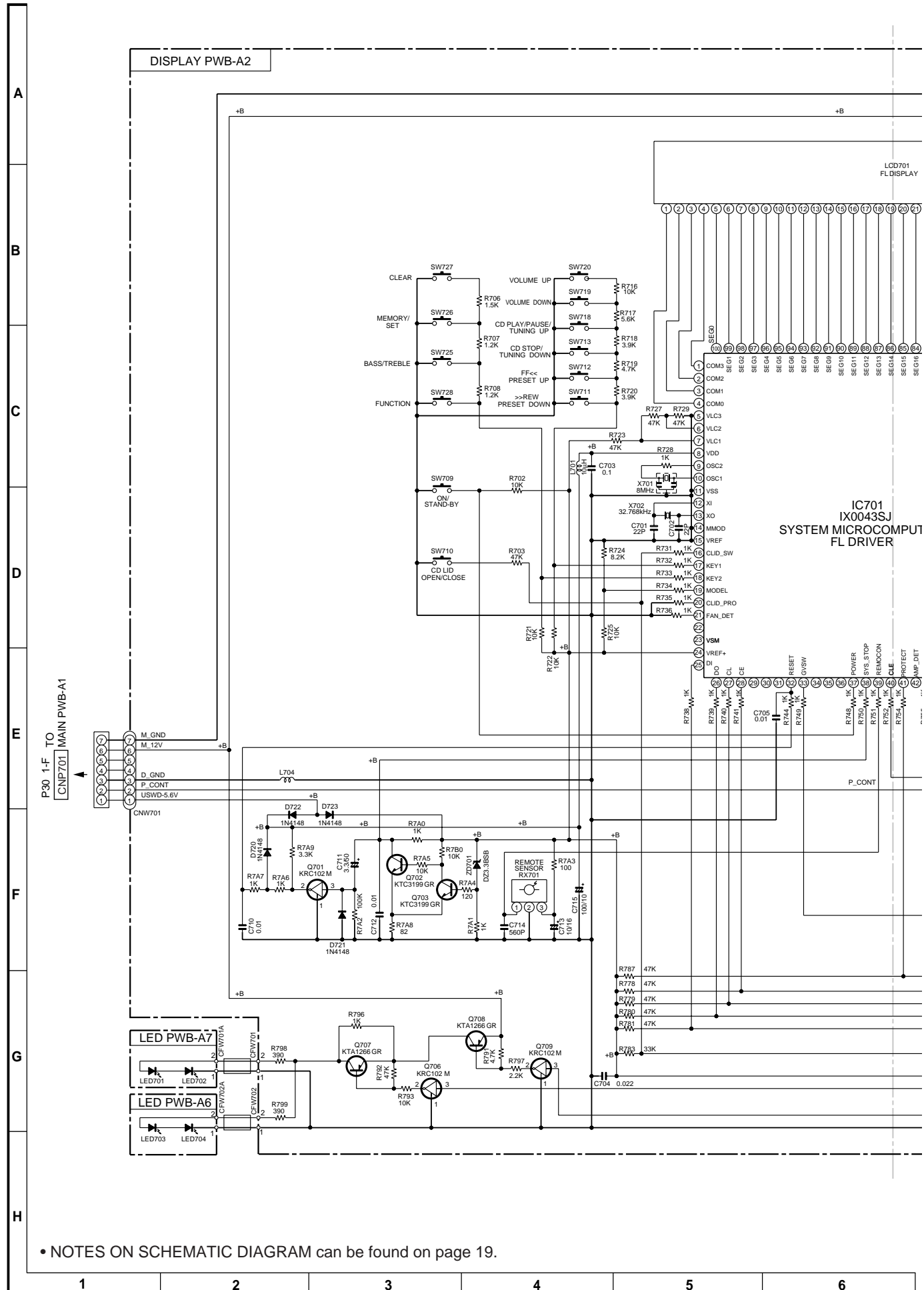
- NOTES ON SCHEMATIC DIAGRAM can be found on page 19.
- The numbers 1 to 17 are waveform numbers shown in page 20.

Figure 26 SCHEMATIC DIAGRAM (3/8)



7	8	9	10	11	12
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Figure 27 SCHEMATIC DIAGRAM (4/8)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 28 SCHEMATIC DIAGRAM (5/8)

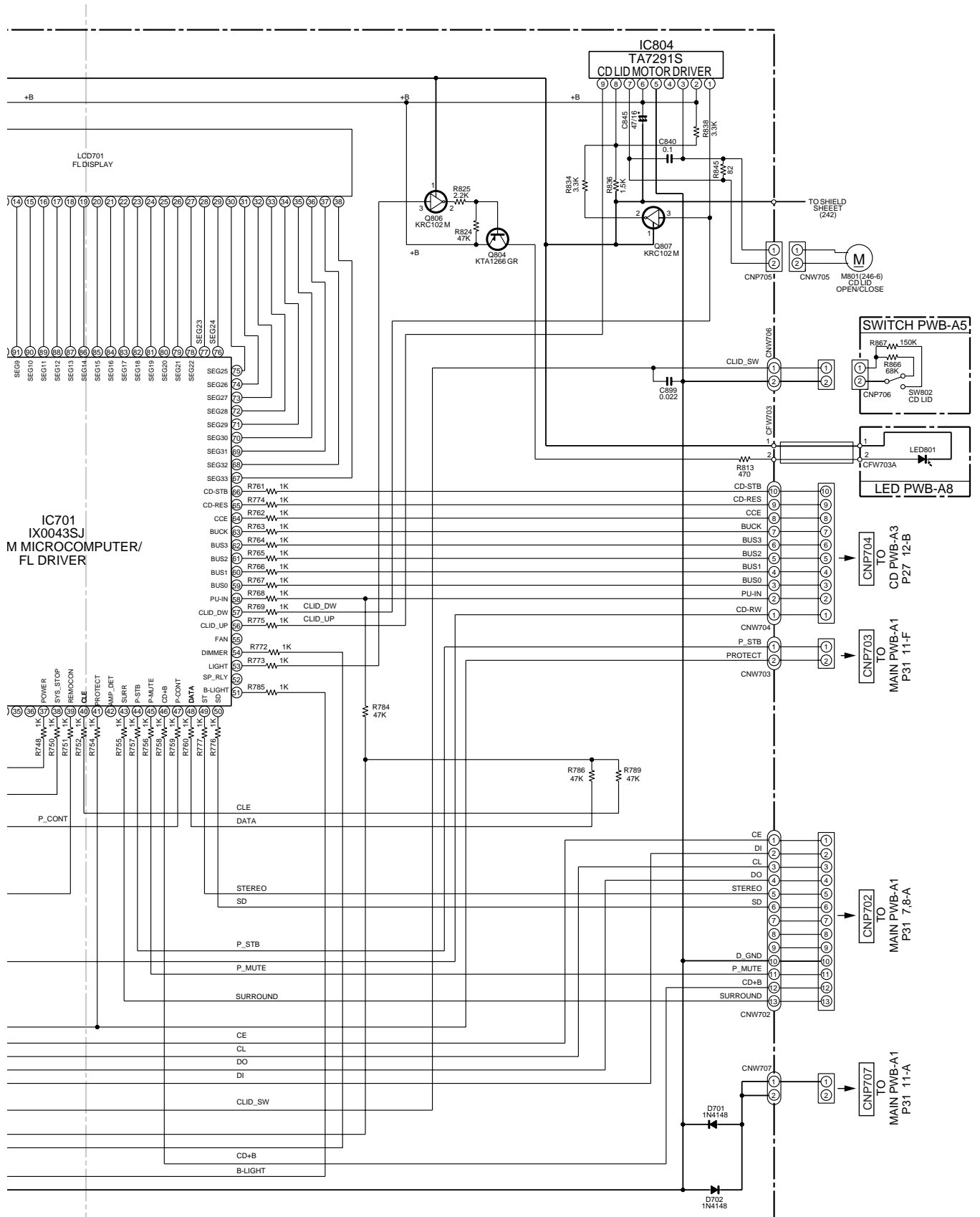
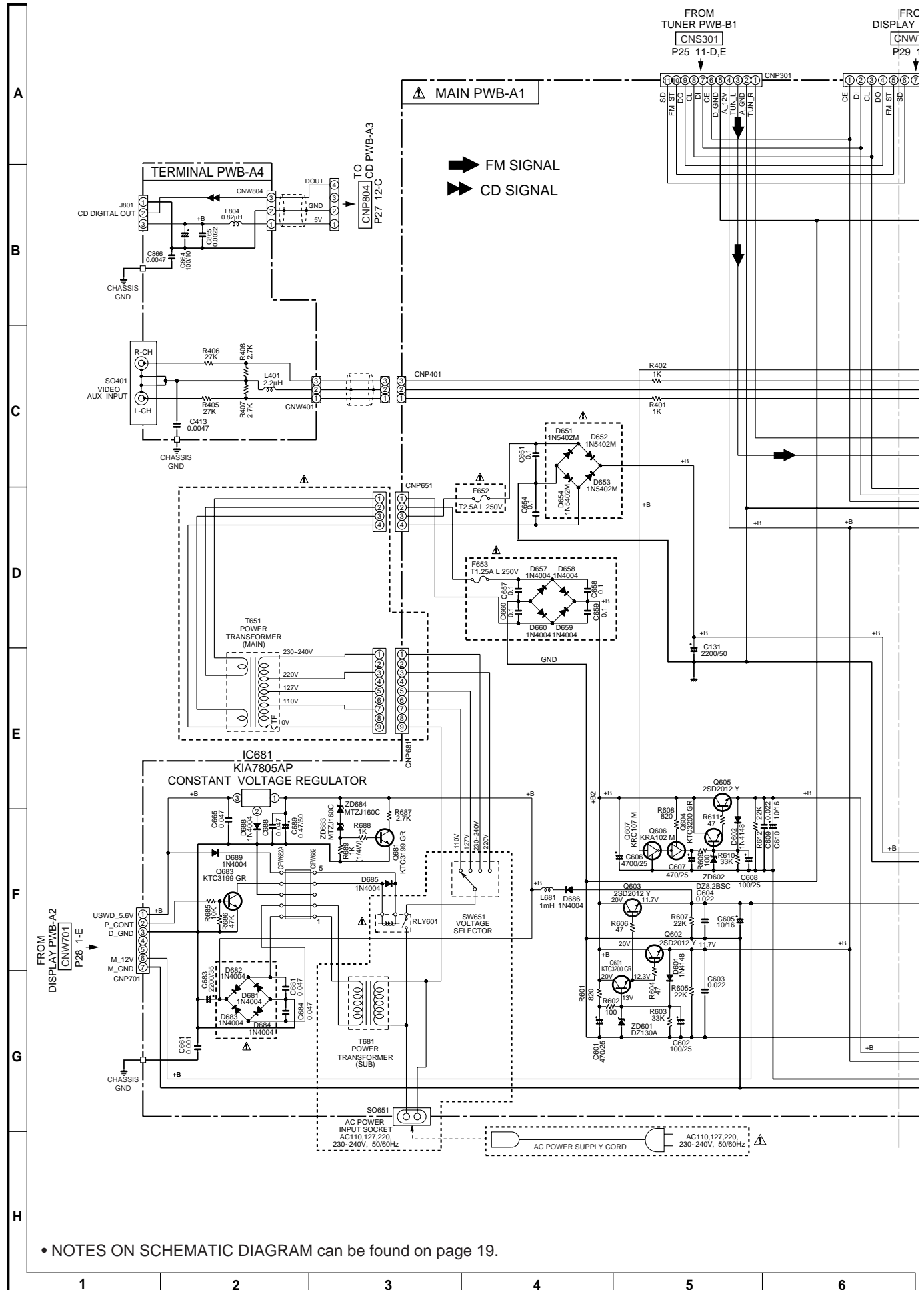
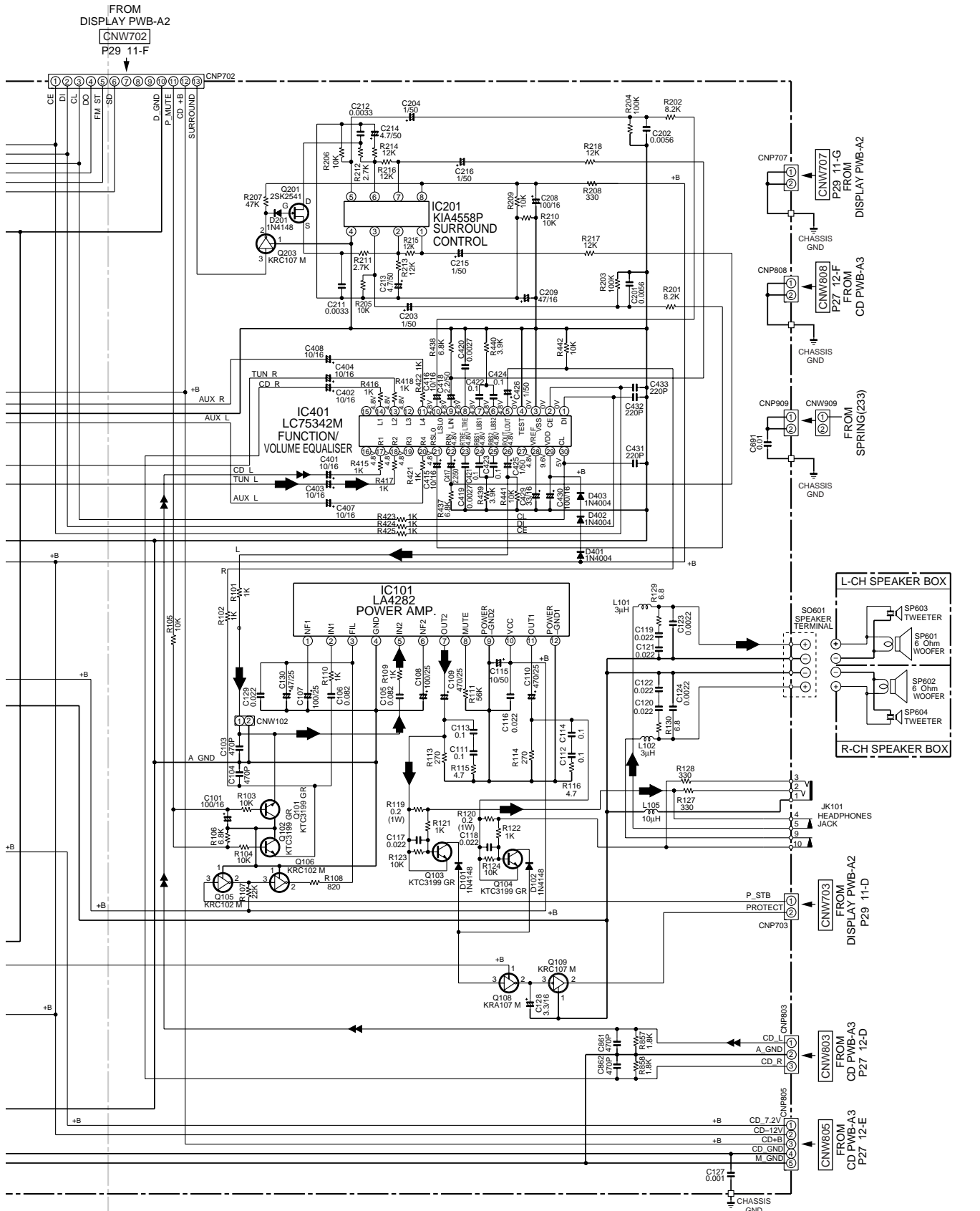


Figure 29 SCHEMATIC DIAGRAM (6/8)
- 29 -



• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 30 SCHEMATIC DIAGRAM (7/8)
- 30 -



7	8	9	10	11	12
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Figure 31 SCHEMATIC DIAGRAM (8/8)

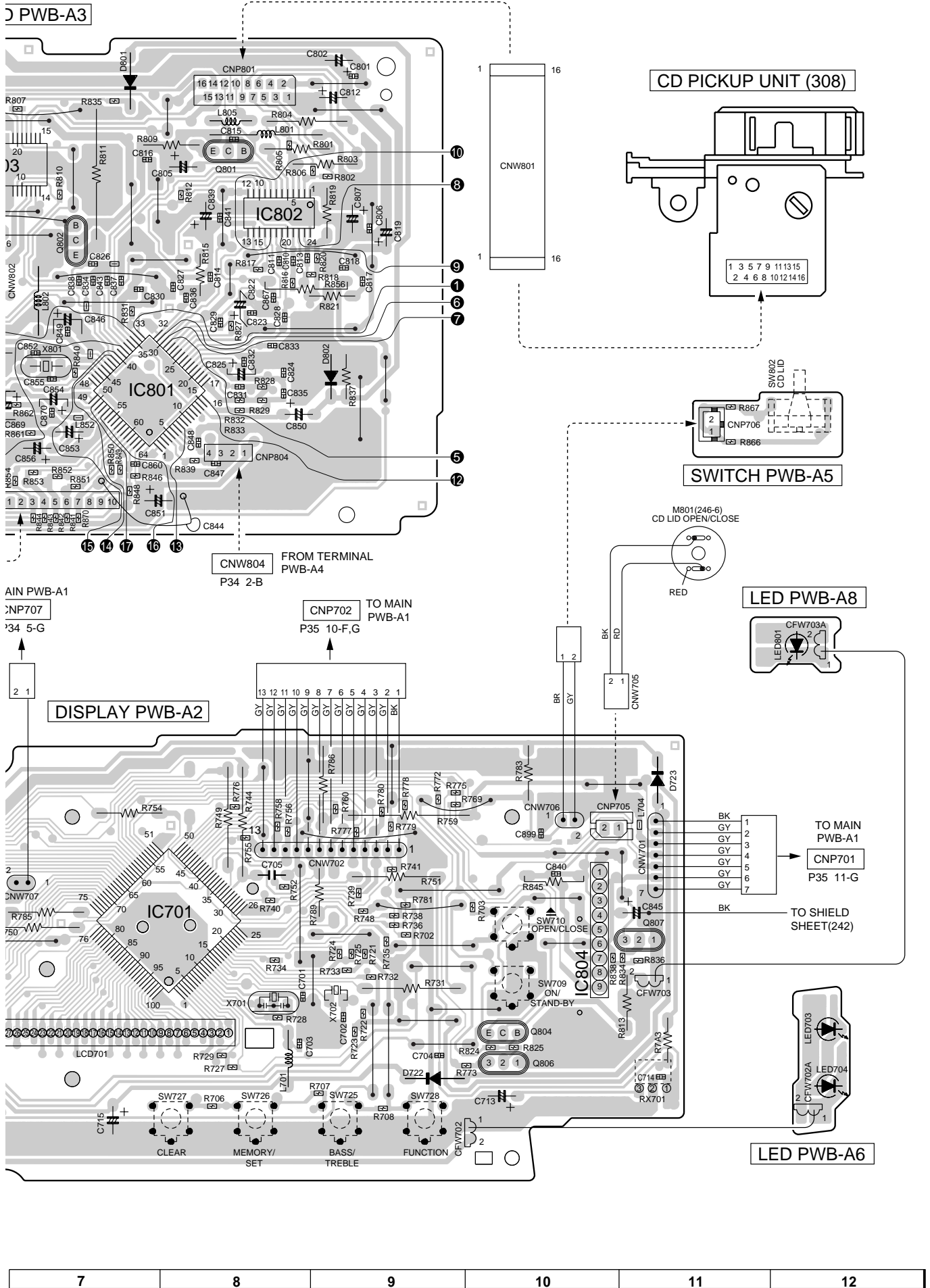


Figure 33 WIRING SIDE OF P.W.BOARD (2/4)

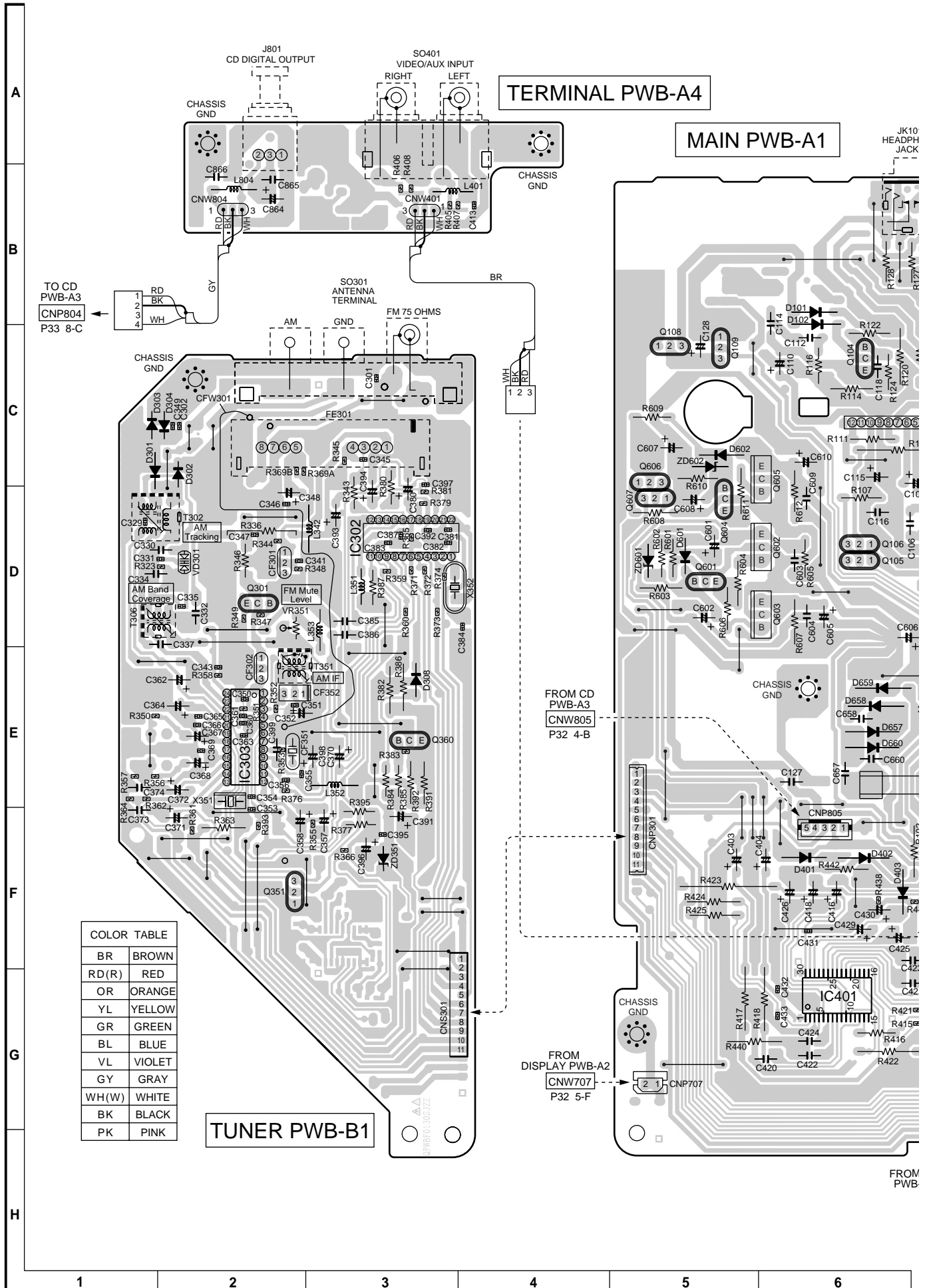


Figure 34 WIRING SIDE OF P.W.BOARD (3/4)

TROUBLESHOOTING

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn off the power, and wipe the lens softly using a cleaning paper moistened with commercially available cleaning solution so as not to damage it.

Be careful not to touch the lens with bare hands.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.

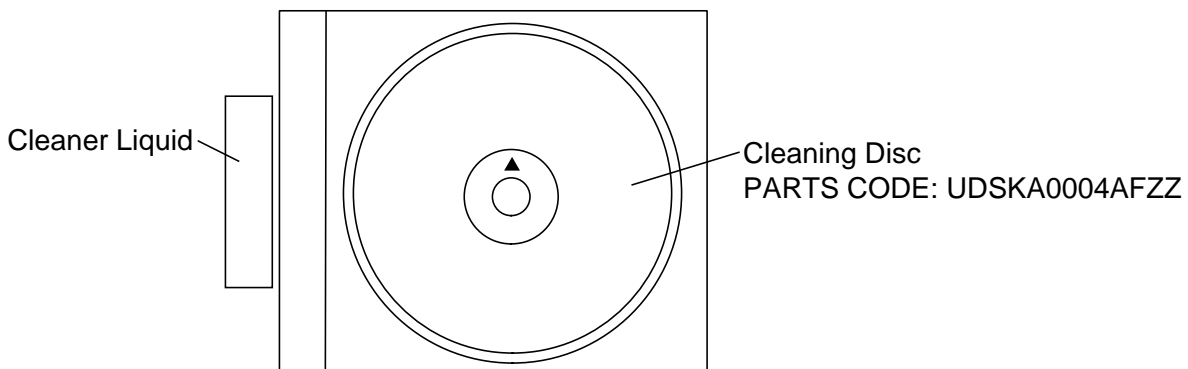
To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

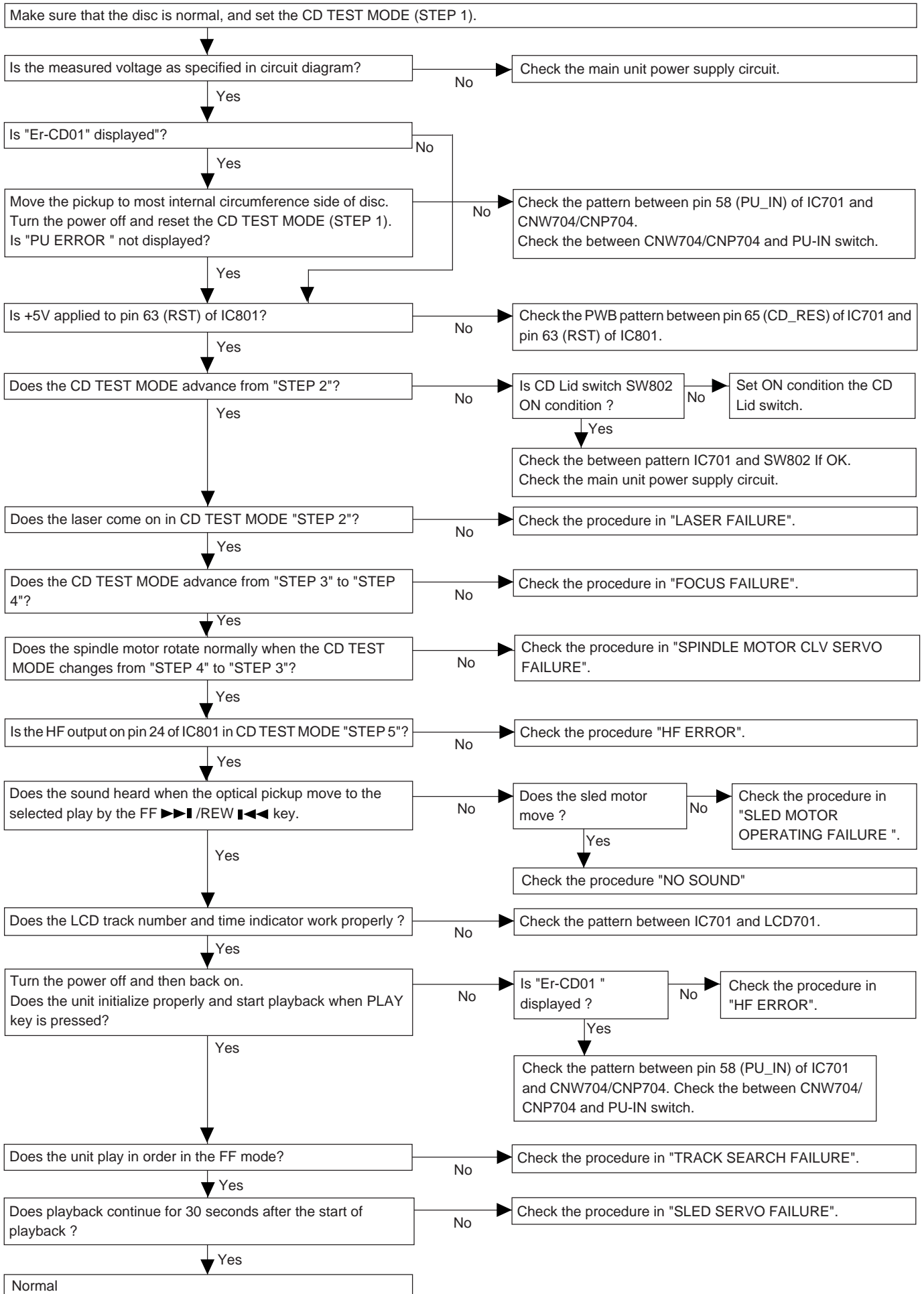
HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has ▲ the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continues to turn, press the stop button.

CAUTION

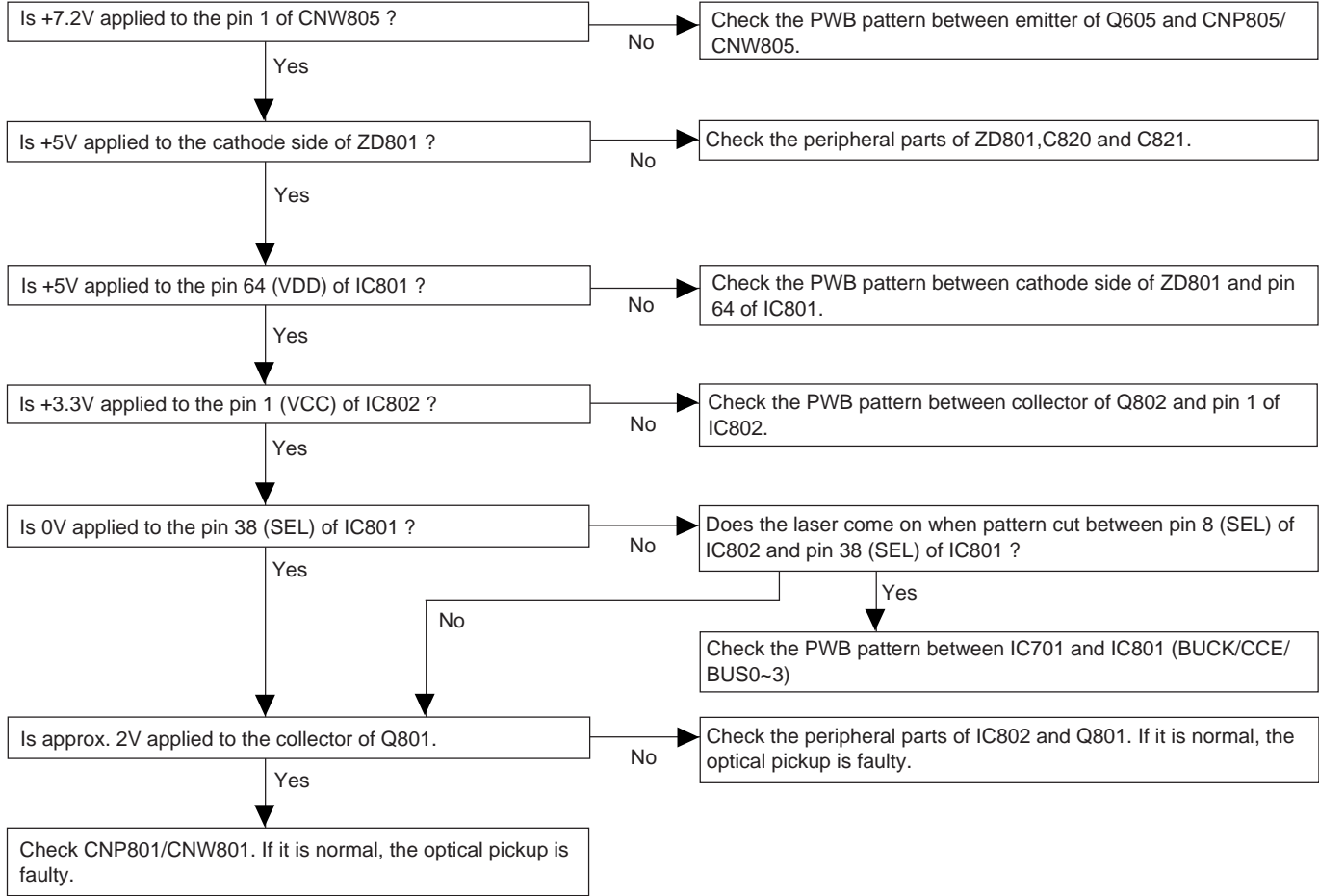
- The CD lens cleaner should be effective for 30 - 50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
 - If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
 - Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
 - The CD cleaner disc must not be used on car CD player or on computer CD ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting product is prohibited by law.



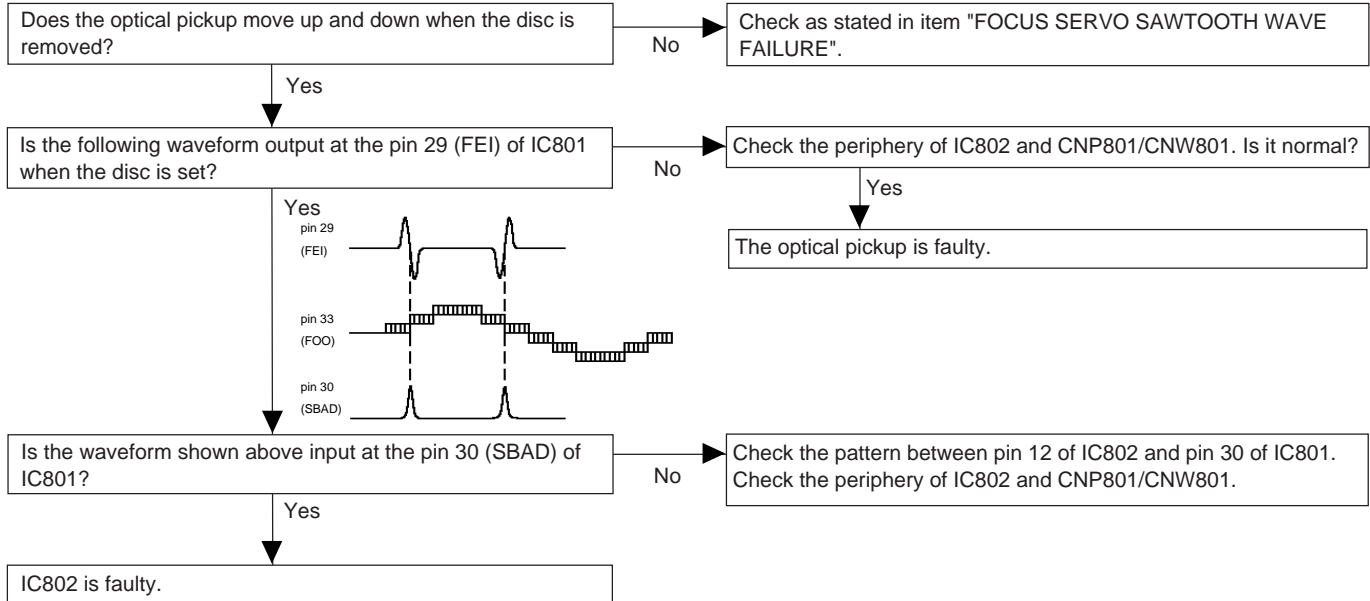


XL-1500W

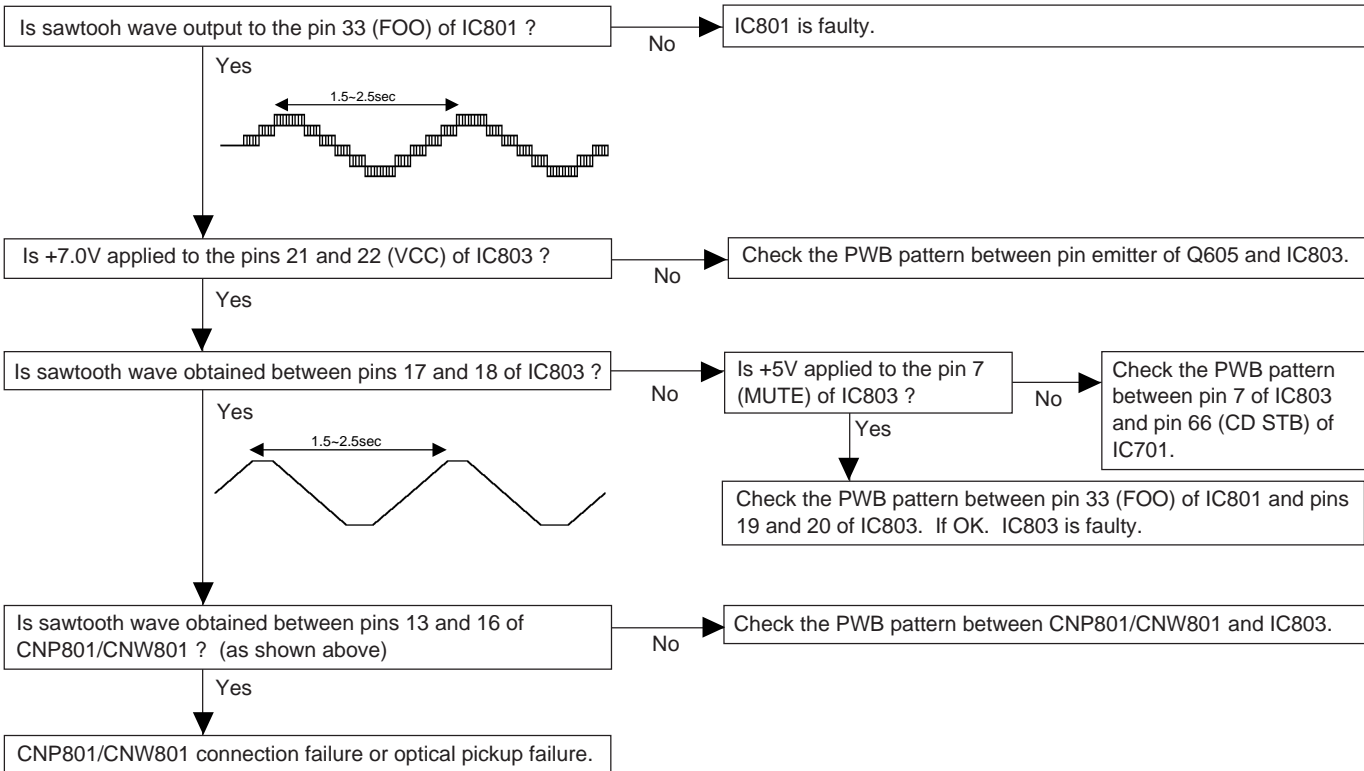
• Laser failure.



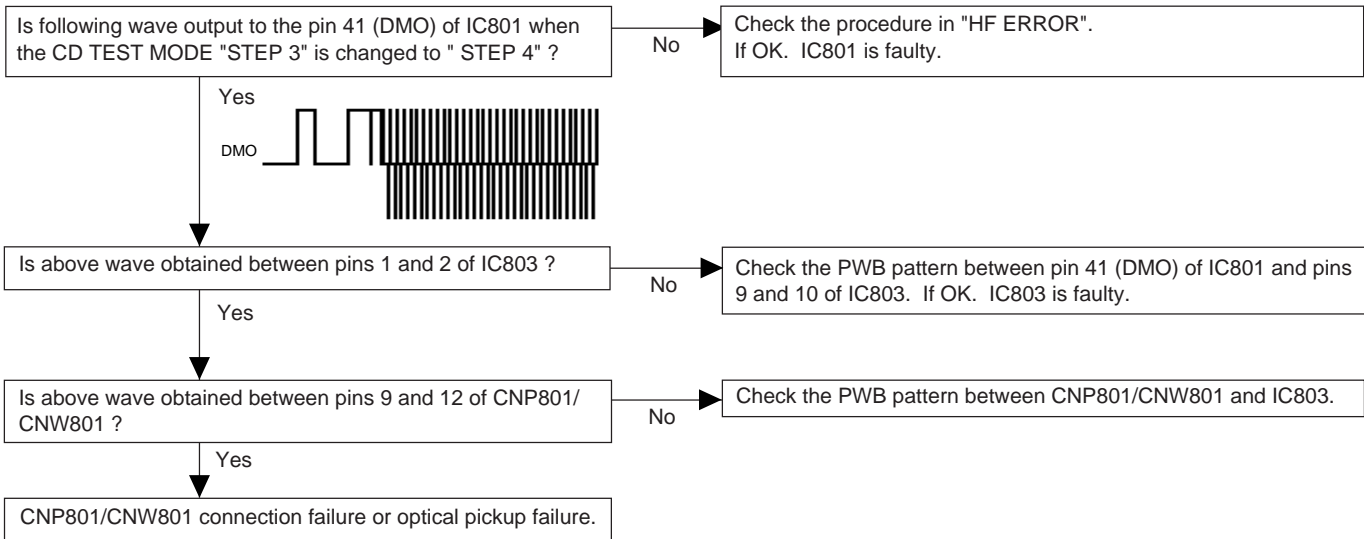
• Focus failure.



• Focus servo sawtooth wave failure.



• Spindle motor clv servo failure.

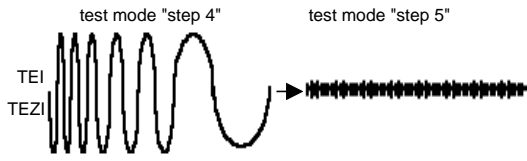


XL-1500W

• HF error.

Is output (tracking error signal) obtained at the pins 31 (TEI) and 32 (TEZI) of IC801 the CD TEST MODE "STEP 4" is changed to "STEP 5"?

Yes



No

Is output obtained at the pins 3 and 8 of CNP801/CNW801.

No

Optical pickup failure.

Yes

Check the periphery of IC802.
Check the PWB pattern between pin 11 (TEO) of IC802 and pins 31 and 32 of IC801.
Is it normal ?

No

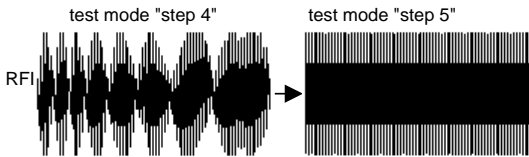
IC802 is faulty.

Yes

Check the PWB pattern between pin 34 (TRO) of IC801 and pin 25 of IC803.
Check the periphery of IC803 and CNP801/CNW801.
If OK. Optical pickup failure.

Is output (HF signal) obtained at the pin 24 (RFI) of IC801 when the CD TEST MODE "STEP 4" is changed to "STEP 5"?

Yes



No

Is output obtained at the pins 4 and 5,6 of CNP801/CNW801.

No

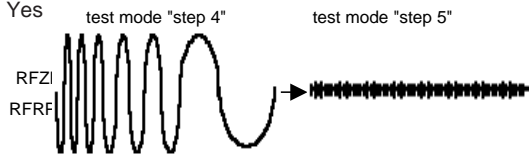
Optical pickup failure.

Yes

Check the periphery of IC802.
Check the PWB pattern between pin 19 (RFGO) of IC802 and pins 24 (RFI) of IC801.
If OK. IC802 is faulty

Is output (HF signal) obtained at the pins 27 (RFZI) and 28 (RFRP) of IC801 when the CD TEST MODE "STEP 4" is changed to "STEP 5"?

Yes



No

Check the periphery of IC802.
Check the PWB pattern between pin17 (RFRP) of IC802 and pins 27 (RFZI) and 28 (RFRP) of IC801.
If OK. IC802 is faulty.

Is the following wave output to the pin 41 (DMO) of IC801 when the CD TEST MODE "STEP 4" or "STEP 5"?

Yes



No

Check the periphery pins 15~19 of IC801.
If OK. IC801 failure.

Normal.

• No sound.

No sound from both L and R-ch?

No

Check the interval between the pins 50 or 53 of IC801 and the pins 2 or 5 of IC101.

Yes

Is +3.3V applied to pin 51 (DVDD) of IC801?

No

Check the PWB pattern between pin 51 of IC801 and Q808.

Yes

Is signal of pins 50 and 53 of IC801 output?

No

Check the peripheral parts of IC801. If OK, IC801 is faulty.

Yes

The main PWB is faulty.

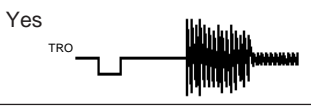
• Track search failure

Does the sled motor run in FF/REW state when the SERVO TEST MODE "STEP1" is set?

No → Check as stated in item "SLED MOTOR OPERATION FAILURE".

Yes
Is the following wave output to the pin 34 (TRO) of IC801 during track search in normal playback?

No → IC801 failure.



Is the following wave output to the pins 11 (TEO) of IC802 during track search in normal playback?

No → Check the PWB pattern between pin 34 (TRO) of IC801 and pin 25 of IC803. Check the PWB pattern between pins 26 and 27 of IC803 and Optical pickup. If OK. Optical pickup failure.



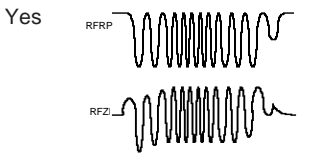
Is the above wave output to the pins 31 (TEI) and 32 (TEZI) of IC801 during track search in normal playback?

No → Check the PWB pattern between pin 11 (TEO) of IC802 and pins 31 and 32 of IC801. If OK. IC802 failure.

Yes

Is the following wave output to the pin 27 (RFZI) and 28 (RFRP) of IC801 during track search in normal playback?

No → Check the PWB pattern between pins 22 (RFO), 17 (RFRP), 19 (RFGO) and 20 (RFGC) of IC802 and pins 24, 27, 28 and 36 of IC801. If OK. IC802 failure.



Normal.

• Sled motor operation failure.

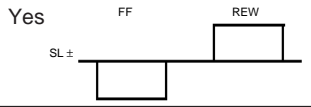
Is following sled feed signal output the pin 40 (FMO) of IC801 when FF ►►►/REW ◄◄◄ key is pressed after the CD TEST MODE "STEP 1" is set?

No → C801 is faulty.



Is following sled feed signal output the pins 3 and 4 of IC803 when FF ►►►/REW ◄◄◄ key is pressed after the CD TEST MODE "STEP 1" is set?

No → Check the PWB pattern between pin 40 of IC801 and pins 3 and 4 of IC803.



Is sled feed signal output the pins 1 and 2 of IC803?

No → Check the peripheral parts of IC803. If OK, IC803 is faulty.

Yes

Is sled feed voltage applied between both terminals of sled motor?

No → Check the CNW802.

Yes

Check the CD mechanism (periphery of sled motor). If the sled motor does not run when DC2.0V is applied to both terminals of sled motor, the sled motor is faulty.

• Sled servo failure.

Is following sled signal output the pin 40 (FMO) of IC801 during playback?

No → IC801 is faulty.



Normal.

FUNCTION TABLE OF IC

IC401 VHiLC75342M-1: Function/Volume Equaliser (LC75342M)

Pin No.	Port Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of [H] -> [L]. Each analog switch is activated. Data transfer enabled at [H] level.
3	VSS	Ground pin.
4	TEST	Electronic volume control pin. To be set to the VSS potential.
5	LOUT	Volume + equalizer output pin.
6	LBASS2	Bass-band filter comprising capacitor and resistor connection pin.
7	LBASS1	Bass-band filter comprising capacitor and resistor connection pin.
8	LTRE	Capacitor connection pin comprising treble band filter.
9	LIN	Volume + equalizer input pin.
10	LSELO	Input selector output pin.
11	L4	Input signal pin.
12*	L3	Input signal pin.
13	L2	Input signal pin.
14	L1	Input signal pin.
15*	NC	No CONNECT pin. To be open or connected to VSS.
16*	NC	No CONNECT pin. To be open or connected to VSS.
17	R1	Input signal pin.
18	R2	Input signal pin.
19*	R3	Input signal pin.
20	R4	Input signal pin.
21	RSELO	Input selector output pin.
22	RIN	Volume + equalizer input pin.
23	RTRE	Capacitor connection pin comprising treble band filter.
24	RBASS1	Bass-band filter comprising capacitor and resistor connection pin.
25	RBASS2	Bass-band filter comprising capacitor and resistor connection pin.
26	ROUT	Volume + equalizer output pin.
27*	NC	No CONNECT pin. To be open or connected to VSS.
28	Vref	0.5 x VDD voltage generation block for analog ground. Capacitor of several 10 μ F to be connected between Vref and AWSS (VSS) as a counter measure against power ripple.
29	VDD	Supply pin.
30	CL	Serial data and clock input pin for control.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC401 VHiLC75342M-1: Function/Volume Equaliser (LC75342M)

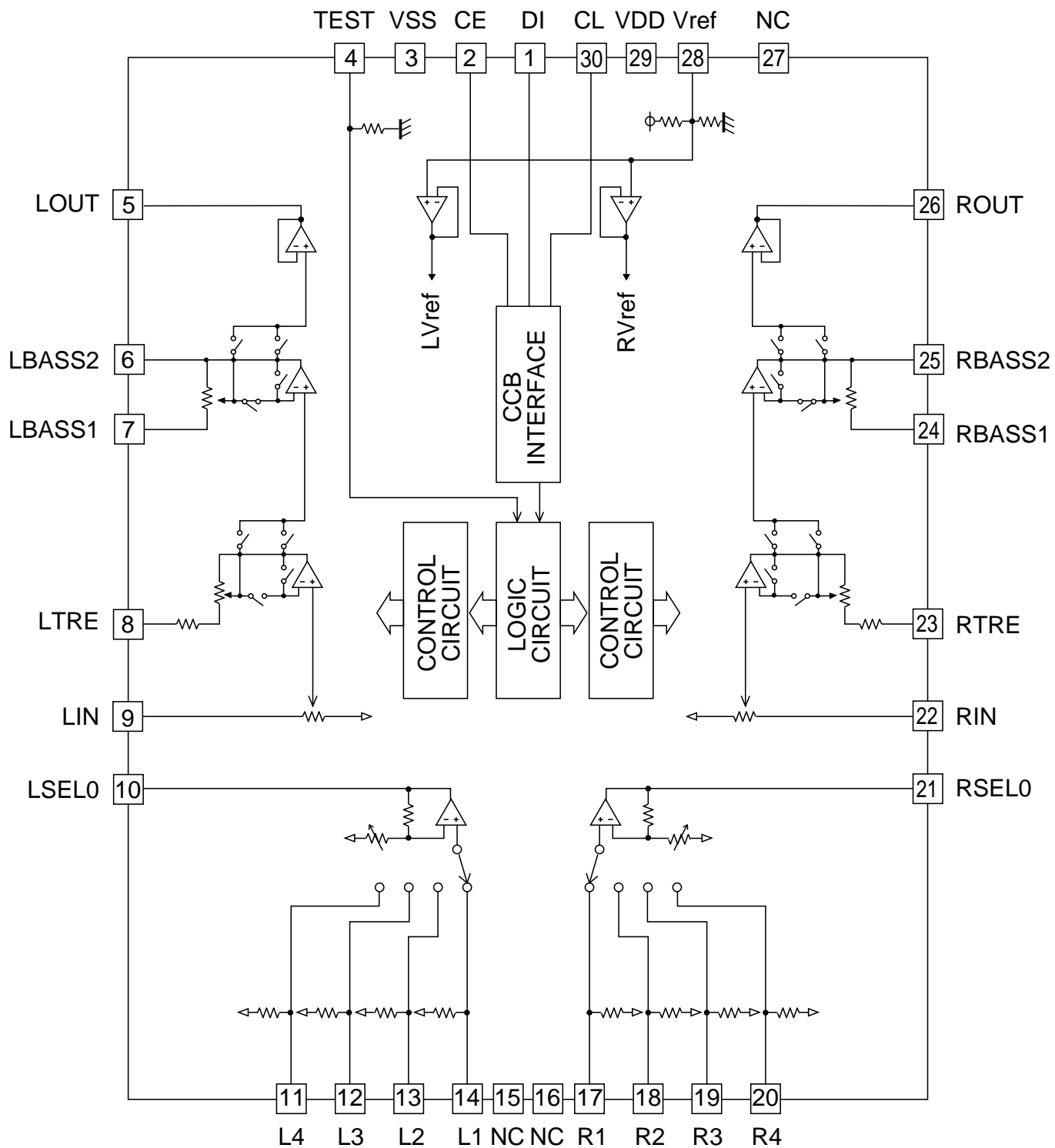


Figure 43 BLOCK DIAGRAM OF IC

SHARP PARTS GUIDE

COMPACT AUDIO SYSTEM

MODEL XL-1500W

XL-1500W Compact Audio System consisting of XL-1500W (main unit) and CP-XL1500H (speaker system).

“HOW TO ORDER REPLACEMENT PARTS”

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC Ceramic type
 VCK Ceramic type
 VCT Semiconductor type
 VC •• MF Cylindrical type (without lead wire)
 VC •• MN Cylindrical type (without lead wire)
 VC •• TV Square type (without lead wire)
 VC •• TQ Square type (without lead wire)
 VC •• CY Square type (without lead wire)
 VC •• CZ Square type (without lead wire)
 VC •••••••• J .. The 13th character represents capacity difference.
 ("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
 "C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)


If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD Carbon-film type
 VRS Carbon-film type
 VRN Metal-film type
 VR •• MF Cylindrical type (without lead wire)
 VR •• MN Cylindrical type (without lead wire)
 VR •• TV Square type (without lead wire)
 VR •• TQ Square type (without lead wire)
 VR •• CY Square type (without lead wire)
 VR •• CZ Square type (without lead wire)
 VR •••••••• J .. The 13th character represents error.
 ("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:

Parts marked with “” are important for maintaining the safety of the set.

Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

XL-1500W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS			
IC101	VHILA4282/-1	J AM	Power Amp.,LA4282
IC201	VHIKIA4558P-1	J AC	Surround Control ,KIA4558P
IC302	VHILC72131/-1	J AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC401	VHILC75342M-1	J AN	Function/Volume Equaliser, LC75342M
IC681	VHIKIA7805API	J AF	Constant Voltage Regulator, KIA7805AP
IC701	RH-IX0043SJZZ	J AX	System Microcomputer/FL Driver,IX0043SJ
IC801	VHITC94A14F-1	J AY	Servo/Signal Control,TC94A14F
IC802	VHITA2157F/-1	J AN	Head Amp.,TA2157F
IC803	VHIMM1469PH-1	J AN	Focus/Tracking/Spin/Sled Driver, MM1469PH
IC804	VHITA7291S/-1	J AH	CD LID Motor Driver,TA7291S

TRANSISTORS

Q101~104	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q105,106	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q108	VSKRA107M/-1	J AE	Digital,PNP,KRA107 M
Q109	VSKRC107M/-1	J AC	Digital,NPN,KRC107 M
Q201	VS2SK2541/-1	J AC	FET,2SK2541
Q203	VSKRC107M/-1	J AC	Digital,NPN,KRC107 M
Q301	VS2SC380-O/-1	J AC	Silicon,NPN,2SC380 O
Q351	VSKRC104M/-1	J AC	Digital,NPN,KRC104 M
Q360	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q601	VSKTC3200GR-1	J AC	Silicon,NPN,KTC3200 GR
Q602,603	VS2SD2012Y/-1	J AF	Silicon,NPN,2SD2012 Y
Q604	VSKTC3200GR-1	J AC	Silicon,NPN,KTC3200 GR
Q605	VS2SD2012Y/-1	J AF	Silicon,NPN,2SD2012 Y
Q606	VSKRA102M/-1	J AC	Digital,PNP,KRA102 M
Q607	VSKRC107M/-1	J AC	Digital,NPN,KRC107 M
Q681	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q683	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q701	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q702,703	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q706	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q707,708	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q709	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q801	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q802	VS2SB562-C/-1	J AD	Silicon,PNP,2SB562 C
Q804	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q806,807	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q808	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q809	VSKRA102M/-1	J AC	Digital,PNP,KRA102 M
Q810	VSKRC107M/-1	J AC	Digital,NPN,KRC107 M

DIODES

D101,102	VHD1N4148/-1	J AA	Silicon,1N4148
D201	VHD1N4148/-1	J AA	Silicon,1N4148
D301~304	VHD1N4148/-1	J AA	Silicon,1N4148
D308	VHD1N4148/-1	J AA	Silicon,1N4148
D401~403	VHD1N4004/-1	J AB	Silicon,1N4004
D601,602	VHD1N4148/-1	J AA	Silicon,1N4148
△ D651~654	VHD1N5402M/-1	J AE	Silicon,1N5402M
△ D657~660	VHD1N4004/-1	J AB	Silicon,1N4004
△ D681~684	VHD1N4004/-1	J AB	Silicon,1N4004
D685	VHD1N4004/-1	J AB	Silicon,1N4004
D686	VHD1N4004/-1	J AB	Silicon,1N4004
D688,689	VHD1N4004/-1	J AB	Silicon,1N4004
D701,702	VHD1N4148/-1	J AA	Silicon,1N4148
D720~723	VHD1N4148/-1	J AA	Silicon,1N4148
D801~806	VHD1N4148/-1	J AA	Silicon,1N4148
LED701~704	VHPSLI343YC-1	J AF	LED,SLI343YC
LED801	VHPSYD5310+1	J AF	LED,SYD5310
VD301	VHCSVC348S/-1	J AK	Variable Capacitance,SVC348S
ZD351	VHEDZ5R1BSB-1	J AC	Zener,5.1V,DZ5.1BSB
ZD601	VHEDZ130BSA-1	J AC	Zener,13V,DZ130A
ZD602	VHEDZ8R2BSC-1	J AB	Zener,8.2V,DZ8.2BSC
ZD683,684	VHEMTZH160C-1	J	Zener,16V,MTZH160C
ZD701	VHEDZ3R3BSB-1	J AB	Zener,3.3V,DZ3.3BSB
ZD801	VHEDZ5R1BSB-1	J AC	Zener,5.1V,DZ5.1BSB
ZD802	VHEDZ3R9BSB-1	J AC	Zener,3.9V,DZ3.9BSB

FILTERS

CF301,302	RFILF0072AFZZ	J AG	FM IF
CF351	RFILF0003AWZZ	J AK	FM IF
CF352	RFILA0003SJZZ	J AF	AM IF

TRANSFORMERS

T302	RCILA0007SJZZ	J AG	AM Antenna
T306	RCILB0009SJZZ	J AG	AM OSC.
T351	RCIL10004SJZZ	J AF	AM IF
△ T651	RTRNP0090SJZZ	J	Power Transformer (Main)
△ T681	RTRNP0093SJZZ	J	Power Transformer (Sub)

COILS

L101,102	RCILZ0024AWZZ	J AC	3 μH,Choke
L105	VP-DH100K0000	J AB	10 μH,Choke
L342	VP-DH2R2K0000	J AB	2.2 μH,Peaking
L351,352	VP-DH101K0000	J AB	100 μH,Choke
L353	VP-DH102K0000	J AB	1 mH,Choke
L401	VP-DH2R2K0000	J AB	2.2 μH,Peaking
L681	VP-DH102K0000	J AB	1 mH,Choke
L701	VP-DH100K0000	J AB	10 μH,Choke
L704	RCILC0353AFZZ	J AB	Tip Solid Induction,100mA
L801,802	VP-DH2R2K0000	J AB	2.2 μH,Peaking
L804	VP-XHR82K0000	J AC	0.82 μH
L805	VP-DH2R2K0000	J AB	2.2 μH,Peaking
L851~853	RCILC0353AFZZ	J AB	Tip Solid Induction,100mA

VARIABLE RESISTOR

VR351	RVR-M0026AWZZ	J AC	10 kohm (B),Semi-VR
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VIBRATORS

X351	RCRM-0007SJZZ	J AG	VCO,456 kHz
X352	RCRSP0006SJZZ	J AF	Crystal,4.5 MHz
X701	RCRM-0008SJZZ	J AG	Ceramic,8 MHz
X702	RCRSP0007SJZZ	J AE	Crystal,32.768 kHz
X801	RCRSP0002SJZZ	J AL	Crystal,16.93 MHz

CAPACITORS

C101	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic
C103,104	VCKYPA1HB471K	J AA	470 pF,50V
C105,106	VCQYKA1HM823J	J AC	0.082 μF,50V,Mylar
C107,108	RC-GZA107AF1E	J AB	100 μF,25V,Electrolytic
C109,110	RC-GZV477AF1E	J AC	470 μF,25V,Electrolytic
C111~114	VCFYFA1HA104J	J AC	0.1 μF,50V,Thin Film
C115	RC-GZA106AF1H	J AB	10 μF,50V,Electrolytic
C116~122	VCKYPA1HF223Z	J AB	0.022 μF,50V
C123,124	VCKYPA1HB222K	J AA	0.0022 μF,50V
C127	VCKYPA1HB102K	J AA	0.001 μF,50V
C128	RC-GZA335AF1C	J AB	3.3 μF,16V,Electrolytic
C129	VCKYPA1HF223Z	J AB	0.022 μF,50V
C130	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic
C131	RC-GZW228AF1H	J AH	2200 μF,50V,Electrolytic
C201,202	VCKYCY1HB562K	J AA	0.0056 μF,50V
C203,204	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic
C208	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic
C209	RC-GZA476AF1C	J AB	47 μF,16V,Electrolytic
C211,212	VCKYCY1HB332K	J AA	0.0033 μF,50V
C213,214	RC-GZA475AF1H	J AB	4.7 μF,50V,Electrolytic
C215,216	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic
C301	VCKYCY1EF123Z	J	0.012 μF,25V
C302	VCKYCY1HB102K	J AA	0.001 μF,50V
C329	VCKYCY1EF223Z	J AB	0.022 μF,25V
C330	VCCCPA1HH8R0D	J AA	8 pF (CH),50V
C331	VCKYCY1EF473Z	J AB	0.047 μF,25V
C332	VCKYPA1HF223Z	J AB	0.022 μF,50V
C334	VCCUPA1HJ270J	J AA	27 pF (UJ),50V
C335	VCKYCY1HB561K	J AA	560 pF,50V
C337	VCKYPA1HF223Z	J AB	0.022 μF,50V
C341	VCKYCY1EF223Z	J AB	0.022 μF,25V
C343	VCCSCY1HL330J	J AD	33 pF,50V
C345~347	VCKYCY1EF223Z	J AB	0.022 μF,25V
C348	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic
C349	VCKYCY1HB102K	J AA	0.001 μF,50V

XL-1500W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R127,128	VRD-ST2EE331J	J AA	330 ohms,1/4W	R687	VRD-RT2HD272J	J AA	2.7 kohms,1/2W
R129,130	VRD-ST2EE6R8J	J AA	6.8 ohms,1/4W	R688	VRD-ST2CD102J	J AA	1 kohm,1/6W
R201	VRS-CY1JB822J	J AA	8.2 kohms,1/16W	R689	VRD-ST2EE102J	J AA	1 kohm,1/4W
R202	VRD-ST2EE822J	J AA	8.2 kohms,1/4W	R702	VRS-CY1JB103J	J AA	10 kohm,1/16W
R203,204	VRS-CY1JB104J	J AA	100 kohm,1/16W	R703	VRS-CY1JB473J	J AA	47 kohms,1/16W
R205,206	VRS-CY1JB103J	J AA	10 kohm,1/16W	R706	VRS-CY1JB152J	J AA	1.5 kohms,1/16W
R207	VRD-ST2CD473J	J AA	47 kohms,1/6W	R707,708	VRS-CY1JB122J	J AA	1.2 kohms,1/16W
R208	VRD-ST2EE331J	J AA	330 ohms,1/4W	R716	VRS-CY1JB103J	J AA	10 kohm,1/16W
R209,210	VRS-CY1JB103J	J AA	10 kohm,1/16W	R717	VRS-CY1JB562J	J AA	5.6 kohms,1/16W
R211	VRS-CY1JB272J	J AA	2.7 kohms,1/16W	R718	VRS-CY1JB392J	J AA	3.9 kohms,1/16W
R212	VRD-ST2CD272J	J AA	2.7 kohms,1/6W	R719	VRS-CY1JB472J	J AA	4.7 kohms,1/16W
R213-216	VRS-CY1JB123J	J AA	12 kohms,1/16W	R720	VRS-CY1JB392J	J AA	3.9 kohms,1/16W
R217	VRD-ST2CD123J	J AA	12 kohms,1/6W	R721,722	VRS-CY1JB103J	J AA	10 kohm,1/16W
R218	VRD-ST2EE123J	J AA	12 kohms,1/4W	R723	VRS-CY1JB473J	J AA	47 kohms,1/16W
R323	VRS-CY1JB683J	J AA	68 kohms,1/16W	R724	VRS-CY1JB822J	J AA	8.2 kohms,1/16W
R336	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R725	VRS-CY1JB103J	J AA	10 kohm,1/16W
R343	VRD-ST2CD181J	J AA	180 ohms,1/6W	R727	VRS-CY1JB473J	J AA	47 kohms,1/16W
R344	VRS-CY1JB681J	J AA	680 ohms,1/16W	R728	VRS-CY1JB102J	J AA	1 kohm,1/16W
R345	VRS-CY1JB472J	J AA	4.7 kohms,1/16W	R729	VRS-CY1JB473J	J AA	47 kohms,1/16W
R346	VRD-ST2CD331J	J AA	330 ohms,1/6W	R731	VRD-ST2EE102J	J AA	1 kohm,1/4W
R347	VRS-CY1JB682J	J AA	6.8 kohms,1/16W	R732-736	VRS-CY1JB102J	J AA	1 kohm,1/16W
R348	VRS-CY1JB681J	J AA	680 ohms,1/16W	R738,739	VRS-CY1JB102J	J AA	1 kohm,1/16W
R349	VRS-CY1JB330J	J AA	33 ohms,1/16W	R740,741	VRS-CY1JB102J	J AA	1 kohm,1/16W
R350	VRS-CY1JB272J	J AA	2.7 kohms,1/16W	R744	VRD-ST2CD102J	J AA	1 kohm,1/6W
R351	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R748	VRS-CY1JB102J	J AA	1 kohm,1/16W
R352	VRS-CY1JB102J	J AA	1 kohm,1/16W	R749,750	VRD-ST2EE102J	J AA	1 kohm,1/4W
R353	VRS-CY1JB271J	J AA	270 ohms,1/16W	R751	VRD-ST2CD102J	J AA	1 kohm,1/6W
R355	VRS-CY1JB332J	J AA	3.3 kohms,1/16W	R752	VRS-CY1JB102J	J AA	1 kohm,1/16W
R356	VRS-CY1JB102J	J AA	1 kohm,1/16W	R754	VRD-ST2EE102J	J AA	1 kohm,1/4W
R357	VRS-CY1JB474J	J AA	470 kohms,1/16W	R755-758	VRS-CY1JB102J	J AA	1 kohm,1/16W
R358	VRS-CY1JB822J	J AA	8.2 kohms,1/16W	R759	VRD-ST2CD102J	J AA	1 kohm,1/6W
R359	VRS-CY1JB182J	J AA	1.8 kohms,1/16W	R760-769	VRS-CY1JB102J	J AA	1 kohm,1/16W
R360	VRS-CY1JB472J	J AA	4.7 kohms,1/16W	R772-777	VRS-CY1JB102J	J AA	1 kohm,1/16W
R361,362	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R778-781	VRS-CY1JB473J	J AA	47 kohms,1/16W
R363	VRD-ST2CD332J	J AA	3.3 kohms,1/6W	R783	VRD-ST2CD333J	J AA	33 kohms,1/6W
R364	VRS-CY1JB332J	J AA	3.3 kohms,1/16W	R784	VRS-CY1JB473J	J AA	47 kohms,1/16W
R365	VRS-CY1JB103J	J AA	10 kohm,1/16W	R785	VRD-ST2EE102J	J AA	1 kohm,1/4W
R366	VRS-CY1JB222J	J AA	2.2 kohms,1/16W	R786	VRD-ST2CD473J	J AA	47 kohms,1/6W
R369A	VRS-CY1JB680J	J AA	68 ohms,1/16W	R787	VRS-CY1JB473J	J AA	47 kohms,1/16W
R369B	VRS-CY1JB820J	J AA	82 ohms,1/16W	R789	VRD-ST2CD473J	J AA	47 kohms,1/6W
R371-374	VRS-CY1JB102J	J AA	1 kohm,1/16W	R791	VRS-CY1JB472J	J AA	4.7 kohms,1/16W
R376	VRS-CY1JB103J	J AA	10 kohm,1/16W	R792	VRS-CY1JB473J	J AA	47 kohms,1/16W
R377	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R793	VRS-CY1JB103J	J AA	10 kohm,1/16W
R379	VRS-CY1JB222J	J AA	2.2 kohms,1/16W	R796	VRD-ST2EE102J	J AA	1 kohm,1/4W
R380	VRD-ST2CD152J	J AA	1.5 kohms,1/6W	R797	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R381	VRS-CY1JB103J	J AA	10 kohm,1/16W	R798,799	VRD-ST2EE391J	J AA	390 ohms,1/4W
R382	VRD-ST2EE331J	J AA	330 ohms,1/4W	R801	VRD-ST2CD473J	J AA	47 kohms,1/6W
R383	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R802	VRS-CY1JB823J	J AA	82 kohms,1/16W
R384	VRD-ST2CD682J	J AA	6.8 kohms,1/6W	R803	VRD-ST2CD823J	J AA	82 kohms,1/6W
R385	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R804	VRD-ST2CD473J	J AA	47 kohms,1/6W
R386	VRD-ST2EE331J	J AA	330 ohms,1/4W	R805,806	VRS-CY1JB823J	J AA	82 kohms,1/16W
R387	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R807,808	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R391,392	VRD-ST2EE391J	J AA	390 ohms,1/4W	R809	VRD-ST2EE100J	J AA	10 ohm,1/4W
R393	VRS-CY1JB102J	J AA	1 kohm,1/16W	R810	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R395	VRD-ST2CD473J	J AA	47 kohms,1/6W	R811	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
R401,402	VRS-CY1JB102J	J AA	1 kohm,1/16W	R812	VRS-CY1JB473J	J AA	47 kohms,1/16W
R405,406	VRS-CY1JB273J	J AA	27 kohms,1/16W	R813	VRD-ST2CD471J	J AA	470 ohms,1/6W
R407,408	VRS-CY1JB272J	J AA	2.7 kohms,1/16W	R815	VRD-ST2CD821J	J AA	820 ohms,1/6W
R415	VRS-CY1JB102J	J AA	1 kohm,1/16W	R816	VRS-CY1JB101J	J AA	100 ohm,1/16W
R416-418	VRD-ST2EE102J	J AA	1 kohm,1/4W	R817	VRS-CY1JB473J	J AA	47 kohms,1/16W
R421	VRS-CY1JB102J	J AA	1 kohm,1/16W	R818	VRS-CY1JB103J	J AA	10 kohm,1/16W
R422	VRD-ST2EE102J	J AA	1 kohm,1/4W	R819	VRD-ST2CD333J	J AA	33 kohms,1/6W
R423-425	VRD-ST2CD102J	J AA	1 kohm,1/6W	R820	VRS-CY1JB103J	J AA	10 kohm,1/16W
R437,438	VRS-CY1JB682J	J AA	6.8 kohms,1/16W	R821	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R439	VRS-CY1JB392J	J AA	3.9 kohms,1/16W	R824	VRS-CY1JB473J	J AA	47 kohms,1/16W
R440	VRD-ST2EE392J	J AA	3.9 kohms,1/4W	R825	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R441	VRS-CY1JB103J	J AA	10 kohm,1/16W	R826	VRD-ST2EE101J	J AA	100 ohm,1/4W
R442	VRD-ST2EE103J	J AA	10 kohm,1/4W	R827	VRS-CY1JB103J	J AA	10 kohm,1/16W
R601	VRD-ST2EE821J	J AA	820 ohms,1/4W	R828	VRS-CY1JB153J	J AA	15 kohms,1/16W
R602	VRD-ST2EE101J	J AA	100 ohm,1/4W	R829	VRS-CY1JB473J	J AA	47 kohms,1/16W
R603	VRD-ST2EE333J	J AA	33 kohms,1/4W	R831	VRS-CY1JB472J	J AA	4.7 kohms,1/16W
R604	VRD-ST2EE470J	J AA	47 ohms,1/4W	R832	VRS-CY1JB154J	J AA	150 kohms,1/16W
R605	VRD-ST2CD223J	J AA	22 kohms,1/6W	R833	VRS-CY1JB562J	J AA	5.6 kohms,1/16W
R606	VRD-ST2EE470J	J AA	47 ohms,1/4W	R834	VRS-CY1JB332J	J AA	3.3 kohms,1/16W
R607	VRD-ST2CD223J	J AA	22 kohms,1/6W	R835	VRS-CY1JB394J	J AA	390 kohms,1/16W
R608	VRD-ST2EE821J	J AA	820 ohms,1/4W	R836	VRS-CY1JB152J	J AA	1.5 kohms,1/16W
R609	VRD-ST2EE101J	J AA	100 ohm,1/4W	R837	VRD-ST2CD103J	J AA	10 kohm,1/6W
R610	VRD-ST2EE333J	J AA	33 kohms,1/4W	R838	VRS-CY1JB332J	J AA	3.3 kohms,1/16W
R611	VRD-ST2EE470J	J AA	47 ohms,1/4W	R839	VRS-CY1JB101J	J AA	100 ohm,1/16W
R612	VRD-ST2CD223J	J AA	22 kohms,1/6W	R840	VRS-CY1JB105J	J AA	1 Mohm,1/16W
R685	VRD-ST2CD103J	J AA	10 kohm,1/6W	R841-844	VRS-CY1JB103J	J AA	10 kohm,1/16W
R686	VRD-ST2CD473J	J AA	47 kohms,1/6W	R845	VRD-ST2EE820J	J AA	82 ohms,1/4W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
R846	VRS-CY1JB104J	J AA	100 kohm,1/16W
R848-854	VRS-CY1JB102J	J AA	1 kohm,1/16W
R855,856	VRD-ST2CD102J	J AA	1 kohm,1/6W
R857,858	VRS-CY1JB182J	J AA	1.8 kohms,1/16W
R861,862	VRS-CY1JB103J	J AA	10 kohm,1/16W
△ R863	VRG-ST2EM100J	J AC	10 ohm,1/4W,Fusible
R864	VRD-ST2EE101J	J AA	100 ohm,1/4W
R865	VRD-ST2CD821J	J AA	820 ohms,1/6W
R866	VRS-CY1JB683J	J AA	68 kohms,1/16W
R867	VRS-CY1JB154J	J AA	150 kohms,1/16W
R870	VRS-CY1JB103J	J AA	10 kohm,1/16W

OTHER CIRCUITRY PARTS

CFW301	QCWNW0450SJZZ	J	Lead Wire
CFW682/A	QCWNW0394SJZZ	J	Flat Wire,5Pin
CFW701/A	QCWNW0378SJZZ	J	Flat Wire,2Pin
CFW702/A	QCWNW0378SJZZ	J	Flat Wire,2Pin
CFW703/A	QCWNW0388SJZZ	J	Flat Wire,2Pin
CNP301	QCNCM010LAWZZ	J AC	Plug,11Pin
CNP401	QCNCM999CAFZZ	J AG	Plug,3Pin
CNP651	QCNCM039DSJZZ	J AD	Plug,4Pin
△ CNP681	QCNCM041ESJZZ	J AE	Plug,9Pin
CNP701	QCNCM999GAFZZ	J	Plug,7Pin
CNP702	QCNCM999NAFZZ	J AC	Plug,13Pin
CNP703	QCNCM999BAFZZ	J AD	Plug,2Pin
CNP703A	QCNCM035FSJZZ	J AD	Plug,6Pin
CNP704	QCNCM999KAFZZ	J	Plug,10Pin
CNP705	QCNCM998BAFZZ	J AC	Plug,2Pin
CNP706	QCNCM999BAFZZ	J AD	Plug,2Pin
CNP707	QCNCM998BAFZZ	J AC	Plug,2Pin
CNP801	QCNCW011RSJZZ	J	Plug,16Pin
CNP803	QCNCM998CAFZZ	J AE	Plug,3Pin
CNP804	QCNCM999DAFZZ	J AG	Plug,4Pin
CNP805	QCNCM999EAFZZ	J AG	Plug,5Pin
CNP808	QCNCM998BAFZZ	J AC	Plug,2Pin
CNP909	QCNCM998BAFZZ	J AC	Plug,2Pin
CNS301	QCNCW010LAWZZ	J AD	Socket,11Pin
CNW102	QCWNW0451SJZZ	J	Connector Ass'y,2/1Pin
CNW401	QCWNW0465SJZZ	J AD	Connector Ass'y,3/3Pin
CNW701	QCWNW0381SJZZ	J	Connector Ass'y,7/7Pin
CNW702	QCWNW0448SJZZ	J AF	Connector Ass'y,13/13Pin
CNW703	QCWNW0383SJZZ	J	Connector Ass'y,2/2Pin
CNW704	QCWNW0384SJZZ	J	Connector Ass'y,10/10Pin
CNW705	QCWNW0387SJZZ	J	Connector Ass'y,2Pin
CNW706	QCWNW0385SJZZ	J	Connector Ass'y,2/2Pin
CNW707	QCWNW0449SJZZ	J	Connector Ass'y,2/2Pin
CNW801	QCWNW0390SJZZ	J	Flat Cable,16Pin
CNW802	QCWNW0391SJZZ	J	Connector Ass'y,6/6Pin
CNW803	QCWNW0463SJZZ	J AD	Connector Ass'y,3/3Pin
CNW804	QCWNW0396SJZZ	J	Connector Ass'y,3/4Pin
CNW805	QCWNW0393SJZZ	J	Connector Ass'y,5/5Pin
CNW808	QCWNW0445SJZZ	J	Connector Ass'y,2/2Pin
CNW909	QCWNW0458SJZZ	J	Connector Ass'y,2Pin
△ F652	QFS-D252CAWNI	J AC	Fuse,T2.5A L 250V
△ F653	QFS-D132CAWNI	J	Fuse,T1.25A L 250V
FE301	RTUNS0016AWZZ	J AX	FM Front End
J801	VHPIF11381+1	J AM	Jack,CD Digital Output
JK101	QJAKM0001SJZZ	J AG	Jack,Headphone
L808	RCORF0026FCZZ	J AF	Core
LCD701	RV-LX0015SJZZ	J AS	FL Display
M701	RMOTV0408SJM4	J AQ	Motor with Chassis [Spindle]
M702	RMOTV0409AFM1	J AN	Motor with Gear [Sled]
M801(246-6)	RMOTV0010SJZZ	J	Motor [CD Lid]
△ RLY601	RRLYD0004SJZZ	J AG	Relay
RX701	VHLN61V380A-1	J AN	Remote Sensor
SO301	QTANC9003SJZZ	J AF	Terminal,Antenna
SO401	QSOCJ0003SJZZ	J AG	Socket,Video/AUX Input
SO601	QTANA0007SJZZ	J AF	Terminal,Speaker
△ SO651	QSOCA0212AWZZ	J AD	Socket AC Input
SP601,602	RSPA00020SJ8W	J AQ	Woofers
SP603,604	RALMB0001SJZZ	J AH	Tweeter
△ SW651	QSOCE0008AWZZ	J AH	Switch,Slide Type
SW702	QSW-F9001AWZZ	J AE	Switch,Push Type [Pickup In]
SW709	QSW-K0004SJZZ	J AD	Switch,Key Type [On/Stand-By]
SW710	QSW-K0004SJZZ	J AD	Switch,Key Type [CD Lid Open/Close]
SW711	QSW-K0004SJZZ	J AD	Switch,Key Type [REW/Preset Down]
SW712	QSW-K0004SJZZ	J AD	Switch,Key Type [FF/Preset Up]

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
SW713	QSW-K0004SJZZ	J AD	Switch,Key Type [CD Stop/Tuning Down]
SW718	QSW-K0004SJZZ	J AD	Switch,Key Type [CD Play/Pause/Tuning Up]
SW719	QSW-K0004SJZZ	J AD	Switch,Key Type [Volume Down]
SW720	QSW-K0004SJZZ	J AD	Switch,Key Type [Volume Up]
SW725	QSW-K0004SJZZ	J AD	Switch,Key Type [Bass/Treble]
SW726	QSW-K0004SJZZ	J AD	Switch,Key Type [Memory/Set]
SW727	QSW-K0004SJZZ	J AD	Switch,Key Type [Clear]
SW728	QSW-K0004SJZZ	J AD	Switch,Key Type [Function]
SW802	QSW-B0001SJZZ	J AG	Switch,Lever Type [CD Lid]

CD MECHANISM PARTS

301	MLEVP1054AFZZ	J AC	Rail Guide
302	NGERH0586AFZZ	J AC	Gear,Middle
303	NGERH0587AFZZ	J AC	Gear,Drive
304	NSFTM0291AFFW	J AD	Shaft,Guide
305	PCOVP1333AFSA	J AF	Cover,Mechanism
306	PCUSG0001AWSA	J AD	Cushion (Green)
307	PCUSG0004AWSA	J AD	Cushion (Red-Brown)
△ 308	DCTRH8005SJ01	J BA	Pickup Unit Ass'y
308- 1	—	—	Pickup Unit (Not Replacement Item)
308- 2	MSPRC0961AFZZ	J AA	Spring,Rack
308- 3	NGERR0043AFZZ	J AC	Gear,Rack
701	LX-WZ1070AFZZ	J AA	Washer,ø1.5xø3.8x0.25mm
702	XBBSD2P03000	J AA	Screw,ø2x3mm
703	XBSSD2P06000	J AA	Screw,ø2.6x6mm
704	XHBSD2P05000	J AA	Screw,ø2x5mm
M701	RMOTV0408SJM4	J AQ	Motor with Chassis [Spindle]
M702	RMOTV0409AFM1	J AN	Motor with Gear [Sled]
SW702	QSW-F9001AWZZ	J AE	Switch,Push Type [Pickup In]

CABINET PARTS

201	GCABA1077SJSJA	J AQ	Top Cabinet
202	GCABB1094SJSJA	J	Bottom Cabinet
203	GCOVA1016SJSJA	J AG	Cover,Rear Panel
204	GCOVA1017SJSJA	J AD	Cover,Remote Sensor
205	GFTAT1012SJSJA	J AG	CD Lid
206	GFTAT1013SJSJA	J AG	Slide Door
208	HBDGA1002SJSB	J AD	Badge,SHARP
209	HDECA0001SJSJA	J AT	Cover Plate,CD Lid
210	HDECA0002SJSJA	J AN	Plate,Slide Door
211	HDECB0003SJSJA	J AK	Plate,CD Lid
212	HDECP0006SJSJA	J AH	Sheet,Operation
213	HDECQ0067SJSJA	J AF	CD Ring Panel
214	HDECQ0068SJSJA	J AK	Clear Panel,CD Lid
215	HDECQ0069SJSJA	J AH	LCD Window
216	HDECQ0070SJSJA	J AE	Indicator Panel,CD
217	HDECQ0071SJSJA	J AG	Indicator Panel,LCD
218	JKNBZ0059SJSJA	J AE	Knob,CD Open/Volume
219	JKNBZ0060SJSJA	J AE	Knob,Power/Volume
220	JKNBZ0061SJSJA	J AF	Knob,Operation
221	LANGF0054SJFW	J	Bracket,Display PWB
222	LANGK0032SJFW	J	Bracket
223	LANGQ0003SJFW	J	Rear Panel
224	LCHSM0015SJZZ	J	Chassis
225	LHLDL1005SJSB	J AE	Stabilizer
227	LHLDW1001SJZZ	J AD	Nylon Band
228	LHLDZ1043SJSJA	J AE	Holder,Indicator Panel,CD
229	LHLDZ1044SJSJA	J AE	LCD Holder
230	LHLDZ1045SJSJA	J AD	LED Holder
231	LHLDZ1050SJSJA	J	Holder,Remote Sensor
232	MSPRD0018SJZZ	J AD	Spring,Slide Door
233	MSPRD0022SJFD	J	Spring
234	NSFTG0001SJZZ	J	Gear Shaft,Door
235	PCUSG0010SJZZ	J	Cushion,Leg
236	PGUMS0002SJZZ	J AA	Cushion,CD Lid
237	PMAGF0002AWZZ	J AE	Magnet
239	PRDAR0061SJFW	J	Radiator,Main
240	PRDAR0054SJFW	J	Radiator,Transistor
241	PSHEP0006SJSJA	J	LCD Diffusion Sheet
242	PSHEP0009SJZZ	J	Sheet,Shield
△ 243	QFSDH0001AWZZ	J AB	Holder,Fuse
244	TLABS0042SJZZ	J	Label,Laser
245	TSPC-0324SJZZ	J	Label,Specification [Except for Thailand/Taiwan/Hong Kong]
245	TSPC-0336SJZZ	J	Label,Specification [For Taiwan/Hong Kong]

XL-1500W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
245	TSPC-0341SJZZ	J	Label,Specification [For Thailand]
246	CGERW0008SJ01	J AP	Gear Box Ass'y
246-1	LHLDZ1041SJSA	J	Lid,Gear Box
246-2	LHLDZ1042SJSA	J	Gear Box
246-3	NGERW0008SJSA	J	Gear Drive
246-4	NGERW0009SJSA	J	Worm Wheel
246-5	NGERW0010SJSA	J	Worm Gear
246-6	RMOTV0010SJZZ	J	Motor [CD Lid],M801
248	LANGK0048SJFW	J	Bracket,AC
249	PSHEP0010SJZZ	J	Sheet,Shield Front End
601	LX-HZ0087AFFD	J AA	Screw,ø3×8mm
603	LX-JZ0001SJFD	J AA	Screw,ø3×10mm
604	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
606	XEBSD25P10000	J AA	Screw,ø2.5×10mm
607	XEBSD25P12000	J AA	Screw,ø2.5×12mm
608	XEBSF25P08000	J AA	Screw,ø2.5×8mm
610	XHBSD30P06000	J AA	Screw,ø3×6mm
611	XHBSF30P06000	J AA	Screw,ø3×6mm
612	XJBSD30P06000	J AA	Screw,ø3×6mm
613	XJBSD30P08000	J AA	Screw,ø3×8mm
614	XJBSD30P10000	J AA	Screw,ø3×10mm
615	XJBSF30P10000	J AA	Screw,ø3×10mm
616	XHBSD20P03000	J AA	Screw,ø2×3mm
617	LX-WZ9004SJSA	J	Washer,5×5mm
618	LX-HZ0240AFFD	J AB	Screw,Special

SPEAKER BOX PARTS

901	GBOXS6003SJSA	J AS	Box Ass'y
902	GLEGP0003SJSB	J AD	Leg
903	GWAKP1020SJ01	J AL	Net Flame Ass'y
903-1	—	—	Net Flame (Not Replacement Item)
903-2	PGUMM0003SJSA	J AD	Net Catcher
903-3	HBDGA1002SJSA	J AF	Badge,SHARP
904	HPNLS1011SJ01	J AQ	Front Panel Ass'y
904-1	—	—	Front Panel (Not Replacement Item)
904-2	HDECQ0073SJSA	J AG	Panel,Tweeter
904-3	PCOVZ1003SJSA	J AG	Duct Cap
904-4	PDUC-0005SJZZ	J AE	Duct Pipe
905	PSPAG0005SJZZ	J AE	Gsket
906	QTANA9011SJZZ	J AE	Terminal
907	TSPC-0221SJZZ	J AD	Specification Label
908	XTBSF40P12000	J AA	Screw,ø4×12mm
SP601,602	RSPA00020SJ8W	J AQ	Woofers
SP603,604	RALMB0001SJZZ	J AH	Tweeter

ACCESSORIES/PACKING PARTS

△	GCABB1064SJSB	J	Battery (UM-4) (Not Replacement Item)
△	QACCA0002SJ00	J	Battery Lid,Remote Control
△	QACCB0003SJ00	J	AC Power Supply Cord [For Thailand/Taiwan]
△	QACCE0002SJZZ	J	AC Power Supply Cord [For Hong Kong]
△	QACCL0002SJ00	J	AC Power Supply Cord [Except for Australia/New Zealand/Thailand]
△	QANTL0001SJZZ	J AK	AM Loop Antenna
	QANTW0002SJZZ	J AH	FM Antenna
	QCNWH0005SJ01	J AF	Speaker Cord
	RRMCG0038SJSA	J	Remote Control
	SPAKA0112SJZZ	J	Packing Add.,Speaker [Top/Bottom]
	SPAKA0116SJZZ	J	Packing Add.,Left
	SPAKA0117SJZZ	J	Packing Add.,Right
	SPAKC0225SJZZ	J	Packing Case
	SPAKS0007SJZZ	J	Sleeve Carton,Speaker
	SPAKZ0039SJZZ	J AH	Polyethylene Bag,Speaker
	SPAKZ0063SJZZ	J	Pad,Accessories
	SPAKZ0064SJZZ	J AC	Polyethylene Bag,Unit
	SSAKA0009SJZZ	J	Polyethylene Bag,Accessories
	TGANE0005SJ01	J	Warranty Card [For Australia/New Zealand]
	TGANZ0007SJ10	J	Warranty Card [For Taiwan]
	TINSE0092SJZZ	J	Operation Manual

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
			[For Australia/New Zealand]
	TINSZ0141SJZZ	J	Operation Manual [Except for Australia/New Zealand/Thailand]
	TINSZ0142SJZZ	J	Operation Manual [For Thailand]
	TLABE0107SJZZ	J	Label,Bar Code
	TLABG0049SJZZ	J	Label,Rated Input [For Hong Kong]
	TLABG0054SJZZ	J	Label,Packing Case [For Taiwan]
	TLABG0061SJZZ	J	Label,Safety [For Hong Kong]
	TLABZ0088SJZZ	J	Sheet,English/Chinese Comparison [For Taiwan]
	TLABZ0089SJZZ	J	Sheet,English/Chinese Comparison [For Taiwan]
	TLABZ0090SJZZ	J	Sheet,English/Chinese Comparison [For Taiwan]
	TLABN0190SJZZ	J	Label,SER.No. [For Australia/New Zealand]
	TLABN0192SJZZ	J	Label,SER.No. [For Hong Kong]
	TLABN0193SJZZ	J	Label,SER.No. [Except for Australia/New Zealand/Thailand/Taiwan]
	TLABN0194SJZZ	J	Label,SER.No. [For Thailand]
	TLABN0210SJZZ	J	Label,SER.No. [For Taiwan]
	TLABZ0069SJZZ	J	Label,Made In China,Set [For Australia/New Zealand]
	TLABZ0070SJZZ	J	Label,Made In China,Packing Case [For Australia/New Zealand]
	TLSTS0005SJZZ	J	Service Station List [For Taiwan]
	Z-SER-NO-LIST	J AC	List,SER.No. [For Thailand]

P.W.B. ASSEMBLY (Not Replacement Item)

△ PWB-A1~8	DCEKLV199SJ03	J	Main/Display/CD/Terminal/ Switch/Led/Led/Led
PWB-B1,2	DCEKJV199SJ03	J	Tuner/Washer
PWB-C	QPWBF3895AFZZ	J AC	CD Motor (PWB Only)

OTHER SERVICE PART

UDSKA0004AFZZ	J AZ	CD Pickup Lens Cleaner Disc
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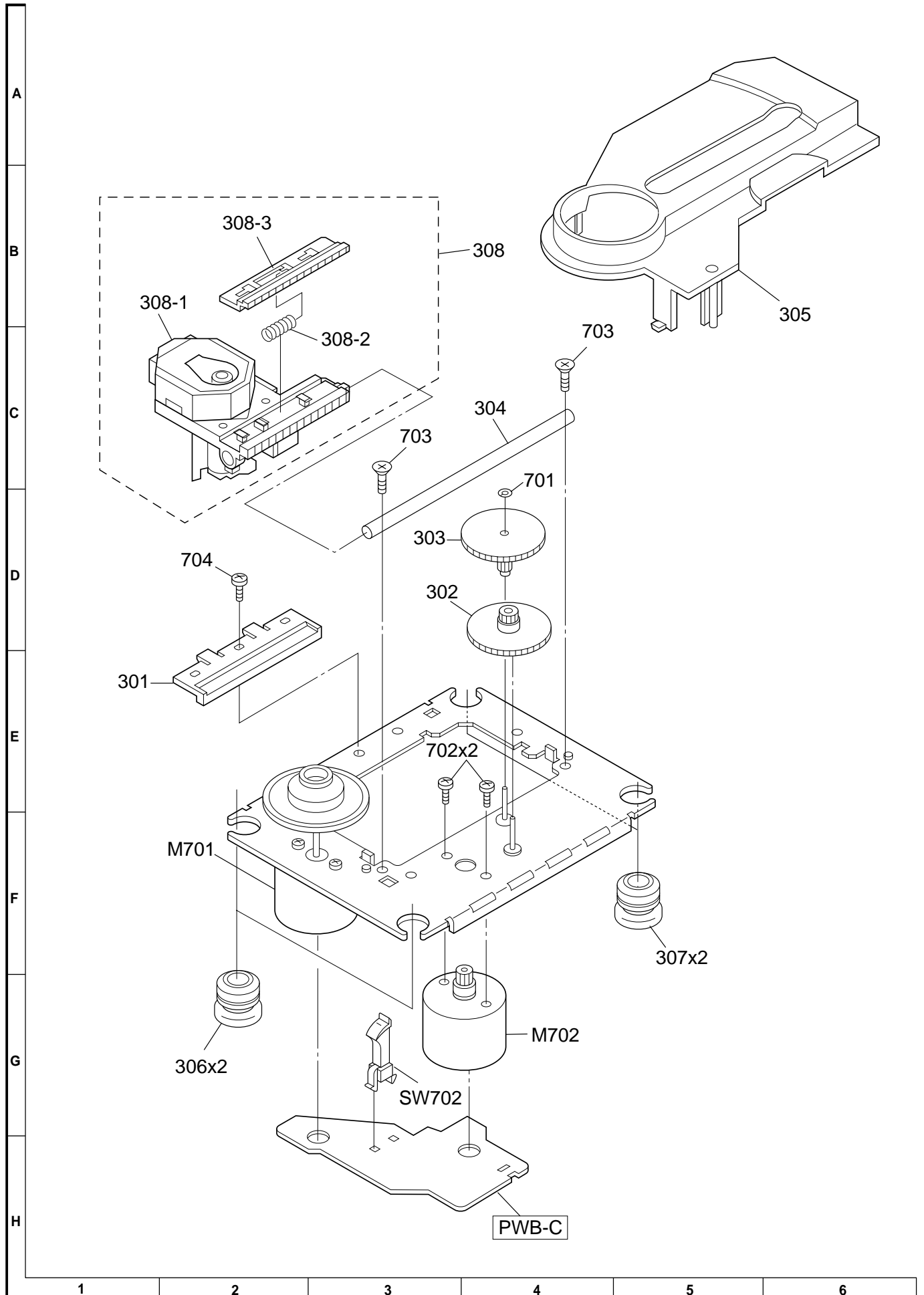


Figure 6 CD MECHANISM EXPLODED VIEW

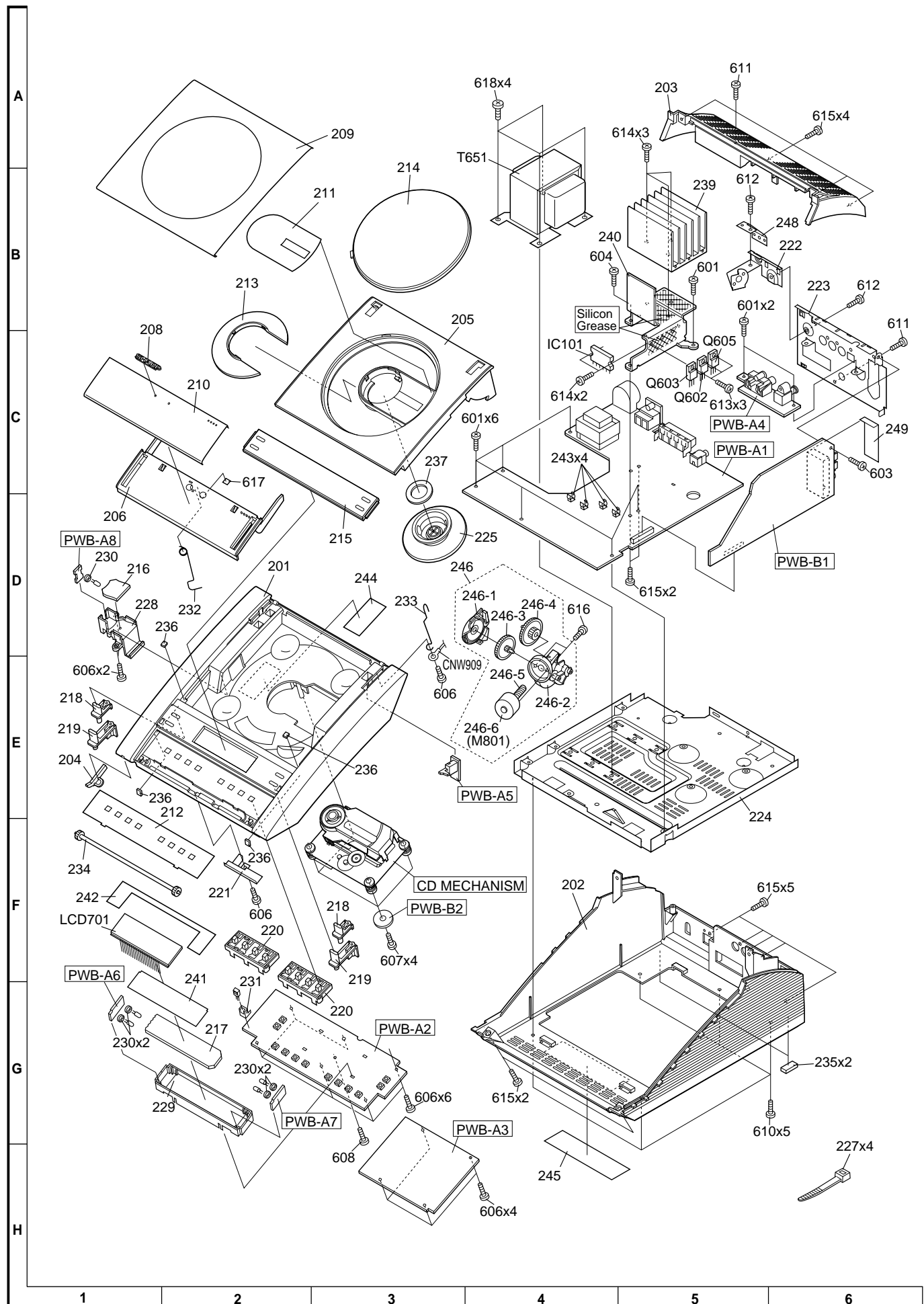


Figure 7 CABINET EXPLODED VIEW

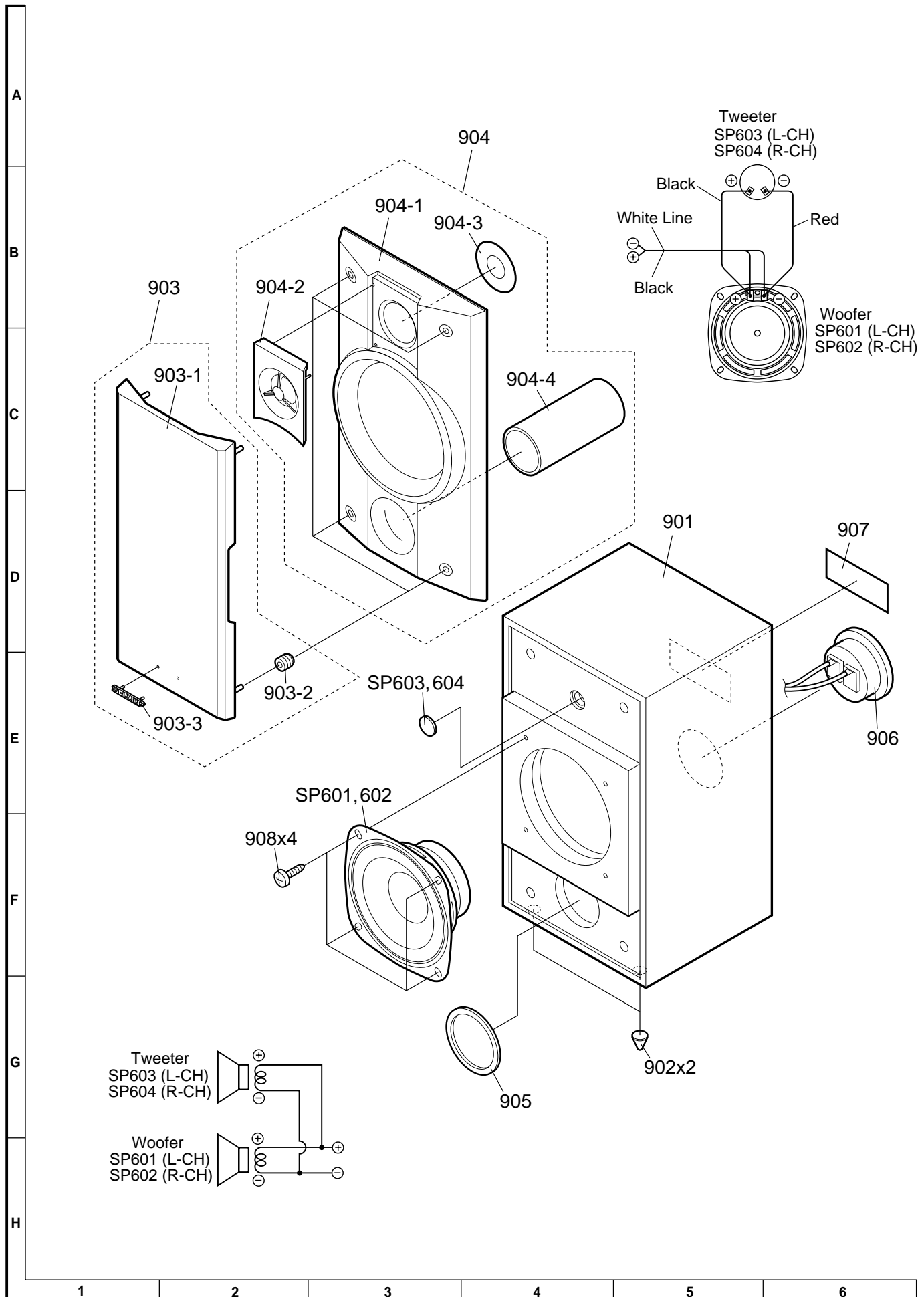


Figure 8 SPEAKER EXPLODED VIEW

XL-1500W

-MEMO-

-MEMO-

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