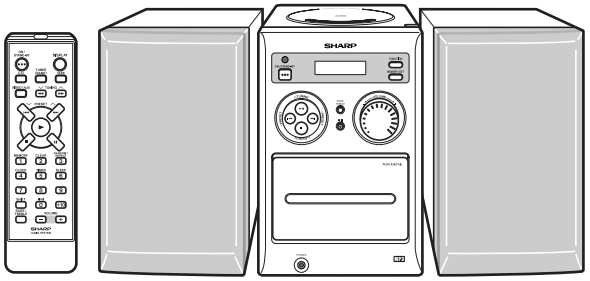
SHARP SERVICE MANUAL

No. S2518XLMP40H/



MICRO COMPONENT SYSTEM

MODEL XL-MP40H

XL-MP40H Micro Component System consisting of XL-MP40H (main unit) and CP-MP40H (speaker system).

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

- **Note for users in U.K.**
  Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1956, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

COMPACT disc DIGITAL AUDIO

CD-R/RW Playable

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.9W

ENERGY (Except for U.K.)

MP3

CONTENTS

SHARP CORPORATION

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN,DISPLAY,LED,POWER,SWITCH,JACK PWB," of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A1	DCEKKV512SJ03	MAIN
PWB-A2	DCEKKV512SJ03	DISPLAY
PWB-A3	DCEKKV512SJ03	POWER
PWB-A4	DCEKKV512SJ03	LED
PWB-A5	DCEKKV512SJ03	JACK
PWB-A6	DCEKKV512SJ03	SWITCH

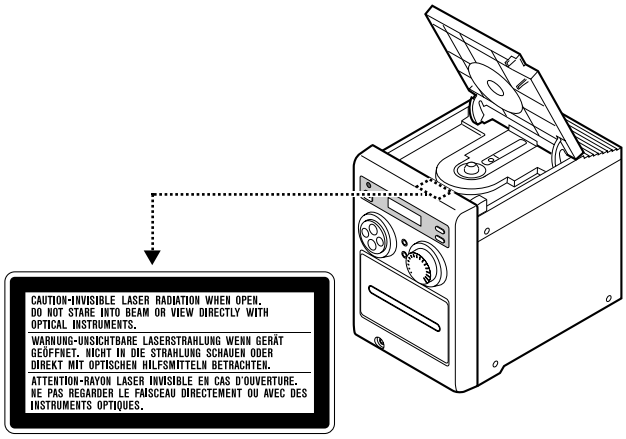
CHAPTER 1. GENERAL DESCRIPTION

[1] SAFETY PRECAUTION FOR SERVICE MANUAL

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

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, 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

ADVARSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

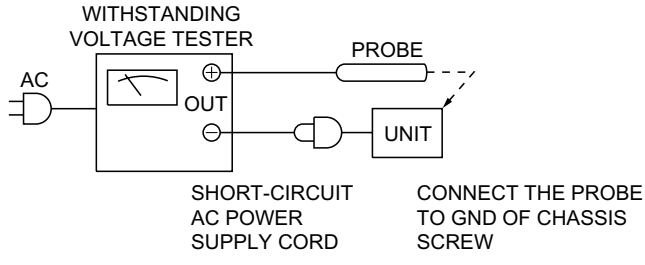
VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASER-STRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

[2] IMPORTANT SERVICE NOTES (FOR U.K. ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.

Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	
OK: The “GOOD” lamp lights. NG: The “NG” lamp lights and the buzzer sounds.	



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

[3] SPECIFICATIONS

Except for U.K.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 25 W Power stand-by: 0.9 W
Dimensions	Width: 160 mm (6-5/16") Height: 240 mm (9-1/2") Depth: 245 mm (10")
Weight	2.5 kg (5.5 lbs.)

■ Amplifier

Output power	PMPO: 30 W (total) MPO: 15 W (7.5 W + 7.5 W) (DIN 45 324) RMS: 10 W (5 W + 5 W) (DIN 45 324)
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 522 - 1,620 kHz

■ 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)

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.35 % (DIN 45 511)

■ Speaker

Type	10 cm (4") full-range speaker
Maximum input power	10 W
Rated input power	5 W
Impedance	4 ohms
Dimensions	Width: 145 mm (5-3/4") Height: 240 mm (9-1/2") Depth: 180 mm (7-1/16")
Weight	1.4 kg (3.1 lbs.)/each

For U.K.

■ General

Power source	AC 230 V - 240V, 50 Hz
Power consumption	Power on: 25 W Power stand-by: 0.9 W
Dimensions	Width: 160 mm (6-5/16") Height: 240 mm (9-1/2") Depth: 245 mm (10")
Weight	2.5 kg (5.5 lbs.)

■ Amplifier

Output power	RMS: 10 W (5 W + 5 W) (10 % T.H.D.)
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 522 - 1,620 kHz

■ 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)

■ Cassette deck

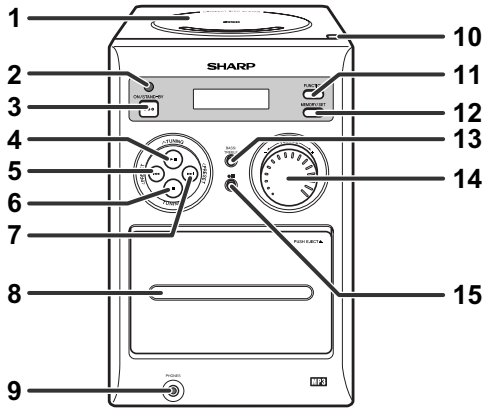
Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

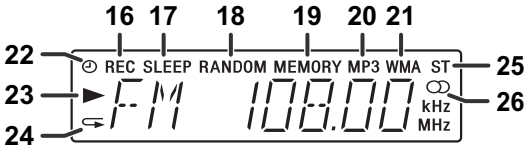
Type	10 cm (4") full-range speaker
Maximum input power	10 W
Rated input power	5 W
Impedance	4 ohms
Dimensions	Width: 145 mm (5-3/4") Height: 240 mm (9-1/2") Depth: 180 mm (7-1/16")
Weight	1.4 kg (3.1 lbs.)/each

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

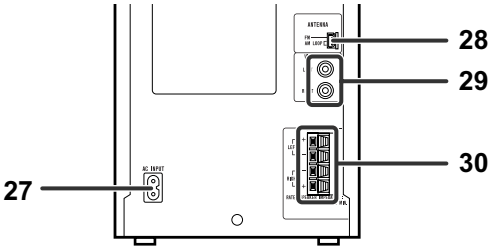
[4] NAMES OF PARTS



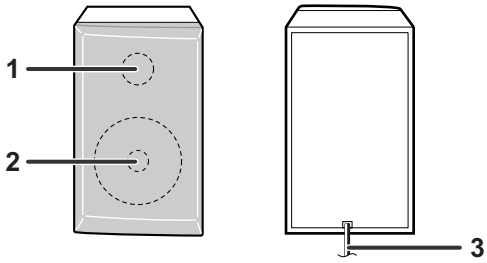
1.Disc Compartment
2.Remote Sensor
3.On/Stand-by Button
4.Disc Play or Pause, Tape Play, Tuning Up Button
5.Disc Track Down or Fast Reverse, Tape Rewind, Tuner Preset Down Button
6.Disc or Tape Stop, Tuning Down Button
7.Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up Button
8.Cassette Compartment
9.Headphone Socket
10.Disc Eject Button
11.Function Selector Button
12.Memory/Set Button
13.Bass/Treble Selector Button
14.Volume Control
15.Tape Record Pause Button



16.Tape Record Indicator
17.Sleep Indicator
18.Disc Random Play Indicator
19.Memory Indicator
20.MP3 Track Indicator
21.WMA Track Indicator
22.Timer Play Indicator
23.Disc Play Indicator
24.Disc Repeat Indicator
25.FM Stereo Mode Indicator
26.FM Stereo Receiving Indicator

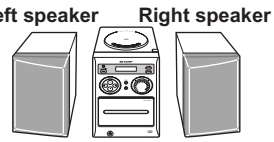


27.AC Power Input Socket
28.FM/AM Loop Aerial Socket
29.Video/Auxiliary (Audio Signal) Input Sockets
30.Speaker Terminals

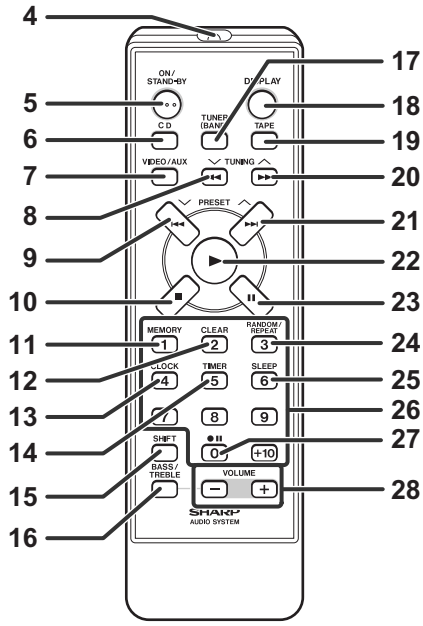


1.Bass Reflex Duct
2.Full-Range Speaker
3.Speaker Wire

Placing the speaker system:
The left and right speakers have individual shapes. For best performance, place the speakers according to the illustration on the right.



Note:
The speaker grilles are not removable.



4.Remote Control Transmitter
5.On/Stand-by Button
6.Disc Button
7.Video/Auxiliary Button
8.Disc Fast Reverse, Tuning Down Button
9.Disc Track Down, Tape Rewind, Tuner Preset Down, Time Down Button
10.Disc or Tape Stop Button
11.Memory Button
12.Clear Button
13.Clock Button
14.Timer Button
15.Shift Button
16.Bass/Treble Selector Button
17.Tuner and Band Selector Button
18.MP3/WMA Display Button
19.Tape Button
20.Disc Fast Forward, Tuning Up Button
21.Disc Track Up, Tape Fast Forward, Tuner Preset Up, Time Up Button
22.Disc or Tape Play Button
23.Disc Pause Button
24.Random/Repeat Button
25.Sleep Button
26.Direct Search Buttons
27.Tape Record Pause Button
28.Volume Up and Down Buttons

CHAPTER 2. ADJUSTMENTS

[1] ADJUSTMENT

1. MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Over 80 g

• Torque Check

Torque Meter	Specified Value
Play: TW-2111	30 to 60 g.cm
Fast forward: TW-2231	55 to 140 g.cm
Rewind: TW-2231	55 to 140 g.cm

• Tape Speed

Test Tape	Adjusting Point	Specified Value	Instrument Connection
MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Headphone Terminal

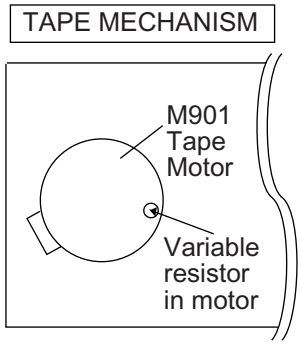


Figure 1

2. TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,602 kHz	L305	*1
AM Band Coverage	—	522 kHz	(fL): L306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	L302	*3

*1. Input: IC301 1Pin Output: IC301 23Pin
*2. Input: Input is not connected Output: TP-VT (IC301 28Pin)
*3. Input: Antenna Output:IC301 23Pin

• Check FM VT

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

Frequency	Display	Check Point	Instrument Connection
87.5 MHz	87.5 MHz	1.5V ± 1.0V	TP-VT
108 MHz	108 MHz	5.0V ± 1.0V	TP-VT

• 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	-	Input: CNP301 Output: Speaker Terminal

• FM Detection

Signal generator: 10.7 MHz FM sweep generator

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
FM IF	10.7 MHz	98.00 MHz	-	Input: Pin 36 of IC301 Output: Pin 23 of IC301

• FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
FM Band Coverage	—	87.50 MHz	(fL): L307 1.5 ± 0.1 V	*1
FM RF	98.00 MHz (10 ~ 30dB)	98.00 MHz	L304	*1

*1. Input: Antenna Output: 23 Pin of IC301

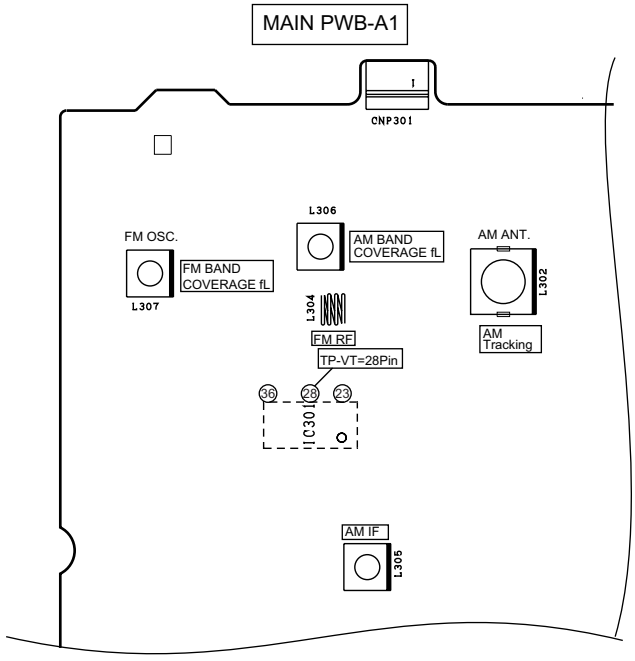


Figure 2 ADJUSTMENT POINTS

- **Setting the Test Mode**

  Keeping the REW/REV button and BASS/TREBLE button pressed, turn on POWER. Then, the frequency is initially set in the memory as shown in Table. Call it with the PRESET button to use it for adjustment and check of tuner circuit.

Preset No.	BAND	FM STEREO
1	FM STEREO	FM 87.50 MHz
2		FM 108.00 MHz
3		FM 98.00 MHz
4		FM 90.00 MHz
5		FM 106.00 MHz
6	AM	AM 522 kHz
7		AM 1620 kHz
8		AM 990 kHz

Preset No.	BAND	FM STEREO
9	AM	AM 603 kHz
11~25		————————
26	FM MONO	FM 106.00 MHz
27		FM 90.00 MHz
28		FM 98.00 MHz
29		FM 108.00 MHz
30		FM 87.50 MHz

[2] TEST MODE

1. Turning on the test mode

Turning on the test mode

To turn on the specific test mode, press the ON/STAND-BY button, holding down the following two buttons in the ordinary stand-by mode (power off state). In this case only the main unit button is valid. Even when the ON/STAND-BY of remote control button is set to on, the test mode is not turned on.

[Ordinary test mode]

1. CD Test Mode(TEST 1) .....FUNCTION + Tuning Down
2. Tuner Test Mode(TEST 2).....FUNCTION + Preset Down
3. Volume Test Mode(TEST 3).....FUNCTION + Tuning Up
4. Timer Test Mode(TEST 4) .....FUNCTION + Preset Up
5. Display Test Mode (TEST 5).....FUNCTION + Bass/Treble
6. ALL KEY Test (TEST 6).....MEMORY/SET + Tuning Up
7. Tuner clear test (TEST 7).....FUNCTION + Tape Rec
8. Soft reset test(TEST 8).....MEMORY/SET + Preset Down

All test modes can be terminated by turning off the power with ON/STAND-BY key.

- **CD test(TEST 1)**

[cd step 1] Enter test mode. ←———————— Ⓐ

↓ Hold down the “memory” button

[cd step 2] After some steps, the laser turns on.

↓ Hold down the “memory” button

[cd step 3] After some steps, focus search is performed.

↓ Hold down the “memory” button

[cd step 4] After some steps, CLV rotation is performed.

↓ Hold down the “memory” button

[cd step 5] CD playback starts.

↓ Hold down the “stop” button to return to [cd step 1] ———————— Ⓐ

In step 5, hold down the AUX key on the remote control. The tracking servo is switched on/off.

From step 3, the pick up can be moved with the FF/REW key.

- **Tuner test (TEST 2)**

CH	BAND	FREQUENCY
1	FM STEREO	FM 87.50 MHz
2		FM 108.00 MHz
3		FM 98.00 MHz
4		FM 90.00 MHz
5		FM 106.00 MHz
6	AM	AM 522 kHz
7		AM 1620 kHz
8		AM 990 kHz
9		AM 603 kHz
10	AM	AM 1404 kHz

CH	BAND	FREQUENCY
11		————————
.		
.		
35		
36	FM MONO	FM 106.00 MHz
37		FM 90.00 MHz
38		FM 98.00 MHz
39		FM 108.00 MHz
40		FM 87.50 MHz

- **VOLUME test (TEST 3)**

  Starting from level 23 (default), check all the levels (0 - 23 - MAX).

- **TIMER test(TEST4)**

  At 1:05, the power turns on to activate the tape function, and turns off after 90 seconds (equivalent to 90 minutes on the unit).

- **Display test(TEST 5)**

  When test mode is activated, the entire display lights up. As the “PLAY” key is pressed, half of the display lights up alternately.

- **ALL KEY test(TEST6)**

  In the test mode, hold down all the buttons on the main unit and then press the “ON/STAND-BY”button. “OK” appears.

  If only the “ON/STAND-BY” button is pressed, “ERROR” appears.

- **Tuner clear test (TEST 7)**

  All tuner preset stations are cleared.

- **Soft reset test (TEST 8)**

  All data in RAM is cleared.

[3] When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. 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.

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

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 earller 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 players or on computer CD ROM drives.
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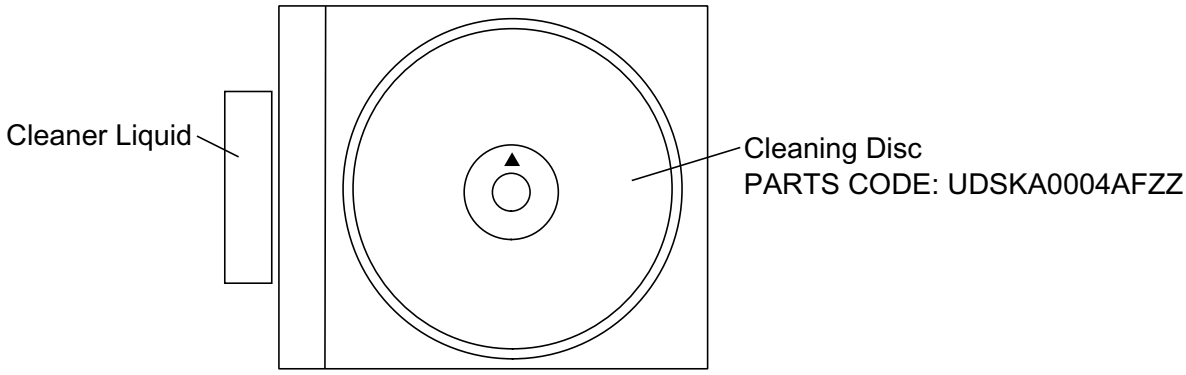


CHAPTER 3. MECHANICAL DESCRIPTION

[1] REMOVING AND REINSTALLING THE MAIN PARTS

1. TAPE MECHANISM SECTION

Perform steps 1 to 5 and 8 of the disassembly method to remove the tape mechanism. (See page 3-3.)

1.1. How to remove the record / playback and erase heads (See Fig. 1)

1. Remove the screws (A1) x 2 pcs., to remove the erase head.
2. Remove the screws (A2) x 2 pcs., to remove the record/playback head.

NOTE: After replacing the heads and performing the azimuth adjustment, be sure to apply screwlock.

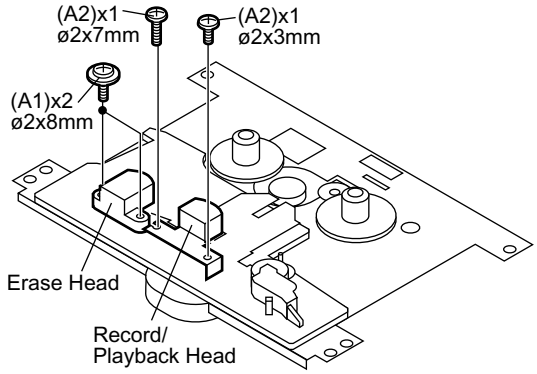


Figure 1

1.2. How to remove the pinch roller (See Fig. 2)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (B1) x 1 pc., upwards.

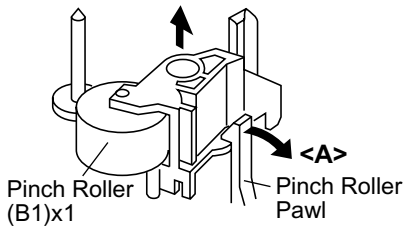


Figure 2

1.3. How to remove the belts (See Fig. 3)

1. Remove the main belt (C1) x 1 pc., from the motor pulley.
2. Remove the FF/REW belt (C2) x 1 pc., from the REW/FF roller.
3. Put on the belts in the reverse order of removal.

NOTE: When putting on the belt, ascertain that the belt is not twisted, and clean it.

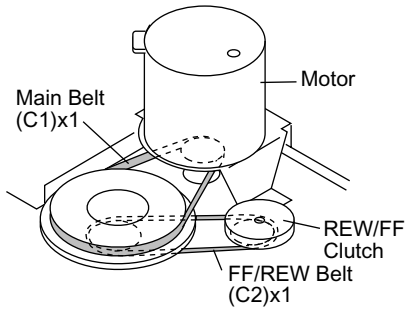


Figure 3

1.4. How to remove the motor (See Fig. 4)

1. Remove the main belt.
2. Remove the screws (D1) x 2 pcs., to remove the motor bracket.
3. Remove the screws (D2) x 3 pcs., to remove the motor.

NOTE: When mounting the motor, pay attention to the motor mounting angle.

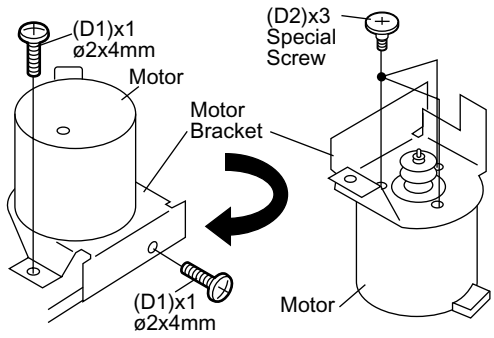


Figure 4

1.5. How to remove the flywheel (See Fig. 5)

1. Remove the belt.
2. Remove the stop washer (E1) x 1 pc., with a small precision screwdriver to extract the flywheel from the capstan metal.

NOTE: When the stop washer is deformed or damaged, replace it with a new one.

1.6. How to reinstall the parts

Install each part in the reverse order of the removal with care.

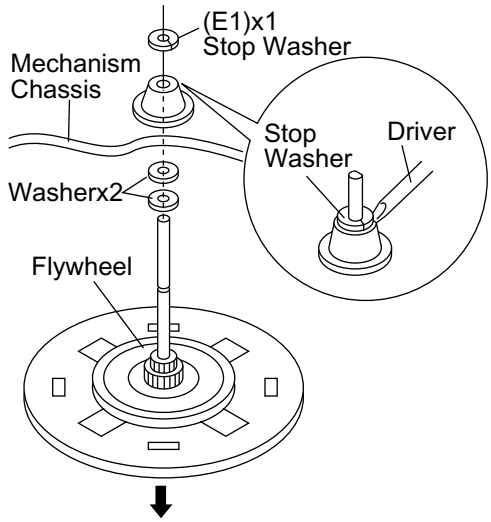


Figure 5

1.7. How to remove the tape mechanism PWB(See Fig. 6)

1. Remove the screw (F1) x 1 pc., to remove the tape mechanism PWB.
2. Remove the screws (F2) x 1 pc.
3. Remove the solder joints (F3) x 2 pcs., to remove the tape mechanism PWB.

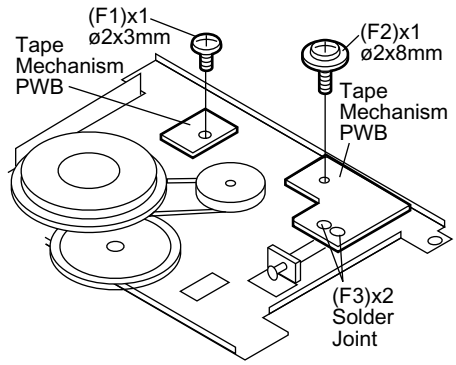


Figure 6

[2] 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 cassette tape and 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.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw.....(A1) x 5 2. Socket.....(A2) x 2 3. Flat cable.....(A3) x 1	1 2
2	Side Panel	1. Screw.....(B1) x 4	1
3	Rear Panel	1. Screw.....(C1) x 2	1
4	Main PWB	1. Screw.....(D1) x 3 2. Socket.....(D2) x 5 3. Socket.....(D3) x 1	2
5	Front Panel	1. Screw.....(E1) x 1	3
6	Power PWB	1. Screw.....(F1) x 1 2. Screw.....(F2) x 2	3
7	Display PWB	1. Knob.....(G1) x 1 2. Screw.....(G2) x 8	4
8	Tape Mechanism	1. Open the cassette holder 2. Screw.....(H1) x 4	4
9	Jack PWB	1. Screw.....(J1) x 1	4
10	Switch PWB	1. Screw.....(K1) x 1	5
11	CD Mechanism (Note)	1. Screw.....(L1) x 4	5

Note :

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

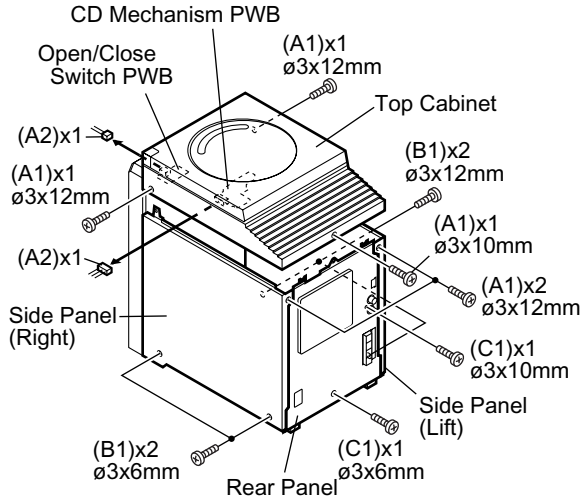


Figure 1

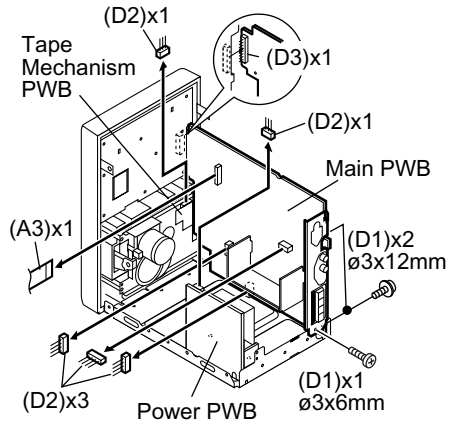


Figure 2

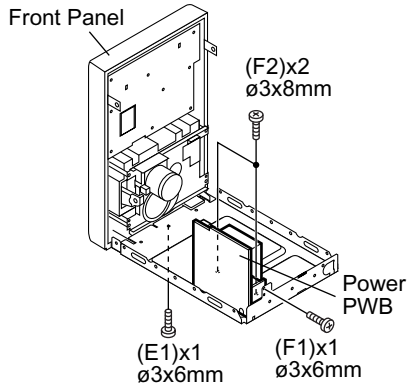


Figure 3

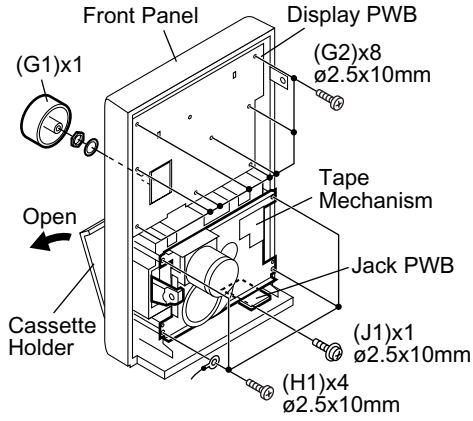


Figure 4

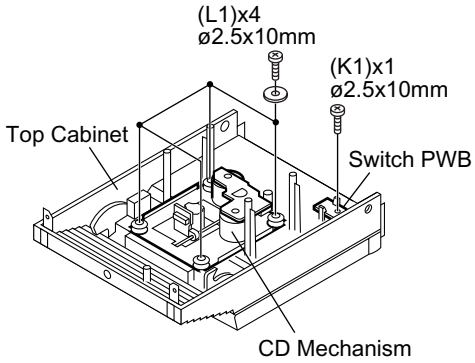


Figure 5

CP-MP40H

These speaker CP-MP40H are available in assembles only and may not be disassembled.

-MEMO-

CHAPTER 4. DIAGRAMS

[1] BLOCK DIAGRAM

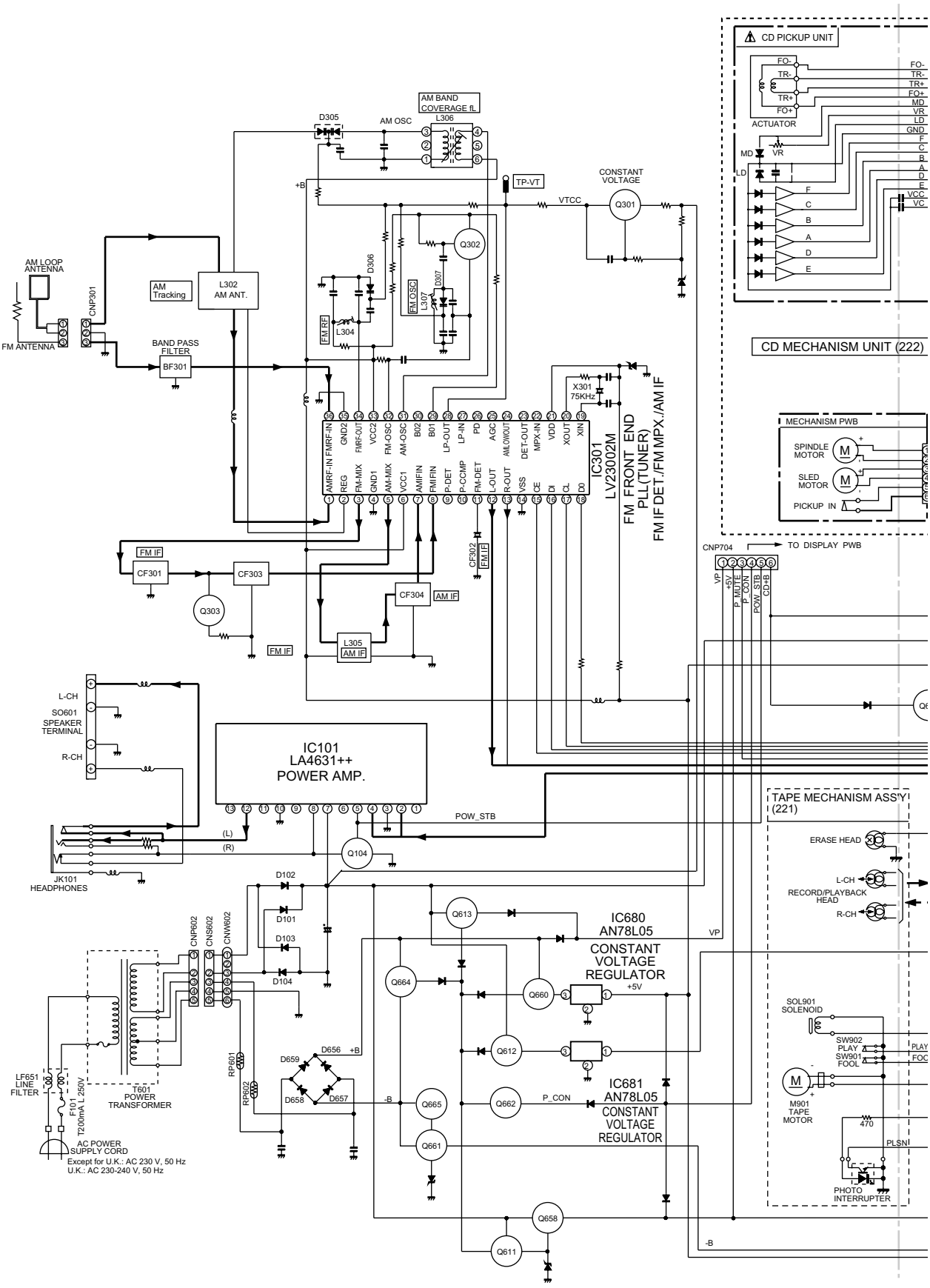


Figure 4-1 BLOCK DIAGRAM (1/3)

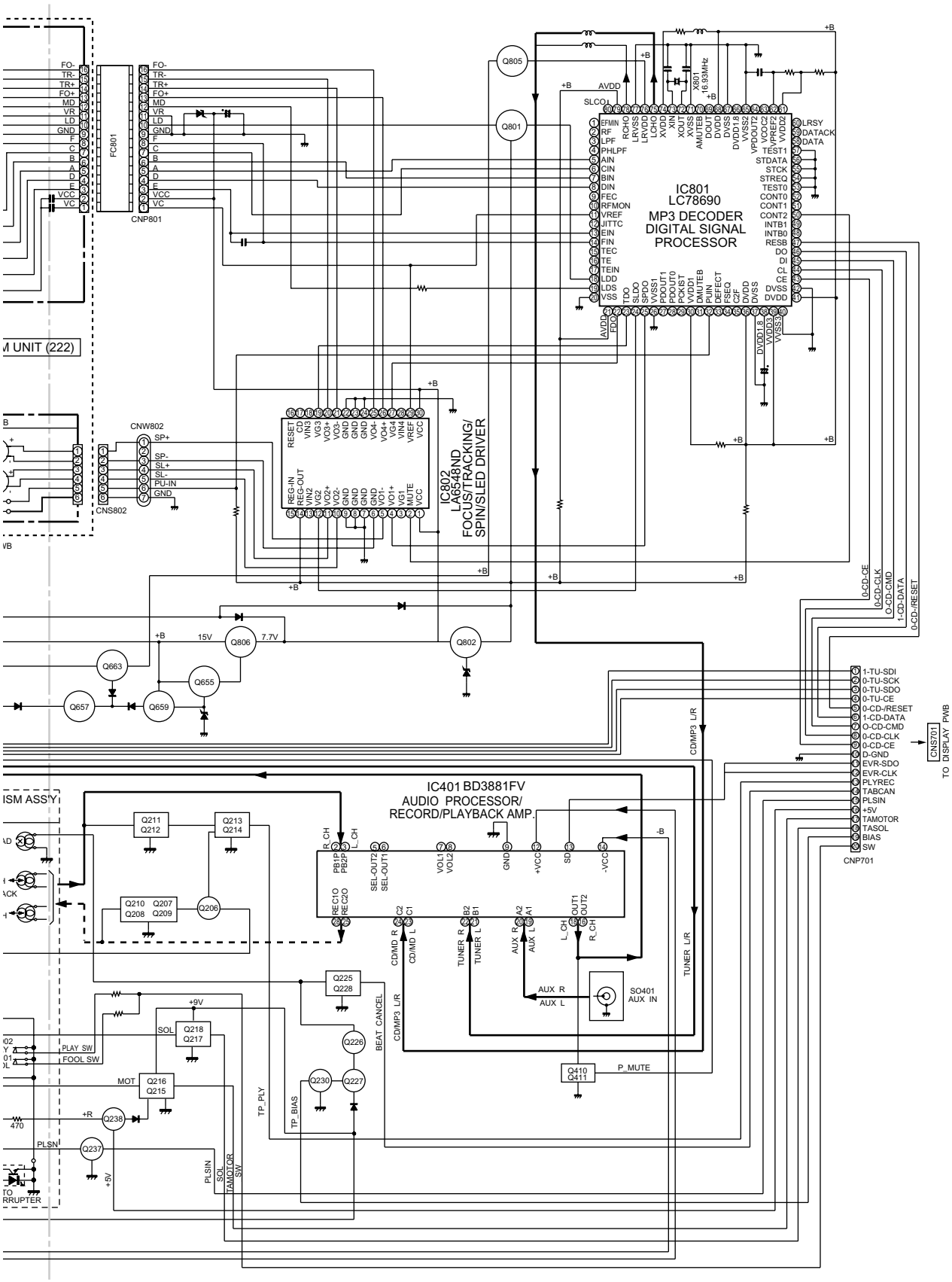


Figure 4-2 BLOCK DIAGRAM (2/3)

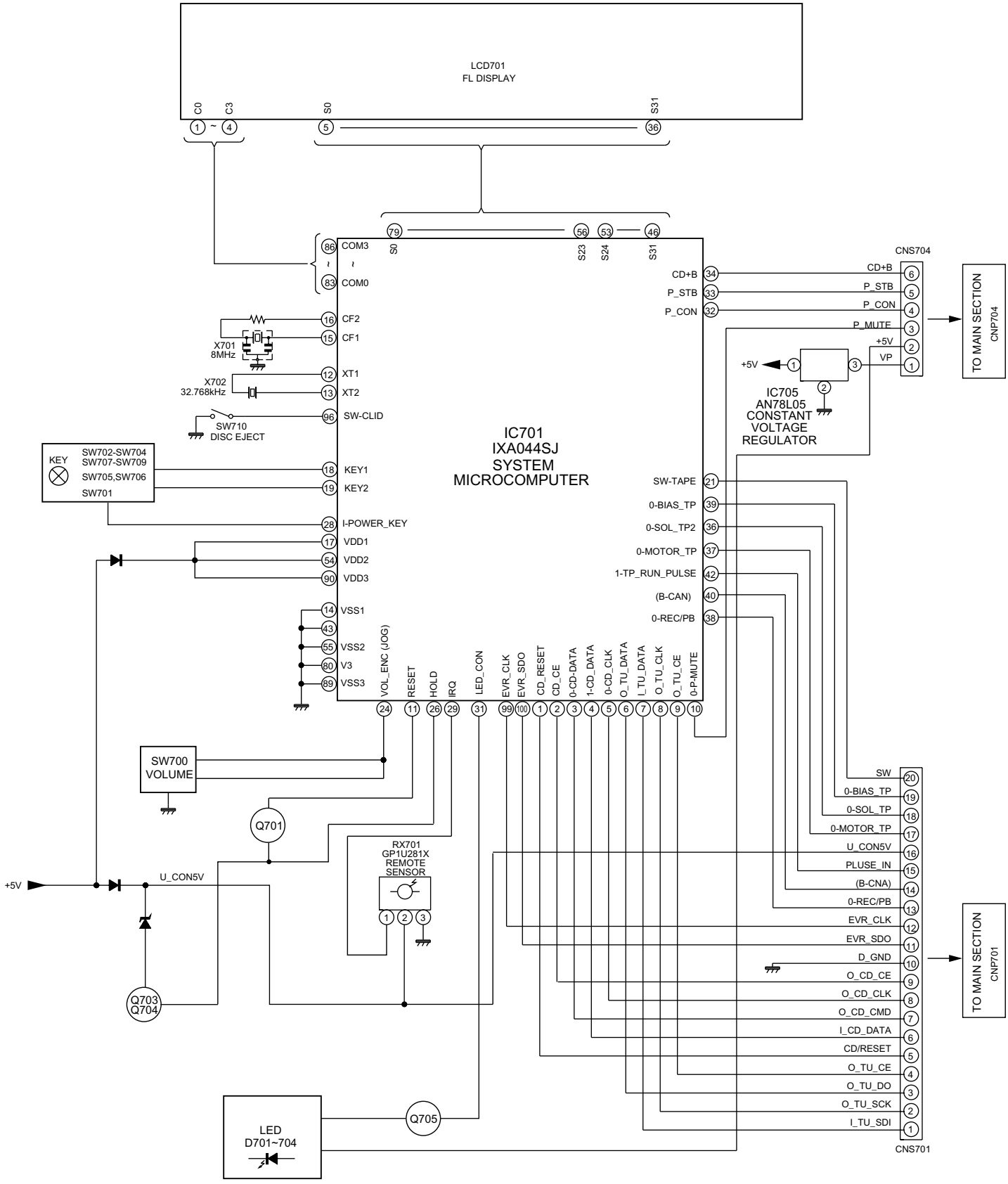
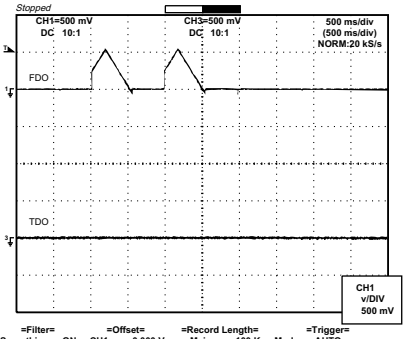


Figure 4-3 BLOCK DIAGRAM (3/3)

CHAPTER 5. CIRCUIT DESCRIPTION

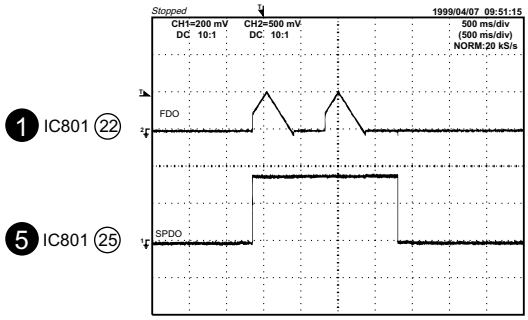
[1] WAVEFORMS OF CD CIRCUIT

1 IC801 (22)
2 IC801 (23)



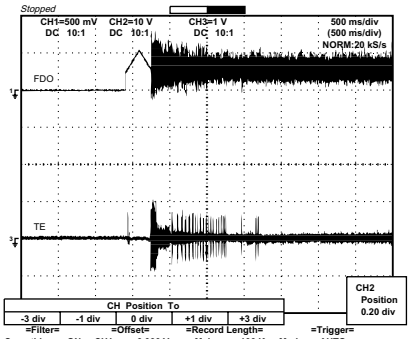
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.000 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

1 IC801 (22)
5 IC801 (25)



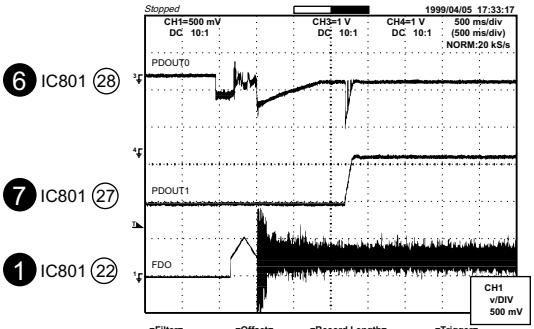
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

1 IC801 (22)
3 IC801 (16)



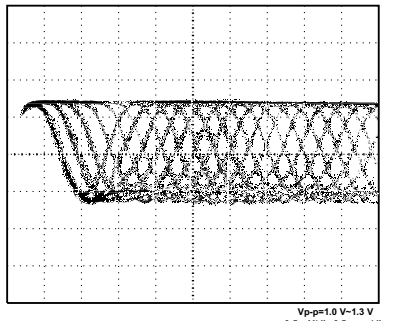
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

6 IC801 (28)
7 IC801 (27)
1 IC801 (22)



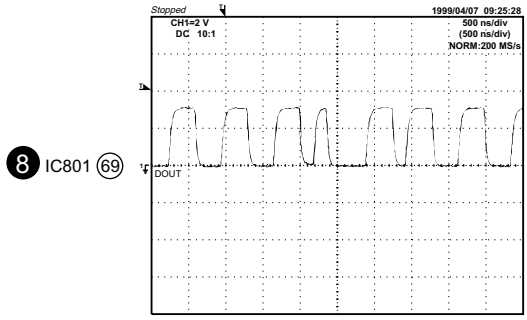
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH2 Delay : 0.0 ns Hold off : 0.2 µs

4 IC801 (2)



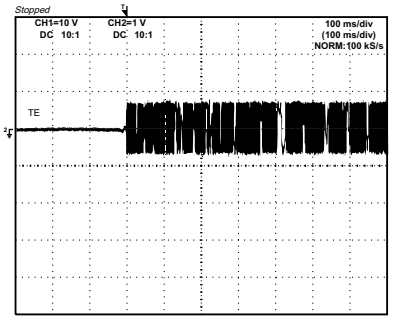
Vp-p=1.0 V~1.3 V
0.5 mV/div,0.5 µsec/div

8 IC801 (69)



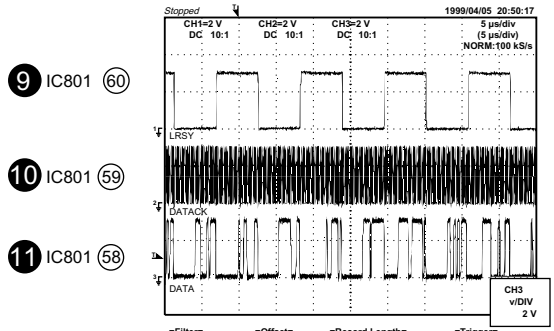
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 1 K Zoom : 100
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.887 ms Hold off : 0.2 µs

3 IC801 (16)



=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

9 IC801 (60)
10 IC801 (59)
11 IC801 (58)



=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 5 K Zoom : 100
=Trigger= Mode : AUTO Type : EDGE CH3 Delay : 0.0 ns Hold off : 0.2 µs

[2] VOLTAGE

IC101	
PIN NO.	VOLTAGE
1	4.13V
2	1.63V
3	0V
4	1.63V
5	1.55V
6	12V
7	18.2V
8	9.2V
9	0V
10	0V
11	0V
12	9.3V
13	0V

IC301	
PIN NO.	VOLTAGE
1	2.2V
2	2.2V
3	2.45V
4	0V
5	5V
6	5V
7	2.2V
8	2.2V
9	4V
10	3.86V
11	2.85V
12	2.28V
13	2.28V
14	0V
15	0V
16	0V
17	0V
18	3.4V
19	1.26V
20	1.7V
21	3.43V
22	2.2V
23	2.3V
24	0V
25	2.6V
26	2.14V
27	2.14V
28	1.3V
29	2.7V
30	1V
31	4.9V
32	4.9V
33	4.9V
34	4.9V
35	0V
36	1V

IC680	
PIN NO.	VOLTAGE
1	5.1V
2	0V
3	10.6V

IC681	
PIN NO.	VOLTAGE
1	5.1V
2	0V
3	20V

IC705	
PIN NO.	VOLTAGE
1	5.7V
2	0.6V
3	10V

IC401	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	4.5V
13	0.7V
14	-4.5V
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V
21	0V
22	0V
23	0V
24	0V
25	0V
26	0V
27	0V
28	0V

IC802	
PIN NO.	VOLTAGE
1	7.75V
2	2.77V
3	1.45V
4	1.47V
5	3.9V
6	3.3V
7	0V
8	0V
9	0V
10	3.5V
11	3.7V
12	1.46V
13	1.45V
14	2.9V
15	1V
16	2.9V
17	3.4V
18	1.45V
19	1.45V
20	3.7V
21	3.6V
22	0V
23	0V
24	0V
25	3.6V
26	3.6V
27	1.46V
28	1.46V
29	1.46V
30	7.8V

IC801	
PIN NO.	VOLTAGE
1	1.38V
2	1.47V
3	1.45V
4	1.2V
5	1.6V
6	1.7V
7	1.67V
8	1.63V
9	1.42V
10	1.4V
11	1.46V
12	1.74V
13	1.75V
14	1.74V
15	1.43V
16	1.43V
17	1.43V
18	2V
19	0.18V
20	0V
21	2.9V
22	1.47V
23	1.5V
24	1.5V
25	1.6V
26	0V
27	0V
28	1V
29	0.93V
30	2.74V
31	0V
32	2.8V
33	0V
34	2.8V
35	0V
36	2.8V
37	0V
38	1.8V
39	2.8V
40	0V
41	2.8V
42	0V
43	0.45V
44	3V
45	3V
46	0V
47	3.23V
48	2.8V
49	2.8V
50	2.8V
51	0V
52	0V
53	0V
54	0V
55	0V
56	0V
57	0V
58	0V
59	0V
60	0V
61	2.57V
62	1.44V
63	2.1V
64	2.1V
65	0V
66	1.8V
67	0V
68	2.8V
69	0V
70	0V
71	0V
72	1V
73	1.14V
74	2.7V
75	1.64V
76	3.3V
77	0V
78	1.64V
79	2.9V
80	1.4V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0V	51	2.4V
2	0V	52	2.4V
3	0V	53	2.4V
4	0V	54	4.8V
5	0V	55	0V
6	0V	56	2.4V
7	0V	57	2.4V
8	0V	58	2.4V
9	0V	59	2.4V
10	0V	60	2.4V
11	5V	61	2.4V
12	1.7V	62	2.4V
13	2.4V	63	2.4V
14	0V	64	2.4V
15	0V	65	2.4V
16	0V	66	2.4V
17	5V	67	2.4V
18	0V	68	2.4V
19	5V	69	2.4V
20	0.5V	70	2.4V
21	0V	71	2.4V
22	0V	72	2.4V
23	0V	73	2.4V
24	5V	74	2.4V
25	0V	75	2.4V
26	5V	76	2.4V
27	0V	77	2.4V
28	5V	78	2.4V
29	0V	79	2.4V
30	0V	80	0V
31	4.5V	81	1.7V
32	0V	82	3.3V
33	5V	83	2.4V
34	0V	84	2.4V
35	0V	85	2.4V
36	5V	86	2.4V
37	0V	87	0V
38	0V	88	0V
39	0V	89	0V
40	0V	90	5V
41	0V	91	0V
42	0V	92	0V
43	0V	93	0V
44	0V	94	0V
45	0V	95	0V
46	2.4V	96	5V
47	2.4V	97	0V
48	0V	98	0V
49	2.4V	99	0V
50	2.4V	100	0V

Q104	
PIN NO.	VOLTAGE
E	0V
C	3.3V
B	0.54V

Q206	
PIN NO.	VOLTAGE
E	5V
C	-9V
B	5V

Q207	
PIN NO.	VOLTAGE
E	-3V
C	0V
B	-9V

Q208	
PIN NO.	VOLTAGE
E	-3V
C	0V
B	-9V

Q209	
PIN NO.	VOLTAGE
E	-3V
C	0V
B	9V

Q214	
PIN NO.	VOLTAGE
E	0V
C	5V
B	0V

Q215	
PIN NO.	VOLTAGE
E	9.3V
C	9.2V
B	8.5V

Q216	
PIN NO.	VOLTAGE
E	0V
C	0V
B	4V

Q217	
PIN NO.	VOLTAGE
E	9.3V
C	0V
B	9.3V

Q218	
PIN NO.	VOLTAGE
E	0V
C	9.3V
B	0V

Q237	
PIN NO.	VOLTAGE
E	0V
C	4.8V
B	0V

Q238	
PIN NO.	VOLTAGE
E	4.9V
C	4.9V
B	1.2V

Q303	
PIN NO.	VOLTAGE
E	0V
C	3.6V
B	0.8V

Q410	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0V

Q411	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0V

Q611	
PIN NO.	VOLTAGE
E	-5V
C	-12.7V
B	-5.6V

Q612	
PIN NO.	VOLTAGE
E	20V
C	20V
B	0.7V

Q613	
PIN NO.	VOLTAGE
E	20V
C	20V
B	5.1V

Q655	
PIN NO.	VOLTAGE
E	3.5V
C	18V
B	9.1V

Q657	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0.7V

Q658	
PIN NO.	VOLTAGE
E	9.3V
C	17.2V
B	9.9V

Q659	
PIN NO.	VOLTAGE
E	18V
C	18V
B	0.6V

Q660	
PIN NO.	VOLTAGE
E	11V
C	11V
B	0.7V

Q661	
PIN NO.	VOLTAGE
E	18V
C	18V
B	0.7V

Q662	
PIN NO.	VOLTAGE
E	0V
C	0V
B	4V

Q663	
PIN NO.	VOLTAGE
E	5V
C	5V
B	0.6V

Q664	
PIN NO.	VOLTAGE
E	1.3V
C	1.3V
B	0.7V

Q665	
PIN NO.	VOLTAGE
E	-12V
C	-12V
B	-8V

Q701	
PIN NO.	VOLTAGE
E	0V
C	4.8V
B	0V

Q703	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0.7V

Q704	
PIN NO.	VOLTAGE
E	0V
C	5V
B	0V

Q705	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0.8V

Q801	
PIN NO.	VOLTAGE
E	2.76V
C	1.8V
B	2V

Q802	
PIN NO.	VOLTAGE
E	2.9V
C	6.3V
B	3.6V

Q805	
PIN NO.	VOLTAGE
E	3.27V
C	5V
B	3.93V

Q806	
PIN NO.	VOLTAGE
E	7.9V
C	18.1V
B	8.55V

Q301	
PIN NO.	VOLTAGE
E	10.5V
C	18V
B	11V

Q302	
PIN NO.	VOLTAGE
E	1V
C	2.7V
B	1.7V

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] 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,

   ( ) indicates AM

   < > indicates FM stereo

2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back.

   ( ) indicates the record state.

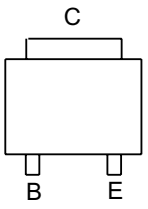
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with “ ⚠ ” (⊏ ニ ニ ニ ⊐) 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.

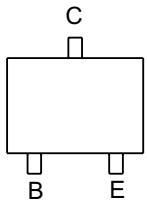
REF. NO	DESCRIPTION	POSITION
SW700	VOLUME	ON—OFF
SW701	ON/STAND-BY	ON—OFF
SW702	STOP/TUNING DOWN	ON—OFF
SW703	REW/PRESET DOWN	ON—OFF
SW704	PLAY/CD PAUSE/TUNING UP	ON—OFF
SW705	MEMORY/SET	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW706	FUNCTION	ON—OFF
SW707	REC/PAUSE	ON—OFF
SW708	BASS/TREBLE	ON—OFF
SW709	FF/PRESET UP	ON—OFF
SW710	DISC EJECT	ON—OFF
SW901	FOOL PROOF	ON—OFF
SW902	PLAY	ON—OFF

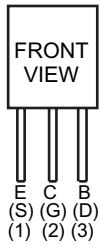
[2] TYPES OF TRANSISTOR AND LED



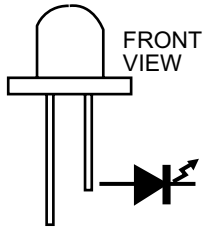
2SK2541



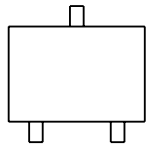
2SC3052 F+
2SC5477++
2SA1235 F+



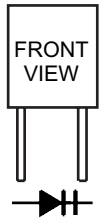
2HA1015 GR
2HC1815 GR
KTC3200 GR
2SB562 C
KRC101 M
2SB561 C
KRC106 M
KRC107 M
KRA107 M
KTC2026 Y



MPG3372X

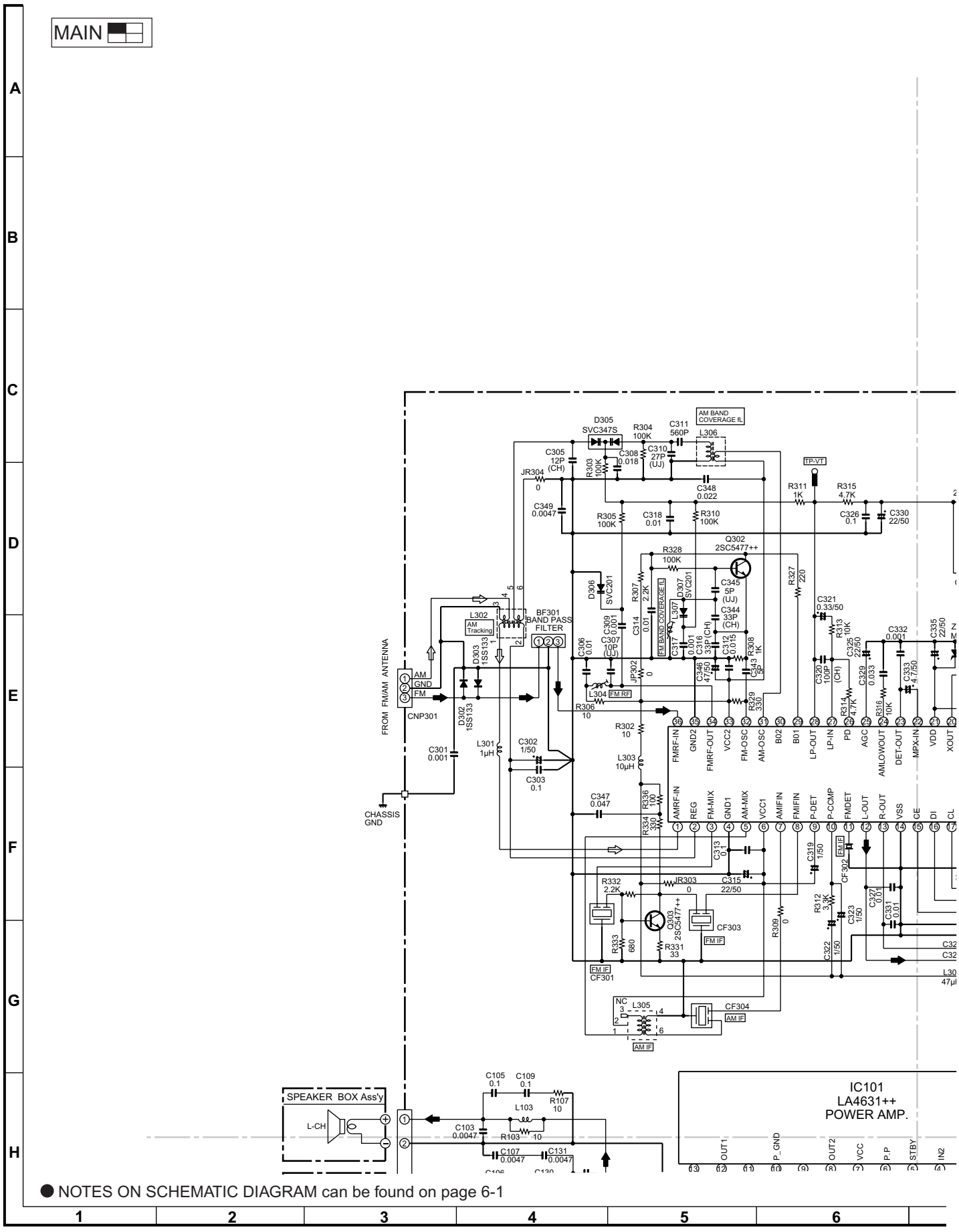


SVC347S



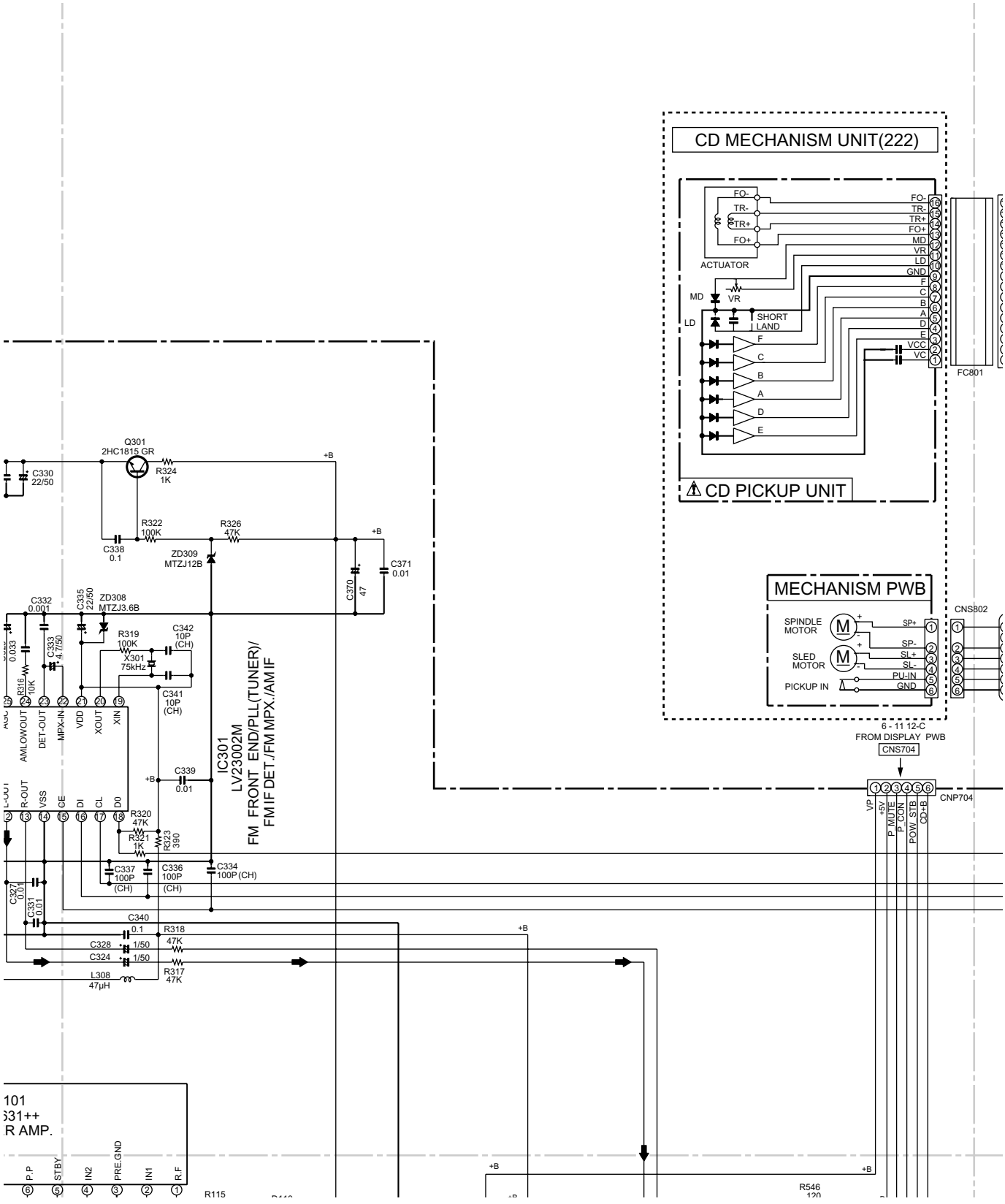
SVC201

[3] WIRING SIDE OF PWB/SCHEMATIC DIAGRAM



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

Figure 6-2 SCHEMATIC DIAGRAM (1/10)



7	8	9	10	11	12

Figure 6-3 SCHEMATIC DIAGRAM (2/10)

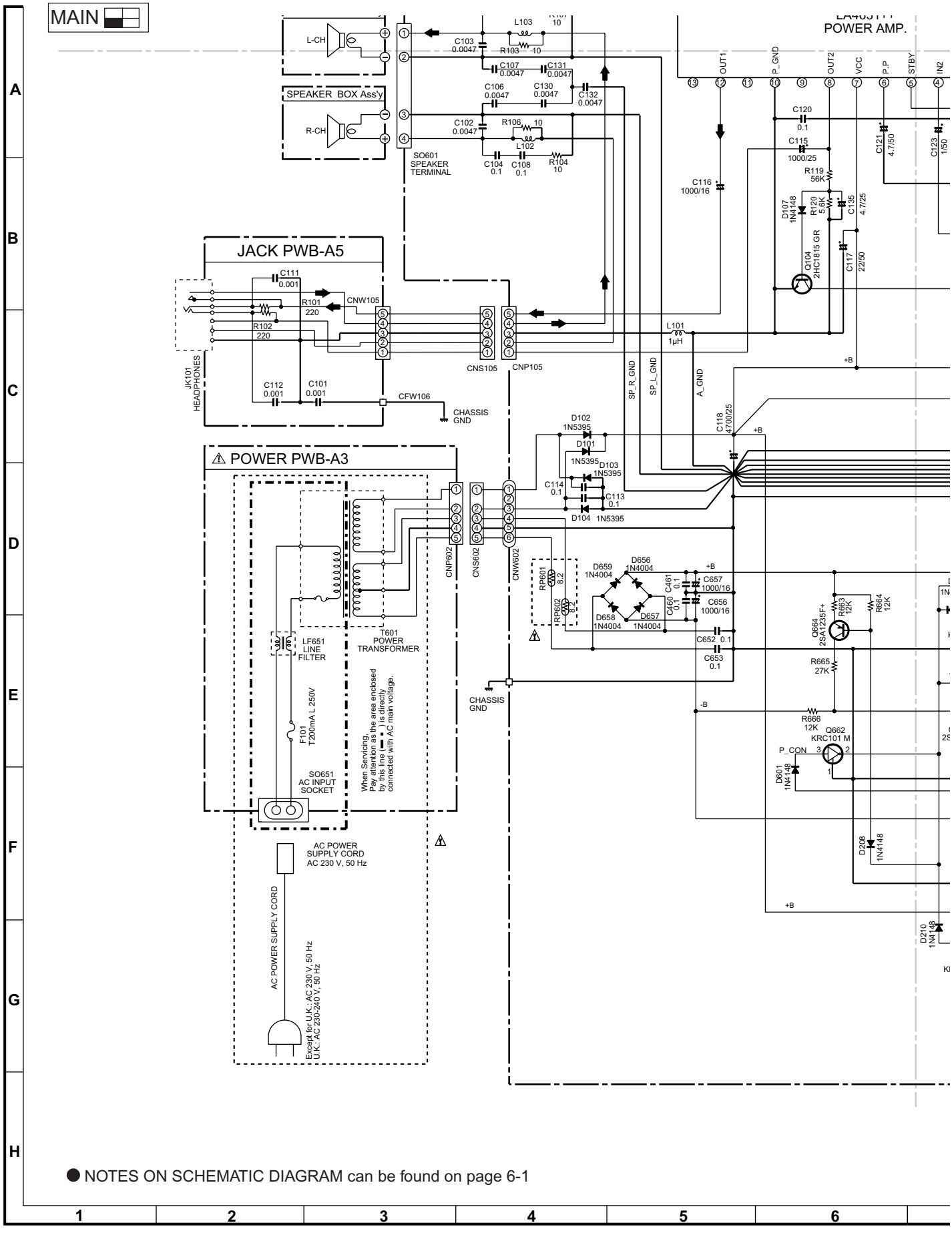
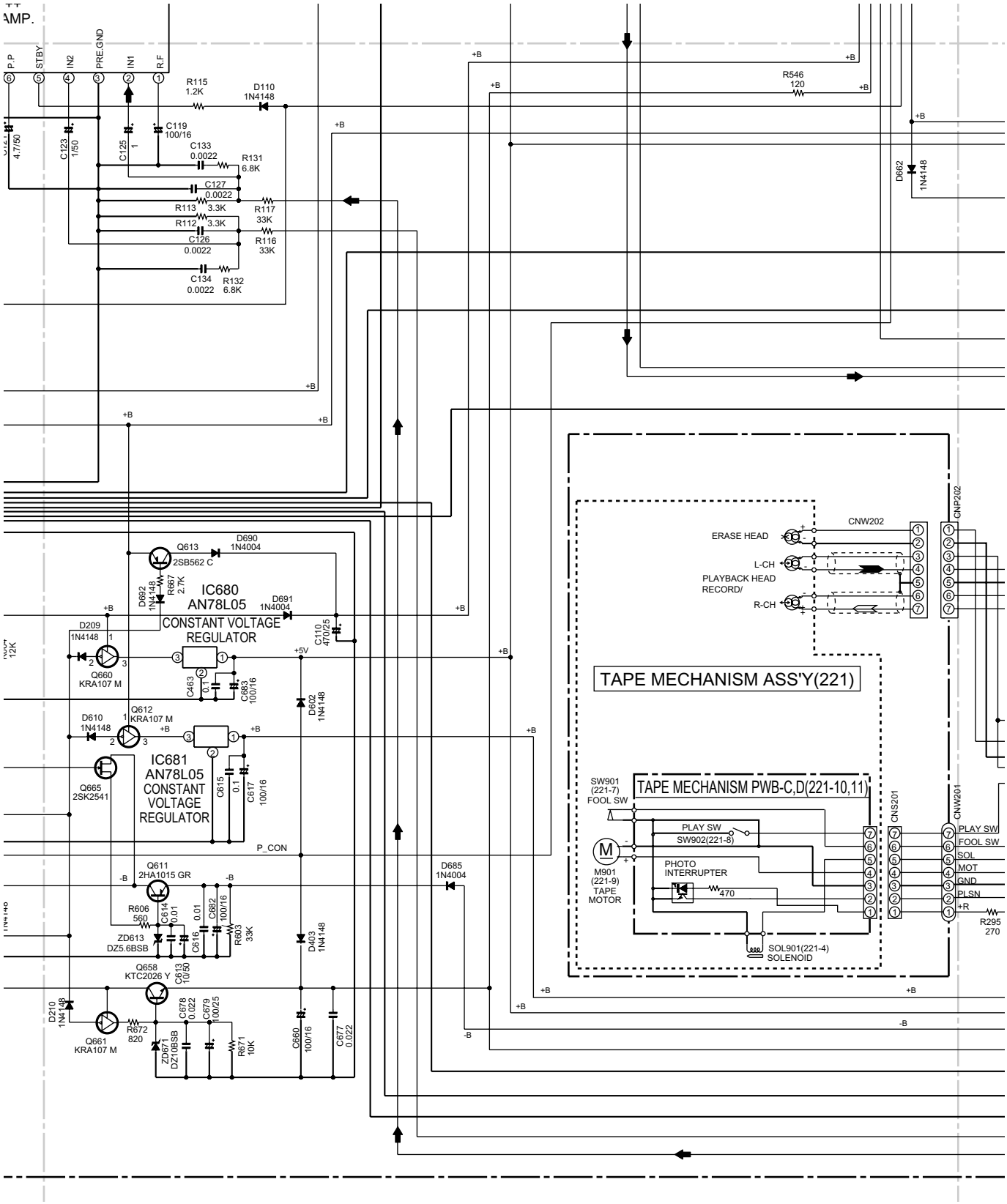


Figure 6-4 SCHEMATIC DIAGRAM (3/10)



	7	8	9	10	11	12

Figure 6-5 SCHEMATIC DIAGRAM (4/10)

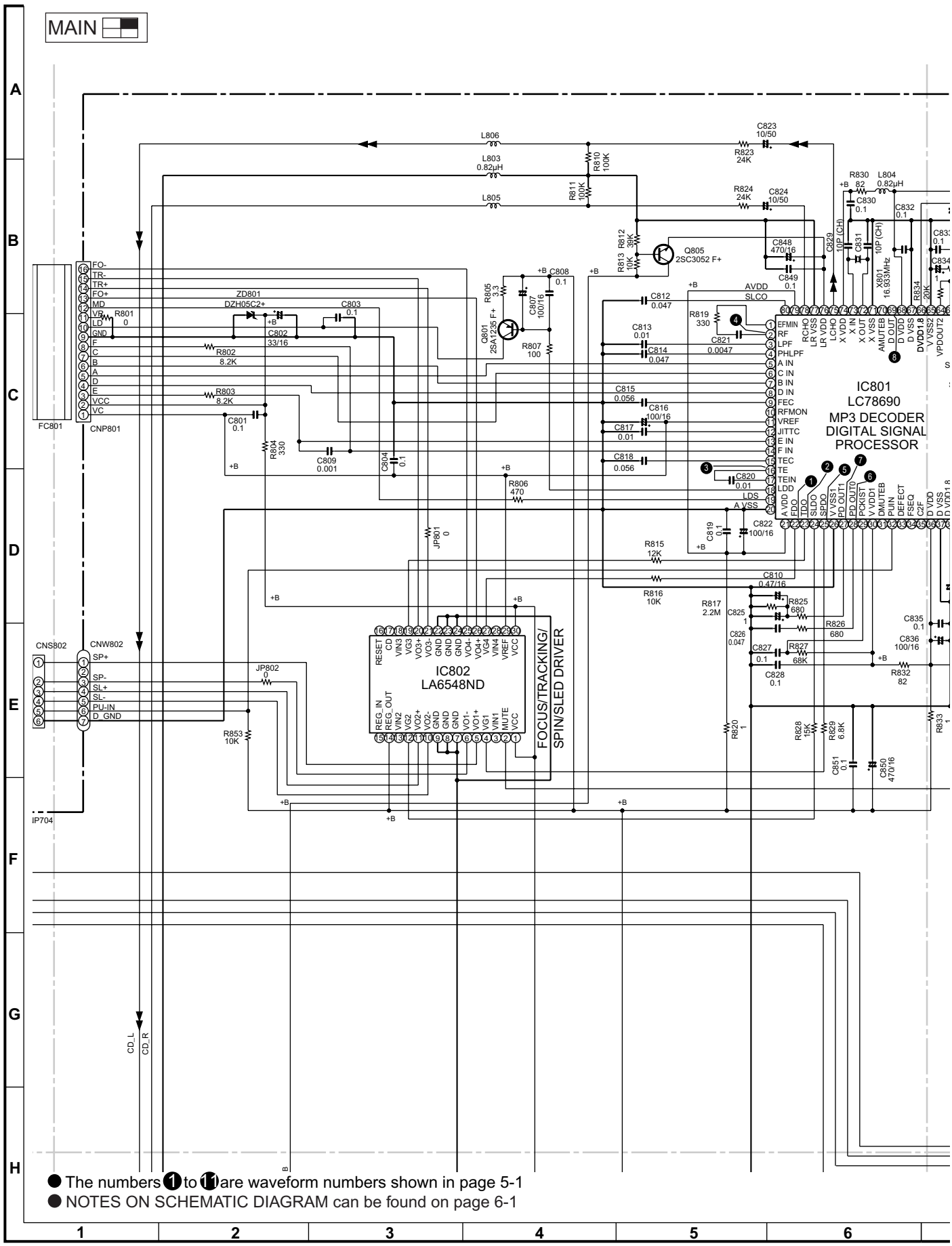
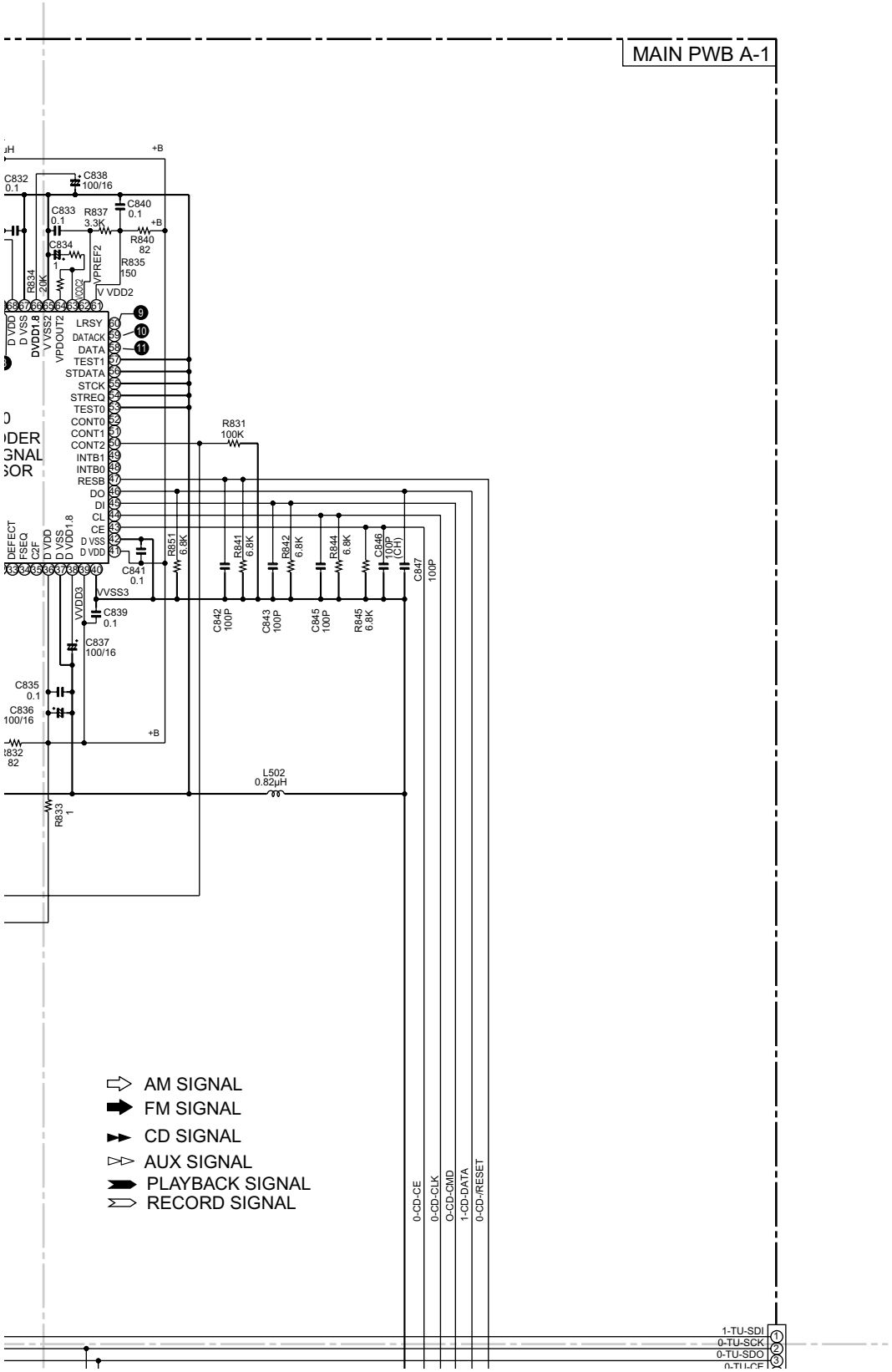


Figure 6-6 SCHEMATIC DIAGRAM (5/10)



	7	8	9	10	11	12

Figure 6-7 SCHEMATIC DIAGRAM (6/10)

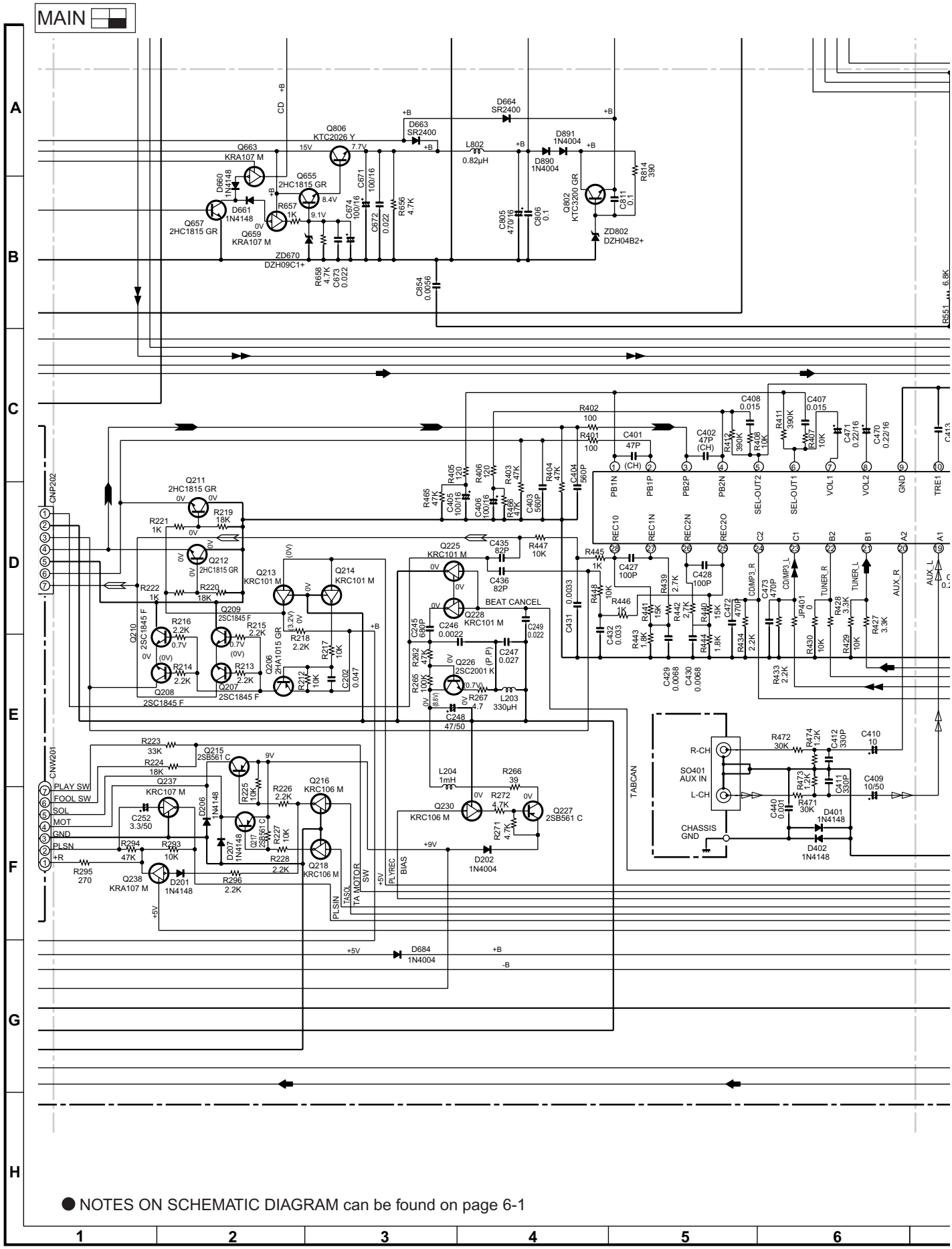
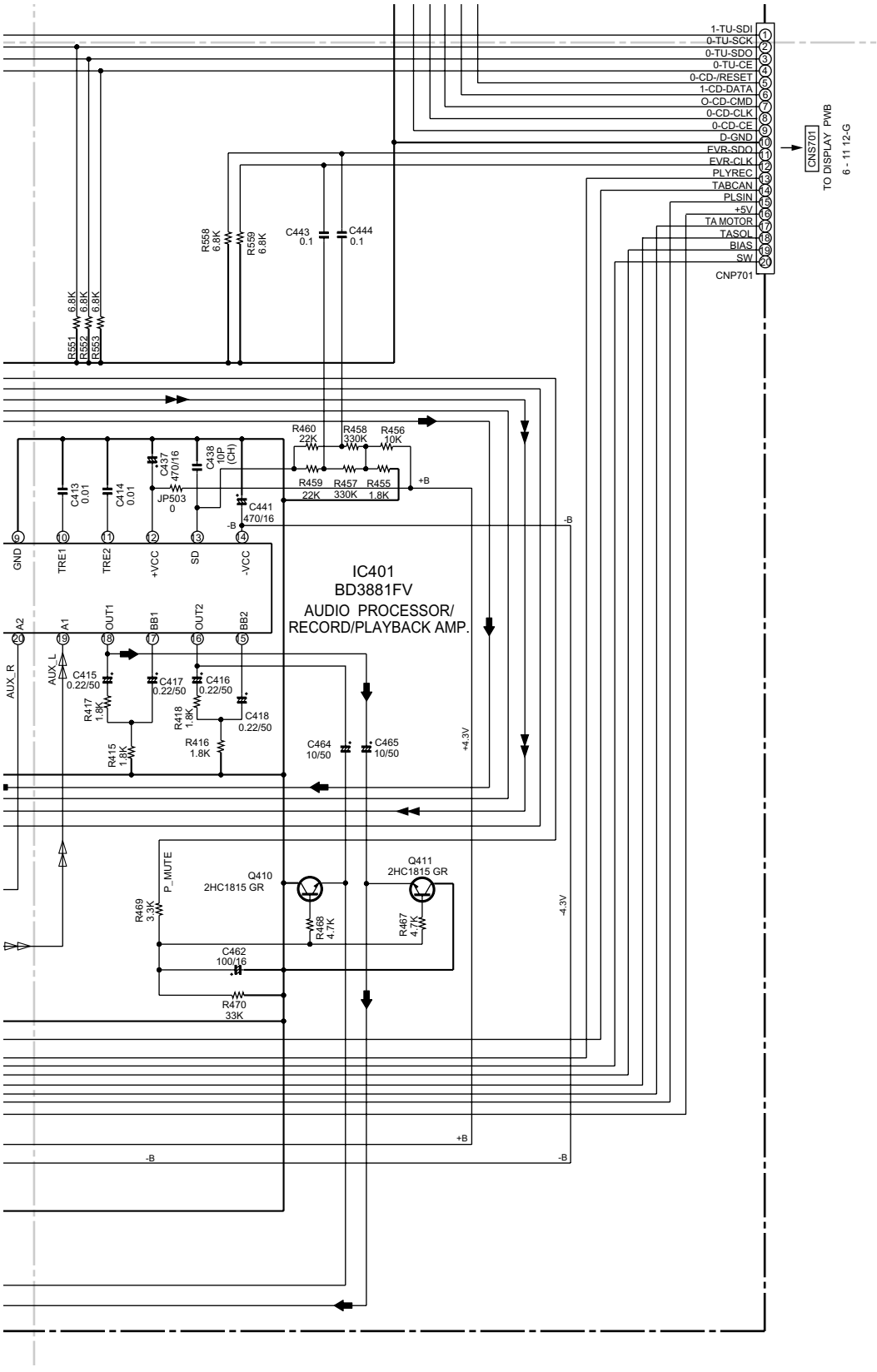


Figure 6-8 SCHEMATIC DIAGRAM (7/10)



	7	8	9	10	11	12

Figure 6-9 SCHEMATIC DIAGRAM (8/10)

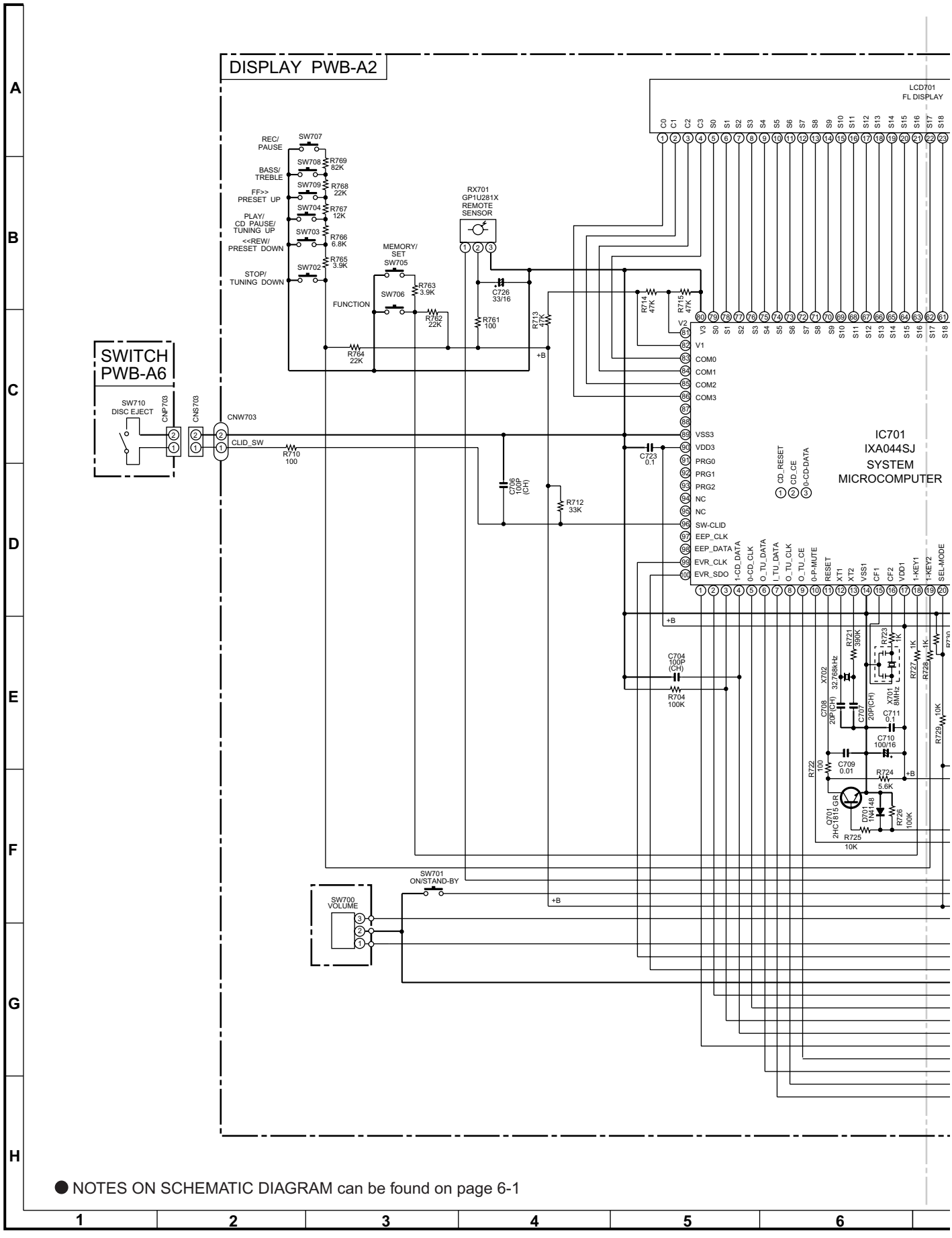


Figure 6-10 SCHEMATIC DIAGRAM (9/10)

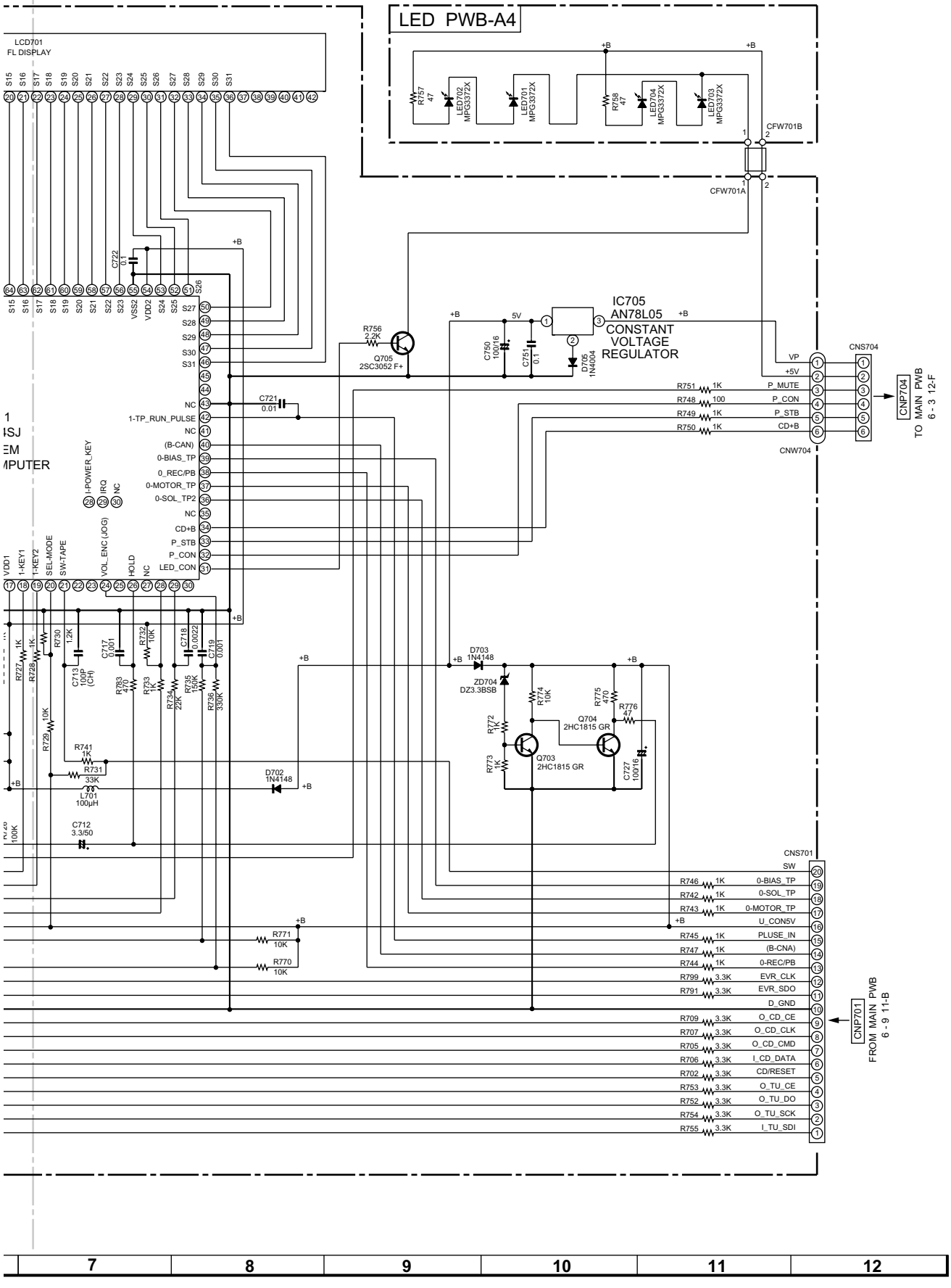


Figure 6-11 SCHEMATIC DIAGRAM (10/10)

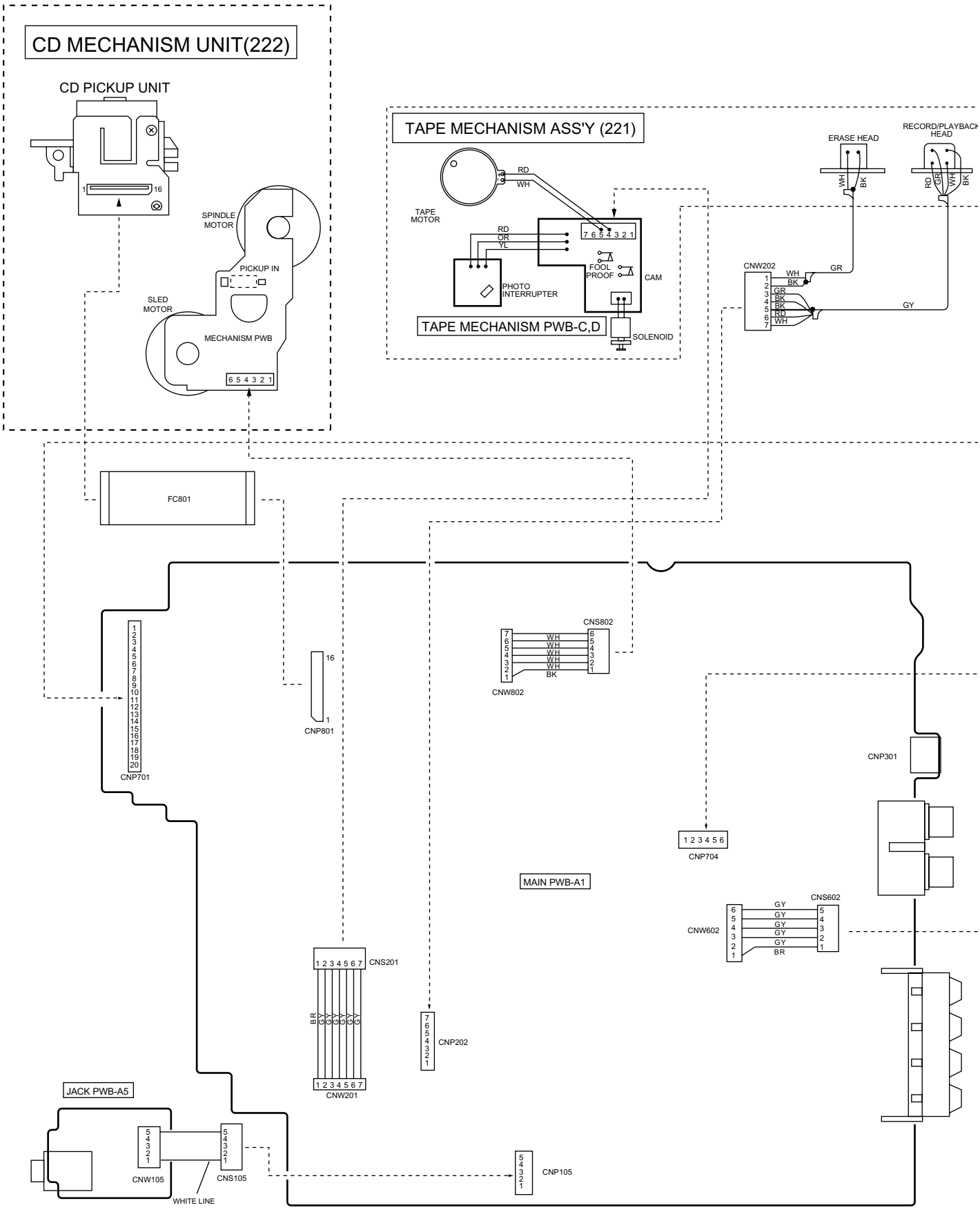


Figure 6-12 WIRING SIDE OF PWB (1/7)

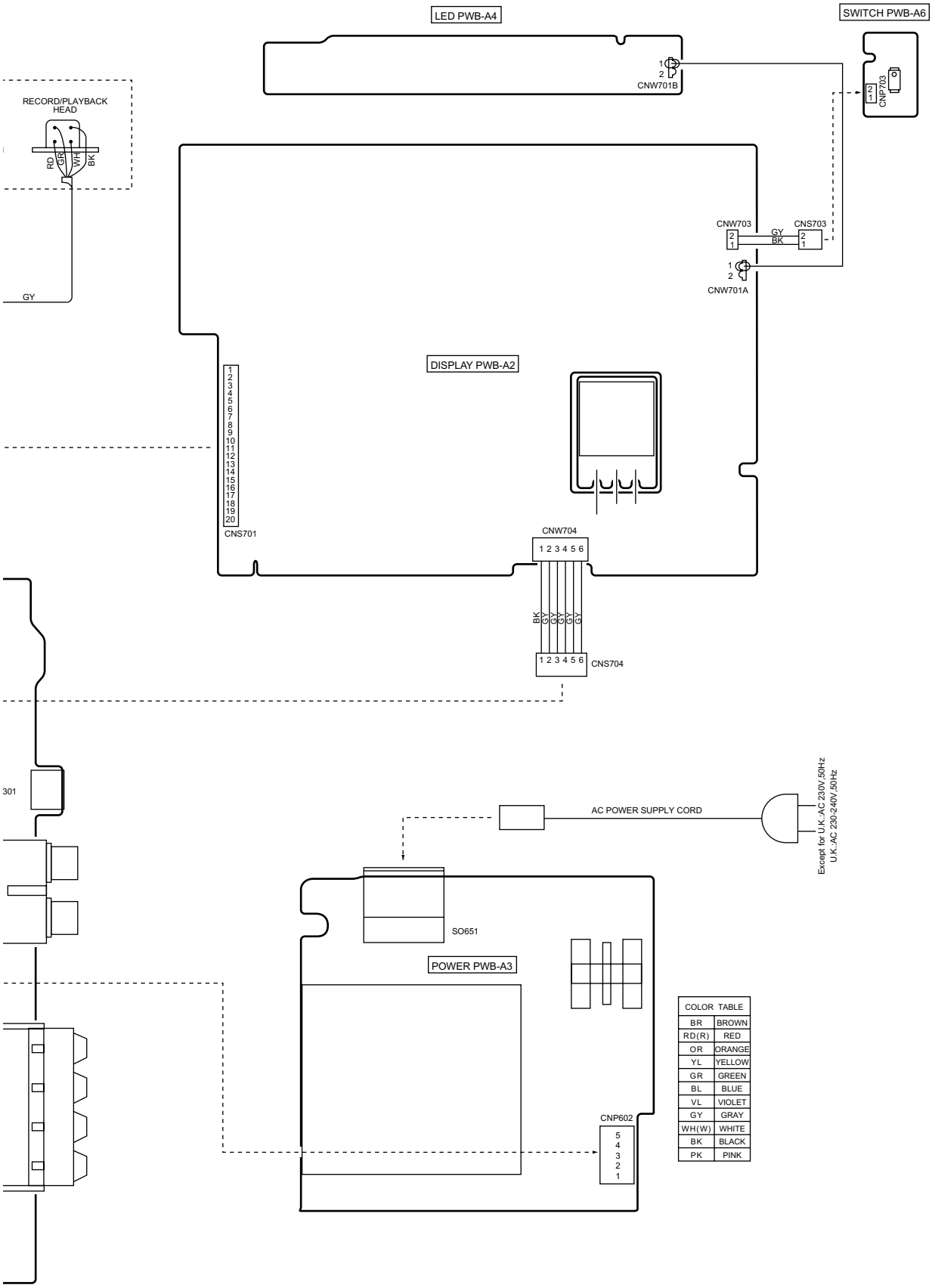


Figure 6-13 WIRING SIDE OF PWB (2/7)

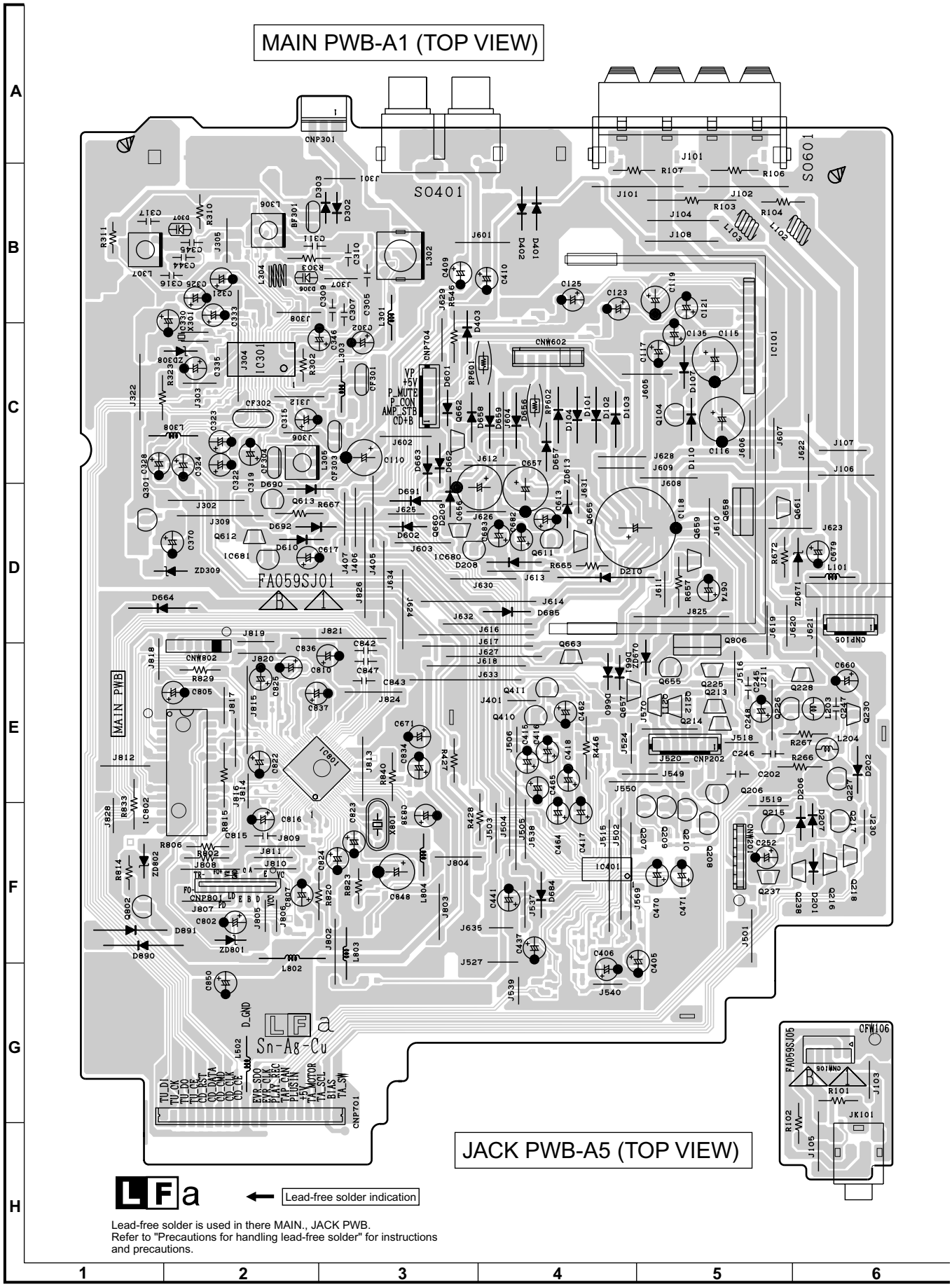
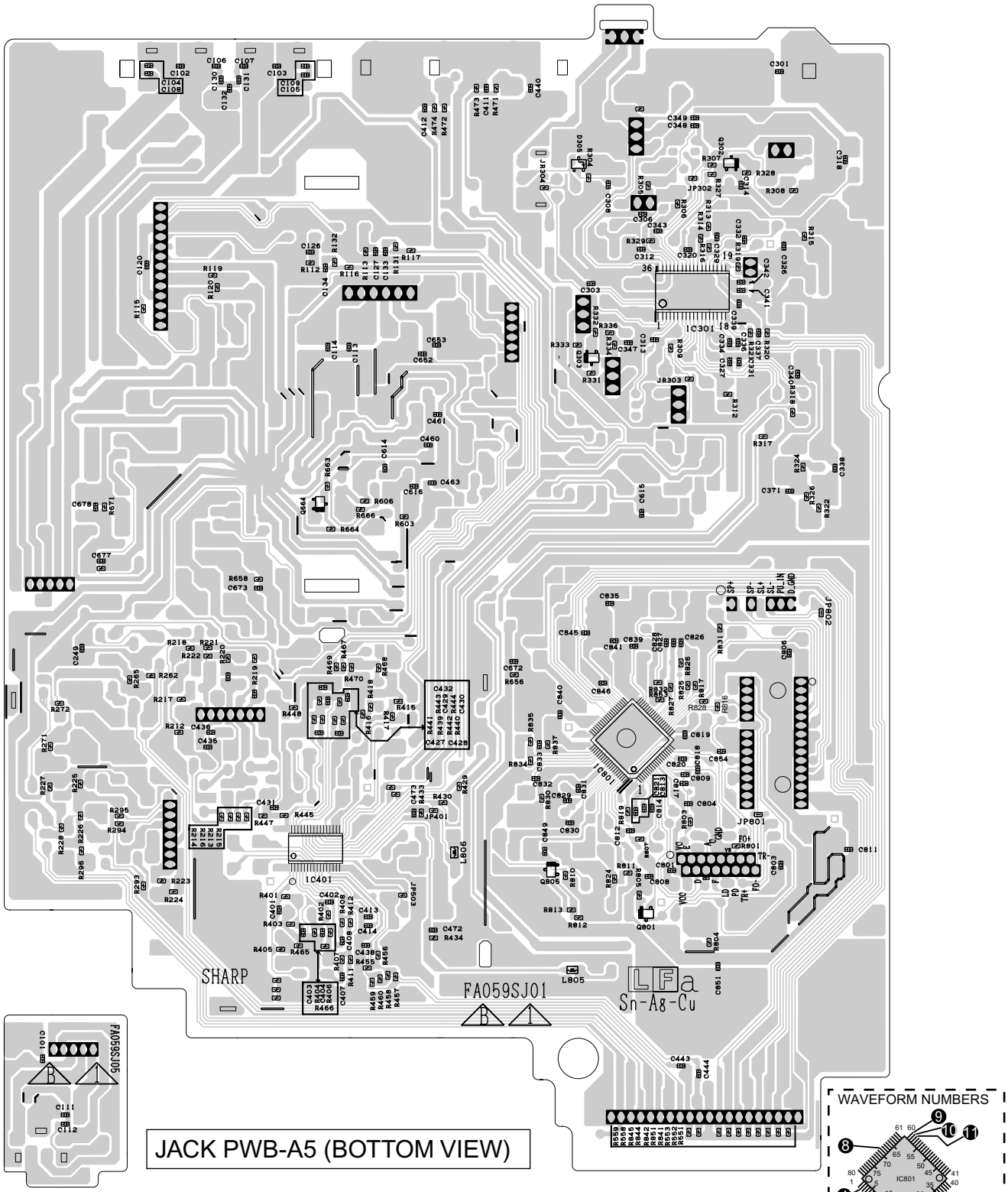


Figure 6-14 WIRING SIDE OF PWB (3/7)

MAIN PWB-A1 (BOTTOM VIEW)



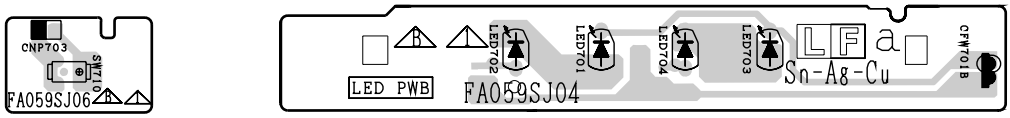
JACK PWB-A5 (BOTTOM VIEW)

● The numbers ❶ to ⓫ are waveform numbers shown in page 5-1

7	8	9	10	11	12

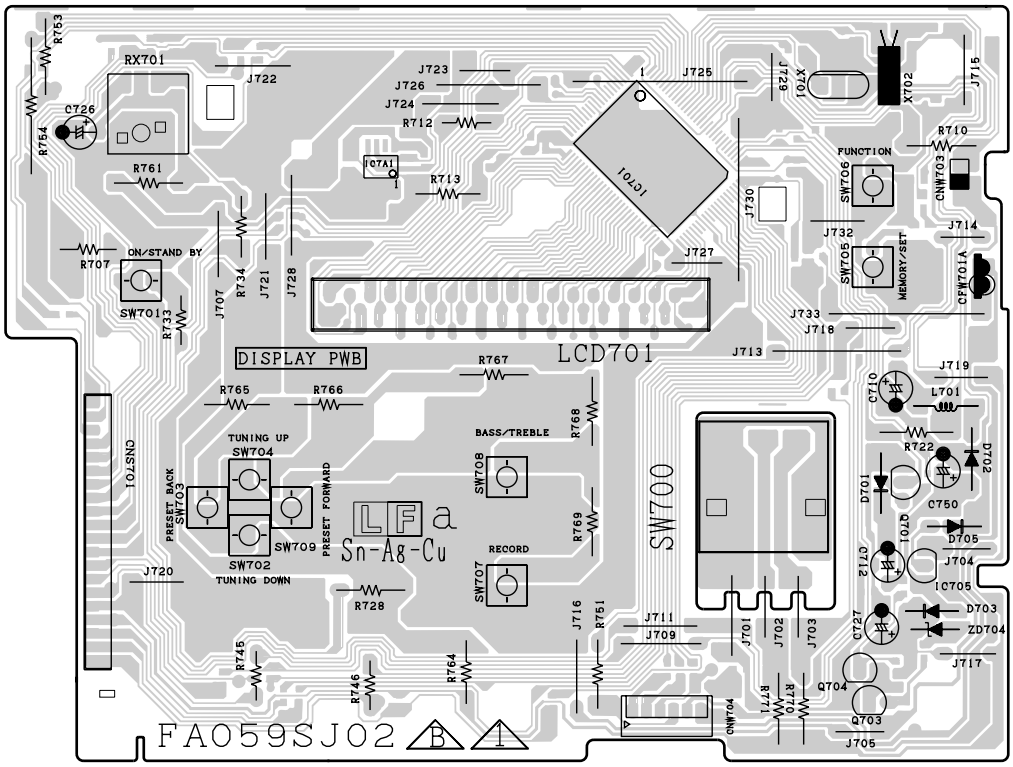
Figure 6-15 WIRING SIDE OF PWB (4/7)

LED PWB-A4 (TOP VIEW)



SWITCH PWB-A6 (TOP VIEW)

DISPLAY PWB-A2 (TOP VIEW)

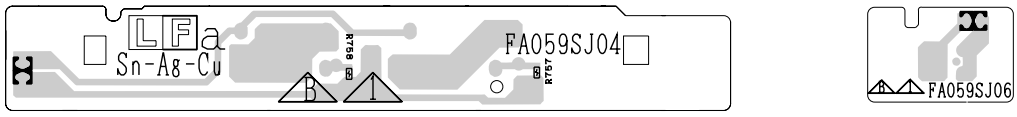


LFa ← Lead-free solder indication

Lead-free solder is used in the DISPLAY,LED,SWITCH PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

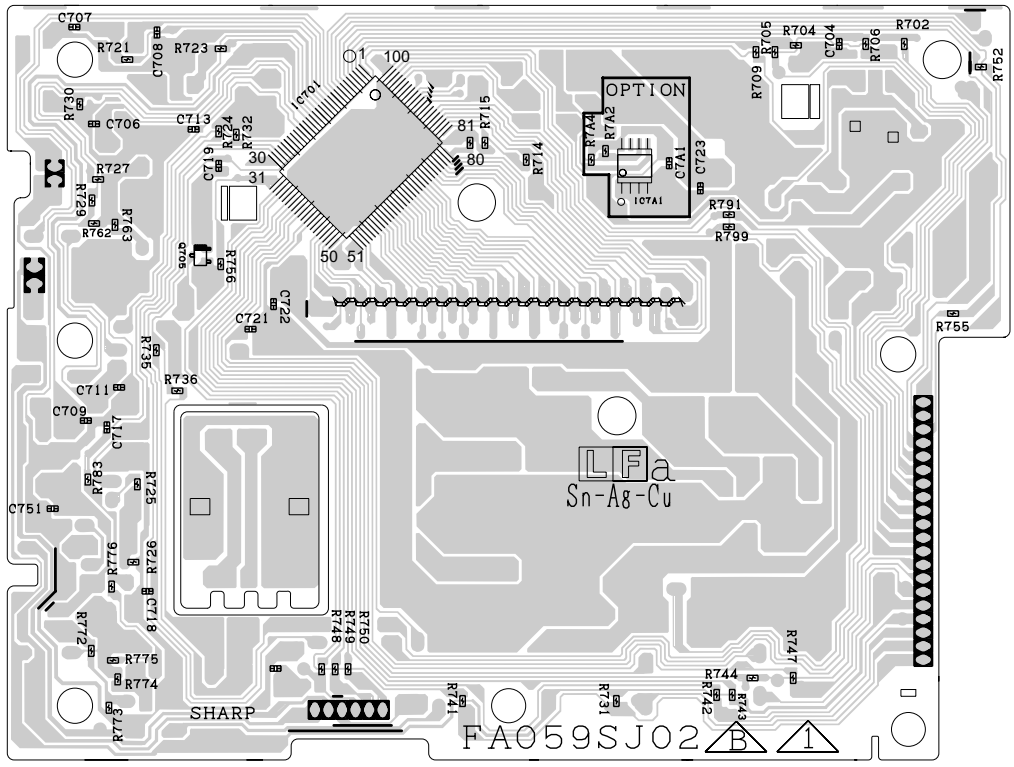
Figure 6-16 WIRING SIDE OF PWB (5/7)

LED PWB-A4 (BOTTOM VIEW)



SWITCH PWB-A6 (BOTTOM VIEW)

DISPLAY PWB-A2 (BOTTOM VIEW)

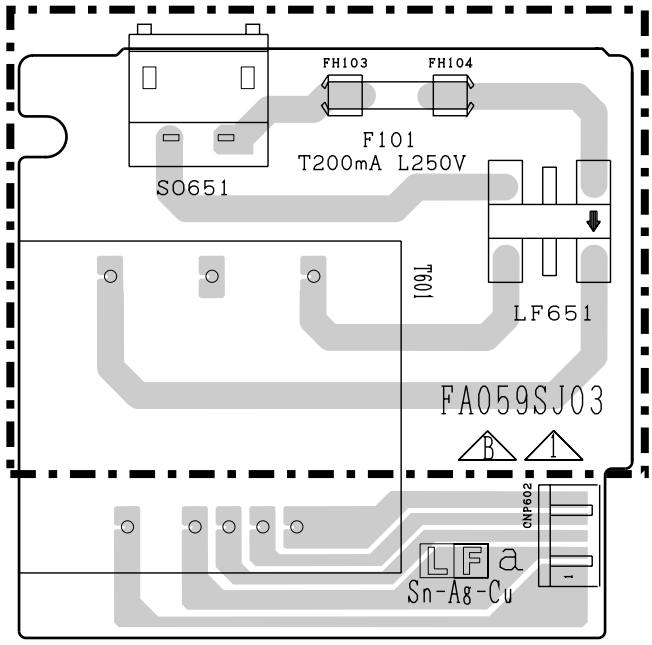


	7	8	9	10	11	12

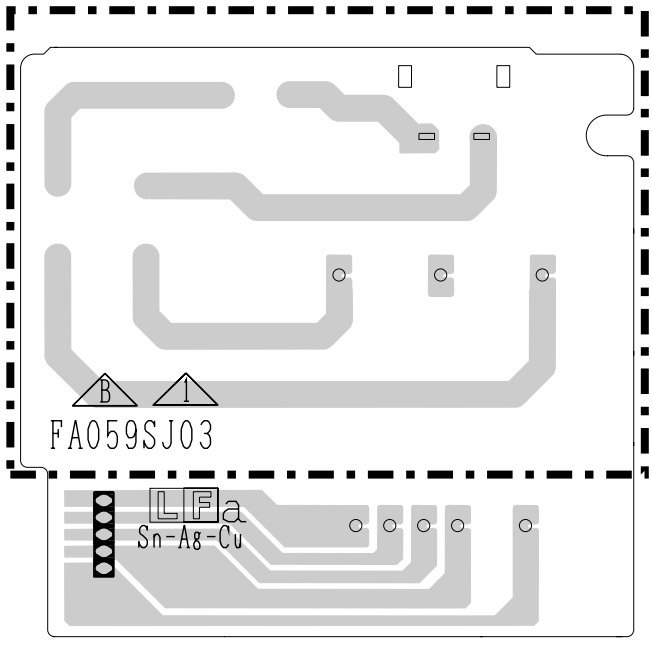
Figure 6-17 WIRING SIDE OF PWB (6/7)

POWER PWB-A3 (TOP VIEW)

When Servicing,
Pay attention as the area enclosed by this line (▬ ▪ ▬) is directly connected with AC main voltage.



POWER PWB-A3 (BOTTOM VIEW)



LF a ← Lead-free solder indication

Lead-free solder is used in the POWER PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-18 WIRING SIDE OF PWB (7/7)

CHAPTER 7. OTHERS

[1] FUNCTION TABLE OF IC

IC701 RH-iXA044SJZZ: System Microcomputer (IXA044SJ)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	P06	O_CD_RESET	Output	CD RESET
2	P07	O_CD_CE	Output	CD-CE
3	P10/SO0	O_CD_DATA	Output	CD DATA OUT
4	P11/SI0/SB0	I_CD_DATA	Input	CD DATA INPUT
5	P12/SCK0	O_CD_CLK	Output	CD CLOCK
6	P13/SO1	O_TU_DATA	Output	TUNER DATA OUT (LV23002)
7	P14/S11/SB1	I_TU_DATA	Input	TUNER DATA INPUT (LV23002)
8	P15/SCK1	O_TU_CLK	Output	TUNER CLOCK (LV23002)
9	P16/T1PWML	O_TU_CE	Output	TUNER CHIP SELECT
10	P17/T1PWMH/ BUZ	O_P_MUTE	Output	AMP INPUT MUET (H:ON)
11	RES	-	Input	RESET
12	XT1/AN10	-	-	SUB CLOCK f=32.768KHz
13	XT2/AN11	-	-	
14	VSS1	GND	-	GND
15	CF1	-	-	MAIN CLOCK f=8MHz
16	CF2	-	-	
17	VDD1	VDD1	-	+5.0V
18	P80/AN0	I_KEY1	I[A/D]	KEY INPUT
19	P81/AN1	I_KEY2	I[A/D]	KEY INPUT
20	P82/AN2	I_SUFIXÅ(MATRIX)	I[A/D]	DIFFERENT COUNTRY SELECT
21	P83/AN3	I_TP_STATE	I[A/D]	DECK STATE INPUT
22*	P84/AN4	NC	-	
23*	P85/AN5	NC	-	
24	P86/AN6	I_VOL_ENC	I[A/D]	VOL ENCODER INPUT
25*	P87/AN7/MICIN	NC	-	
26	P70/INT0/T0LCP/ AN8	I_HOLD	I[INT]	BACKUP
27*	P71/INT1/T0HCP/ AN9	NC	-	
28	P72/INT2/T0IN	I_POWER	I[INT]	POWER KEY
29	P73/INT3/T0IN	I_REM	I[INT]	REMOTE SIGNAL INPUT
30*	S0/PA0	NC	-	
31	S1/PA1	LED_CON	Output	LED CONTROL
32	S2/PA2	O_POWER	Output	POWER SWITCH
33	S3/PA3	O_AMP_ON	Output	AMP ON
34	S4/PA4	O_CD_ON	Output	CD POWER ON
35*	S5/PA5	NC	-	
36	S6/PA6	O_TP_SOL	Input	TAPE SOLIDE
37	S7/PA7	O_TP_MOTOR	Input	TAPE MOTER
38	S8/PB0	O_TP_REC	Input	TAPE RECORD
39	S9/PB1	O_TP_BIAS	Input	TAPE BIAS
40	S10/PB2	O_B_CAN	Input	AM=>TAPE REC "Beat" CANCEL
41*	S11/PB3	NC	-	
42	S12/PB4	I_TP_RUNPLS	Input	TAPE RUN PLUS IN
43	S13/PB5	NC	-	
44*	S14/PB6	NC	-	
45*	S15/PB7	NC	-	
46	S16/PC0	S31	-	LCD SEGMENT
47	S17/PC1	S30	-	
48	S18/PC2	S29	-	
49	S19/PC3	S28	-	
50	S20/PC4	S27	-	
51	S21/PC5	S26	-	
52	S22/PC6	S25	-	
53	S23/PC7	S24	-	
54	VDD2	VDD2	-	+5.0V
55	VSS2	GND	-	GND

Pin No.	Port Name	Terminal Name	Input/Output	Function
56	S24/PD0	S23	-	LCD SEGMENT
57	S25/PD1	S22	-	
58	S26/PD2	S21	-	
59	S27/PD3	S20	-	
60	S28/PD4	S19	-	
61	S29/PD5	S18	-	
62	S30/PD6	S17	-	
63	S31/PD7	S16	-	
64	S32/PE0	S15	-	
65	S33/PE1	S14	-	
66	S34/PE2	S13	-	
67	S35/PE3	S12	-	
68	S36/PE4	S11	-	
69	S37/PE5	S10	-	
70	S38/PE6	S9	-	
71	S39/PE7	S8	-	
72	S40/PF0	S7	-	
73	S41/PF1	S6	-	
74	S42/PF2	S5	-	
75	S43/PF3	S4	-	
76	S44/PF4	S3	-	
77	S45/PF5	S2	-	
78	S46/PF6	S1	-	
79	S47/PF7	S0	-	
80	V3/PL6/AN14	NC	Output	
81	V2/PL5/AN13	NC	Output	
82	V1/PL4/AN12	NC	Output	
83	COM1/PL0	COM0	-	LCD COMMON
84	COM1/PL1	COM1	-	
85	COM2/PL2	COM2	-	
86	COM3/PL3	COM3	-	
87*	P30/INT4/T1IN	NC	Output	
88*	P31/INT4/T1IN	NC	Output	
89	VSS3	GND	-	
90	VDD3	VDD3	-	
91*	P32/INT4/T1IN	NC	Output	
92*	P33/INT4/T1IN	PRG2	Input/Output	PROGRAM USE
93*	P34/INT5/T1IN	PRG1	Input/Output	
94*	P35/INT5/T1IN	PRG0	Output	
95*	P00	NC	Output	
96	P01	I_CD_LID	Input	CD LID OPEN SWITCH
97*	P02	O_EEP_CLK	Output	EEPROM CLOCK
98*	P03	IO_EEP_DATA	Input/Output	EEPROM DATA
99	P04	O_FUNC_CLK	Output	CONT OUT (BD3881)
100	P05	O_FUNC_DATA	Output	CONT OUT (BD3881)

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

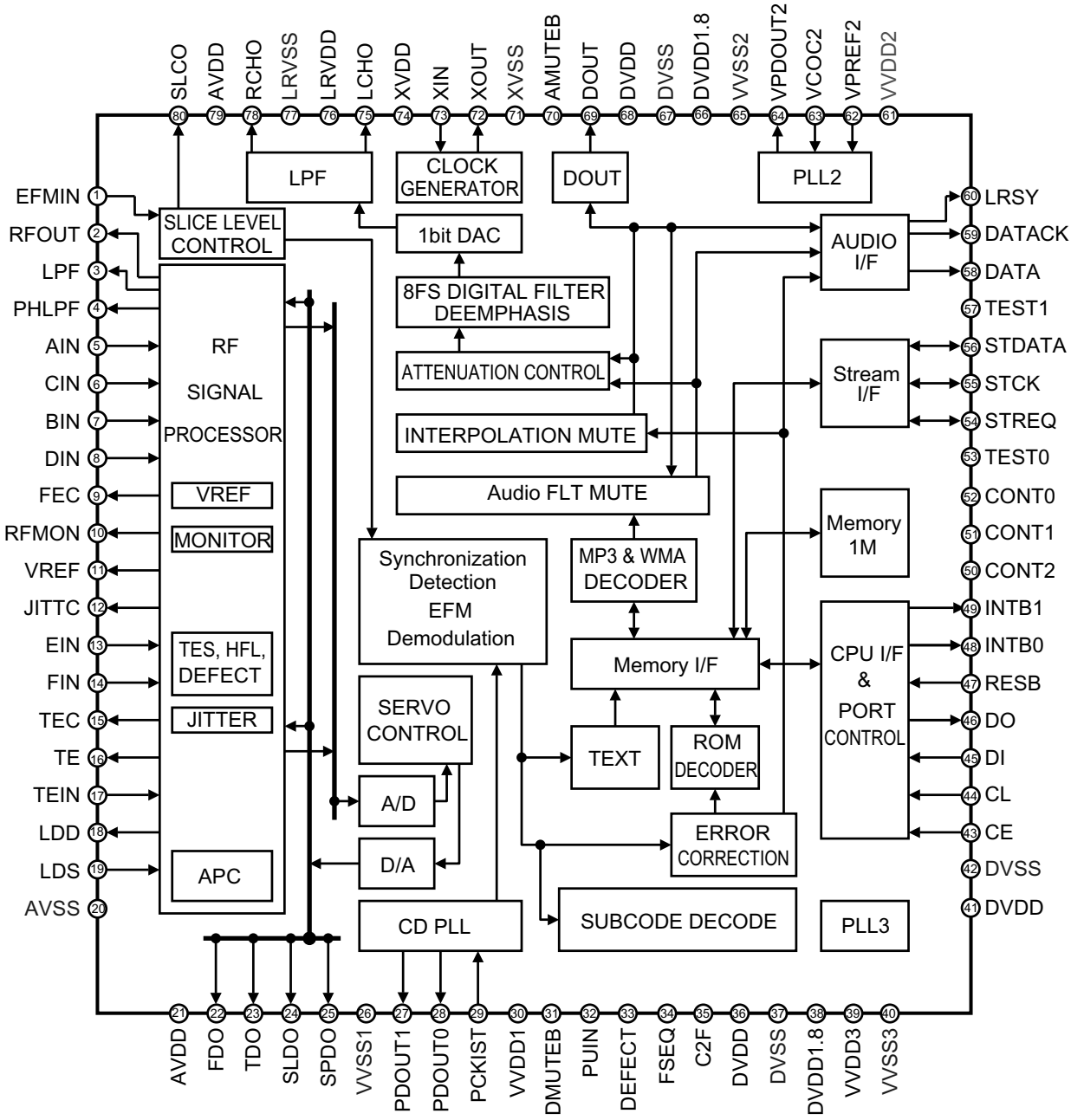
IC801 VHiLC78690/-1:MP3 Decoder Digital Signal Processor (LC78690)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	EFMIN	Input	Input	RF signal input.	
2	RFOUT	Output	Unfix	RF signal output.	
3	LPF	Output	Unfix	To LPF capacitor for detecting DC level of RF signal.	
4	PHLPF	Output	Unfix	To LPF capacitor for detecting scratch.	
5	AIN	Input	Input	A signal input.	
6	CIN	Input	Input	C signal input.	
7	BIN	Input	Input	B signal input.	
8	DIN	Input	Input	D signal input.	
9	FEC	Output	Unfix	To LPF capacitor for FE signal.	
10*	RFMON	Output	Unfix	Monitoring for LSI internal analog signal.	
11	VREF	Output	AVDD/2	VREF voltage output.	
12	JITTC	Output	Unfix	For jitter detection capacitor.	
13	EIN	Input	Input	E signal input.	
14	FIN	Input	Input	F signal input.	
15	TEC	Output	Unfix	To LPF capacitor for TE signal.	
16	TE	Output	Unfix	TE signal output.	
17	TEIN	Input	Input	TE signal input for TES signal generation.	
18	LDD	Output	Unfix	Laser power control signal output.	
19	LDS	Input	Input	Laser power detection signal input.	
20	AVSS	-	-	Analog GND. Connected to 0V.	
21	AVDD	-	-	Analog power supply.	
22	FDO	Output	AVDD/2	Focus control signal output. D/A output.	
23	TDO	Output	AVDD/2	Tracking control signal output. D/A output.	
24	SLDO	Output	AVDD/2	Sled control signal output. D/A output.	
25	SPDO	Output	AVDD/2	Spindle control signal output. D/A output.	
26	VVSS1	-	-	For EFM PLL	GND for built-in VCO. Connected to 0V.
27	PDOUT1	Output	Unfix		Phase comparison output pin 1 for built-in VCO control.
28	PDOUT0	Output	Unfix		Phase comparison output pin 0 for built-in VCO control.
29	PCKIST	Input	Input		To resistance for current setting of PDOUT0, 1 output.
30	VVDD1	-	-		Power supply for built-in VCO
31*	DMUTEB	Output	L	DMUTEB (general-purpose) output	
32	PUIN	Input/Output	Input	PUIN (general-purpose) input/output (Built-in Pull-Up resistance)	
33*	DEFECT	Output	L	Scratch detection signal output	
34*	FSEQ	Output	L	Sync signal output. Switches to "H" when sync signal detected from EFM signal and sync signal generated internally are the same.	
35*	C2F	Output	L	C2 error signal output.	
36	DVDD	-	-	Digital power supply.	
37	DVSS	-	-	Digital GND. Connected to 0V.	
38	DVDD1.8	Output	H	To power supply capacitor for digital circuit.	
39	VVDD3	-	-	Power supply for built-in PLL.	
40	VVSS3	-	-	GND for built-in PLL. Connected to 0V.	
41	DVDD	-	-	Digital power supply.	
42	DVSS	-	-	Digital GND. Connected to 0V.	
43	CE	Input	Input	For micro-processor interface	Enable signal input.
44	CL	Input	Input		Data transfer clock input.
45	DI	Input	Input		Data input
46	DO	Output	(H)		Data output (Tri-state output: Built-in Pull-Up resistance)
47	RESB	Input	-	Reset input for this LSI. Set as "L" when turning power on.	
48*	INTB0	Output	H	Interrupt signal output pin 0 (Servo section)	
49*	INTB1	Output	H	Interrupt signal output pin 1 (Decoder section)	
50	CONT2	Input/Output	Input	General-purpose input/ output pin 2	Controlled by command from microprocessor. When not in use, set as input and connect to 0V, or set as output and leave open.
51*	CONT1	Input/Output	Input	General-purpose input/ output pin 1	
52*	CONT0	Input/Output	Input	General-purpose input/ output pin 0 (Built-in Pull-Up resistance)	
53	TEST0	Input	L	Input for testing. Connected to 0V.	
54	STREQ	Input/Output	Input	Stream data request signal output.	
55	STCK	Input/Output	Input	Bit clock input for stream data.	
56	STDATA	Input/Output	Input	Stream data input.	
57	TEST1	Input	L	Input for testing. Connected to 0V.	
58*	DATA	Output	L	L/R channel data output.	
59*	DATACK	Output	L	Bit clock output	

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
60*	LRSY	Output	L	L/R ch clock output	
61	VVDD2	-	-	For EFM PLL	Power supply for built-in VCO
62	VPREF2	Input	Input		Input for oscillation range setting of built-in VCO.
63	VCOC2	Input	Input		Input for control voltage setting of built-in VCO.
64	VPDOUT2	Output	Unfix		Output for controlling built-in VCO.
65	VVSS2	-	-		GND for built-in VCO. Connected to 0V.
66	DVDD1.8	Output	H	To power supply capacitor for digital circuit.	
67	DVSS	-	-	Digital GND. Connected to 0V.	
68	DVDD	-	-	Digital power supply.	
69*	DOUT	Output	L	Digital OUT output. EIAJ format.	
70*	AMUTEB	Output	L	AMUTEB (general-purpose) output.	
71	XVSS	-	-	Digital GND. Connected to 0V.	
72	XOUT	Output	Oscillator	For crystal oscillation	To 16.9344 MHz oscillator
73	XIN	Input	Oscillator		
74	XVDD	-	-	Digital power supply	
75	LCHO	Output	LRVDD/2	D/A converter	L channel output.
76	LRVDD	-	-		Power supply for LR channel.
77	LRVSS	-	-		GND for LR channel. Connected to 0V.
78	RCHO	Output	LRVDD/2		R channel output.
79	AVDD	-	-	Analog power supply.	
80	SLCO	Output	Unfix	Slice level control output.	

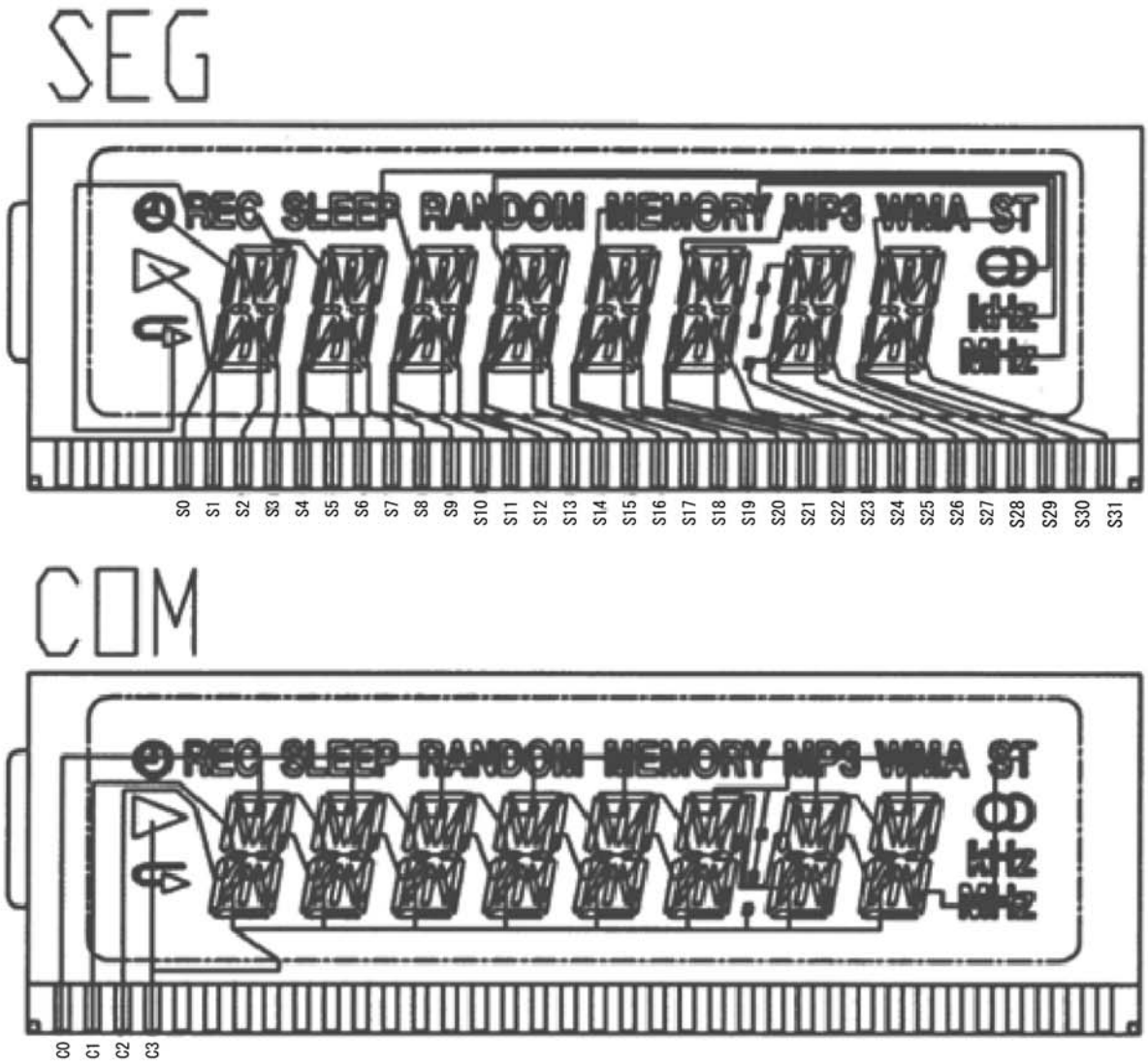
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC801 VHiLC78690/-1:MP3 Decoder Digital Signal Processor (LC78690)



[2] LCD DISPLAY

LCD701:RV-LXA007SJZZ



PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
COM0	COM0	/	/	/	◎	1H	1G	1A	REC	2H	2G	2A	SLEEP	3H	3G	3A	RANDOM	4H
COM1	/	COM1	/	/	1B	1J	1N	1P	2B	2J	2N	2P	3B	3J	3N	3P	4B	4J
COM2	/	/	COM2	/	1C	1I	1M	1E	2C	2I	2M	2F	3C	3I	3M	3F	4C	4I
COM3	/	/	/	COM3	▷	1K	1D	1E	⊂	2K	2D	2E	MHz	3K	3D	3E	kHz	4K
PIN	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
COM0	4G	4A	MEMORY	5H	5G	5A	MP3	6H	6G	6A	6R	7H	7G	7A	WMA	8H	8G	8A
COM1	4N	4P	5B	5J	5N	5P	6B	6J	6N	6P	7B	7J	7N	7P	8B	8J	8N	8P
COM2	4M	4F	5C	5I	5M	5F	6C	6I	6M	6F	7C	7I	7M	7F	8C	8I	8M	8F
COM3	4D	4E	○	5K	5D	5E	/	6K	6D	6E	6Q	7K	7D	7E	ST	8K	8D	8E

SHARP PARTS GUIDE

MICRO COMPONENT SYSTEM

MODEL XL-MP40H

XL-MP40H Micro Component System consisting of XL-MP40H (main unit) and CP-MP40H (speaker system).

CONTENTS

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.

SHARP CORPORATION

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
iC101	VHiLA4631++-1	AM			Power Amp.,LA4631++
iC301	VHiLV23002M-1	AS			FM FRONT END/PLL/FM IF Det./FM Mpx./AM IF,LV23002M
iC401	VHiBD3881FV-1	AP			Audio Processor/Record/Playback Amp.,BD3881FV
iC680	VHiAN78L05/-1	AE			Constant Voltage Regulator,AN78L05
iC681	VHiAN78L05/-1	AE			Constant Voltage Regulator,AN78L05
iC701	RH-iXA044SJZZ	AY			System Microcomputer,IXA044SJ
iC705	VHiAN78L05/-1	AE			Constant Voltage Regulator,AN78L05
iC801	VHiLC78690/-1	BE			MP3 Decoder Digital Signal Processor,LC78690
iC802	VHiLA6548ND-1	AL			Focus/Tracking/Spin/Sled Driver,LA6548ND
[2] TRANSISTORS					
Q104	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q206	VS2HA1015GR-1	AB			Silicon,PNP,2HA1015 GR
Q207	VS2SC1845F/-1	AC			Silicon,NPN,2SC1845 F
Q208	VS2SC1845F/-1	AC			Silicon,NPN,2SC1845 F
Q209	VS2SC1845F/-1	AC			Silicon,NPN,2SC1845 F
Q210	VS2SC1845F/-1	AC			Silicon,NPN,2SC1845 F
Q211	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q212	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q213	VSKRC101M//-1	AB			Digital,NPN,KRC101 M
Q214	VSKRC101M//-1	AB			Digital,NPN,KRC101 M
Q215	VS2SB561-C/-1	AC			Silicon,PNP,2SB561 C
Q216	VSKRC106M//-1	AB			Digital,NPN,KRC106 M
Q217	VS2SB561-C/-1	AC			Silicon,PNP,2SB561 C
Q218	VSKRC106M//-1	AB			Digital,NPN,KRC106 M
Q225	VSKRC101M//-1	AB			Digital,NPN,KRC101 M
Q226	VS2SC2001-K-1	AD			Silicon,NPN,2SC2001 K
Q227	VS2SB561-C/-1	AC			Silicon,PNP,2SB561 C
Q228	VSKRC101M//-1	AB			Digital,NPN,KRC101 M
Q230	VSKRC106M//-1	AB			Digital,NPN,KRC106 M
Q237	VSKRC107M//-1	AC			Digital,NPN,KRC107 M
Q238	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q301	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q302	VS2SC5477++-1	AD			Silicon,NPN,2SC5477++
Q303	VS2SC5477++-1	AD			Silicon,NPN,2SC5477++
Q410	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q411	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q611	VS2HA1015GR-1	AB			Silicon,PNP,2HA1015 GR
Q612	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q613	VS2SB562-C/-1	AD			Silicon,PNP,2SB562 C
Q655	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q657	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q658	VSKTC2026Y/-1	AE			Silicon,NPN,KTC2026 Y
Q659	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q660	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q661	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q662	VSKRC101M//-1	AB			Digital,NPN,KRC101 M
Q663	VSKRA107M//-1	AE			Digital,PNP,KRA107 M
Q664	VS2SA1235F+-1	AD			Silicon,PNP,2SA1235 F+
Q665	VS2SK2541//-1	AC			FET,2SK2541
Q701	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q703	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q704	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q705	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q801	VS2SA1235F+-1	AD			Silicon,PNP,2SA1235 F+
Q802	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q805	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q806	VSKTC2026Y/-1	AE			Silicon,NPN,KTC2026 Y
[3] DIODES					
D101	VHD1N5395//-1	AB			Silicon,1N5395
D102	VHD1N5395//-1	AB			Silicon,1N5395
D103	VHD1N5395//-1	AB			Silicon,1N5395
D104	VHD1N5395//-1	AB			Silicon,1N5395
D107	VHD1N4148//-1	AA			Silicon,1N4148
D110	VHD1N4148//-1	AA			Silicon,1N4148
D201	VHD1N4148//-1	AA			Silicon,1N4148
D202	VHD1N4004//-1	AB			Silicon,1N4004
D206	VHD1N4148//-1	AA			Silicon,1N4148
D207	VHD1N4148//-1	AA			Silicon,1N4148
D208	VHD1N4148//-1	AA			Silicon,1N4148
D209	VHD1N4148//-1	AA			Silicon,1N4148
D210	VHD1N4148//-1	AA			Silicon,1N4148
D302	VHD1SS133//-1	AA			Silicon,1SS133
D303	VHD1SS133//-1	AA			Silicon,1SS133
D305	VHCSVC347S/-1	AG			Variable Capacitance,SVC347S
D306	VHCSVC201//-1	AE			Variable Capacitance,SVC201
D307	VHCSVC201//-1	AE			Variable Capacitance,SVC201
D401	VHD1N4148//-1	AA			Silicon,1N4148
D402	VHD1N4148//-1	AA			Silicon,1N4148
D403	VHD1N4148//-1	AA			Silicon,1N4148
D601	VHD1N4148//-1	AA			Silicon,1N4148
D602	VHD1N4148//-1	AA			Silicon,1N4148
D610	VHD1N4148//-1	AA			Silicon,1N4148
D656	VHD1N4004//-1	AB			Silicon,1N4004

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[3] DIODES					
	D657	VHD1N4004//-1	AB			Silicon,1N4004
	D658	VHD1N4004//-1	AB			Silicon,1N4004
	D659	VHD1N4004//-1	AB			Silicon,1N4004
	D660	VHD1N4148//-1	AA			Silicon,1N4148
	D661	VHD1N4148//-1	AA			Silicon,1N4148
	D662	VHD1N4148//-1	AA			Silicon,1N4148
	D663	VHDSR2400//-1	AC			Silicon,SR2400
	D664	VHDSR2400//-1	AC			Silicon,SR2400
	D684	VHD1N4004//-1	AB			Silicon,1N4004
	D685	VHD1N4004//-1	AB			Silicon,1N4004
	D690	VHD1N4004//-1	AB			Silicon,1N4004
	D691	VHD1N4004//-1	AB			Silicon,1N4004
	D692	VHD1N4148//-1	AA			Silicon,1N4148
	D701	VHD1N4148//-1	AA			Silicon,1N4148
	D702	VHD1N4148//-1	AA			Silicon,1N4148
	D703	VHD1N4148//-1	AA			Silicon,1N4148
	D705	VHD1N4004//-1	AB			Silicon,1N4004
	D890	VHD1N4004//-1	AB			Silicon,1N4004
	D891	VHD1N4004//-1	AB			Silicon,1N4004
	LED701	VHPMPG3372X-V	AD			LED,Green,MPG3372X
	LED702	VHPMPG3372X-V	AD			LED,Green,MPG3372X
	LED703	VHPMPG3372X-V	AD			LED,Green,MPG3372X
	LED704	VHPMPG3372X-V	AD			LED,Green,MPG3372X
	ZD308	VHEMTZJ3R6B-1	AC			Zener,3.6V,MTZJ3.6B
	ZD309	VHEMTZJ120B-1	AC			Zener,12V,MTZJ12B
	ZD613	VHEDZ5R6BSB-1	AC			Zener,5.6V,DZ5.6B
	ZD670	VHEDZH09C1+-1	AB			Zener,9.1V,DZH09C1+
	ZD671	VHEDZ100BSB-1	AB			Zener,10V,DZ10BSB
	ZD704	VHEDZ3R3BSB-1	AB			Zener,3.3V,DZ3.3BSB
	ZD801	VHEDZH05C2+-1	AB			Zener,5.1V,DZH05C2+
	ZD802	VHEDZH04B2+-1	AB			Zener,3.9V,DZH04B2+
	[4] FILTERS					
	BF301	RFiLRA001SJZZ	AD			Band Pass Filter
	CF301	RFiLFA001SJZZ	AE			FM IF
	CF302	RFiLF0003AWZZ	AK			FM IF
	CF303	RFiLFA001SJZZ	AE			FM IF
	CF304	RFiLA0003SJZZ	AF			AM IF
	[5] TRANSFORMERS					
⚠	T601	RTRNPA035SJZZ				Power
	[6] COILS					
	L101	VP-DH1R0K0000	AC			1 μH
	L102	RCiLZA001SJZZ	AC			Line Filter
	L103	RCiLZA001SJZZ	AC			Line Filter
	L203	VP-MK331K0000	AB			330 μH,Choke
	L204	VP-MK102K0000	AB			1 mH,Choke
	L301	VP-DH1R0K0000	AC			1 μH
	L302	RCiLAA002SJZZ	AC			AM Antenna
	L303	VP-DH100K0000	AB			10 μH,Choke
	L304	RCiLRA001SJZZ	AA			FM RF
	L305	RCiLiA001SJZZ	AC			AM IF
	L306	RCiLBA006SJZZ	AC			AM OSC.
	L307	RCiLBA004SJZZ	AD			FM OSC.
	L308	VP-DH470K0000	AB			47 μH,Choke
	L502	VP-DHR82K0000	AE			0.82 μH,Choke
	L701	VP-DH101K0000	AB			100 μH,Choke
	L802	VP-DHR82K0000	AE			0.82 μH,Choke
	L803	VP-DHR82K0000	AE			0.82 μH,Choke
	L804	VP-DHR82K0000	AE			0.82 μH,Choke
	L805	RBLN-A003SJZZ	AB			Ferrite Bead,1 kohms
	L806	RBLN-A003SJZZ	AB			Ferrite Bead,1 kohms
⚠	LF651	RCiLZA004SJZZ	AD			Line Filter
	[7] VIBRATORS					
	X301	RCRSPA006SJZZ	AF			Crystal,75 kHz
	X701	RCRM-0008SJZZ	AG			Ceramic,8 MHz
	X702	RCRSP0007SJZZ	AE			Crystal,32.768 kHz
	X801	RCRSP0002SJZZ	AL			Crystal,16.93 MHz
	[8] THERMISTOR					
⚠	RP601	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
⚠	RP602	RH-QX1067AFZZ	AE			Posistor,8.2 ohms

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] CAPACITORS					
C101	VCKYCY1HB102K	AA			0.001 μ F,50V
C102	VCKYCY1HB472K	AA			0.0047 μ F,50V
C103	VCKYCY1HB472K	AA			0.0047 μ F,50V
C104	VCKYCY1HB104K	AD			0.1 μ F,50V
C105	VCKYCY1HB104K	AD			0.1 μ F,50V
C106	VCKYCY1HB472K	AA			0.0047 μ F,50V
C107	VCKYCY1HB472K	AA			0.0047 μ F,50V
C108	VCKYCY1HB104K	AD			0.1 μ F,50V
C109	VCKYCY1HB104K	AD			0.1 μ F,50V
C110	RC-GZV477AF1E	AC			470 μ F,25V,Electrolytic
C111	VCKYCY1HB102K	AA			0.001 μ F,50V
C112	VCKYCY1HB102K	AA			0.001 μ F,50V
C113	VCKYCY1HB104K	AD			0.1 μ F,50V
C114	VCKYCY1HB104K	AD			0.1 μ F,50V
C115	RC-GZV108AF1E	AD			1000 μ F,25V,Electrolytic
C116	RC-GZV108AF1C	AD			1000 μ F,16V,Electrolytic
C117	RC-GZA226AF1H	AB			22 μ F,50V,Electrolytic
C118	RC-GZW478AF1E	AG			4700 μ F,25V,Electrolytic
C119	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C120	VCKYCY1HB104K	AD			0.1 μ F,50V
C121	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C123	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C125	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C126	VCKYCY1HB222K	AA			0.0022 μ F,50V
C127	VCKYCY1HB222K	AA			0.0022 μ F,50V
C130	VCKYCY1HB472K	AA			0.0047 μ F,50V
C131	VCKYCY1HB472K	AA			0.0047 μ F,50V
C132	VCKYCY1HB472K	AA			0.0047 μ F,50V
C133	VCKYCY1HB222K	AA			0.0022 μ F,50V
C134	VCKYCY1HB222K	AA			0.0022 μ F,50V
C135	RC-GZA475AF1E	AB			4.7 μ F,25V,Electrolytic
C202	VCTYPA1CX473K	AA			0.047 μ F,16V
C245	VCCSPA1HL681J	AA			680 pF,50V
C246	VCQPKA2AA222J	AA			0.0022 μ F,100V,Polypropylene
C247	VCQYKA1HM273J	AB			0.027 μ F,50V,Mylar
C248	RC-GZA476AF1H	AB			47 μ F,50V,Electrolytic
C249	VCKYCY1HB223K	AA			0.022 μ F,50V
C252	RC-GZA335AF1H	AB			3.3 μ F,50V,Electrolytic
C301	VCKYCY1HB102K	AA			0.001 μ F,50V
C302	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C303	VCKYCY1HB104K	AD			0.1 μ F,50V
C305	VCCCPA1HH120J	AA			12 pF (CH),50V
C306	VCKYCY1HB103K	AA			0.01 μ F,50V
C307	VCCUPA1HJ100D	AA			10 pF (UJ),50V
C308	VCKYCY1EB183K	AB			0.018 μ F,25V
C309	VCKYPA1HB102J	AA			0.001 μ F,50V
C310	VCCUPA1HJ270J	AA			27 pF (UJ),50V
C311	VCKYPA1HB561K	AA			560 pF,50V
C312	VCKYCY1HB153K	AA			0.015 μ F,50V
C313	VCKYCY1HB104K	AD			0.1 μ F,50V
C314	VCKYCY1EB103K	AA			0.01 μ F,25V
C315	RC-GZA226AF1H	AB			22 μ F,50V,Electrolytic
C316	VCCCPA1HH330J	AA			33 pF (CH),50V
C317	VCKYPA1HB102J	AA			0.001 μ F,50V
C318	VCKYCY1HB103K	AA			0.01 μ F,50V
C319	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C320	VCCCCY1HH101J	AA			100 pF (CH),50V
C321	RC-GZA334AF1H	AA			0.33 μ F,50V,Electrolytic
C322	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C323	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C324	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C325	RC-GZA226AF1H	AB			22 μ F,50V,Electrolytic
C326	VCKYCY1HB104K	AD			0.1 μ F,50V
C327	VCKYCY1HB103K	AA			0.01 μ F,50V
C328	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C329	VCKYCY1EB333K	AC			0.033 μ F,25V
C330	RC-GZA226AF1H	AB			22 μ F,50V,Electrolytic
C331	VCKYCY1HB103K	AA			0.01 μ F,50V
C332	VCKYCY1HB102K	AA			0.001 μ F,50V
C333	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C334	VCCCCY1HH101J	AA			100 pF (CH),50V
C335	RC-GZA226AF1H	AB			22 μ F,50V,Electrolytic
C336	VCCCCY1HH101J	AA			100 pF (CH),50V
C337	VCCCCY1HH101J	AA			100 pF (CH),50V
C338	VCKYCY1HB104K	AD			0.1 μ F,50V
C339	VCKYCY1HB103K	AA			0.01 μ F,50V
C340	VCKYCY1HB104K	AD			0.1 μ F,50V
C341	VCCCCY1HH100J	AA			10 pF (CH),50V
C342	VCCCCY1HH100J	AA			10 pF (CH),50V
C343	VCCSCY1HL5R0C	AD			5 pF,50V
C344	VCCCPA1HH330J	AA			33 pF (CH),50V
C345	VCCUPA1HJ5R0C	AA			5 pF (UJ),50V
C346	RC-GZA476AF1H	AB			47 μ F,50V,Electrolytic
C347	VCKYCY1HB473K	AB			0.047 μ F,50V
C348	VCKYCY1HB223K	AA			0.022 μ F,50V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] CAPACITORS					
C349	VCKYCY1HB472K	AA			0.0047 μ F,50V
C370	RC-GZA476AF1H	AB			47 μ F,50V,Electrolytic
C371	VCKYCY1HB103K	AA			0.01 μ F,50V
C401	VCCCCY1HH470J	AA			47 pF (CH),50V
C402	VCCCCY1HH470J	AA			47 pF (CH),50V
C403	VCKYCY1HB561K	AA			560 pF,50V
C404	VCKYCY1HB561K	AA			560 pF,50V
C405	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C406	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C407	VCKYCY1HB153K	AA			0.015 μ F,50V
C408	VCKYCY1HB153K	AA			0.015 μ F,50V
C409	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C410	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C411	VCKYCY1HB331K	AA			330 pF,50V
C412	VCKYCY1HB331K	AA			330 pF,50V
C413	VCKYCY1HB103K	AA			0.01 μ F,50V
C414	VCKYCY1HB103K	AA			0.01 μ F,50V
C415	RC-GZA224AF1H	AA			0.22 μ F,50V,Electrolytic
C416	RC-GZA224AF1H	AA			0.22 μ F,50V,Electrolytic
C417	RC-GZA224AF1H	AA			0.22 μ F,50V,Electrolytic
C418	RC-GZA224AF1H	AA			0.22 μ F,50V,Electrolytic
C427	VCKYCY1HB101K	AB			100 pF,50V
C428	VCKYCY1HB101K	AB			100 pF,50V
C429	VCKYCY1HB682K	AA			0.0068 μ F,50V
C430	VCKYCY1HB682K	AA			0.0068 μ F,50V
C431	VCKYCY1HB332K	AA			0.0033 μ F,50V
C432	VCKYCY1HB332K	AA			0.0033 μ F,50V
C435	VCCSCY1HL820J	AA			82 pF,50V
C436	VCCSCY1HL820J	AA			82 pF,50V
C437	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C438	VCCCCY1HH100J	AA			10 pF (CH),50V
C440	VCKYCY1HB102K	AA			0.001 μ F,50V
C441	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C443	VCKYCY1HB104K	AD			0.1 μ F,50V
C444	VCKYCY1HB104K	AD			0.1 μ F,50V
C460	VCKYCY1HB104K	AD			0.1 μ F,50V
C461	VCKYCY1HB104K	AD			0.1 μ F,50V
C462	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C463	VCKYCY1HB104K	AD			0.1 μ F,50V
C464	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C465	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C470	RC-GZA224AF1C	AB			0.22 μ F,16V,Electrolytic
C471	RC-GZA224AF1C	AB			0.22 μ F,16V,Electrolytic
C472	VCKYCY1HB471K	AA			470 pF,50V
C473	VCKYCY1HB471K	AA			470 pF,50V
C613	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C614	VCKYCY1HB103K	AA			0.01 μ F,50V
C615	VCKYCY1HB104K	AD			0.1 μ F,50V
C616	VCKYCY1HB103K	AA			0.01 μ F,50V
C617	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C652	VCKYCY1HB104K	AD			0.1 μ F,50V
C653	VCKYCY1HB104K	AD			0.1 μ F,50V
C656	RC-GZV108AF1C	AD			1000 μ F,16V,Electrolytic
C657	RC-GZV108AF1C	AD			1000 μ F,16V,Electrolytic
C660	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C671	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C672	VCKYCY1HB223K	AA			0.022 μ F,50V
C673	VCKYCY1HB223K	AA			0.022 μ F,50V
C674	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C677	VCKYCY1HB223K	AA			0.022 μ F,50V
C678	VCKYCY1HB223K	AA			0.022 μ F,50V
C679	RC-GZA107AF1E	AB			100 μ F,25V,Electrolytic
C682	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C683	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C704	VCCCCY1HH101J	AA			100 pF (CH),50V
C706	VCCCCY1HH101J	AA			100 pF (CH),50V
C707	VCCCCY1HH200J	AA			20 pF (CH),50V
C708	VCCCCY1HH200J	AA			20 pF (CH),50V
C709	VCKYCY1HB103K	AA			0.01 μ F,50V
C710	RC-EZD107AF1C	AC			100 μ F,16V,Electrolytic
C711	VCKYCY1HB104K	AD			0.1 μ F,50V
C712	RC-EZD335AF1H	AB			3.3 μ F,50V,Electrolytic
C713	VCCCCY1HH101J	AA			100 pF (CH),50V
C717	VCKYCY1HB102K	AA			0.001 μ F,50V
C718	VCKYCY1HB222K	AA			0.0022 μ F,50V
C719	VCKYCY1HB102K	AA			0.001 μ F,50V
C721	VCKYCY1HB103K	AA			0.01 μ F,50V
C722	VCKYCY1HB104K	AD			0.1 μ F,50V
C723	VCKYCY1HB104K	AD			0.1 μ F,50V
C726	RC-EZD336AF1C	AB			33 μ F,16V,Electrolytic
C727	RC-EZD107AF1C	AC			100 μ F,16V,Electrolytic
C750	RC-EZD107AF1C	AC			100 μ F,16V,Electrolytic
C751	VCKYCY1HB104K	AD			0.1 μ F,50V
C801	VCKYCY1HB104K	AD			0.1 μ F,50V
C802	RC-GZA336AF1C	AB			33 μ F,16V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] CAPACITORS					
C803	VCKYCY1HB104K	AD			0.1 μ F,50V
C804	VCKYCY1HB104K	AD			0.1 μ F,50V
C805	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C806	VCKYCY1HB104K	AD			0.1 μ F,50V
C807	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C808	VCKYCY1HB104K	AD			0.1 μ F,50V
C809	VCKYCY1HB102K	AA			0.001 μ F,50V
C810	RC-GZA474AF1C	AB			0.47 μ F,16V,Electrolytic
C811	VCKYCY1HB104K	AD			0.1 μ F,50V
C812	VCKYCY1HB473K	AB			0.047 μ F,50V
C813	VCKYCY1HB103K	AA			0.01 μ F,50V
C814	VCKYCY1HB473K	AB			0.047 μ F,50V
C815	VCKYPA1HB563K	AC			0.056 μ F,50V
C816	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C817	VCKYCY1HB103K	AA			0.01 μ F,50V
C818	VCKYCY1EB563K	AD			0.056 μ F,25V
C819	VCKYCY1HB104K	AD			0.1 μ F,50V
C820	VCKYCY1HB103K	AA			0.01 μ F,50V
C821	VCKYCY1HB472K	AA			0.0047 μ F,50V
C822	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C823	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C824	RC-GZA106AF1H	AB			10 μ F,50V,Electrolytic
C825	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C826	VCKYCY1HB473K	AB			0.047 μ F,50V
C827	VCKYCY1HB104K	AD			0.1 μ F,50V
C828	VCKYCY1HB104K	AD			0.1 μ F,50V
C829	VCCCCY1HH100J	AA			10 pF (CH),50V
C830	VCKYCY1HB104K	AD			0.1 μ F,50V
C831	VCCCCY1HH100J	AA			10 pF (CH),50V
C832	VCKYCY1HB104K	AD			0.1 μ F,50V
C833	VCKYCY1HB104K	AD			0.1 μ F,50V
C834	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C835	VCKYCY1HB104K	AD			0.1 μ F,50V
C836	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C837	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C838	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C839	VCKYCY1HB104K	AD			0.1 μ F,50V
C840	VCKYCY1HB104K	AD			0.1 μ F,50V
C841	VCKYCY1HB104K	AD			0.1 μ F,50V
C842	VCKYPA1HB101K	AA			100 pF,50V
C843	VCKYPA1HB101K	AA			100 pF,50V
C845	VCCCCY1HH101J	AA			100 pF (CH),50V
C846	VCCCCY1HH101J	AA			100 pF (CH),50V
C847	VCKYPA1HB101K	AA			100 pF,50V
C848	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C849	VCKYCY1HB104K	AD			0.1 μ F,50V
C850	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C851	VCKYCY1HB104K	AD			0.1 μ F,50V
C854	VCKYCY1HB562K	AA			0.0056 μ F,50V
[10] RESISTORS					
JP302	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JP401	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JP503	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JP801	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JP802	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JR303	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JR304	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R101	VRD-ST2EE221J	AA			220 ohms,1/4W
R102	VRD-ST2EE221J	AA			220 ohms,1/4W
R103	VRD-ST2CD100J	AA			10 ohm,1/6W
R104	VRD-ST2CD100J	AA			10 ohm,1/6W
R106	VRD-ST2CD100J	AA			10 ohm,1/6W
R107	VRD-ST2CD100J	AA			10 ohm,1/6W
R112	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R113	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R115	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R116	VRS-CY1JB333J	AA			33 kohms,1/16W
R117	VRS-CY1JB333J	AA			33 kohms,1/16W
R119	VRS-CY1JB563J	AA			56 kohms,1/16W
R120	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R131	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R132	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R212	VRS-CY1JB103J	AA			10 kohm,1/16W
R213	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R214	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R215	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R216	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R217	VRS-CY1JB103J	AA			10 kohm,1/16W
R218	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R219	VRS-CY1JB183J	AA			18 kohms,1/16W
R220	VRS-CY1JB183J	AA			18 kohms,1/16W
R221	VRS-CY1JB102J	AA			1 kohm,1/16W
R222	VRS-CY1JB102J	AA			1 kohm,1/16W
R223	VRS-CY1JB333J	AA			33 kohms,1/16W

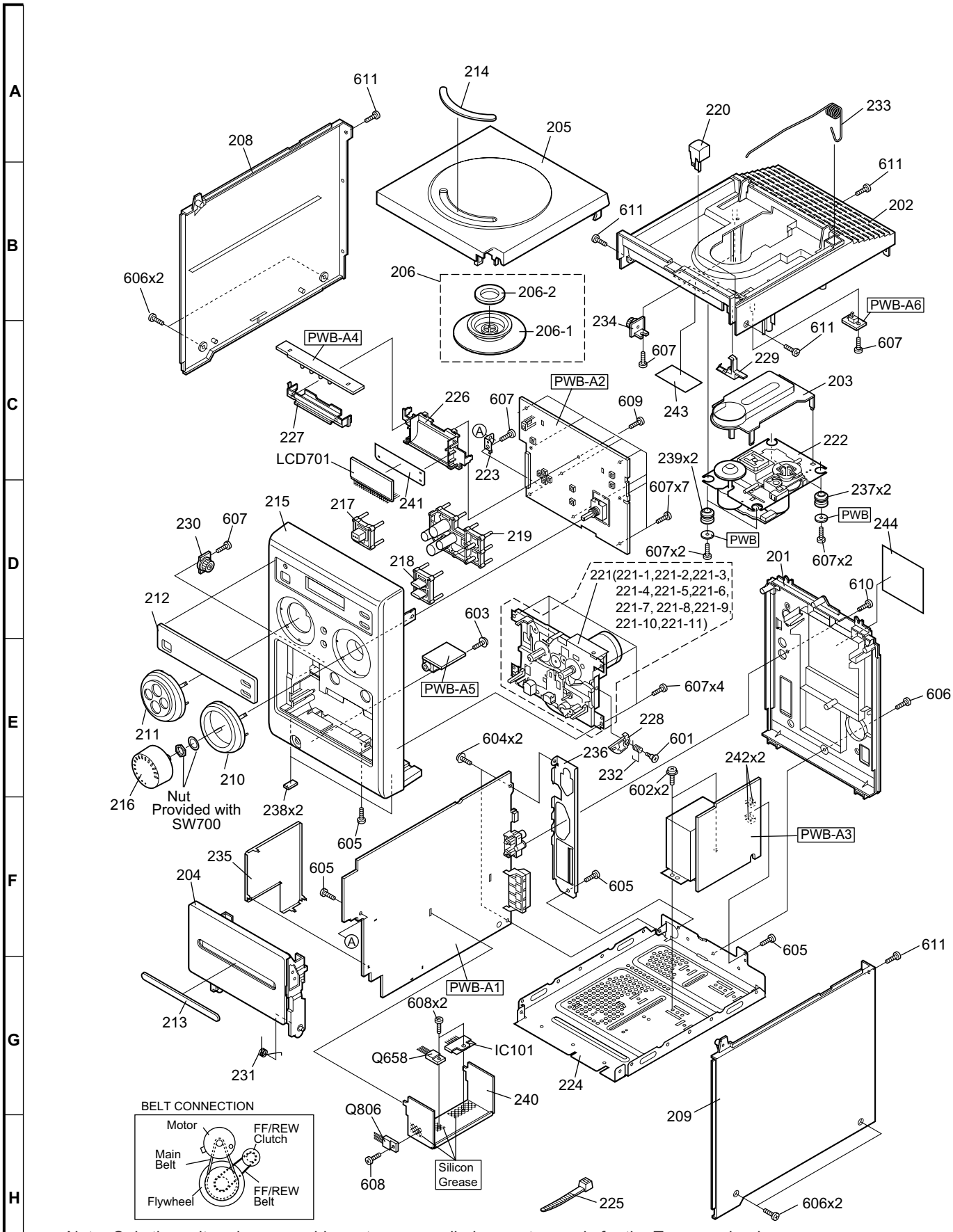
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] RESISTORS					
R224	VRS-CY1JB183J	AA			18 kohms,1/16W
R225	VRS-CY1JB103J	AA			10 kohm,1/16W
R226	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R227	VRS-CY1JB103J	AA			10 kohm,1/16W
R228	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R262	VRS-CY1JB473J	AA			47 kohms,1/16W
R265	VRS-CY1JB104J	AA			100 kohm,1/16W
R266	VRD-ST2EE390J	AA			39 ohms,1/4W
R267	VRD-ST2EE4R7J	AA			4.7 ohms,1/4W
R271	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R272	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R293	VRS-CY1JB103J	AA			10 kohm,1/16W
R294	VRS-CY1JB473J	AA			47 kohms,1/16W
R295	VRS-CY1JB271J	AA			270 ohms,1/16W
R296	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R302	VRD-ST2CD100J	AA			10 ohm,1/6W
R303	VRD-ST2CD104J	AA			100 kohm,1/6W
R304	VRS-CY1JB104J	AA			100 kohm,1/16W
R305	VRS-CY1JB104J	AA			100 kohm,1/16W
R306	VRS-CY1JB100J	AA			10 ohm,1/16W
R307	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R308	VRS-CY1JB102J	AA			1 kohm,1/16W
R309	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R310	VRD-ST2CD104J	AA			100 kohm,1/6W
R311	VRD-ST2CD102J	AA			1 kohm,1/6W
R312	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R313	VRS-CY1JB103J	AA			10 kohm,1/16W
R314	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R315	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R316	VRS-CY1JB103J	AA			10 kohm,1/16W
R317	VRS-CY1JB473J	AA			47 kohms,1/16W
R318	VRS-CY1JB473J	AA			47 kohms,1/16W
R319	VRS-CY1JB104J	AA			100 kohm,1/16W
R320	VRS-CY1JB473J	AA			47 kohms,1/16W
R321	VRS-CY1JB102J	AA			1 kohm,1/16W
R322	VRS-CY1JB104J	AA			100 kohm,1/16W
R323	VRD-ST2CD391J	AA			390 ohms,1/6W
R324	VRS-CY1JB102J	AA			1 kohm,1/16W
R326	VRS-CY1JB473J	AA			47 kohms,1/16W
R327	VRS-CY1JB221J	AA			220 ohms,1/16W
R328	VRS-CY1JB104J	AA			100 kohm,1/16W
R329	VRS-CY1JB331J	AA			330 ohms,1/16W
R331	VRS-CY1JB330J	AA			33 ohms,1/16W
R332	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R333	VRS-CY1JB681J	AA			680 ohms,1/16W
R334	VRS-CY1JB331J	AA			330 ohms,1/16W
R336	VRS-CY1JB101J	AA			100 ohm,1/16W
R401	VRS-CY1JB101J	AA			100 ohm,1/16W
R402	VRS-CY1JB101J	AA			100 ohm,1/16W
R403	VRS-CY1JB473J	AA			47 kohms,1/16W
R404	VRS-CY1JB473J	AA			47 kohms,1/16W
R405	VRS-CY1JB121J	AA			120 ohms,1/16W
R406	VRS-CY1JB121J	AA			120 ohms,1/16W
R407	VRS-CY1JB103J	AA			10 kohm,1/16W
R408	VRS-CY1JB103J	AA			10 kohm,1/16W
R411	VRS-CY1JB394J	AA			390 kohms,1/16W
R412	VRS-CY1JB394J	AA			390 kohms,1/16W
R415	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R416	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R417	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R418	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R427	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R428	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R429	VRS-CY1JB103J	AA			10 kohm,1/16W
R430	VRS-CY1JB103J	AA			10 kohm,1/16W
R433	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R434	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R439	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R440	VRS-CY1JB153J	AA			15 kohms,1/16W
R441	VRS-CY1JB153J	AA			15 kohms,1/16W
R442	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R443	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R444	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R445	VRS-CY1JB102J	AA			1 kohm,1/16W
R446	VRD-ST2CD102J	AA			1 kohm,1/6W
R447	VRS-CY1JB103J	AA			10 kohm,1/16W
R448	VRS-CY1JB103J	AA			10 kohm,1/16W
R455	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R456	VRS-CY1JB103J	AA			10 kohm,1/16W
R457	VRS-CY1JB334J	AA			330 kohms,1/16W
R458	VRS-CY1JB334J	AA			330 kohms,1/16W
R459	VRS-CY1JB223J	AA			22 kohms,1/16W
R460	VRS-CY1JB223J	AA			22 kohms,1/16W
R465	VRS-CY1JB473J	AA			47 kohms,1/16W
R466	VRS-CY1JB473J	AA			47 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] RESISTORS					
R467	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R468	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R469	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R470	VRS-CY1JB333J	AA			33 kohms,1/16W
R471	VRS-CY1JB303J	AA			30 kohms,1/16W
R472	VRS-CY1JB303J	AA			30 kohms,1/16W
R473	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R474	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R546	VRD-ST2EE121J	AA			120 ohms,1/4W
R551	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R552	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R553	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R558	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R559	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R603	VRS-CY1JB333J	AA			33 kohms,1/16W
R606	VRS-CY1JB561J	AA			560 ohms,1/16W
R656	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R657	VRD-ST2EE102J	AA			1 kohm,1/4W
R658	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R663	VRS-CY1JB123J	AA			12 kohms,1/16W
R664	VRS-CY1JB123J	AA			12 kohms,1/16W
R665	VRD-ST2CD273J	AA			27 kohms,1/6W
R666	VRS-CY1JB123J	AA			12 kohms,1/16W
R667	VRD-ST2CD272J	AA			2.7 kohms,1/6W
R671	VRS-CY1JB103J	AA			10 kohm,1/16W
R672	VRD-ST2CD821J	AA			820 ohms,1/6W
R702	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R704	VRS-CY1JB104J	AA			100 kohm,1/16W
R705	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R706	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R707	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R709	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R710	VRD-ST2CD101J	AA			100 ohm,1/6W
R712	VRD-ST2CD333J	AA			33 kohms,1/6W
R713	VRD-ST2CD473J	AA			47 kohms,1/6W
R714	VRS-CY1JB473J	AA			47 kohms,1/16W
R715	VRS-CY1JB473J	AA			47 kohms,1/16W
R721	VRS-CY1JB394J	AA			390 kohms,1/16W
R722	VRD-ST2CD101J	AA			100 ohm,1/6W
R723	VRS-CY1JB102J	AA			1 kohm,1/16W
R724	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R725	VRS-CY1JB103J	AA			10 kohm,1/16W
R726	VRS-CY1JB104J	AA			100 kohm,1/16W
R727	VRS-CY1JB102J	AA			1 kohm,1/16W
R728	VRD-ST2CD102J	AA			1 kohm,1/6W
R729	VRS-CY1JB103J	AA			10 kohm,1/16W
R730	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R731	VRS-CY1JB333J	AA			33 kohms,1/16W
R732	VRS-CY1JB103J	AA			10 kohm,1/16W
R733	VRD-ST2CD102J	AA			1 kohm,1/6W
R734	VRD-ST2CD223J	AA			22 kohms,1/6W
R735	VRS-CY1JB154J	AA			150 kohms,1/16W
R736	VRS-CY1JB334J	AA			330 kohms,1/16W
R741	VRS-CY1JB102J	AA			1 kohm,1/16W
R742	VRS-CY1JB102J	AA			1 kohm,1/16W
R743	VRS-CY1JB102J	AA			1 kohm,1/16W
R744	VRS-CY1JB102J	AA			1 kohm,1/16W
R745	VRD-ST2CD102J	AA			1 kohm,1/6W
R746	VRD-ST2CD102J	AA			1 kohm,1/6W
R747	VRS-CY1JB102J	AA			1 kohm,1/16W
R748	VRS-CY1JB101J	AA			100 ohm,1/16W
R749	VRS-CY1JB102J	AA			1 kohm,1/16W
R750	VRS-CY1JB102J	AA			1 kohm,1/16W
R751	VRD-ST2CD102J	AA			1 kohm,1/6W
R752	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R753	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R754	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R755	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R756	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R757	VRS-CY1JB470J	AA			47 ohms,1/16W
R758	VRS-CY1JB470J	AA			47 ohms,1/16W
R761	VRD-ST2CD101J	AA			100 ohm,1/6W
R762	VRS-CY1JB223J	AA			22 kohms,1/16W
R763	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R764	VRD-ST2CD223J	AA			22 kohms,1/6W
R765	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R766	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R767	VRD-ST2CD123J	AA			12 kohms,1/6W
R768	VRD-ST2CD223J	AA			22 kohms,1/6W
R769	VRD-ST2CD823J	AA			82 kohms,1/6W
R770	VRD-ST2CD103J	AA			10 kohm,1/6W
R771	VRD-ST2CD103J	AA			10 kohm,1/6W
R772	VRS-CY1JB102J	AA			1 kohm,1/16W
R773	VRS-CY1JB102J	AA			1 kohm,1/16W
R774	VRS-CY1JB103J	AA			10 kohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] RESISTORS					
R775	VRS-CY1JB471J	AA			470 ohms,1/16W
R776	VRS-CY1JB470J	AA			47 ohms,1/16W
R783	VRS-CY1JB471J	AA			470 ohms,1/16W
R791	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R799	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R801	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R802	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R803	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R804	VRS-CY1JB331J	AA			330 ohms,1/16W
R805	VRS-CY1JB3R3J	AA			3.3 ohms,1/16W
R806	VRD-ST2CD471J	AA			470 ohms,1/6W
R807	VRS-CY1JB101J	AA			100 ohm,1/16W
R810	VRS-CY1JB104J	AA			100 kohm,1/16W
R811	VRS-CY1JB104J	AA			100 kohm,1/16W
R812	VRS-CY1JB393J	AA			39 kohms,1/16W
R813	VRS-CY1JB103J	AA			10 kohm,1/16W
R814	VRD-ST2CD391J	AA			390 ohms,1/6W
R815	VRD-ST2CD123J	AA			12 kohms,1/6W
R816	VRS-CY1JB103J	AA			10 kohm,1/16W
R817	VRS-CY1JB225J	AA			2.2 Mohms,1/16W
R819	VRS-CY1JB331J	AA			330 ohms,1/16W
R820	VRD-ST2CD1R0J	AA			1 ohm,1/6W
R823	VRD-ST2CD243J	AA			24 kohms,1/6W
R824	VRS-CY1JB243J	AA			24 kohms,1/16W
R825	VRS-CY1JB681J	AA			680 ohms,1/16W
R826	VRS-CY1JB681J	AA			680 ohms,1/16W
R827	VRS-CY1JB683J	AA			68 kohms,1/16W
R828	VRS-CY1JB153J	AA			15 kohms,1/16W
R829	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R830	VRS-CY1JB820J	AA			82 ohms,1/16W
R831	VRS-CY1JB104J	AA			100 kohm,1/16W
R832	VRS-CY1JB820J	AA			82 ohms,1/16W
R833	VRD-ST2CD1R0J	AA			1 ohm,1/6W
R834	VRS-CY1JB203J	AA			20 kohms,1/16W
R835	VRS-CY1JB151J	AA			150 ohms,1/16W
R837	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R840	VRD-ST2CD820J	AA			82 ohms,1/6W
R841	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R842	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R844	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R845	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R851	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R853	VRS-CY1JB103J	AA			10 kohm,1/16W
[11] OTHER CIRCUITRY PARTS					
CFW106	QCNWNA306SJZZ				Lead Wire
CFW701	QCNWNA277SJZZ				Flat Wire,2Pin (A-B)
CNP105	QCNCM999EAFZZ	AG			Plug,5Pin
CNP202	QCNCM999GAFZZ	AD			Plug,7Pin
CNP301	QCNCM052CSJZZ	AB			Plug,3Pin
CNP602	QCNCM062ESJZZ				Plug,5Pin
CNP701	QCNCW010VAWZZ	AE			Plug,20Pin
CNP703	QCNCM932BAFZZ	AA			Plug,2Pin
CNP704	QCNCMA042SJ06				Plug,6Pin
CNP801	QCNCWA031SJ16	AD			Socket,16Pin
CNS701	QCNCM010VAWZZ	AD			Plug,20Pin
CNW105	QCNWNA281SJZZ				Connector Ass'y,5-5Pin with CNS105
CNW201	QCNWNA282SJZZ				Connector Ass'y,7-7Pin with CNS201
CNW202	QCNWNA283SJZZ				Connector Ass'y,7Pin
CNW602	QCNWNA279SJZZ				Connector Ass'y,6-5Pin with CNS602
CNW703	QCNWNA278SJZZ				Connector Ass'y,2-2Pin with CNS703
CNW704	QCNWNA276SJZZ				Connector Ass'y,6-6Pin with CNS704
CNW802	QCNWNA280SJZZ				Connector Ass'y,7-6Pin with CNS802
⚠ F101	QFS-D201CAWNi	AD			Fuse,T200mA L 250V
FC801	QCNWNA312SJZZ				Flat Cable,16Pin
JK101	QJAKM0001SJZZ	AG			Jack,Headphone
LCD701	RV-LXA007SJZZ				FL Display
M901	9GD192112347	AX			Motor with Pulley [Tape] (221-9)
RX701	VHLGP1U281X-1	AH			Remote Sensor,GP1U281X
SO401	QSOCJ0003SJZZ	AG			Socket,Video/AUX Input
SO601	QTANA0008SJZZ	AE			Terminal,Speakers
⚠ SO651	QSOCA0212AWZZ	AD			Socket AC Input
SOL901	9GD19212118	AP			Solenoid Ass'y (221-4)
SW700	QSW-Z0003SJZZ	AG			Switch,Rotary Type [VOLUME]
SW701	QSW-K0002SJZZ	AC			Switch,Key Type [ON/STAND-BY]
SW702	QSW-K0002SJZZ	AC			Switch,Key Type [STOP/TUNNG DOWN]
SW703	QSW-K0002SJZZ	AC			Switch,Key Type [REW/PRESET DOWN]
SW704	QSW-K0002SJZZ	AC			Switch,Key Type [PLAY/CD PAUSE/TUNING UP]
SW705	QSW-K0002SJZZ	AC			Switch,Key Type [MEMORY SET]
SW706	QSW-K0002SJZZ	AC			Switch,Key Type [FUNCTION]
SW707	QSW-K0002SJZZ	AC			Switch,Key Type [REC/PAUSE]
SW708	QSW-K0002SJZZ	AC			Switch,Key Type [BASS/TREBLE]
SW709	QSW-K0002SJZZ	AC			Switch,Key Type [FF/PRESET UP]
SW710	QSW-P0004AWZZ	AE			Switch,Push Type [DISC EJECT]
SW901	9GD640101210	AE			Switch,Leaf Type [Fool Proof] (221-7)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] OTHER CIRCUITRY PARTS					
SW902	9GD640101210	AE			Switch,Leaf Type [Play] (221-8)

[12] CABINET PARTS



Note: Only the unit and consumable parts are supplied as parts supply for the Tape mechanism.

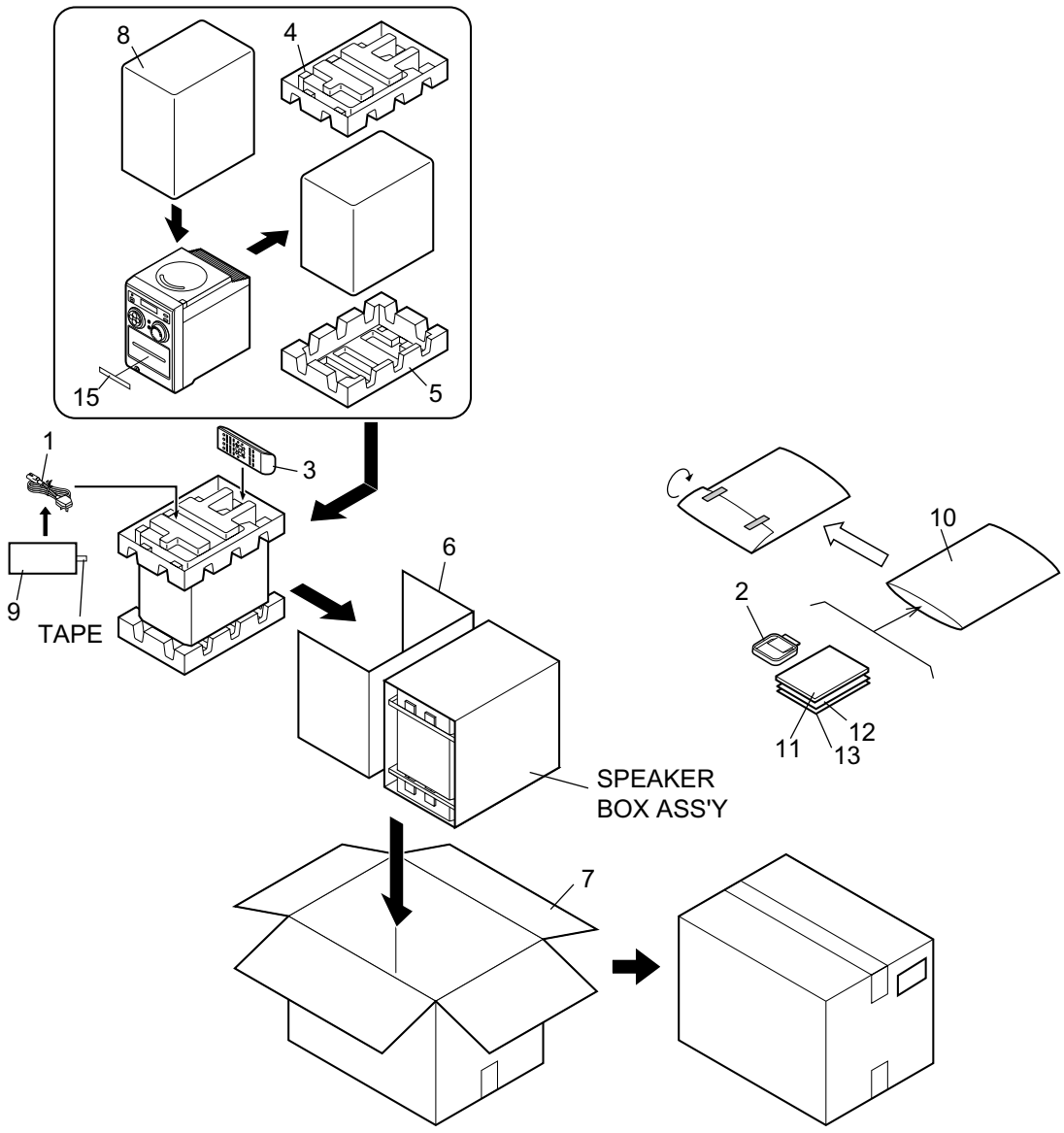
	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[12] CABINET PARTS					
	201	GCABBA022SJSA	AK			Rear Panel
	202	GCABCA022SJSA	AL			Top Cabinet
	203	GCOVA1038SJSA	AD			Cover,Mechanism
	204	GCOVAA032SJSA	AH			Cassette Holder
	205	GCOVAA033SJSA	AL			CD Lid
	206	CHLDM0011SJ01				Stabilizer Ass'y
	206- 1	--------	-			Stabilizer
	206- 2	PMAGF0002AWZZ	AE			Magnet
	208	GiTASA011SJSA	AK			Side Panel,Left
	209	GiTASA012SJSA	AK			Side Panel,Right
	210	HDECQA087SJSA	AF			Jog Decorate Ring
	211	HDECQA088SJSA	AF			Knob Decorate Ring
	212	HDECQA089SJSA	AG			LCD Window
	213	HDECQA090SJSA	AF			Cassette Holder Window
	214	HDECQA091SJSA	AE			CD Lid Window
	215	HPNLCA008SJSA	AN			Front Panel
	216	JKNBKA009SJSA	AF			Knob,VOLUME
	217	JKNBZA050SJSA	AE			Botton,POWER
	218	JKNBZA051SJSA	AE			Botton,FUNCTION
	219	JKNBZA052SJSA	AG			Botton,CONTROL
	220	JKNBZA060SJSA	AD			Button,CD Eject
	221	KMECBA002SJZZ	AY			Tape Mechanism Ass'y
	221- 1	94R19210703	AE			Belt,FF/REW
	221- 2	9GD19210943	AG			Belt,Main
	221- 3	94R192104310	AL			Pinch Roller Arm Ass'y
	221- 4	9GD19212118	AP			Solenoid Ass'y (SOL901)
	221- 5	9GD62161401	AN			Head,Erase
	221- 6	9GD62070122	AK			Head,Record/Playback
	221- 7	9GD640101210	AE			Switch,Leaf Type [Fool Proof] (SW901)
	221- 8	9GD640101210	AE			Switch,Leaf Type [Play] (SW902)
	221- 9	9GD60990201	AP			Motor with Pulley [Tape] (M901)
	221-10	9GD192121303	AZ			Tape Mechanism PWB Ass'y
	221-11	9GD192121306	AP			Tape Mechanism PWB Ass'y
⚠	222	KRPLE0022SJM2	BC			CD Mechanism Ass'y
	223	LANGKA075SJFW	AD			Bracket,PWB
	224	LCHSMA011SJFW				Main Chassis
	225	LHLDW1001SJZZ	AD			Nylon Band
	226	LHLDZA070SJSA	AE			Holder,LCD
	227	LHLDZA071SJSA	AD			Holder,LED
	228	MLEVP0002SJSA	AC			Lock Lever,Cassette
	229	MLEVP0003SJZZ	AB			Lever,CD Eject Button
	230	MLiFP0007AWZZ	AC			Damper
	231	MSPRD0006SJFJ	AC			Spring,Cassette Holder
	232	MSPRD0008SJFJ	AB			Spring,Cassette Lock Lever
	233	MSPRDA017SJFJ	AE			Spring,CD Lid
	234	NGERH0003SJSA	AE			Damper Gear Ass'y
	235	PCOVSA014SJFW				Cover,PWB Shield
	236	PCOVSA015SJFW	AE			Bracket,PWB
	237	PCUSG0001AWSA	AD			Cushion (GREEN)
	238	PCUSG0003SJZZ	AC			Cushion,Leg
	239	PCUSG0004AWSA	AD			Cushion (BROWN)
	240	PRDARA032SJFW				Heat Sink
	241	PSHEPA007SJZZ	AC			Sheet,LCD Display
⚠	242	QFSHD1013CEZZ	AB			Holder,Fuse
	243	TLABS0042SJZZ	AB			Label,Laser
	244	TSPC-A088SJZZ				Label,Specification [Except for U.K.]
	244	TSPC-A113SJZZ				Label,Specification [For U.K.]
	601	LX-BZA003SJFN				Screw,M2.5X10mm
	602	LX-HZA005SJFN				Screw,M3X8mm
	603	LX-JZA001SJFN	AB			Screw,M2.5X10mm
	604	LX-JZA011SJFN	AB			Screw,M3X12mm
	605	XHBSN30P06000	AA			Screw,M3X6mm
	606	XHBY930P06000				Screw,M3X6mm
	607	XJBSN25P10000	AA			Screw,M2.5X10mm
	608	XJBSN30P08000	AA			Screw,M3X8mm
	609	XJBY925P08000	AA			Screw,M2.5X8mm
	610	XJBY930P10000	AA			Screw,M3X10mm
	611	XJBY930P12000	AA			Screw,M3X12mm
	[13] SPEAKER BOX PARTS					
		B3CPXLMP40H				Speaker Box Ass'y,L-CH/R-CH

[14] ACCESSORIES/PACKING PARTS

PACKING METHOD (FOR U.K. ONLY)

Setting position of switches and knobs	
Tape Mechanism	STOP
Cassette Holder	CLOSE
CD Lid	CLOSE

1. AC Power Supply Cord	QACCB0005SJ00	11. Register Card	TCADN0003SJZZ
2. AM/FM Loop Antenna	QANTL0009SJZZ	12. Operation Manual	TINSEA052SJZZ
3. Remote Control	RRMCGA024SJSA	13. Quick Guide	TINSEA053SJZZ
4. Packing Add.,Top	SPAKA0130SJZZ	15. Label,Pop	TLABZA062SJZZ
5. Packing Add.,Bottom	SPAKA0131SJZZ		
6. Side Pad,Set	SPAKA0132SJZZ		
7. Packing Case	SPAKCA117SJZZ		
8. Polyethylene Bag,Set	SPAKP0042SJZZ		
9. Sheet,AC Cord	SPAKP0043SJZZ		
10. Polyethylene Bag,Accessories	SSAKA0002SJZZ		



	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[14] ACCESSORIES/PACKING PARTS					
⚠	1	QACCB0005SJ00	AT			AC Power Supply Cord [For U.K.]
⚠	1	QACCE0002SJZZ	AH			AC Power Supply Cord [Except for U.K.]
	2	QANTL0009SJZZ	AG			AM/FM Loop Antenna
	3	RRMCGA024SJSA	AN			Remote Control
	3-1	GCOVA1028SJSA	AC			Battery Lid,Remote Control
	4	SPAKA0130SJZZ	AE			Packing Add.,Top
	5	SPAKA0131SJZZ	AE			Packing Add.,Bottom
	6	SPAKA0132SJZZ	AE			Side Pad,Set
	7	SPAKCA117SJZZ				Packing Case [For U.K.]
	7	SPAKCA152SJZZ	AQ			Packing Case [Except for U.K.]
	8	SPAKP0042SJZZ	AC			Polyethylene Bag,Set
	9	SPAKP0043SJZZ	AB			Sheet,AC Cord
	10	SSAKA0002SJZZ	AE			Polyethylene Bag,Accessories
	11	TCADN0003SJZZ	AD			Register Card [For U.K. Only]
	12	TiNSEA052SJZZ	AE			Operation Manual [For U.K.]
	12	TiNSZA040SJZZ	AW			Operation Manual [For Europe]
	12	TiNSZA050SJZZ	AH			Operation Manual [For East Europe]
	13	TiNSEA053SJZZ	AD			Quick Guide [For U.K. Only]
	14	TLABZ0067SJZZ	AB			Label,Energy [Except for U.K.]
	15	TLABZA062SJZZ				Label,Pop
	16	--------				Battery (Not Replacement Item) [Except for U.K.]
	[15] P.W.B. ASSEMBLY (Not Replacement Item)					
⚠	PWB-A	DCEKKV512SJ03	-			Main/Power/etc. (A1-A6)
	[16] OTHER SERVICE PARTS					
		UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
【 B 】				
B3CPXLMP40H	13-			
【 C 】				
CHLDM0011SJ01	12-206			
【 D 】				
DCEKKV512SJ03	15-PWB-A	-		
【 G 】				
GCABBA022SJSA	12-201	AK		
GCABCA022SJSA	12-202	AL		
GCOVA1028SJSA	14-3-1	AC		
GCOVA1038SJSA	12-203	AD		
GCOVAA032SJSA	12-204	AH		
GCOVAA033SJSA	12-205	AL		
GiTASA011SJSA	12-208	AK		
GiTASA012SJSA	12-209	AK		
【 H 】				
HDECQA087SJSA	12-210	AF		
HDECQA088SJSA	12-211	AF		
HDECQA089SJSA	12-212	AG		
HDECQA090SJSA	12-213	AF		
HDECQA091SJSA	12-214	AE		
HPNLCA008SJSA	12-215	AN		
【 J 】				
JKNBKA009SJSA	12-216	AF		
JKNBZA050SJSA	12-217	AE		
JKNBZA051SJSA	12-218	AE		
JKNBZA052SJSA	12-219	AG		
JKNBZA060SJSA	12-220	AD		
【 K 】				
KMECBA002SJZZ	12-221	AY		
KRPLE0022SJM2	12-222	BC		
【 L 】				
LANGKA075SJFW	12-223	AD		
LCHSMA011SJFW	12-224			
LHLDW1001SJZZ	12-225	AD		
LHLDZA070SJSA	12-226	AE		
LHLDZA071SJSA	12-227	AD		
LX-BZA003SJFN	12-601			
LX-HZA005SJFN	12-602			
LX-JZA001SJFN	12-603	AB		
LX-JZA011SJFN	12-604	AB		
【 M 】				
MLEVP0002SJSA	12-228	AC		
MLEVP0003SJZZ	12-229	AB		
MLiFP0007AWZZ	12-230	AC		
MSPRD0006SJFJ	12-231	AC		
MSPRD0008SJFJ	12-232	AB		
MSPRDA017SJFJ	12-233	AE		
【 N 】				
NGERH0003SJSA	12-234	AE		
【 P 】				
PCOVSA014SJFW	12-235			
PCOVSA015SJFW	12-236	AE		
PCUSG0001AWSA	12-237	AD		
PCUSG0003SJZZ	12-238	AC		
PCUSG0004AWSA	12-239	AD		
PMAGF0002AWZZ	12-206- 2	AE		
PRDARA032SJFW	12-240			
PSHEPA007SJZZ	12-241	AC		
【 Q 】				
QACCB0005SJ00	14-1	AT		
QACCE0002SJZZ	14-1	AH		
QANTL0009SJZZ	14-2	AG		
QCNCM010VAWZZ	11-CNS701	AD		
QCNCM052CSJZZ	11-CNP301	AB		
QCNCM062ESJZZ	11-CNP602			
QCNCM932BAFZZ	11-CNP703	AA		
QCNCM999EAFZZ	11-CNP105	AG		
QCNCM999GAFZZ	11-CNP202	AD		
QCNCMA042SJ06	11-CNP704			
QCNCW010VAWZZ	11-CNP701	AE		
QCNCWA031SJ16	11-CNP801	AD		
QCNWNA276SJZZ	11-CNW704			
QCNWNA277SJZZ	11-CFW701			
QCNWNA278SJZZ	11-CNW703			
QCNWNA279SJZZ	11-CNW602			
QCNWNA280SJZZ	11-CNW802			
QCNWNA281SJZZ	11-CNW105			
QCNWNA282SJZZ	11-CNW201			

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
QCNWNA283SJZZ	11-CNW202			
QCNWNA306SJZZ	11-CFW106			
QCNWNA312SJZZ	11-FC801			
QFS-D201CAWNi	11-F101	AD		
QFSHD1013CEZZ	12-242	AB		
QJAKM0001SJZZ	11-JK101	AG		
QSOCA0212AWZZ	11-SO651	AD		
QSOCJ0003SJZZ	11-SO401	AG		
QSW-K0002SJZZ	11-SW701	AC		
〃	11-SW702	AC		
〃	11-SW703	AC		
〃	11-SW704	AC		
〃	11-SW705	AC		
〃	11-SW706	AC		
〃	11-SW707	AC		
〃	11-SW708	AC		
〃	11-SW709	AC		
QSW-P0004AWZZ	11-SW710	AE		
QSW-Z0003SJZZ	11-SW700	AG		
QTANA0008SJZZ	11-SO601	AE		
【 R 】				
RBLN-A003SJZZ	6-L805	AB		
〃	6-L806	AB		
RC-EZD107AF1C	9-C710	AC		
〃	9-C727	AC		
〃	9-C750	AC		
RC-EZD335AF1H	9-C712	AB		
RC-EZD336AF1C	9-C726	AB		
RC-GZA105AF1H	9-C123	AB		
〃	9-C125	AB		
〃	9-C302	AB		
〃	9-C319	AB		
〃	9-C322	AB		
〃	9-C323	AB		
〃	9-C324	AB		
〃	9-C328	AB		
〃	9-C825	AB		
〃	9-C834	AB		
RC-GZA106AF1H	9-C409	AB		
〃	9-C410	AB		
〃	9-C464	AB		
〃	9-C465	AB		
〃	9-C613	AB		
〃	9-C823	AB		
〃	9-C824	AB		
RC-GZA107AF1C	9-C119	AB		
〃	9-C405	AB		
〃	9-C406	AB		
〃	9-C462	AB		
〃	9-C617	AB		
〃	9-C660	AB		
〃	9-C671	AB		
〃	9-C674	AB		
〃	9-C682	AB		
〃	9-C683	AB		
〃	9-C807	AB		
〃	9-C816	AB		
〃	9-C822	AB		
〃	9-C836	AB		
〃	9-C837	AB		
〃	9-C838	AB		
RC-GZA107AF1E	9-C679	AB		
RC-GZA224AF1C	9-C470	AB		
〃	9-C471	AB		
RC-GZA224AF1H	9-C415	AA		
〃	9-C416	AA		
〃	9-C417	AA		
〃	9-C418	AA		
RC-GZA226AF1H	9-C117	AB		
〃	9-C315	AB		
〃	9-C325	AB		
〃	9-C330	AB		
〃	9-C335	AB		
RC-GZA334AF1H	9-C321	AA		
RC-GZA335AF1H	9-C252	AB		
RC-GZA336AF1C	9-C802	AB		
RC-GZA474AF1C	9-C810	AB		
RC-GZA475AF1E	9-C135	AB		
RC-GZA475AF1H	9-C121	AB		
〃	9-C333	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RC-GZA476AF1H	9-C248	AB		
〃	9-C346	AB		
〃	9-C370	AB		
RC-GZA477AF1C	9-C437	AC		
〃	9-C441	AC		
〃	9-C805	AC		
〃	9-C848	AC		
〃	9-C850	AC		
RC-GZV108AF1C	9-C116	AD		
〃	9-C656	AD		
〃	9-C657	AD		
RC-GZV108AF1E	9-C115	AD		
RC-GZV477AF1E	9-C110	AC		
RC-GZW478AF1E	9-C118	AG		
RCiLAA002SJZZ	6-L302	AC		
RCiLBA004SJZZ	6-L307	AD		
RCiLBA006SJZZ	6-L306	AC		
RCiLiA001SJZZ	6-L305	AC		
RCiLRA001SJZZ	6-L304	AA		
RCiLZA001SJZZ	6-L102	AC		
〃	6-L103	AC		
RCiLZA004SJZZ	6-LF651	AD		
RCRM-0008SJZZ	7-X701	AG		
RCRSP0002SJZZ	7-X801	AL		
RCRSP0007SJZZ	7-X702	AE		
RCRSPA006SJZZ	7-X301	AF		
RFiLA0003SJZZ	4-CF304	AF		
RFiLF0003AWZZ	4-CF302	AK		
RFiLFA001SJZZ	4-CF301	AE		
〃	4-CF303	AE		
RFiLRA001SJZZ	4-BF301	AD		
RH-iXA044SJZZ	1-iC701	AY		
RH-QX1067AFZZ	8-RP601	AE		
〃	8-RP602	AE		
RRMCGA024SJSA	14-3	AN		
RTRNPA035SJZZ	5-T601			
RV-LXA007SJZZ	11-LCD701			
【 S 】				
SPAKA0130SJZZ	14-4	AE		
SPAKA0131SJZZ	14-5	AE		
SPAKA0132SJZZ	14-6	AE		
SPAKCA117SJZZ	14-7			
SPAKCA152SJZZ	14-7	AQ		
SPAKP0042SJZZ	14-8	AC		
SPAKP0043SJZZ	14-9	AB		
SSAKA0002SJZZ	14-10	AE		
【 T 】				
TCADN0003SJZZ	14-11	AD		
TiNSEA052SJZZ	14-12	AE		
TiNSEA053SJZZ	14-13	AD		
TiNSZA040SJZZ	14-12	AW		
TiNSZA050SJZZ	14-12	AH		
TLABS0042SJZZ	12-243	AB		
TLABZ0067SJZZ	14-14	AB		
TLABZA062SJZZ	14-15			
TSPC-A088SJZZ	12-244			
TSPC-A113SJZZ	12-244			
【 U 】				
UDSKA0004AFZZ	16-	AZ		
【 V 】				
VCCCCY1HH100J	9-C341	AA		
〃	9-C342	AA		
〃	9-C438	AA		
〃	9-C829	AA		
〃	9-C831	AA		
VCCCCY1HH101J	9-C320	AA		
〃	9-C334	AA		
〃	9-C336	AA		
〃	9-C337	AA		
〃	9-C704	AA		
〃	9-C706	AA		
〃	9-C713	AA		
〃	9-C845	AA		
〃	9-C846	AA		
VCCCCY1HH200J	9-C707	AA		
〃	9-C708	AA		
VCCCCY1HH470J	9-C401	AA		
〃	9-C402	AA		
VCCCPA1HH120J	9-C305	AA		
VCCCPA1HH330J	9-C316	AA		
〃	9-C344	AA		
VCCSCY1HL5R0C	9-C343	AD		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCCSCY1HL820J	9-C435	AA		
〃	9-C436	AA		
VCCSPA1HL681J	9-C245	AA		
VCCUPA1HJ100D	9-C307	AA		
VCCUPA1HJ270J	9-C310	AA		
VCCUPA1HJ5R0C	9-C345	AA		
VCKYCY1EB103K	9-C314	AA		
VCKYCY1EB183K	9-C308	AB		
VCKYCY1EB333K	9-C329	AC		
VCKYCY1EB563K	9-C818	AD		
VCKYCY1HB101K	9-C427	AB		
〃	9-C428	AB		
VCKYCY1HB102K	9-C101	AA		
〃	9-C111	AA		
〃	9-C112	AA		
〃	9-C301	AA		
〃	9-C332	AA		
〃	9-C440	AA		
〃	9-C717	AA		
〃	9-C719	AA		
〃	9-C809	AA		
VCKYCY1HB103K	9-C306	AA		
〃	9-C318	AA		
〃	9-C327	AA		
〃	9-C331	AA		
〃	9-C339	AA		
〃	9-C371	AA		
〃	9-C413	AA		
〃	9-C414	AA		
〃	9-C614	AA		
〃	9-C616	AA		
〃	9-C709	AA		
〃	9-C721	AA		
〃	9-C813	AA		
〃	9-C817	AA		
〃	9-C820	AA		
VCKYCY1HB104K	9-C104	AD		
〃	9-C105	AD		
〃	9-C108	AD		
〃	9-C109	AD		
〃	9-C113	AD		
〃	9-C114	AD		
〃	9-C120	AD		
〃	9-C303	AD		
〃	9-C313	AD		
〃	9-C326	AD		
〃	9-C338	AD		
〃	9-C340	AD		
〃	9-C443	AD		
〃	9-C444	AD		
〃	9-C460	AD		
〃	9-C461	AD		
〃	9-C463	AD		
〃	9-C615	AD		
〃	9-C652	AD		
〃	9-C653	AD		
〃	9-C711	AD		
〃	9-C722	AD		
〃	9-C723	AD		
〃	9-C751	AD		
〃	9-C801	AD		
〃	9-C803	AD		
〃	9-C804	AD		
〃	9-C806	AD		
〃	9-C808	AD		
〃	9-C811	AD		
〃	9-C819	AD		
〃	9-C827	AD		
〃	9-C828	AD		
〃	9-C830	AD		
〃	9-C832	AD		
〃	9-C833	AD		
〃	9-C835	AD		
〃	9-C839	AD		
〃	9-C840	AD		
〃	9-C841	AD		
〃	9-C849	AD		
〃	9-C851	AD		
VCKYCY1HB153K	9-C312	AA		
〃	9-C407	AA		
〃	9-C408	AA		
VCKYCY1HB222K	9-C126	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-C127	AA		
〃	9-C133	AA		
〃	9-C134	AA		
〃	9-C718	AA		
VCKYCY1HB223K	9-C249	AA		
〃	9-C348	AA		
〃	9-C672	AA		
〃	9-C673	AA		
〃	9-C677	AA		
〃	9-C678	AA		
VCKYCY1HB331K	9-C411	AA		
〃	9-C412	AA		
VCKYCY1HB332K	9-C431	AA		
〃	9-C432	AA		
VCKYCY1HB471K	9-C472	AA		
〃	9-C473	AA		
VCKYCY1HB472K	9-C102	AA		
〃	9-C103	AA		
〃	9-C106	AA		
〃	9-C107	AA		
〃	9-C130	AA		
〃	9-C131	AA		
〃	9-C132	AA		
〃	9-C349	AA		
〃	9-C821	AA		
VCKYCY1HB473K	9-C347	AB		
〃	9-C812	AB		
〃	9-C814	AB		
〃	9-C826	AB		
VCKYCY1HB561K	9-C403	AA		
〃	9-C404	AA		
VCKYCY1HB562K	9-C854	AA		
VCKYCY1HB682K	9-C429	AA		
〃	9-C430	AA		
VCKYPA1HB101K	9-C842	AA		
〃	9-C843	AA		
〃	9-C847	AA		
VCKYPA1HB102J	9-C309	AA		
〃	9-C317	AA		
VCKYPA1HB561K	9-C311	AA		
VCKYPA1HB563K	9-C815	AC		
VCQPKA2AA222J	9-C246	AA		
VCQYKA1HM273J	9-C247	AB		
VCTYPA1CX473K	9-C202	AA		
VHCSVC201//-1	3-D306	AE		
〃	3-D307	AE		
VHCSVC347S/-1	3-D305	AG		
VHD1N4004//-1	3-D202	AB		
〃	3-D656	AB		
〃	3-D657	AB		
〃	3-D658	AB		
〃	3-D659	AB		
〃	3-D684	AB		
〃	3-D685	AB		
〃	3-D690	AB		
〃	3-D691	AB		
〃	3-D705	AB		
〃	3-D890	AB		
〃	3-D891	AB		
VHD1N4148//-1	3-D107	AA		
〃	3-D110	AA		
〃	3-D201	AA		
〃	3-D206	AA		
〃	3-D207	AA		
〃	3-D208	AA		
〃	3-D209	AA		
〃	3-D210	AA		
〃	3-D401	AA		
〃	3-D402	AA		
〃	3-D403	AA		
〃	3-D601	AA		
〃	3-D602	AA		
〃	3-D610	AA		
〃	3-D660	AA		
〃	3-D661	AA		
〃	3-D662	AA		
〃	3-D692	AA		
〃	3-D701	AA		
〃	3-D702	AA		
〃	3-D703	AA		
VHD1N5395//-1	3-D101	AB		
〃	3-D102	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-D103	AB		
〃	3-D104	AB		
VHD1SS133//-1	3-D302	AA		
〃	3-D303	AA		
VHDSR2400//-1	3-D663	AC		
〃	3-D664	AC		
VHEDZ100BSB-1	3-ZD671	AB		
VHEDZ3R3BSB-1	3-ZD704	AB		
VHEDZ5R6BSB-1	3-ZD613	AC		
VHEDZH04B2+-1	3-ZD802	AB		
VHEDZH05C2+-1	3-ZD801	AB		
VHEDZH09C1+-1	3-ZD670	AB		
VHEMTZJ120B-1	3-ZD309	AC		
VHEMTZJ3R6B-1	3-ZD308	AC		
VHiAN78L05/-1	1-iC680	AE		
〃	1-iC681	AE		
〃	1-iC705	AE		
VHiBD3881FV-1	1-iC401	AP		
VHiLA4631++-1	1-iC101	AM		
VHiLA6548ND-1	1-iC802	AL		
VHiLC78690/-1	1-iC801	BE		
VHiLV23002M-1	1-iC301	AS		
VHLGP1U281X-1	11-RX701	AH		
VHPMPG3372X-V	3-LED701	AD		
〃	3-LED702	AD		
〃	3-LED703	AD		
〃	3-LED704	AD		
VP-DH100K0000	6-L303	AB		
VP-DH101K0000	6-L701	AB		
VP-DH1R0K0000	6-L101	AC		
〃	6-L301	AC		
VP-DH470K0000	6-L308	AB		
VP-DHR82K0000	6-L502	AE		
〃	6-L802	AE		
〃	6-L803	AE		
〃	6-L804	AE		
VP-MK102K0000	6-L204	AB		
VP-MK331K0000	6-L203	AB		
VRD-ST2CD100J	10-R103	AA		
〃	10-R104	AA		
〃	10-R106	AA		
〃	10-R107	AA		
〃	10-R302	AA		
VRD-ST2CD101J	10-R710	AA		
〃	10-R722	AA		
〃	10-R761	AA		
VRD-ST2CD102J	10-R311	AA		
〃	10-R446	AA		
〃	10-R728	AA		
〃	10-R733	AA		
〃	10-R745	AA		
〃	10-R746	AA		
〃	10-R751	AA		
VRD-ST2CD103J	10-R770	AA		
〃	10-R771	AA		
VRD-ST2CD104J	10-R303	AA		
〃	10-R310	AA		
VRD-ST2CD123J	10-R767	AA		
〃	10-R815	AA		
VRD-ST2CD1R0J	10-R820	AA		
〃	10-R833	AA		
VRD-ST2CD223J	10-R734	AA		
〃	10-R764	AA		
〃	10-R768	AA		
VRD-ST2CD243J	10-R823	AA		
VRD-ST2CD272J	10-R667	AA		
VRD-ST2CD273J	10-R665	AA		
VRD-ST2CD332J	10-R427	AA		
〃	10-R428	AA		
〃	10-R707	AA		
〃	10-R753	AA		
〃	10-R754	AA		
VRD-ST2CD333J	10-R712	AA		
VRD-ST2CD391J	10-R323	AA		
〃	10-R814	AA		
VRD-ST2CD392J	10-R765	AA		
VRD-ST2CD471J	10-R806	AA		
VRD-ST2CD473J	10-R713	AA		
VRD-ST2CD682J	10-R766	AA		
〃	10-R829	AA		
VRD-ST2CD820J	10-R840	AA		
VRD-ST2CD821J	10-R672	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRD-ST2CD822J	10-R802	AA		
VRD-ST2CD823J	10-R769	AA		
VRD-ST2EE102J	10-R657	AA		
VRD-ST2EE121J	10-R546	AA		
VRD-ST2EE221J	10-R101	AA		
〃	10-R102	AA		
VRD-ST2EE390J	10-R266	AA		
VRD-ST2EE4R7J	10-R267	AA		
VRS-CY1JB000J	10-R309	AA		
〃	10-R801	AA		
〃	10-JP302	AA		
〃	10-JP401	AA		
〃	10-JP503	AA		
〃	10-JP801	AA		
〃	10-JP802	AA		
〃	10-JR303	AA		
〃	10-JR304	AA		
VRS-CY1JB100J	10-R306	AA		
VRS-CY1JB101J	10-R336	AA		
〃	10-R401	AA		
〃	10-R402	AA		
〃	10-R748	AA		
〃	10-R807	AA		
VRS-CY1JB102J	10-R221	AA		
〃	10-R222	AA		
〃	10-R308	AA		
〃	10-R321	AA		
〃	10-R324	AA		
〃	10-R445	AA		
〃	10-R723	AA		
〃	10-R727	AA		
〃	10-R741	AA		
〃	10-R742	AA		
〃	10-R743	AA		
〃	10-R744	AA		
〃	10-R747	AA		
〃	10-R749	AA		
〃	10-R750	AA		
〃	10-R772	AA		
〃	10-R773	AA		
VRS-CY1JB103J	10-R212	AA		
〃	10-R217	AA		
〃	10-R225	AA		
〃	10-R227	AA		
〃	10-R293	AA		
〃	10-R313	AA		
〃	10-R316	AA		
〃	10-R407	AA		
〃	10-R408	AA		
〃	10-R429	AA		
〃	10-R430	AA		
〃	10-R447	AA		
〃	10-R448	AA		
〃	10-R456	AA		
〃	10-R671	AA		
〃	10-R725	AA		
〃	10-R729	AA		
〃	10-R732	AA		
〃	10-R774	AA		
〃	10-R813	AA		
〃	10-R816	AA		
〃	10-R853	AA		
VRS-CY1JB104J	10-R265	AA		
〃	10-R304	AA		
〃	10-R305	AA		
〃	10-R319	AA		
〃	10-R322	AA		
〃	10-R328	AA		
〃	10-R704	AA		
〃	10-R726	AA		
〃	10-R810	AA		
〃	10-R811	AA		
〃	10-R831	AA		
VRS-CY1JB121J	10-R405	AA		
〃	10-R406	AA		
VRS-CY1JB122J	10-R115	AA		
〃	10-R473	AA		
〃	10-R474	AA		
〃	10-R730	AA		
VRS-CY1JB123J	10-R663	AA		
〃	10-R664	AA		
〃	10-R666	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB151J	10-R835	AA		
VRS-CY1JB153J	10-R440	AA		
〃	10-R441	AA		
〃	10-R828	AA		
VRS-CY1JB154J	10-R735	AA		
VRS-CY1JB182J	10-R415	AA		
〃	10-R416	AA		
〃	10-R417	AA		
〃	10-R418	AA		
〃	10-R443	AA		
〃	10-R444	AA		
〃	10-R455	AA		
VRS-CY1JB183J	10-R219	AA		
〃	10-R220	AA		
〃	10-R224	AA		
VRS-CY1JB203J	10-R834	AA		
VRS-CY1JB221J	10-R327	AA		
VRS-CY1JB222J	10-R213	AA		
〃	10-R214	AA		
〃	10-R215	AA		
〃	10-R216	AA		
〃	10-R218	AA		
〃	10-R226	AA		
〃	10-R228	AA		
〃	10-R296	AA		
〃	10-R307	AA		
〃	10-R332	AA		
〃	10-R433	AA		
〃	10-R434	AA		
〃	10-R756	AA		
VRS-CY1JB223J	10-R459	AA		
〃	10-R460	AA		
〃	10-R762	AA		
VRS-CY1JB225J	10-R817	AA		
VRS-CY1JB243J	10-R824	AA		
VRS-CY1JB271J	10-R295	AA		
VRS-CY1JB272J	10-R439	AA		
〃	10-R442	AA		
VRS-CY1JB303J	10-R471	AA		
〃	10-R472	AA		
VRS-CY1JB330J	10-R331	AA		
VRS-CY1JB331J	10-R329	AA		
〃	10-R334	AA		
〃	10-R804	AA		
〃	10-R819	AA		
VRS-CY1JB332J	10-R112	AA		
〃	10-R113	AA		
〃	10-R312	AA		
〃	10-R469	AA		
〃	10-R702	AA		
〃	10-R705	AA		
〃	10-R706	AA		
〃	10-R709	AA		
〃	10-R752	AA		
〃	10-R755	AA		
〃	10-R791	AA		
〃	10-R799	AA		
〃	10-R837	AA		
VRS-CY1JB333J	10-R116	AA		
〃	10-R117	AA		
〃	10-R223	AA		
〃	10-R470	AA		
〃	10-R603	AA		
〃	10-R731	AA		
VRS-CY1JB334J	10-R457	AA		
〃	10-R458	AA		
〃	10-R736	AA		
VRS-CY1JB392J	10-R763	AA		
VRS-CY1JB393J	10-R812	AA		
VRS-CY1JB394J	10-R411	AA		
〃	10-R412	AA		
〃	10-R721	AA		
VRS-CY1JB3R3J	10-R805	AA		
VRS-CY1JB470J	10-R757	AA		
〃	10-R758	AA		
〃	10-R776	AA		
VRS-CY1JB471J	10-R775	AA		
〃	10-R783	AA		
VRS-CY1JB472J	10-R271	AA		
〃	10-R272	AA		
〃	10-R314	AA		
〃	10-R315	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	10-R467	AA		
〃	10-R468	AA		
〃	10-R656	AA		
〃	10-R658	AA		
VRS-CY1JB473J	10-R262	AA		
〃	10-R294	AA		
〃	10-R317	AA		
〃	10-R318	AA		
〃	10-R320	AA		
〃	10-R326	AA		
〃	10-R403	AA		
〃	10-R404	AA		
〃	10-R465	AA		
〃	10-R466	AA		
〃	10-R714	AA		
〃	10-R715	AA		
VRS-CY1JB561J	10-R606	AA		
VRS-CY1JB562J	10-R120	AA		
〃	10-R724	AA		
VRS-CY1JB563J	10-R119	AA		
VRS-CY1JB681J	10-R333	AA		
〃	10-R825	AA		
〃	10-R826	AA		
VRS-CY1JB682J	10-R131	AA		
〃	10-R132	AA		
〃	10-R551	AA		
〃	10-R552	AA		
〃	10-R553	AA		
〃	10-R558	AA		
〃	10-R559	AA		
〃	10-R841	AA		
〃	10-R842	AA		
〃	10-R844	AA		
〃	10-R845	AA		
〃	10-R851	AA		
VRS-CY1JB683J	10-R827	AA		
VRS-CY1JB820J	10-R830	AA		
〃	10-R832	AA		
VRS-CY1JB822J	10-R803	AA		
VS2HA1015GR-1	2-Q206	AB		
〃	2-Q611	AB		
VS2HC1815GR-1	2-Q104	AB		
〃	2-Q211	AB		
〃	2-Q212	AB		
〃	2-Q301	AB		
〃	2-Q410	AB		
〃	2-Q411	AB		
〃	2-Q655	AB		
〃	2-Q657	AB		
〃	2-Q701	AB		
〃	2-Q703	AB		
〃	2-Q704	AB		
VS2SA1235F+-1	2-Q664	AD		
〃	2-Q801	AD		
VS2SB561-C/-1	2-Q215	AC		
〃	2-Q217	AC		
〃	2-Q227	AC		
VS2SB562-C/-1	2-Q613	AD		
VS2SC1845F/-1	2-Q207	AC		
〃	2-Q208	AC		
〃	2-Q209	AC		
〃	2-Q210	AC		
VS2SC2001-K-1	2-Q226	AD		
VS2SC3052F+-1	2-Q705	AD		
〃	2-Q805	AD		
VS2SC5477++-1	2-Q302	AD		
〃	2-Q303	AD		
VS2SK2541//-1	2-Q665	AC		
VSKRA107M//-1	2-Q238	AE		
〃	2-Q612	AE		
〃	2-Q659	AE		
〃	2-Q660	AE		
〃	2-Q661	AE		
〃	2-Q663	AE		
VSKRC101M//-1	2-Q213	AB		
〃	2-Q214	AB		
〃	2-Q225	AB		
〃	2-Q228	AB		
〃	2-Q662	AB		
VSKRC106M//-1	2-Q216	AB		
〃	2-Q218	AB		
〃	2-Q230	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VSKRC107M//-1	2-Q237	AC		
VSKTC2026Y/-1	2-Q658	AE		
〃	2-Q806	AE		
VSKTC3200GR-1	2-Q802	AC		
【 X 】				
XHBSN30P06000	12-605	AA		
XHBY930P06000	12-606			
XJBSN25P10000	12-607	AA		
XJBSN30P08000	12-608	AA		
XJBY925P08000	12-609	AA		
XJBY930P10000	12-610	AA		
XJBY930P12000	12-611	AA		
【 9 】				
94R192104310	12-221- 3	AL		
94R19210703	12-221- 1	AE		
9GD19210943	12-221- 2	AG		
9GD192112347	11-M901	AX		
9GD19212118	11-SOL901	AP		
〃	12-221- 4	AP		
9GD192121303	12-221-10	AZ		
9GD192121306	12-221-11	AP		
9GD60990201	12-221- 9	AP		
9GD62070122	12-221- 6	AK		
9GD62161401	12-221- 5	AN		
9GD640101210	11-SW901	AE		
〃	11-SW902	AE		
〃	12-221- 7	AE		
〃	12-221- 8	AE		

"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.

-MEMO-

SHARP

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Higashihirosima, Hiroshima 739-0192, Japan

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