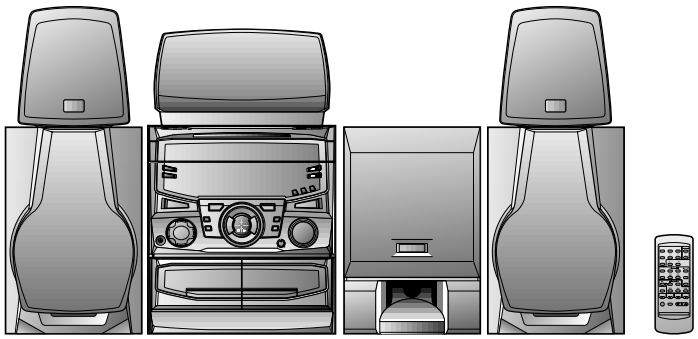
SHARP SERVICE MANUAL

No. S4915CDPC672/



CD-PC672

CD-PC672 mini component system consisting of CD-PC672 (main unit), CP-C672 (front speakers), CP-SW672 (sub woofer), GBOXS0022AWM1 (center speaker) and GBOXS0023AWM1 (rear speaker).

COMPACT disc DIGITAL AUDIO

DOLBY SURROUND PRO • LOGIC

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

CONTENTS

SHARP CORPORATION

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

IMPORTANT SERVICE NOTES (For U.S.A. Only)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

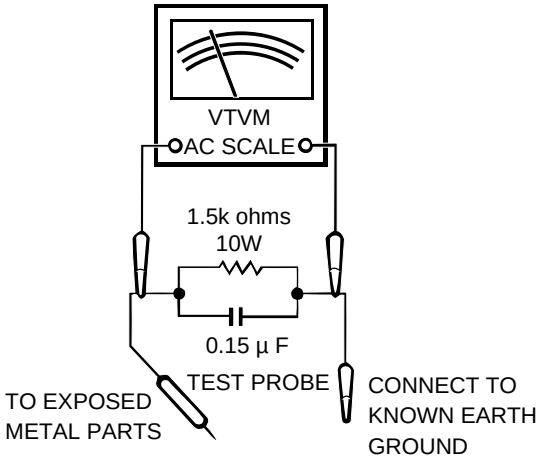
1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.

* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.

* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).

* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

SPECIFICATIONS

CD-PC672

● General

Power source:	AC 120 V, 60 Hz
Power consumption:	Stand-by; 0.3 W Power on; 150 W
Dimensions:	Width; 10-5/8" (270 mm) Height; 11-13/16" (300 mm) Depth; 14-1/4" (362 mm)
Weight:	17.7 lbs. (8.1 kg)

● Amplifier section

Output power: **(Except for Canada)**	Front speakers; 40 W minimum RMS into 6 ohms from 60 Hz to 20 kHz with no more than 10 % total harmonic distortion.
Output power: **(For Canada)**	Front speakers; RMS; 80 W (40 W + 40 W) (10 % T.H.D.) Center speaker; RMS; 20 W (10 % T.H.D.) Rear speaker; RMS; 20 W (total) (10 % T.H.D.) Sub woofer; RMS; 40 W (80 Hz 10 % T.H.D.)
Output terminals:	Front speakers; 6 ohms Center speaker; 4 ohms Rear speaker; 8 ohms Sub woofer; 6 ohms Headphones; 16-50 ohms (recommended; 32 ohms) CD digital output (optical)
Input terminal:	Video/Auxiliary (audio signal); × 2; 500 mV/47 kohms

● Tuner section

Frequency range:	FM; 87.5 - 108 MHz AM; 530 - 1,720 kHz

● Cassette deck section

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.15 % (WRMS)

● Compact disc player section

Type:	3-disc multi-play compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
D/A Converter:	1-bit D/A converter
Frequency response:	20 - 20,000 Hz
Dynamic range:	90 dB (1 kHz)

● Front speaker section

CP-C672

Type:	2-way 5-1/4" (13 cm) woofer and 2" (5 cm) tweeter type
Maximum input power:	80 W
Rated input power:	40 W
Impedance:	6 ohms
Dimensions:	Width; 7-7/8" (200 mm) Height; 11-13/16" (300 mm) Depth; 9-7/16" (240 mm)
Weight:	6.3 lbs. (2.9 kg)/each

● Center speaker section

GBOXS0022AWM1

Type:	4" (10 cm) full-range speaker
Maximum input power:	40 W
Rated input power:	20 W
Impedance:	4 ohms
Dimensions:	Width; 10-1/4" (260 mm) Height; 5-1/2" (140 mm) Depth; 6-1/8" (155 mm)
Weight:	2.0 lbs. (0.9 kg)/each

● Rear speaker section

GBOXS0023AWM1

Type:	4" (10 cm) full-range speaker
Maximum input power:	20 W
Rated input power:	10 W
Impedance:	8 ohms
Dimensions:	Width; 6-3/4" (170 mm) Height; 3-1/2" (88 mm) Depth; 6-3/4" (170 mm)
Weight:	1.0 lbs. (0.5 kg)/each

● Sub woofer section

CP-SW672

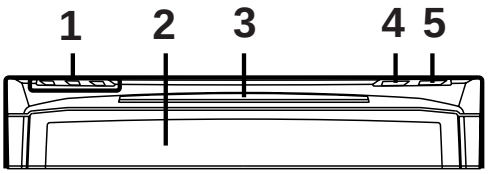
Type:	5-1/4" (13 cm) full-range speaker
Maximum input power:	80 W
Rated input power:	40 W
Impedance:	6 ohms
Dimensions:	Width; 7-7/8" (200 mm) Height; 11-13/16" (300 mm) Depth; 11-5/8" (295 mm)
Weight:	7.5 lbs. (3.4 kg)/each

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

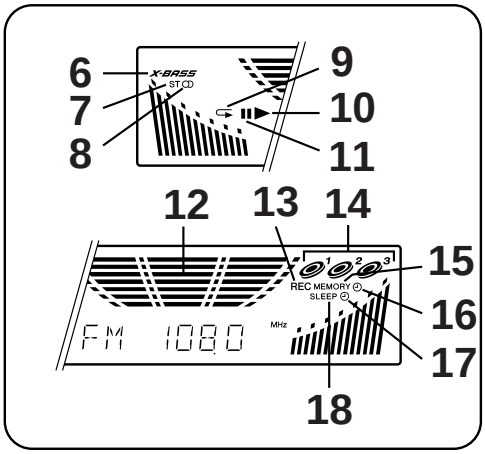
NAMES OF PARTS

CD-PC672

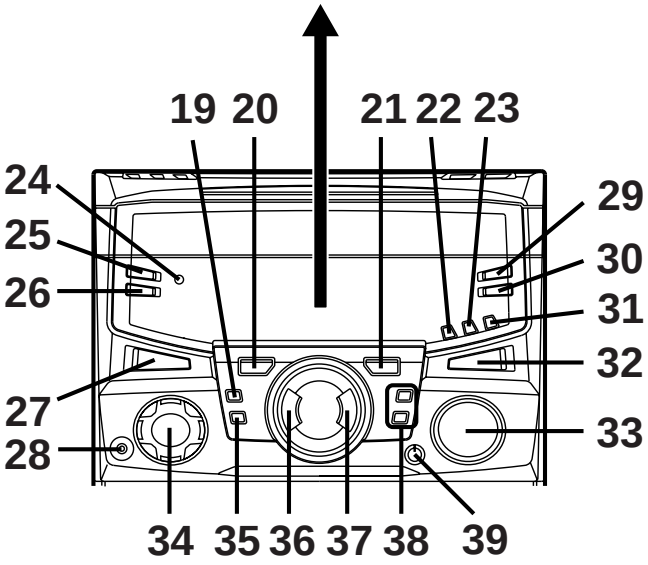
■ Front panel



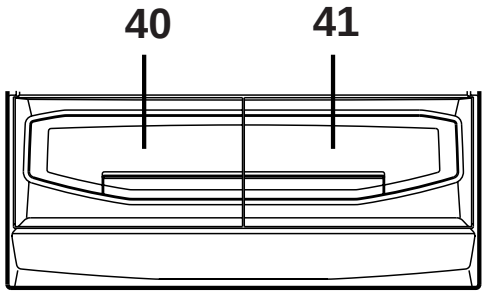
1. Disc Number Selector Buttons
2. Disc Tray
3. Multi Indicator
4. Disc Skip Button
5. Open/Close Button



6. Extra Bass Indicator
7. FM Stereo Mode Indicator
8. FM Stereo Indicator
9. (CD) Repeat Indicator
10. (CD) Play Indicator
11. (CD) Pause Indicator
12. Spectrum Analyzer/Volume Level Indicator
13. (TAPE 2) Record Indicator
14. (CD) Disc Number Indicators
15. (CD/TUNER) Memory Indicator
16. Timer Play Indicator
17. Timer Record Indicator
18. Sleep Indicator



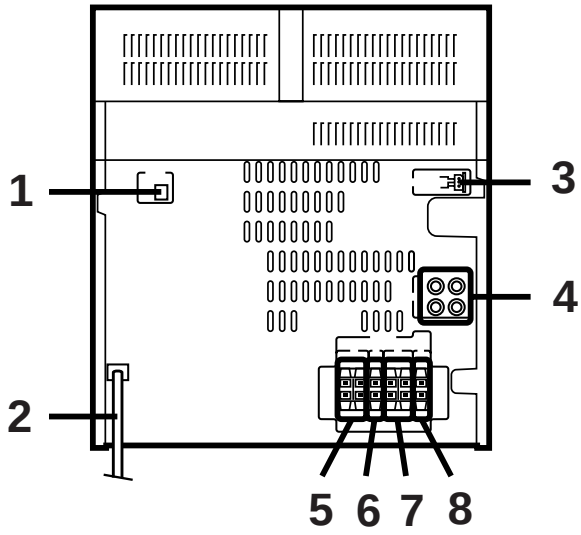
19. (TAPE 2) Record Pause Button
20. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
21. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
22. Bypass Button
23. Normal Button
24. Timer Set Indicator
25. Timer/Sleep Button
26. Clock Button
27. Power Button
28. Headphone Socket
29. Equalizer Mode Selector Button
30. Dimmer Button
31. Phantom Button
32. Extra Bass/Demo Mode Button
33. Volume Control
34. Function Selector Buttons
35. Memory/Set Button
36. (CD/TAPE) Stop Button
37. (TAPE) Play Button
    (CD) Play/Repeat Button
38. Tuning and Time Up/Down Buttons
39. Sub Woofer Volume Control



40. (TAPE 1) Cassette Compartment
41. (TAPE 2) Cassette Compartment

■ Rear panel

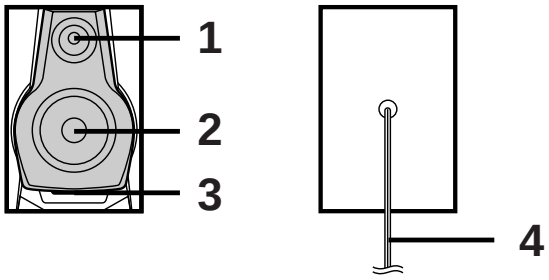
1. CD Digital Output Socket
2. AC Power Lead
3. FM/AM Loop Aerial Socket
4. Video/Auxiliary (Audio Signal) Input Sockets
5. Rear Speaker Terminals
6. Centre Speaker Terminals
7. Front Speaker Terminals
8. Sub Woofer Terminals



CP-C672

■ Front speakers

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



GBOXS0022AWM1

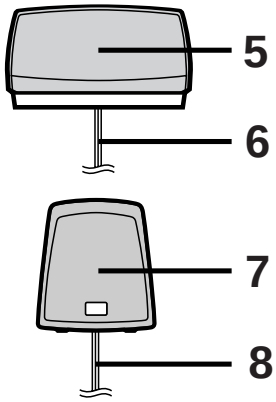
■ Centre speaker

5. Full-Range Speaker
6. Speaker Wire

GBOXS0023AWM1

■ Rear speaker

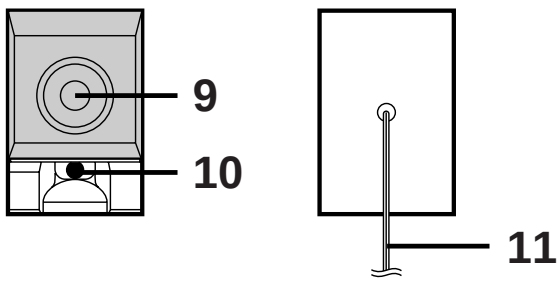
7. Full-Range Speaker
8. Speaker Wire



CP-SW672

■ Sub woofer

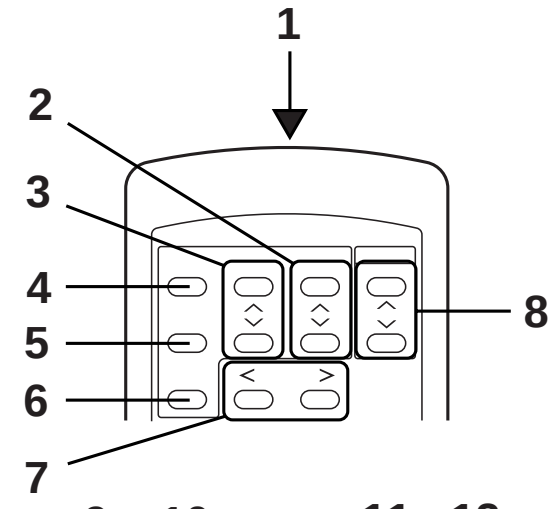
9. Woofer
10. Bass Reflex Duct
11. Speaker Wire



CD-PC672

■ Remote control

1. Remote Control Transmitter LED
2. Surround Level Buttons
3. Centre Level Buttons
4. Dolby Pro Logic Button
5. Centre Mode Button
6. Test Tone Button
7. Balance Control Buttons

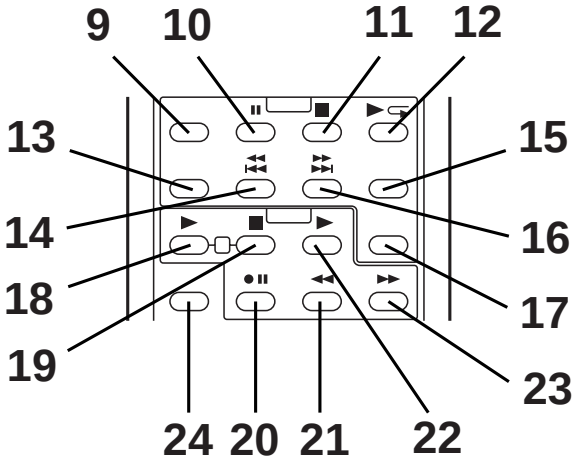


● Tuner control section

8. Preset Up/Down Buttons

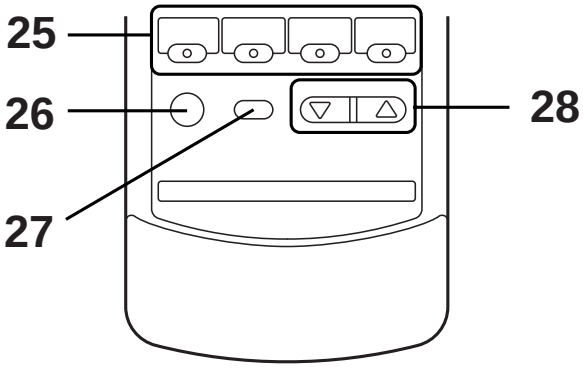
● CD control section

9. Memory Button
10. Pause Button
11. Stop Button
12. Play/Repeat Button
13. Clear Button
14. Track Down/Review Button
15. Random Button
16. Track Up/Cue Button
17. Disc Skip Button



● Tape control section

18. (TAPE 1) Play Button
19. (TAPE 1/2) Stop Button
20. (TAPE 2) Record Pause Button
21. (TAPE 2) Rewind Button
22. (TAPE 2) Play Button
23. (TAPE 2) Fast Forward Button

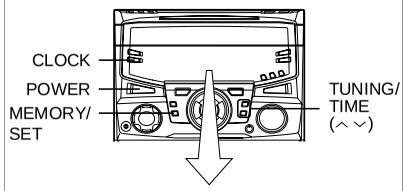


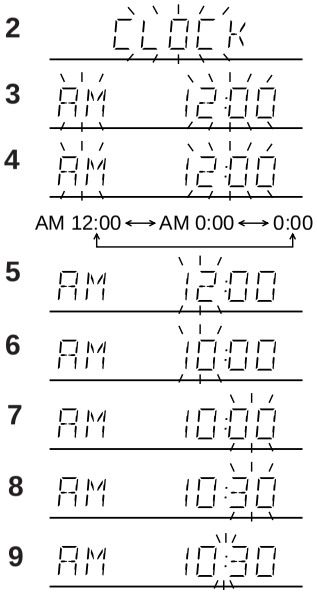
24. Equalizer Mode Button
25. Function Selector Buttons
26. Power Button
27. Extra Bass Button
28. Volume Up/Down Buttons

SETTING THE CLOCK

(Main unit operation)

In this example, the clock is set for the 12-hour (AM 12:00) system.





1 Press the POWER button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 18).

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power cord is disconnected, the clock display will go out.
  When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power cord was disconnected.
  If this happens, follow the procedure below to change the clock time.

To change the clock time:

① Press the CLOCK button.

② Within 5 seconds, press the MEMORY/SET button.

③ Perform steps 6 - 9 above.

To see the time display:

Press the CLOCK button.

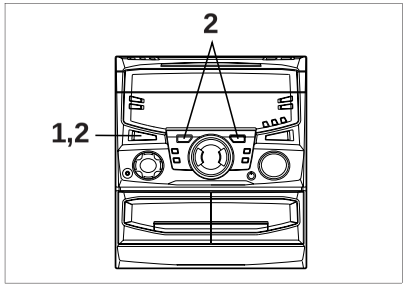
- The time display will appear for about 5 seconds.

To change the time display mode:

① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER", on page 18.

② Perform steps 1 - 9 above.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the POWER button to enter the stand-by mode.

2 While pressing down the ⏮/◀◀ button and the ▶▶/⏭ button, hold down the POWER button for at least 1 second.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

SHARP

MINI COMPONENT SYSTEM
Quick Guide/Guía rápida CD-PC672

1 Check the supplied accessories / *Compruebe los accesorios suministrados*

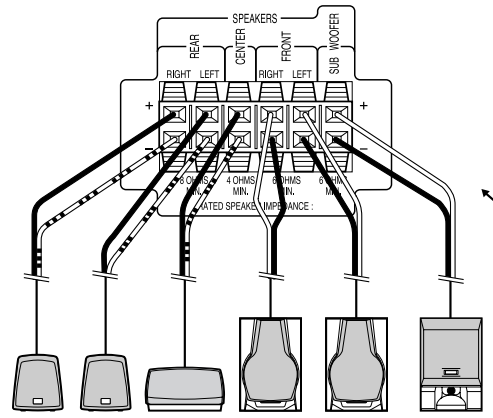
- **Remote control x 1**
- ***Controlador remoto x 1***

- **FM/AM loop antenna x 1**
- ***Antena de cuadro de FM/AM x 1***

2 Preparation for use / *Preparación para su uso*

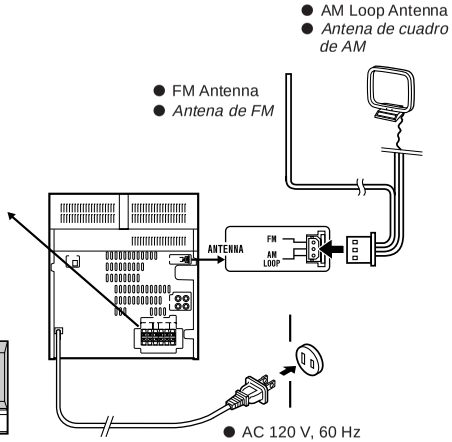
■ **Speaker connection**
■ ***Conexión de los altavoces***

Black *Negro* — Red *Rojo* — White line *Línea blanca*



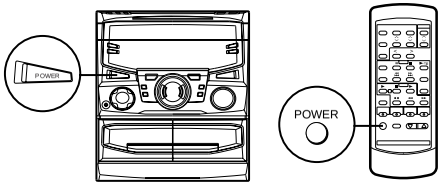
Rear speaker (Left) *Altavoz trasero (Izquierdo)*
Rear speaker (Right) *Altavoz trasero (Derecho)*
Center speaker *Altavoz central*
Front speaker (Left) *Altavoz delantero (Izquierdo)*
Front speaker (Right) *Altavoz delantero (Derecho)*
Sub woofer *Altavoz de subgraves*

■ **Antenna connection**
■ ***Conexión de las antenas***

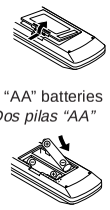


- AM Loop Antenna
- *Antena de cuadro de AM*
- FM Antenna
- *Antena de FM*
- AC 120 V, 60 Hz
- *120 V de CA, 60 Hz*

■ **Turning the power on and off**
■ ***Conexión y desconexión de la alimentación***

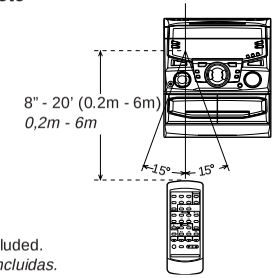


■ **Remote control**
■ ***Controlador remoto***

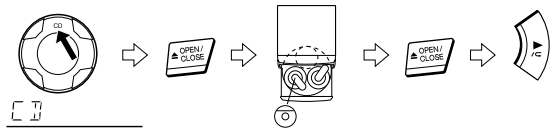


- 2 "AA" batteries
- *Dos pilas "AA"*
- Batteries are not included.
- *Las pilas no están incluidas.*

Remote Sensor
Sensor remoto



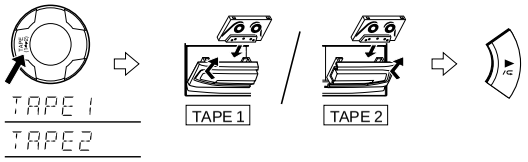
3 Listening to a CD / *Audición de discos CD*



- Label facing up
- *Etiqueta hacia arriba*

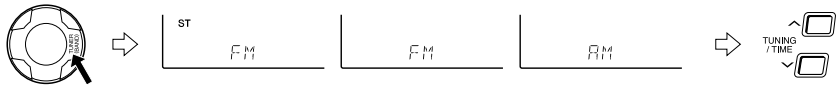
■ **To stop the playback**
■ ***Para detener la reproducción***

4 Listening to a tape / *Audición de una cinta*

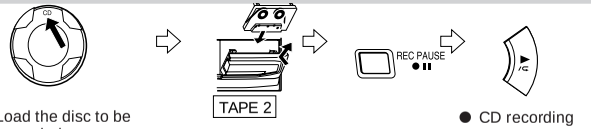


■ **To stop the playback**
■ ***Para detener la reproducción***

5 Listening to the radio / *Audición de la radio*



6 Recording from CDs / *Grabaciones de discos CD*

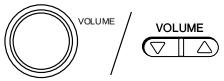


- Load the disc to be recorded.
- *Introduzca el disco que va a grabar.*
- CD recording starts.
- *La grabación de CD empieza.*

■ **To stop the playback**
■ ***Para detener la reproducción***

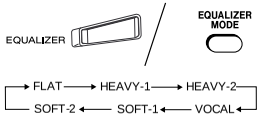
7 Sound control / *Control del sonldo*

■ **Volume**
■ ***Volumen***



■ **Sub woofer volume**
■ ***Volumen de subgraves***

■ **Pre-programmed equalizer**
■ ***Ecualizador preprogramado***



■ **Extra bass (X-BASS)**
■ ***Graves extra (X-BASS)***

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.

CD-PC672

STEP	R EMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	9-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x8	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook ..... (C1) x3 3. Hook ..... (C2) x2 4. Socket ..... (C3) x3 5. Screw ..... (C4) x2	9-2
4	Back Board (with Digital Output PWB)	1. Screw ..... (D1) x6 2. Socket ..... (D2) x1	9-2
5	Main PWB	1. Socket ..... (E1) x2 2. Flat Cable ..... (E2) x1 3. Flat Wire ..... (E3) x1	10-1
6	Power PWB	1. Screw ..... (F1) x4 2. Socket ..... (F2) x4 3. Holder PWB ..... (F3) x5	10-1
7	Front Panel	1. Screw ..... (G1) x2	10-1
8	Display PWB/ Switch PWB Headphones PWB	1. Screw ..... (H1) x13 2. Support Bracket ..... (H2) x1	10-2
9	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (J1) x6 3. Socket ..... (J2) x1	10-2
10	Turntable	1. Screw ..... (K1) x1 2. Cover ..... (K2) x1	10-3
11	Disc Tray	1. Screw ..... (L1) x2 2. Guide ..... (L2) x2	10-3
12	CD Servo PWB (Note 2)	1. Screw ..... (M1) x1 2. Socket ..... (M2) x4	10-4
13	CD Changer Mechanism	1. Screw ..... (N1) x4	10-5
14	CD Mechanism	1. Screw ..... (P1) x1	10-5

Note 1:

How to open the changer manually. (Fig. 9-3)

1. Change, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

Note 2:

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

CD-PC672

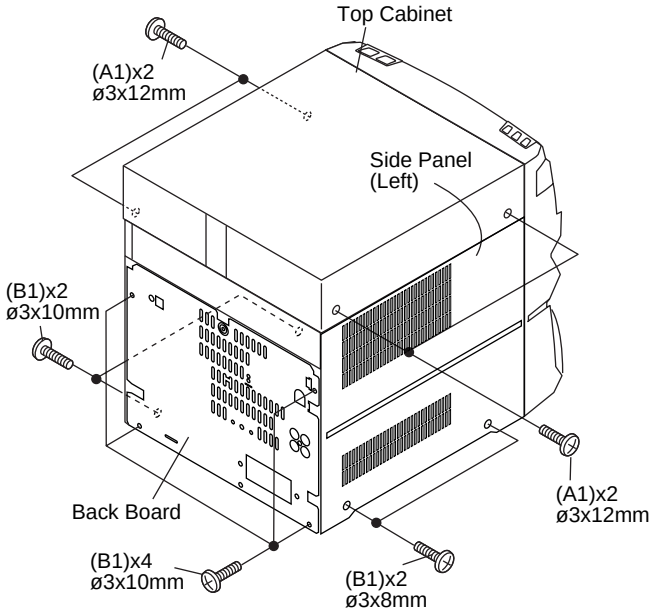


Figure 9-1

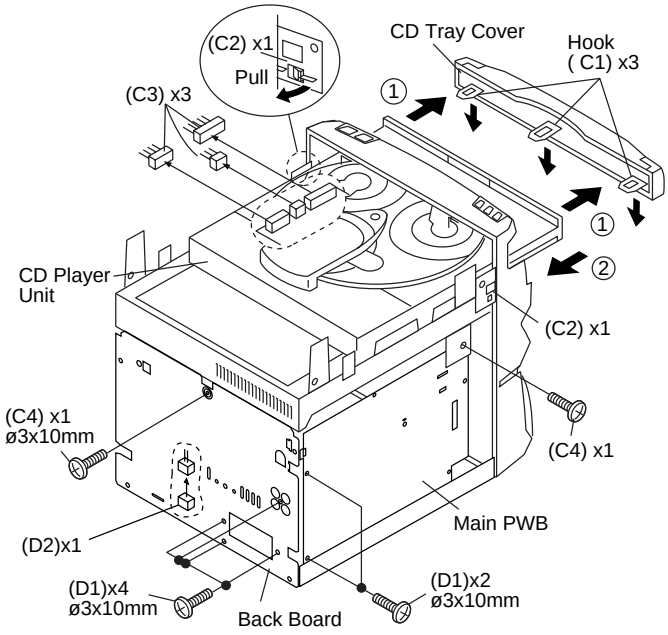


Figure 9-2

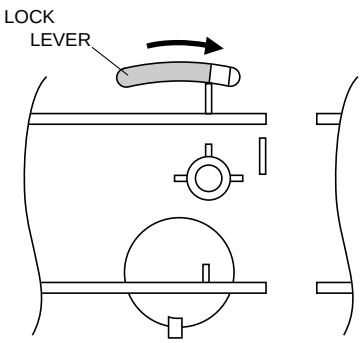


Figure 9-3

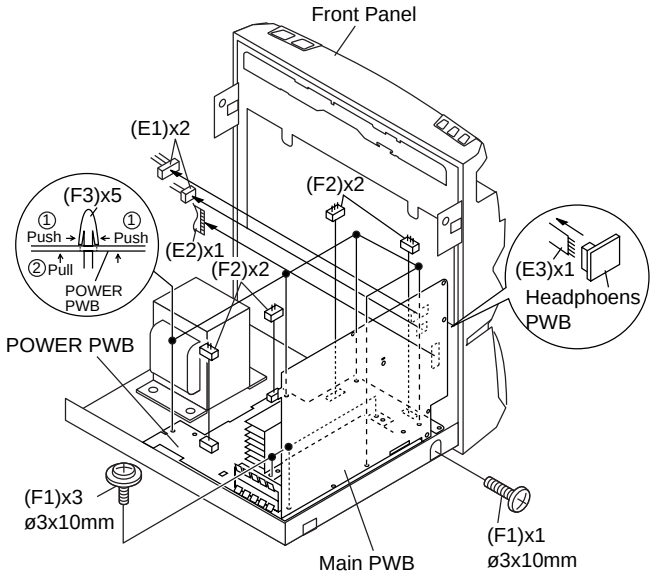


Figure 10-1

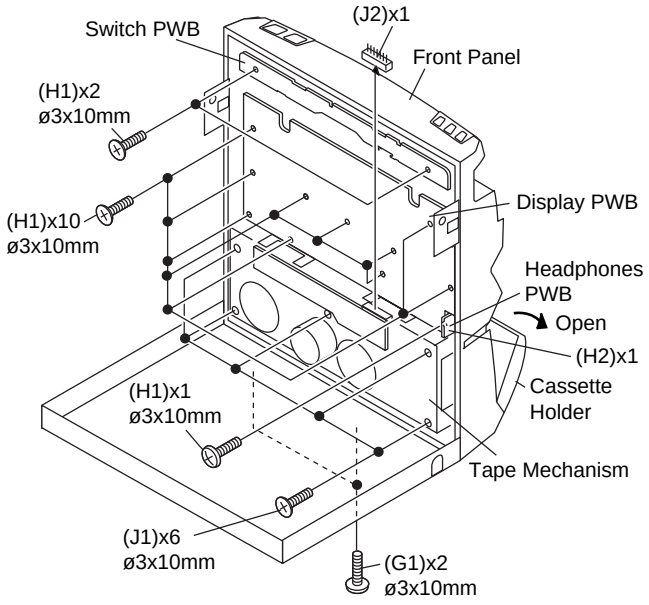


Figure 10-2

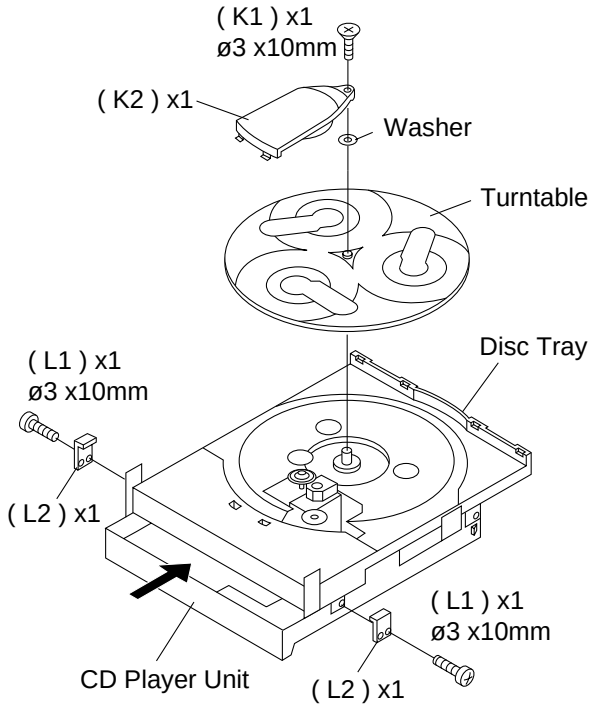


Figure 10-3

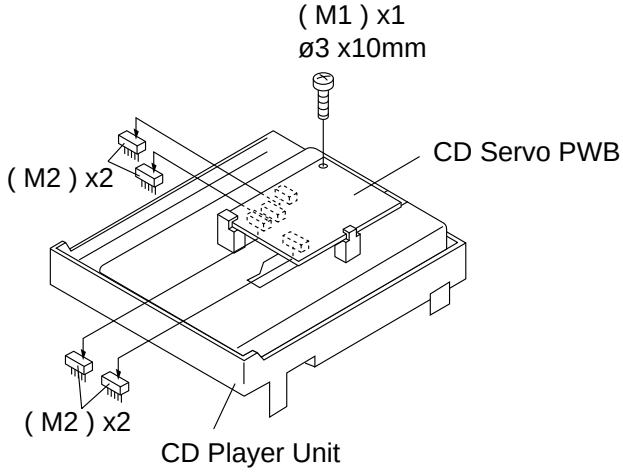
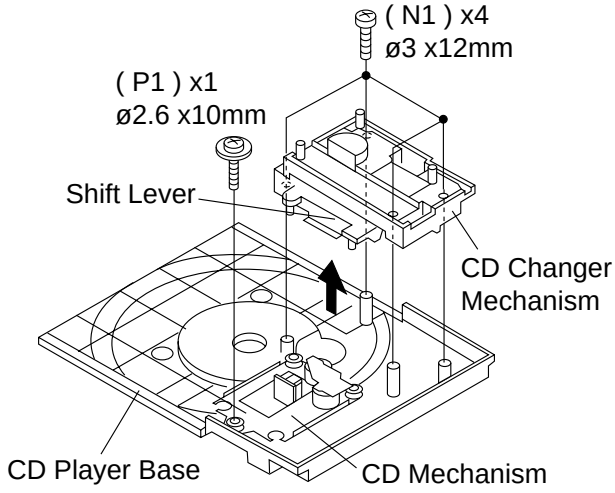


Figure 10-4



Be careful when installing the CD changer mechanism. Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 10-5

CP-C672

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Net ..... (A1) x1 2. Front Panel ..... (A2) x1 3. Screw ..... (A3) x4 4. Tip ..... (A4) x2 5. Screw ..... (A5) x2 6. Tip ..... (A6) x2	11-1

CP-C672

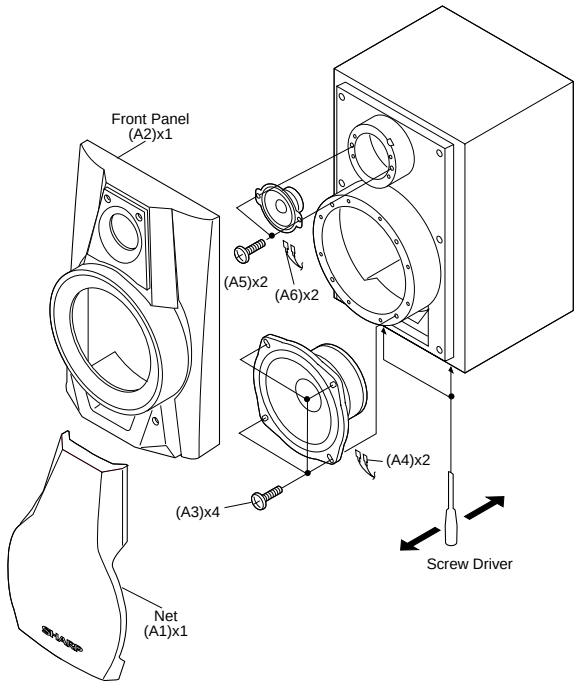


Figure 11-1

CP-SW672

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Net ..... (A1) x1 2. Duct Panel ..... (A2) x1 3. Screw ..... (A3) x4	11-2

Note:
The rear speakers and center speaker can be easily disassembled.
Therefore the disassembling method is not discribed.
For details refer to the disassembling drawing in the Parts Guide.

CP-SW672

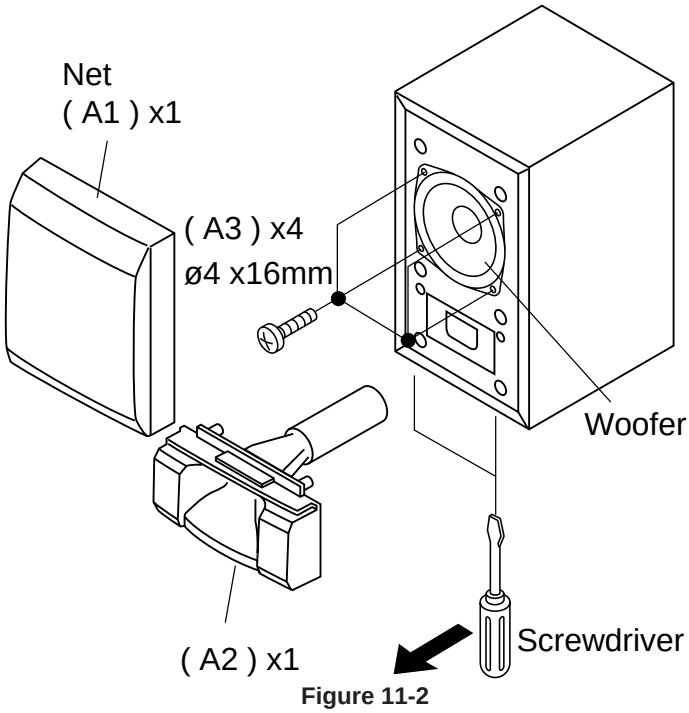


Figure 11-2

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3 and 10-14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 12-1)

1. Remove the screws (A1) x 2 pcs., to remove the loading motor.

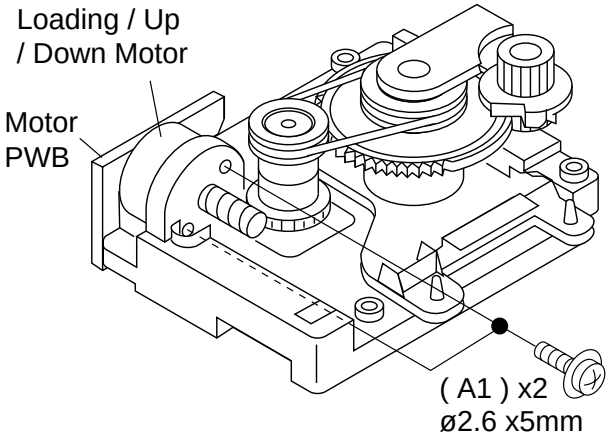


Figure 12-1

How to remove the pickup (See Fig. 12-2)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

Note

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

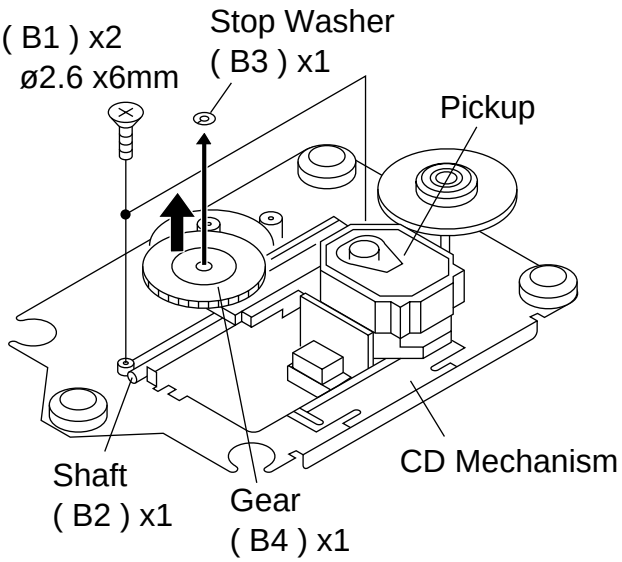


Figure 12-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

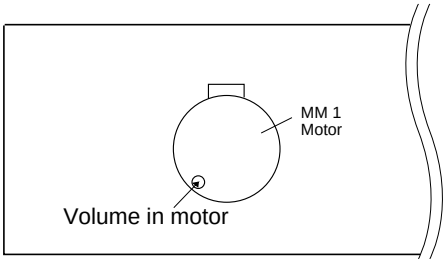
• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 60 g.cm
Fast forward: TW-2231	—	60 to 120 g.cm
Rewind: TW-2231	—	60 to 120 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Volume in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 8 ohms)

TAPE MECHANISM

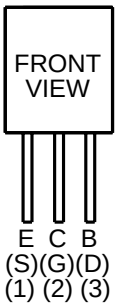


NOTES ON SCHEMATIC DIAGRAM

- 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 “ ⚠ ” (⊏ ═ ═ ═ ⊐) 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.

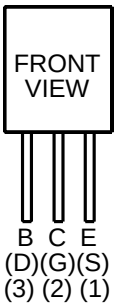
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW703	CLOCK	ON—OFF
SW704	TIMER/SLEEP	ON—OFF
SW705	DISC 1	ON—OFF
SW706	DISC 2	ON—OFF
SW707	DISC 3	ON—OFF
SW708	DISC SKIP	ON—OFF
SW709	OPEN/CLOSE	ON—OFF
SW710	REW	ON—OFF
SW711	REC PAUSE	ON—OFF
SW712	MEMORY/SET	ON—OFF
SW713	STOP	ON—OFF
SW714	TUNER/BAND	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW715	VIDEO	ON—OFF
SW716	TAPE	ON—OFF
SW717	CD	ON—OFF
SW722	FF	ON—OFF
SW723	TUNING UP	ON—OFF
SW724	TUNING DOWN	ON—OFF
SW725	PLAY	ON—OFF
SW728	X-BASS/DEMO	ON—OFF
SW729	EQUALIZER	ON—OFF
SW730	DIMMER	ON—OFF
SW731	PHANTON	ON—OFF
SW732	NORMAL	ON—OFF
SW733	BYPASS	ON—OFF
SWM 3	FOOL PROOF	ON—OFF
SWM 4	F.A.S.	ON—OFF

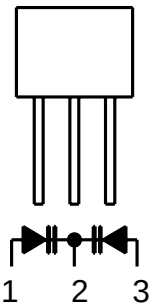


KRA102 M
KRA109 M
KRC102 M
KRC104 M
KRC107 M
KTA1266 GR
KTA1271 Y

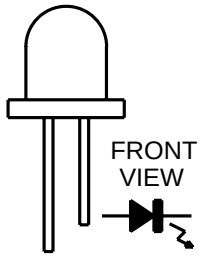
KTA1273 Y
KTC3203 Y
KTC3194 Y
KTC3199 GR
2SC2389 SE
KTA1274 Y



2SA1318



SVC211C
SVC348S



L1154GT4
SLI342YCB
SLI342DCB
SLI342UCB
SLI342YCJ
SLI3256YC
SLI342UCJ1

Figure 16 TYPES OF TRANSISTOR AND LED

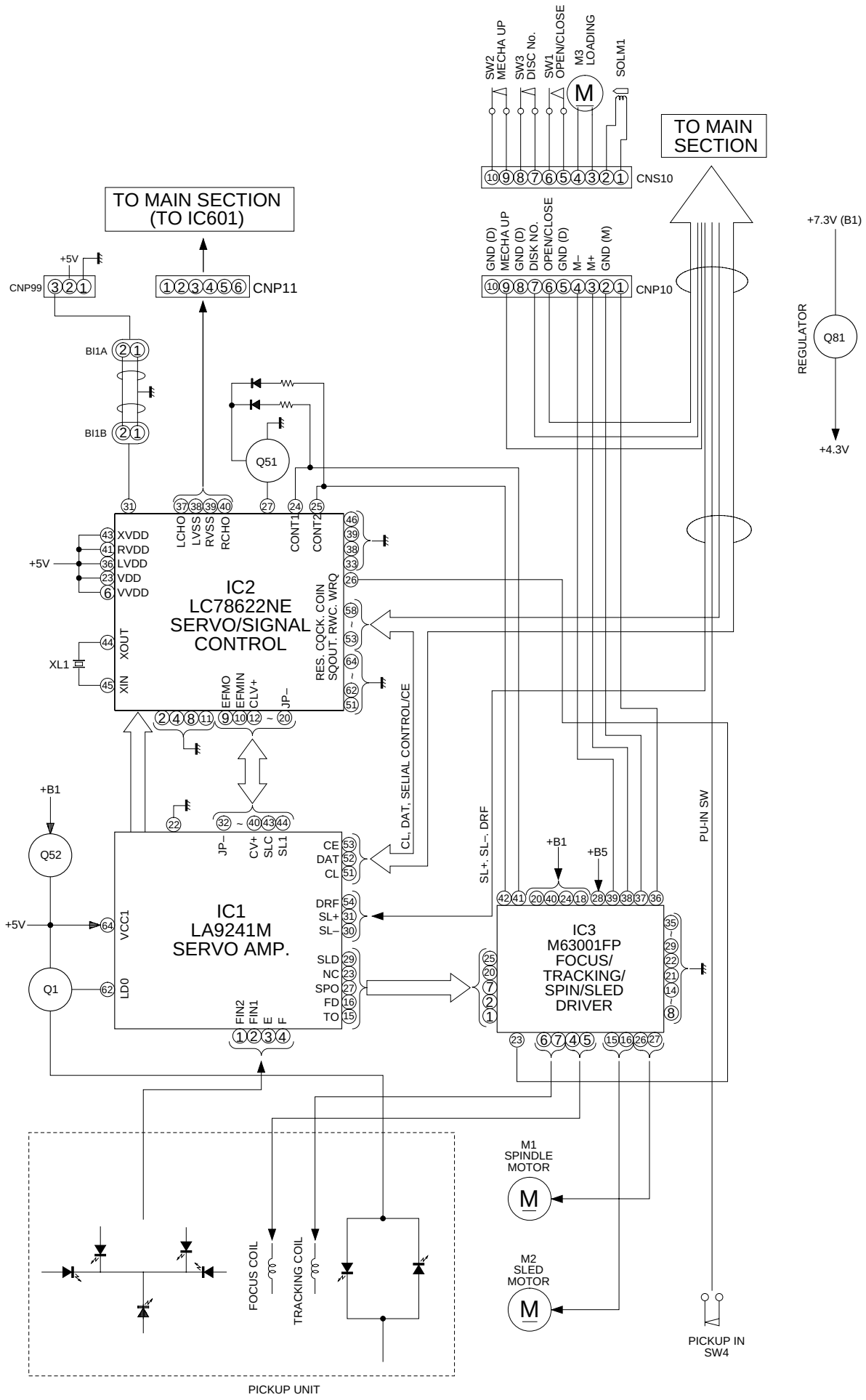


Figure 17 BLOCK DIAGRAM (1/3)

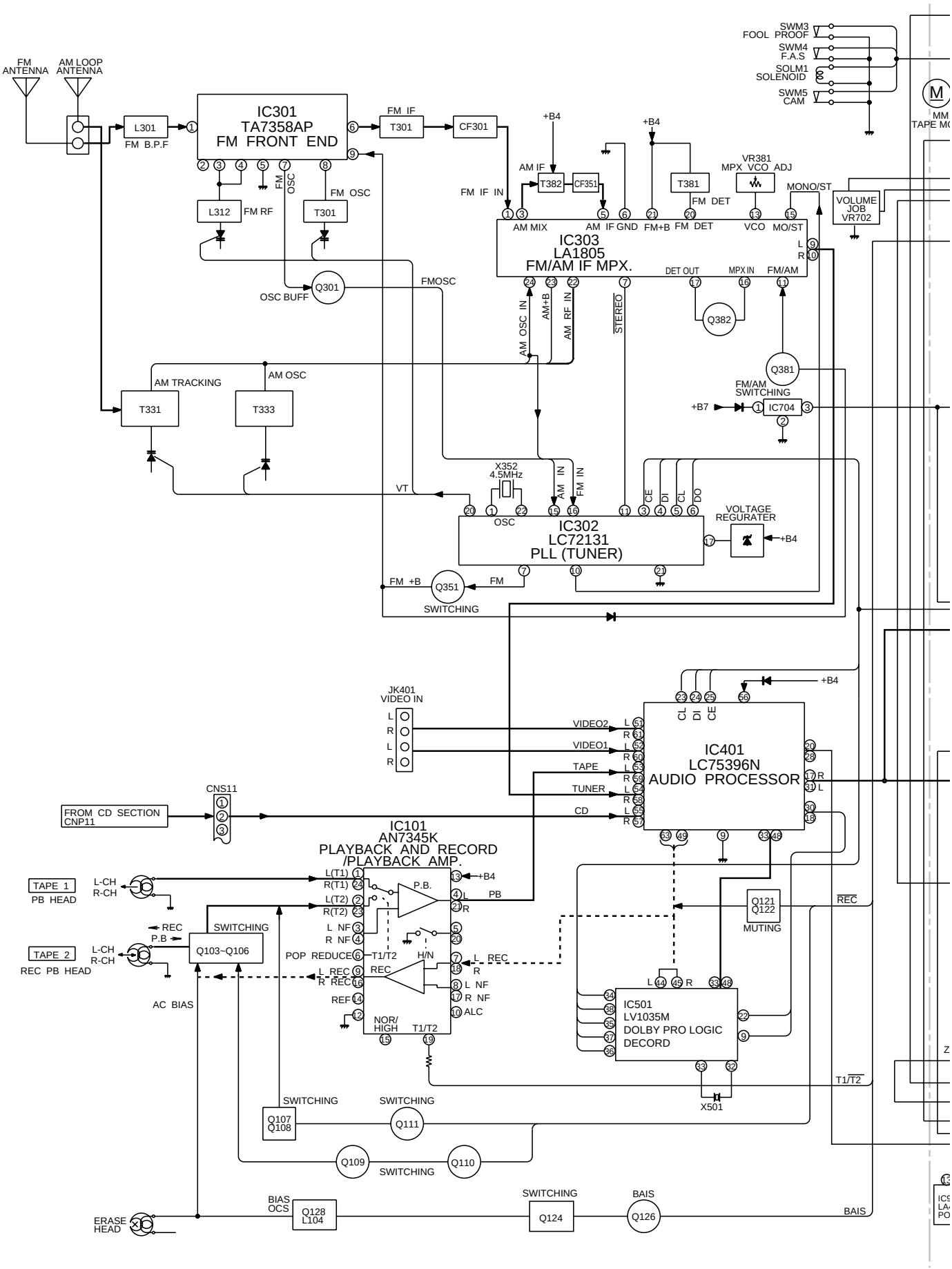


Figure 18 BLOCK DIAGRAM (2/3)

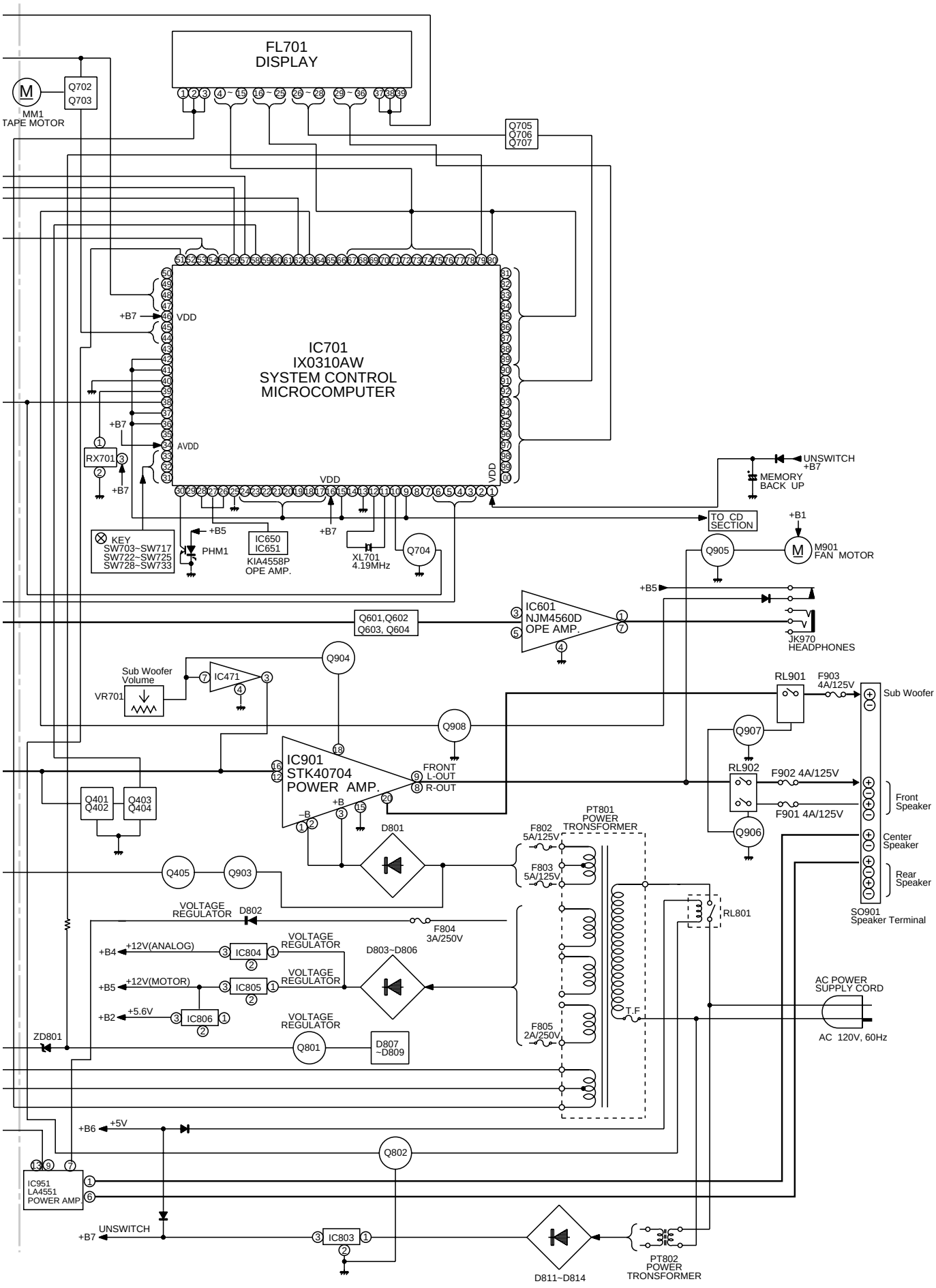
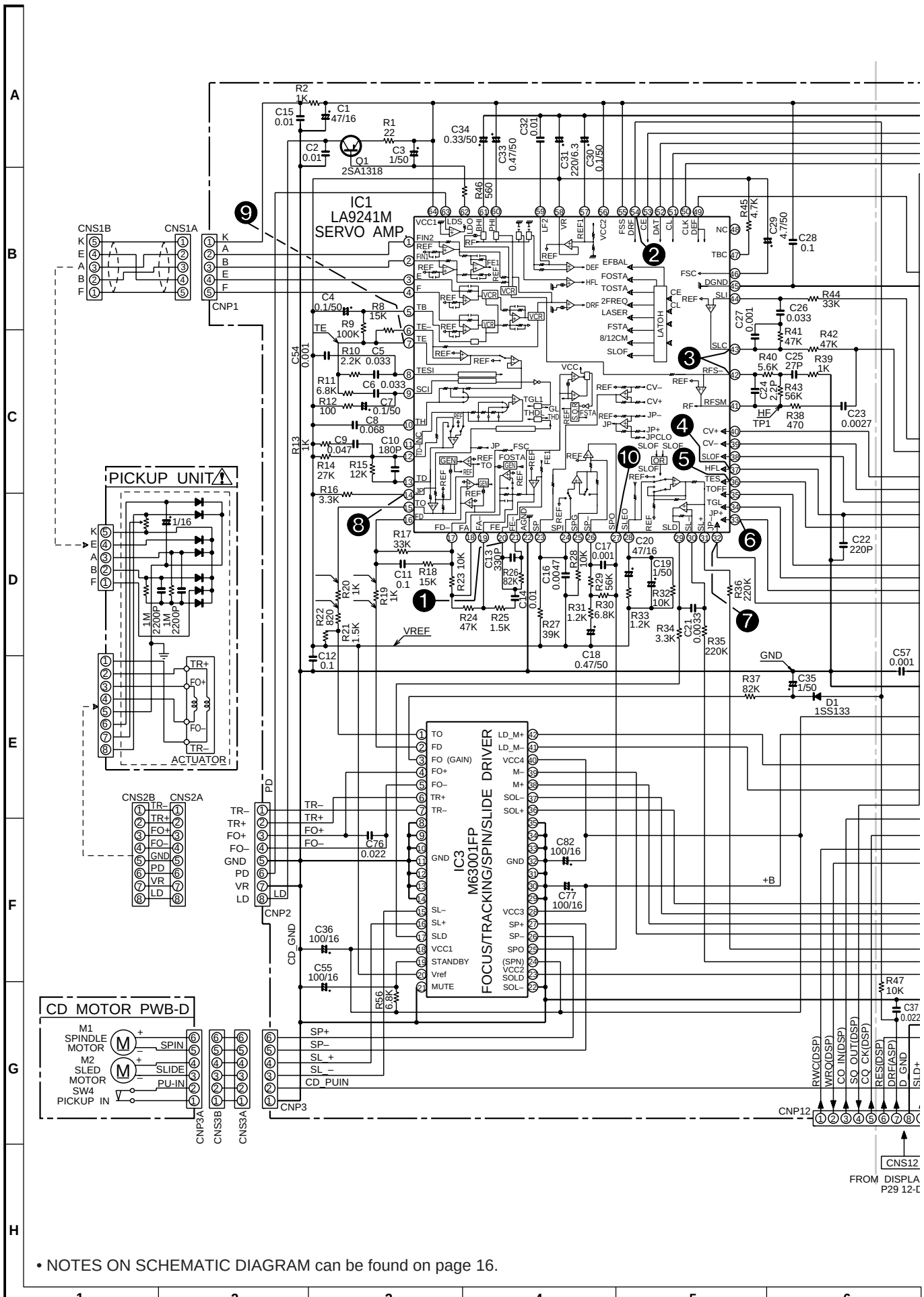
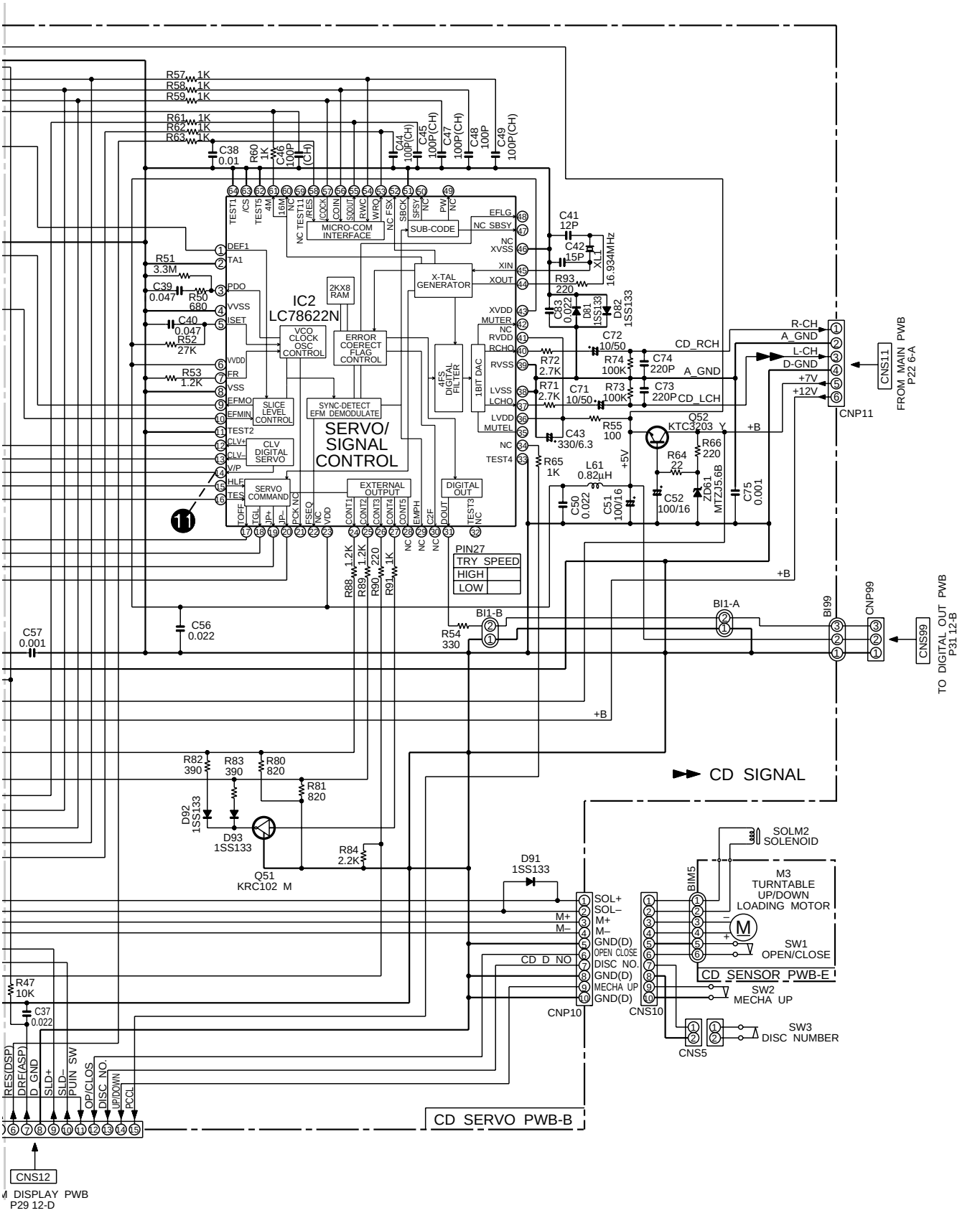


Figure 19 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

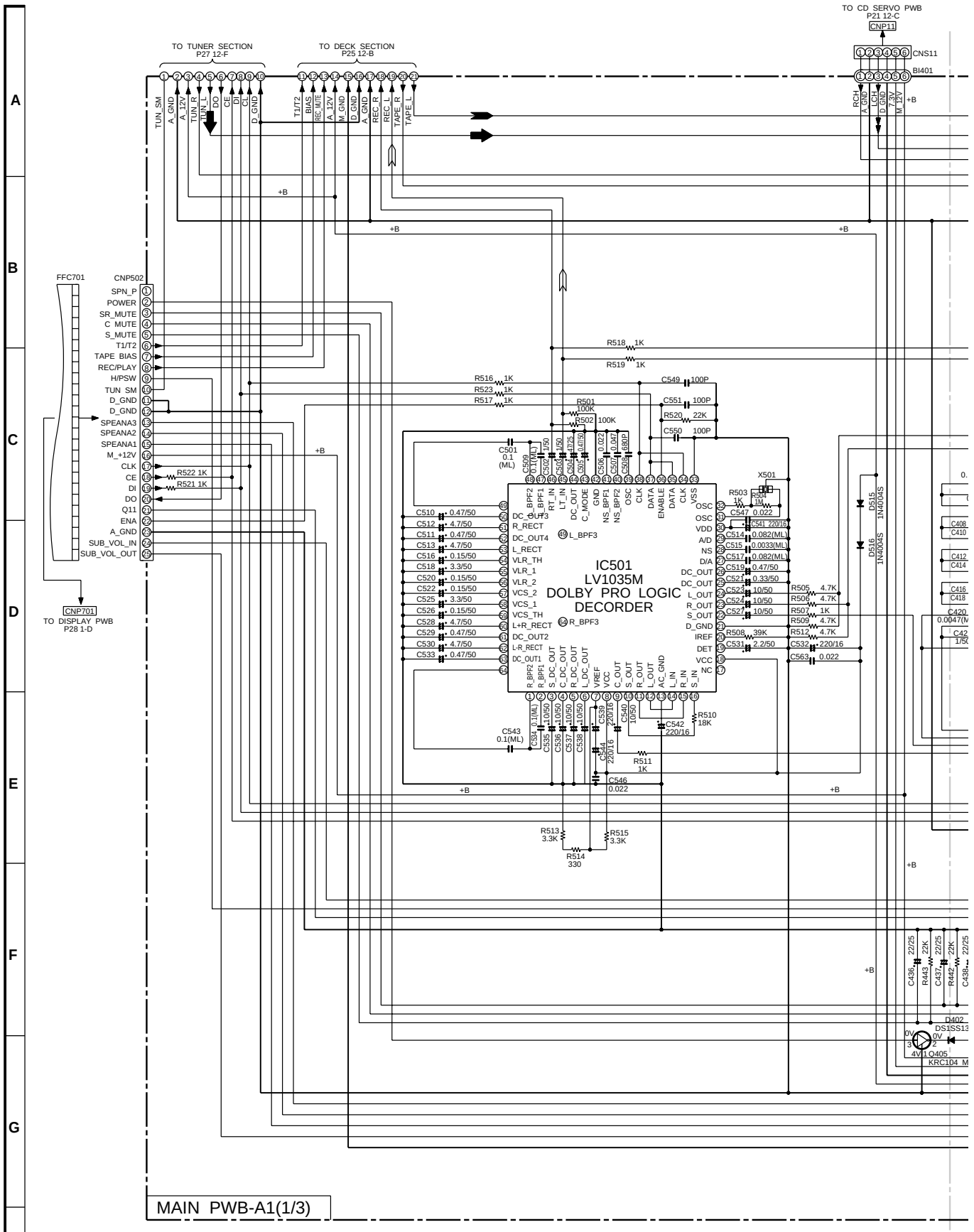
Figure 20 SCHEMATIC DIAGRAM (1/12)



• The numbers ❶ to ⓬ are waveform numbers shown in page 41.

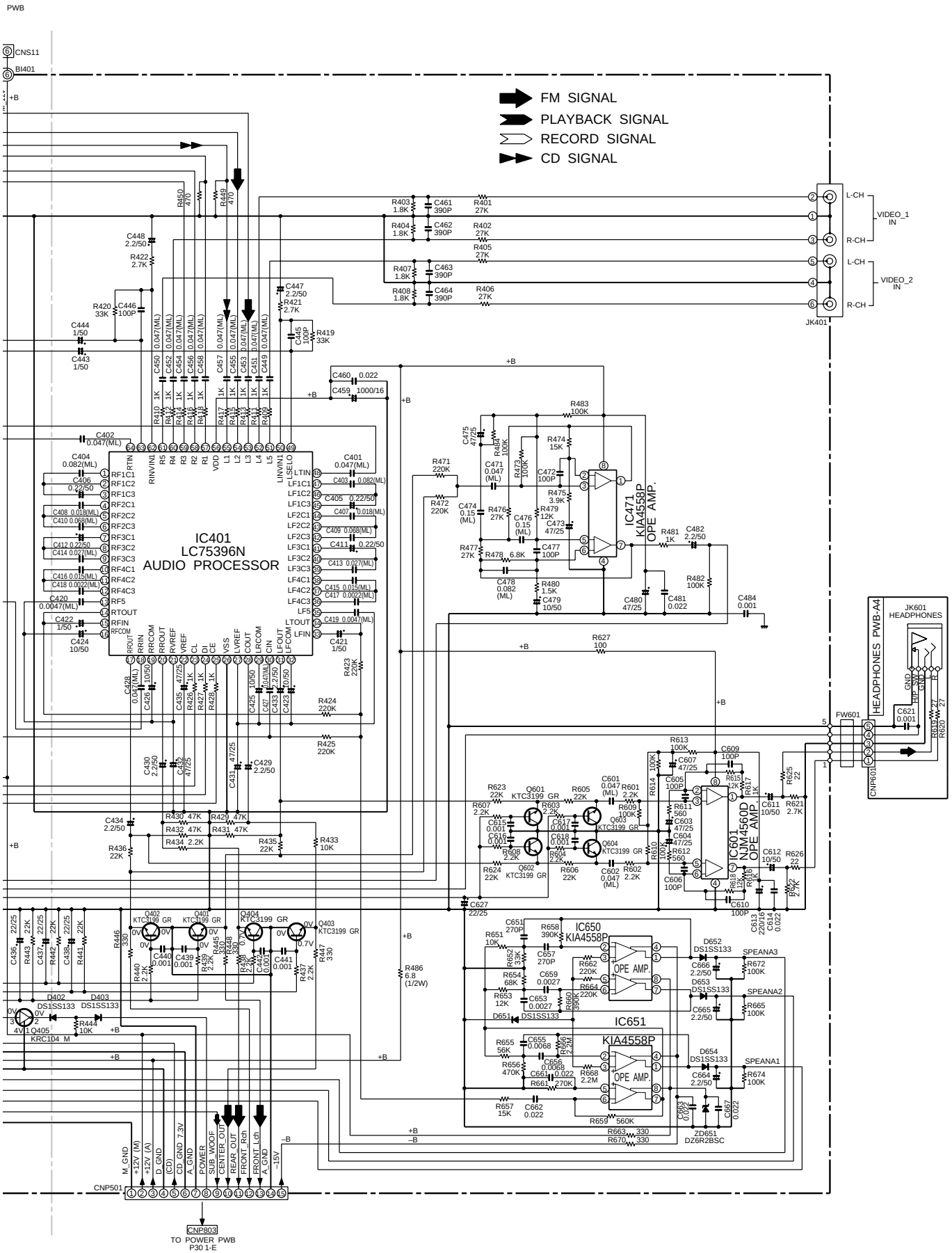
7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (2/12)



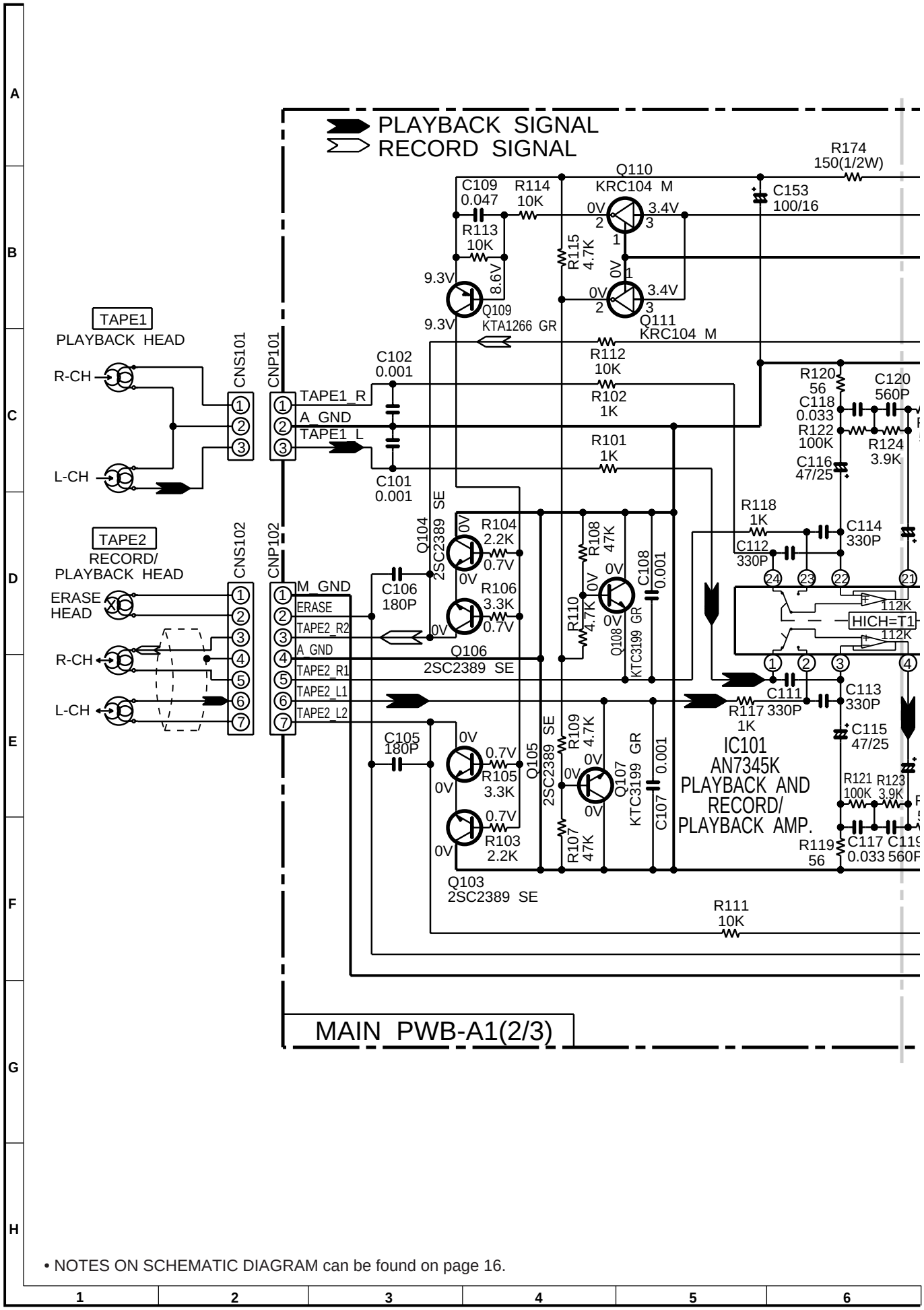
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 22 SCHEMATIC DIAGRAM (3/12)



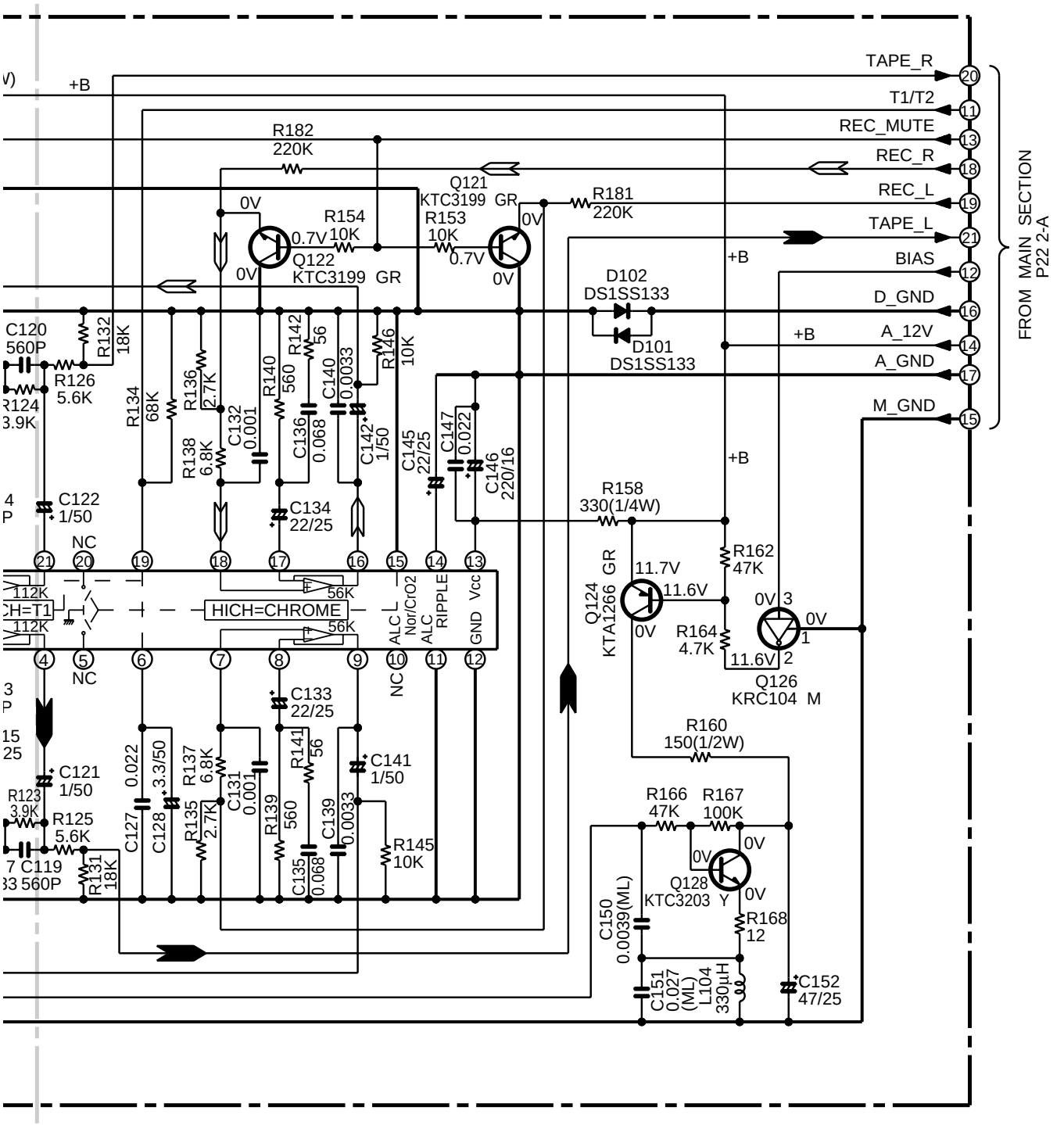
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (4/12)



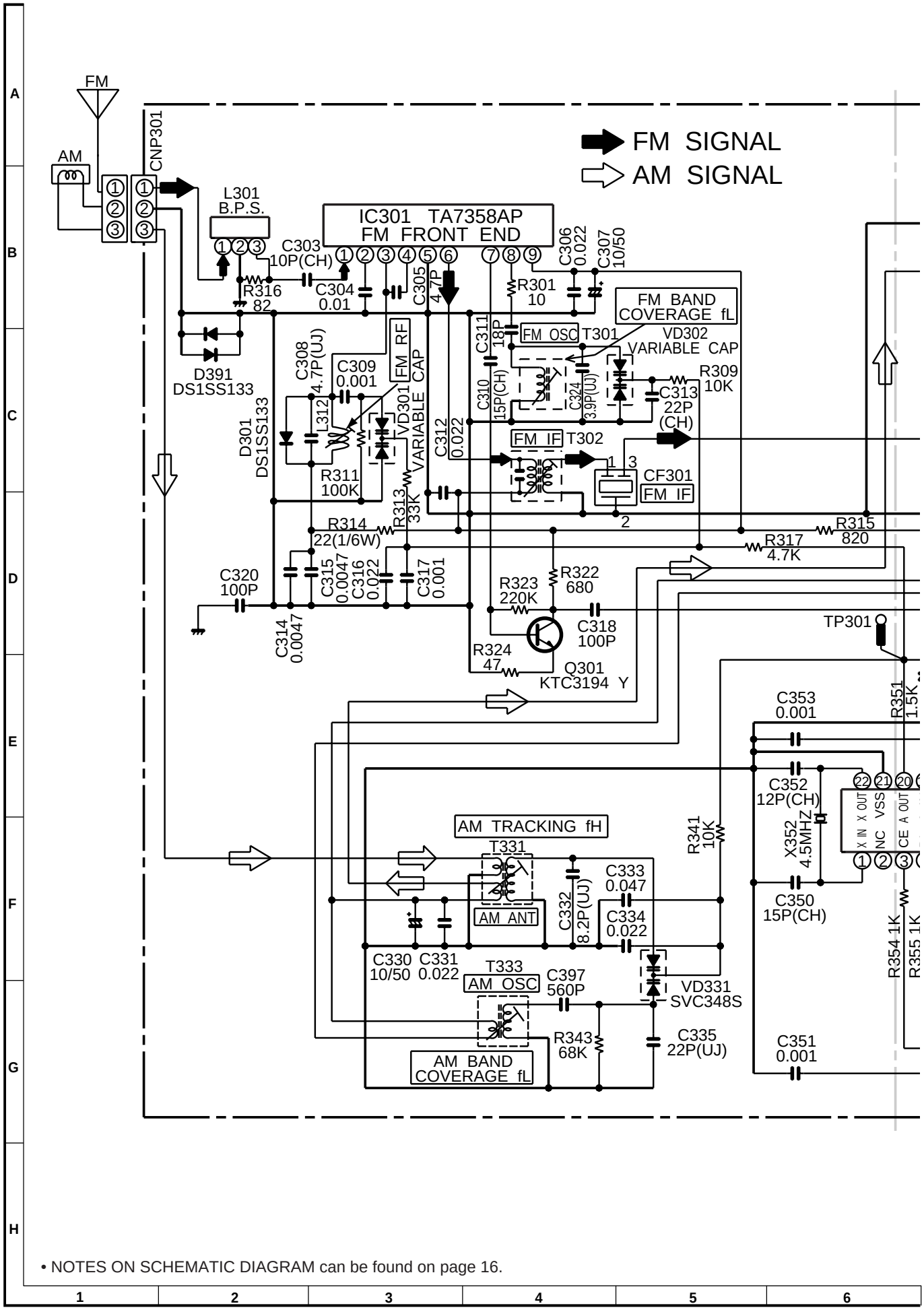
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 24 SCHEMATIC DIAGRAM (5/12)



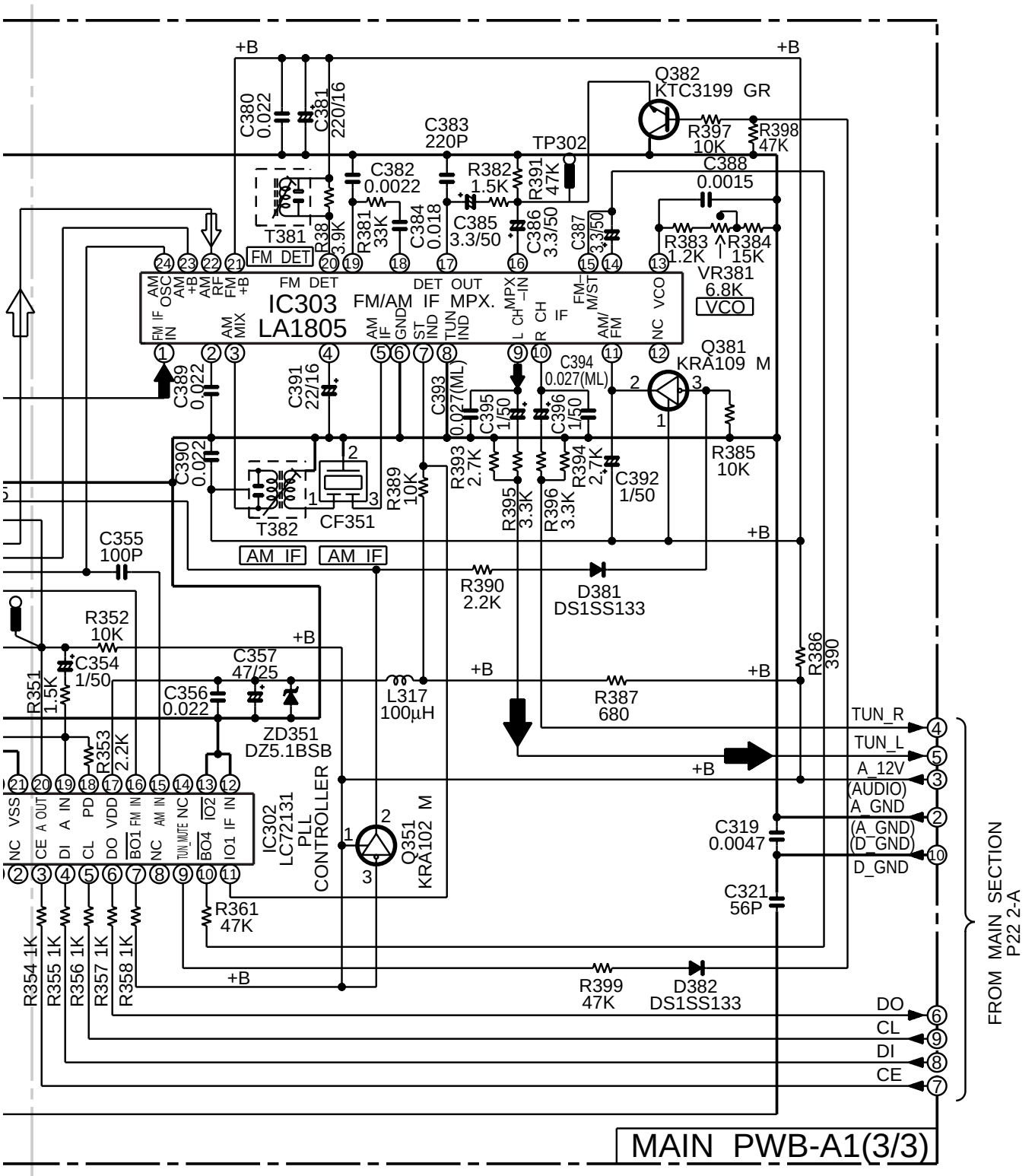
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (6/12)



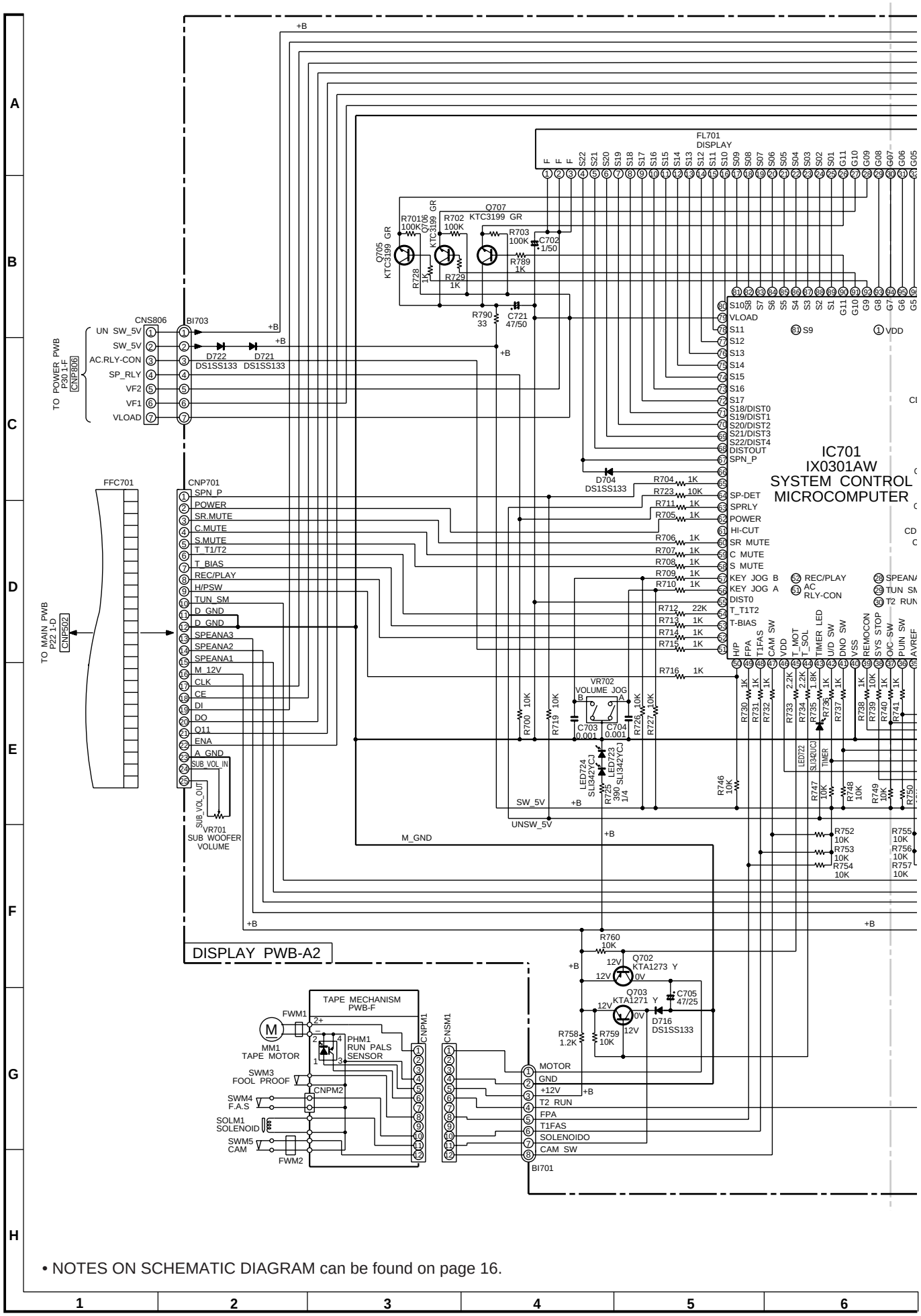
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 26 SCHEMATIC DIAGRAM (7/12)



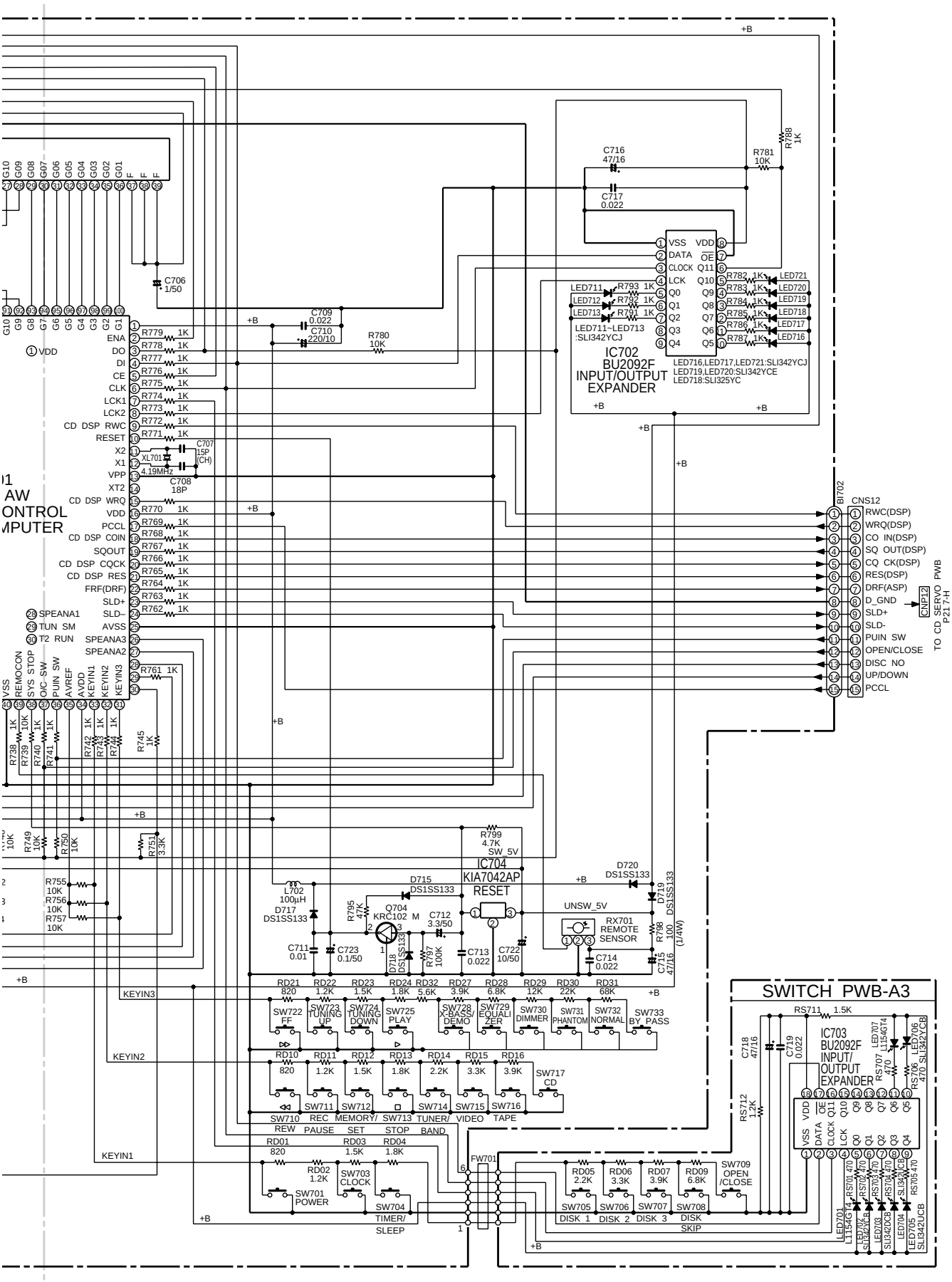
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (8/12)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 28 SCHEMATIC DIAGRAM (9/12)



7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (10/12)

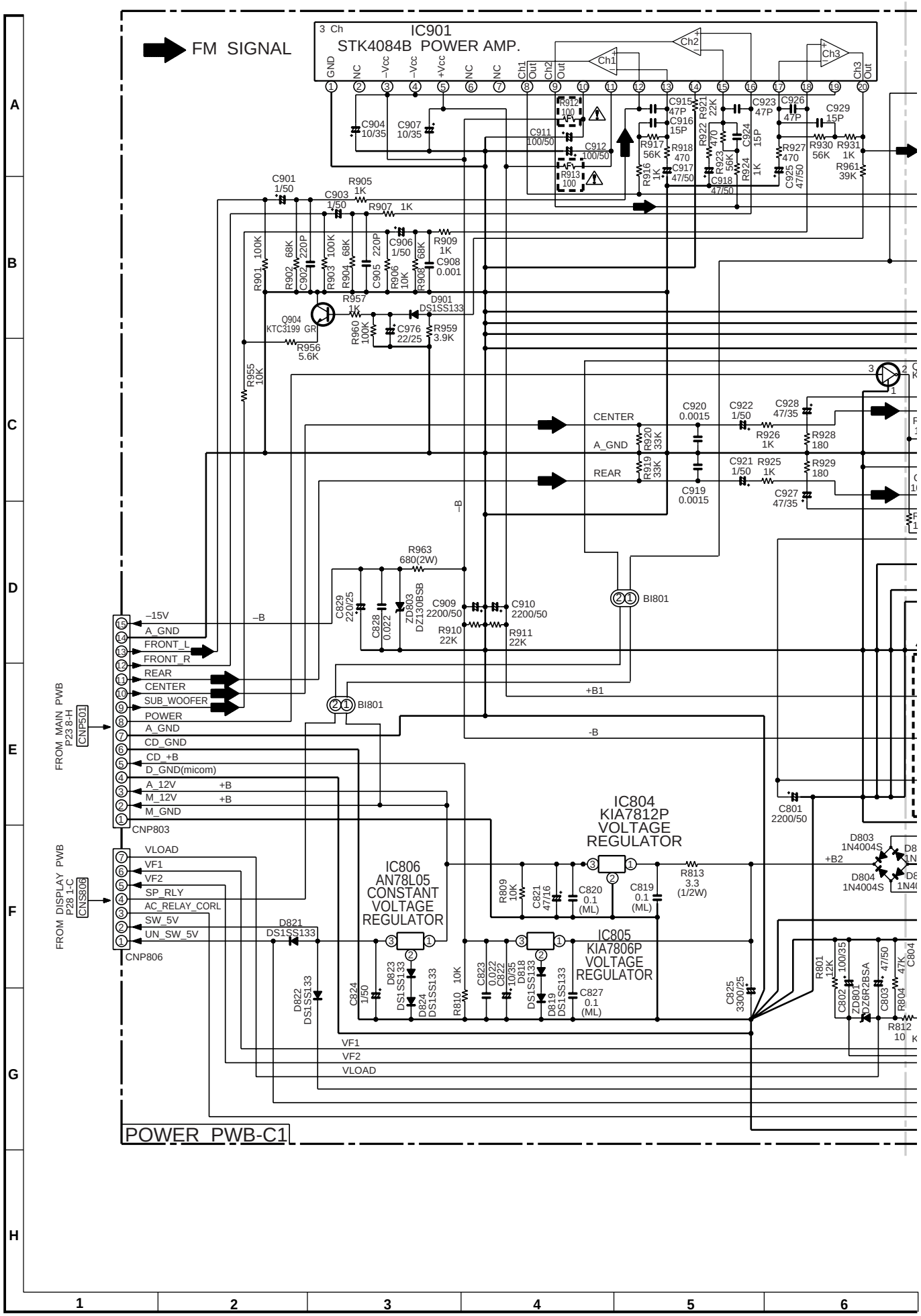
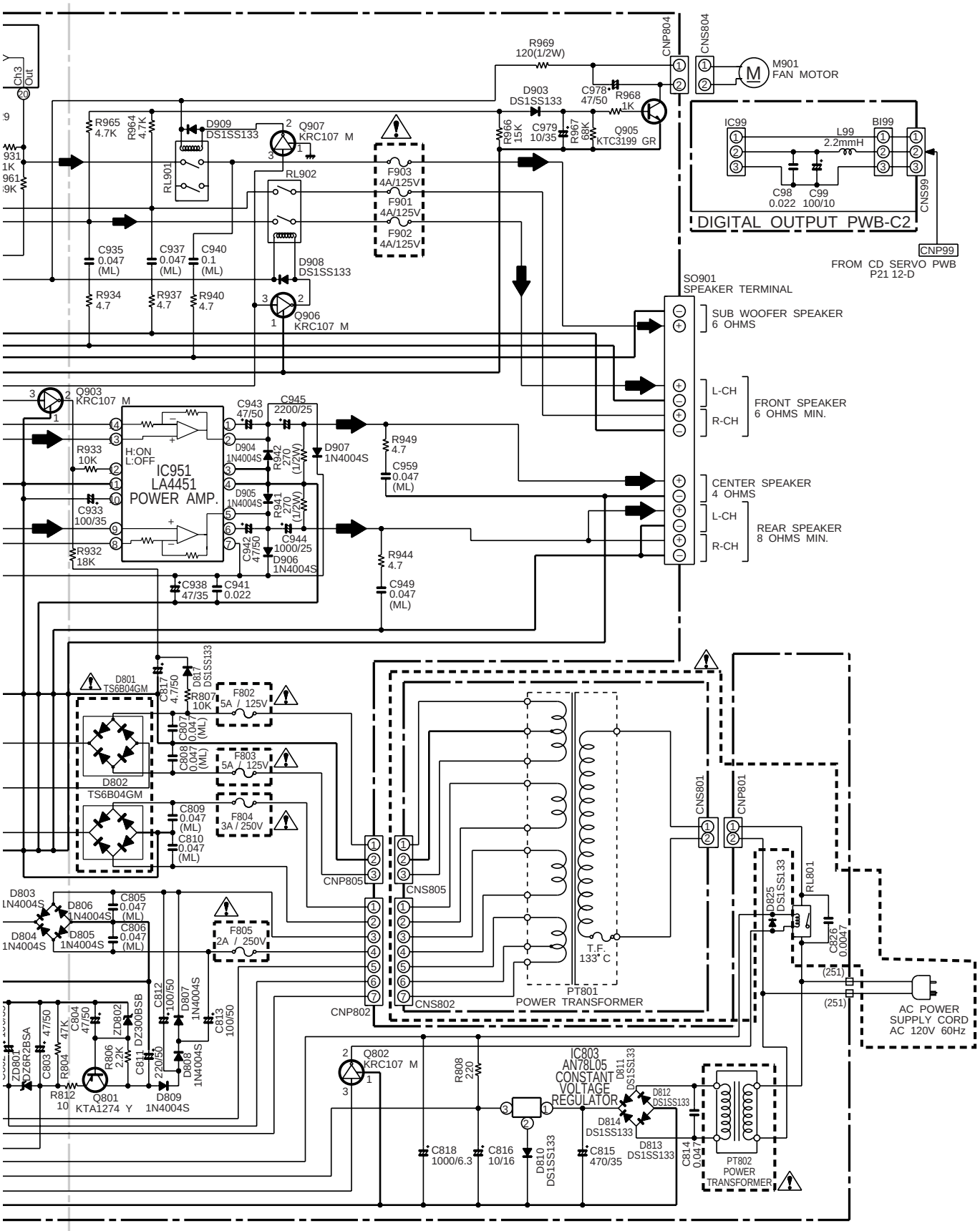


Figure 30 SCHEMATIC DIAGRAM (11/12)



7	8	9	10	11	12

Figure 31 SCHEMATIC DIAGRAM (12/12)

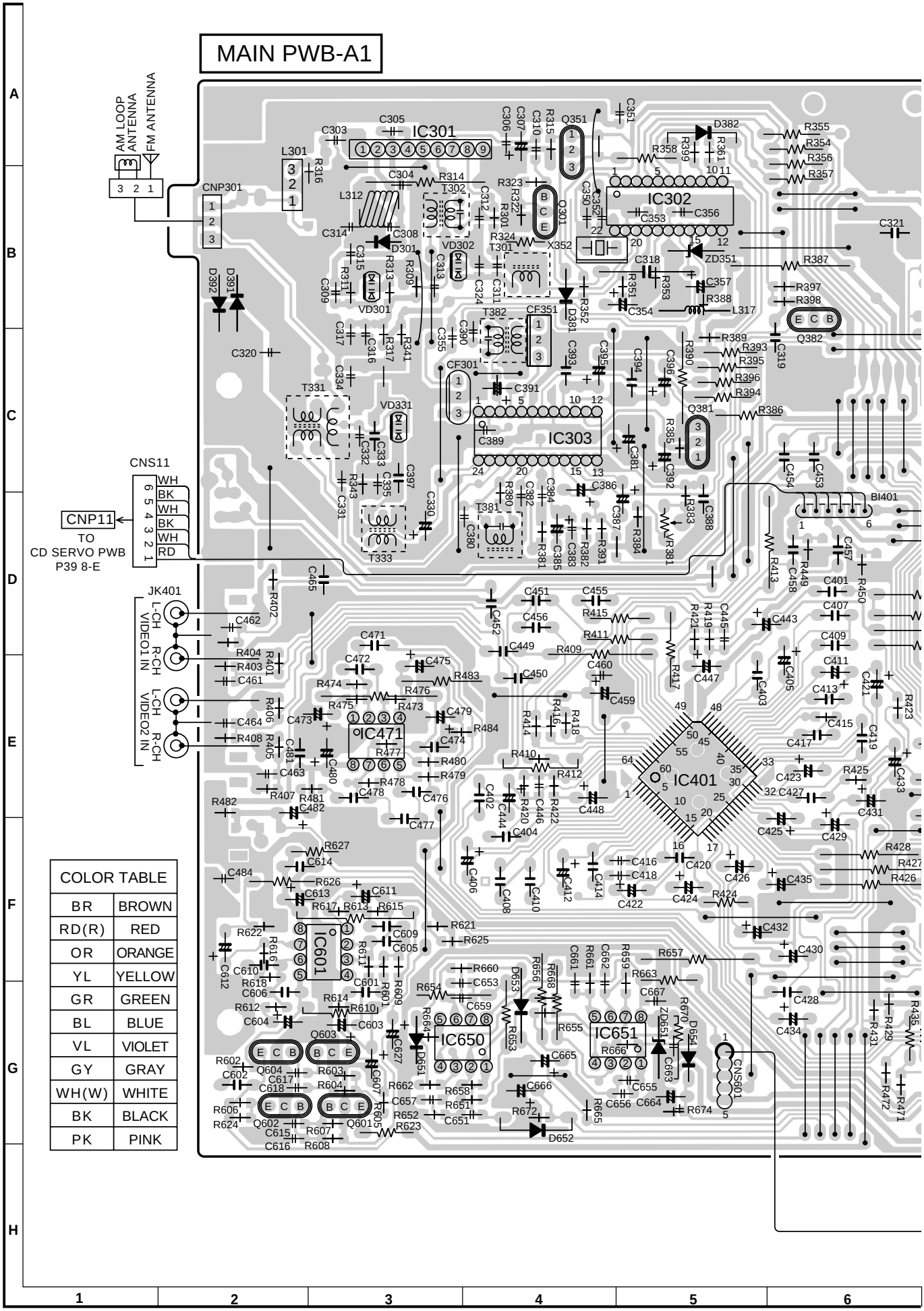
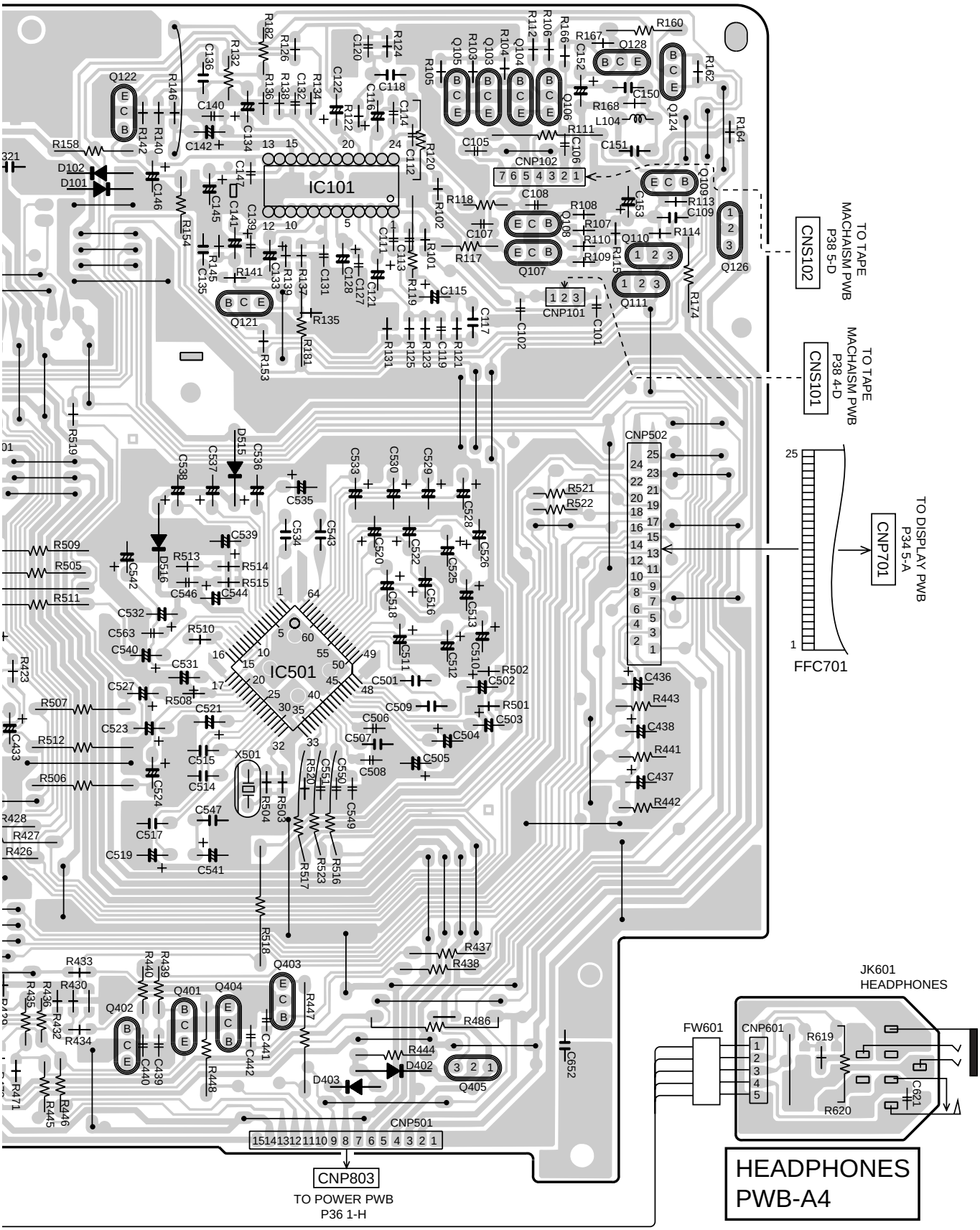


Figure 32 WIRING SIDE OF P.W.BOARD (1/8)



7	8	9	10	11	12

Figure 33 WIRING SIDE OF P.W.BOARD (2/8)

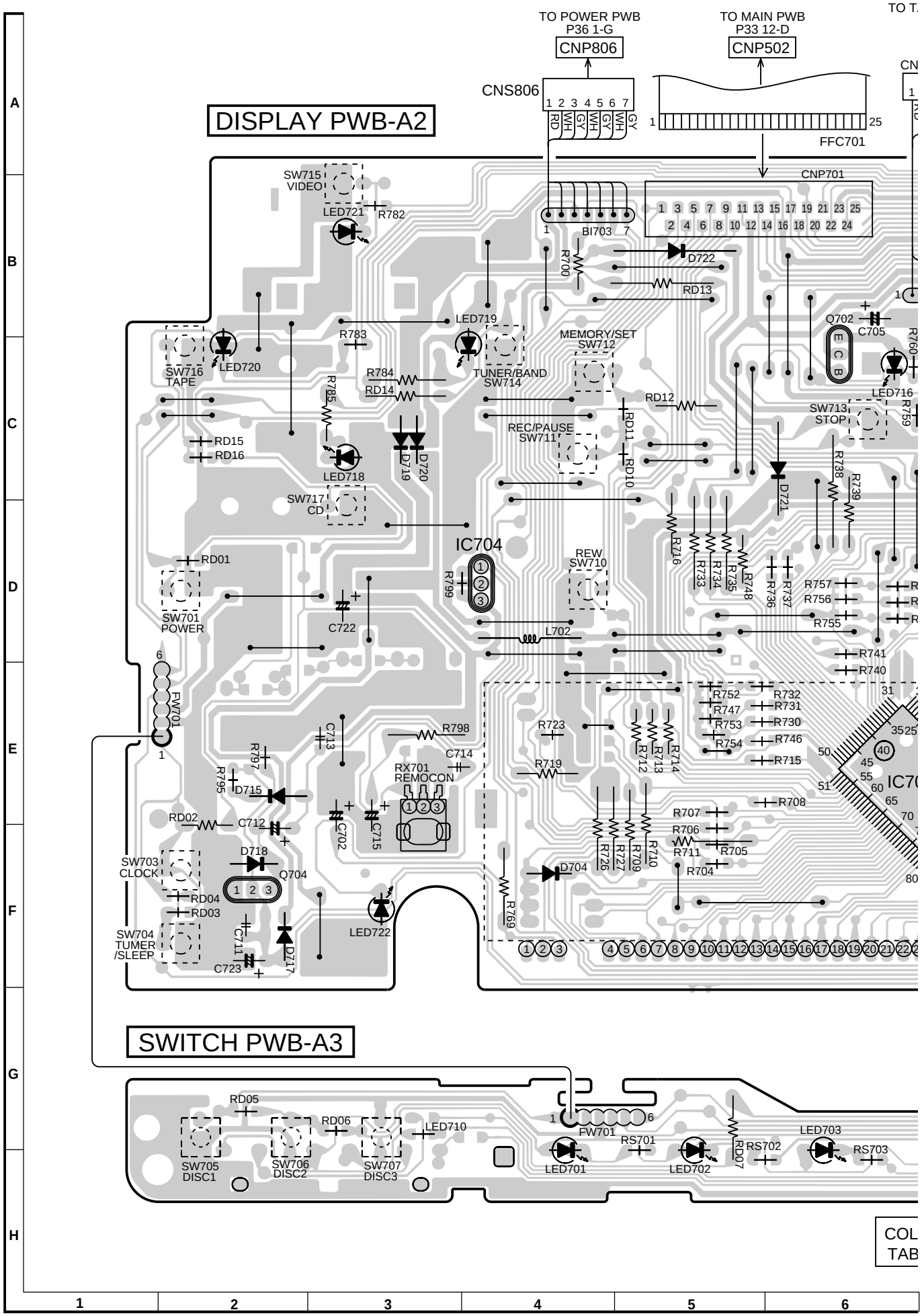
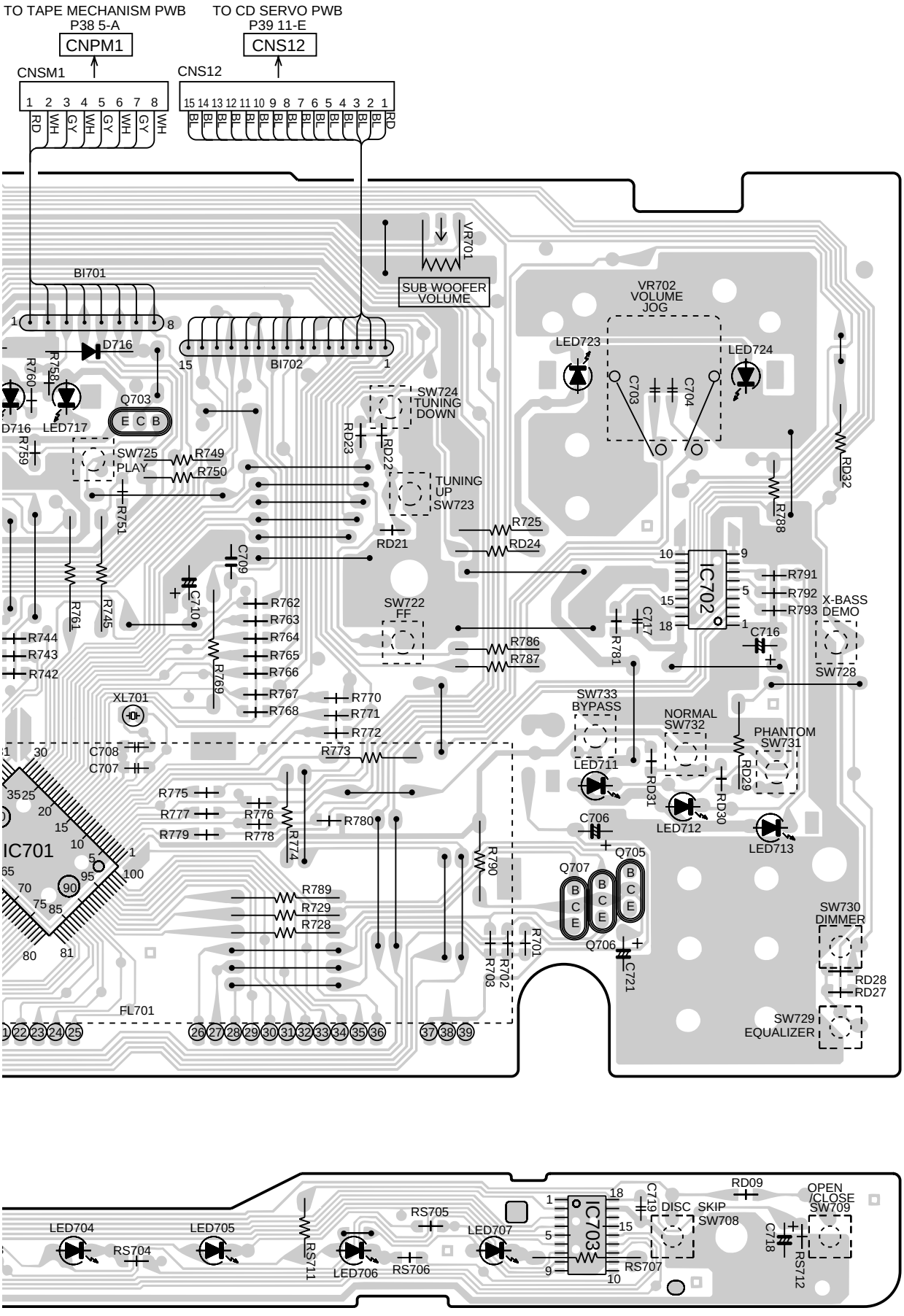


Figure 34 WIRING SIDE OF P.W.BOARD (3/8)



COLOR TABLE	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK

7	8	9	10	11	12

Figure 35 WIRING SIDE OF P.W.BOARD (4/8)

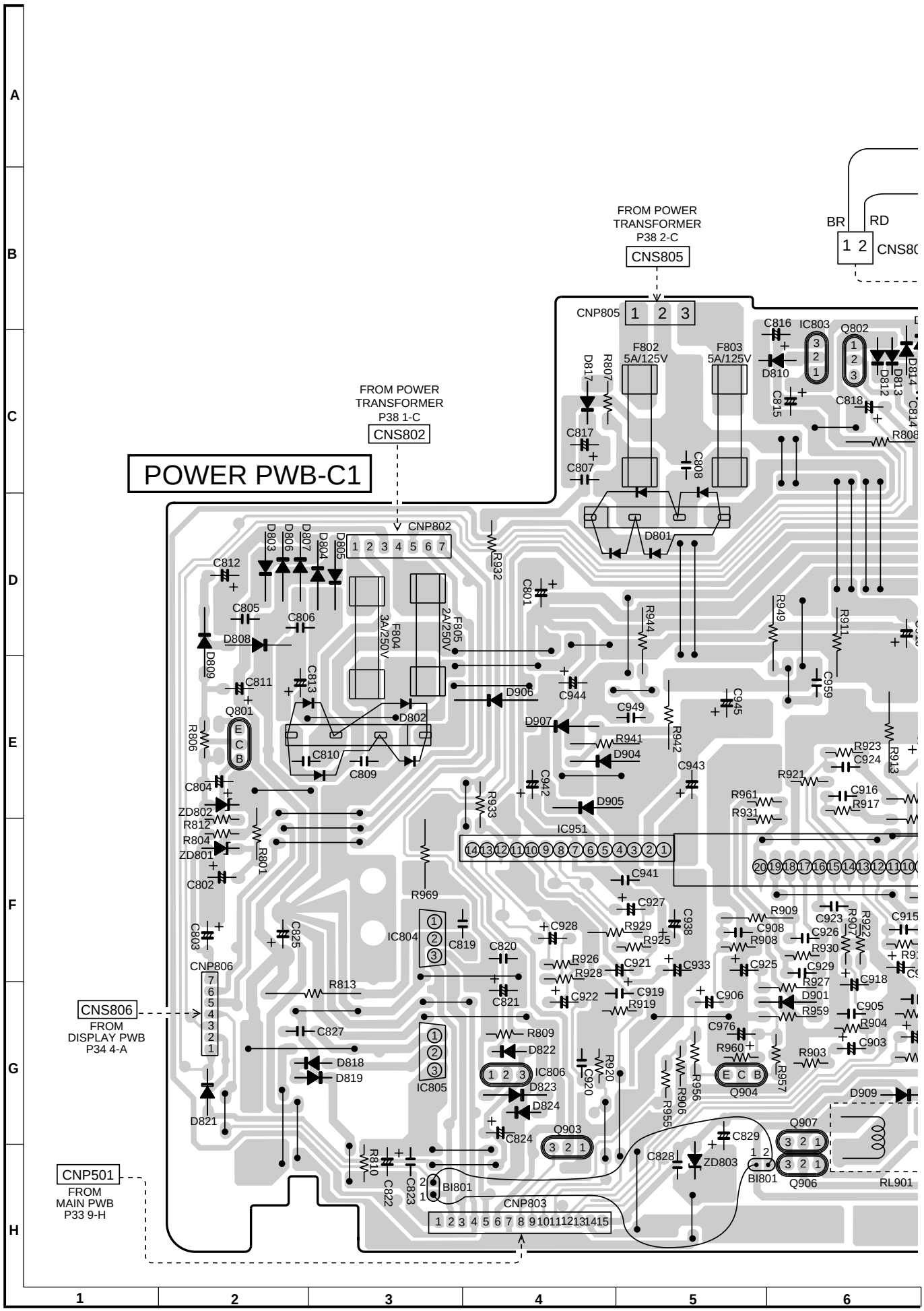
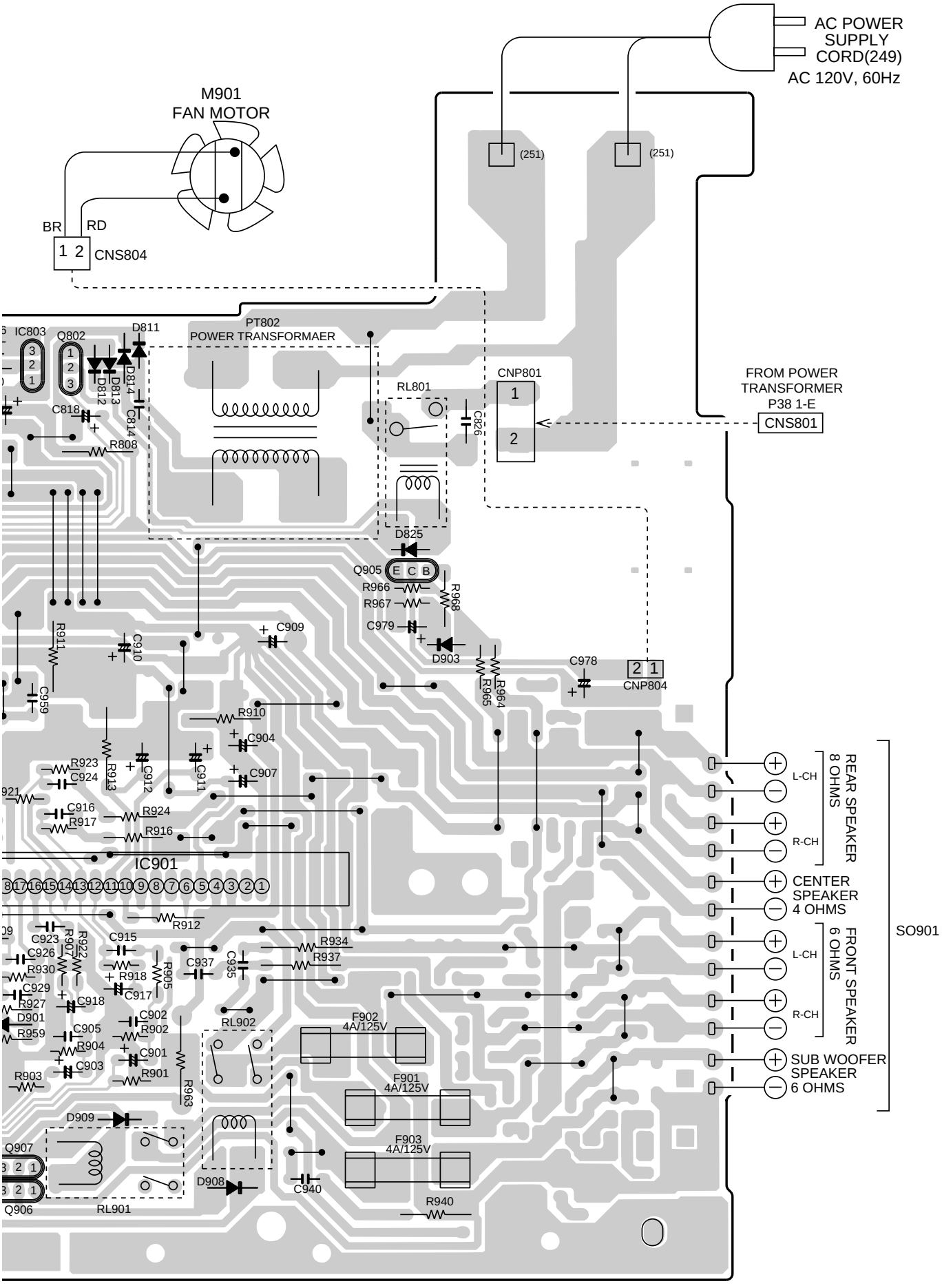
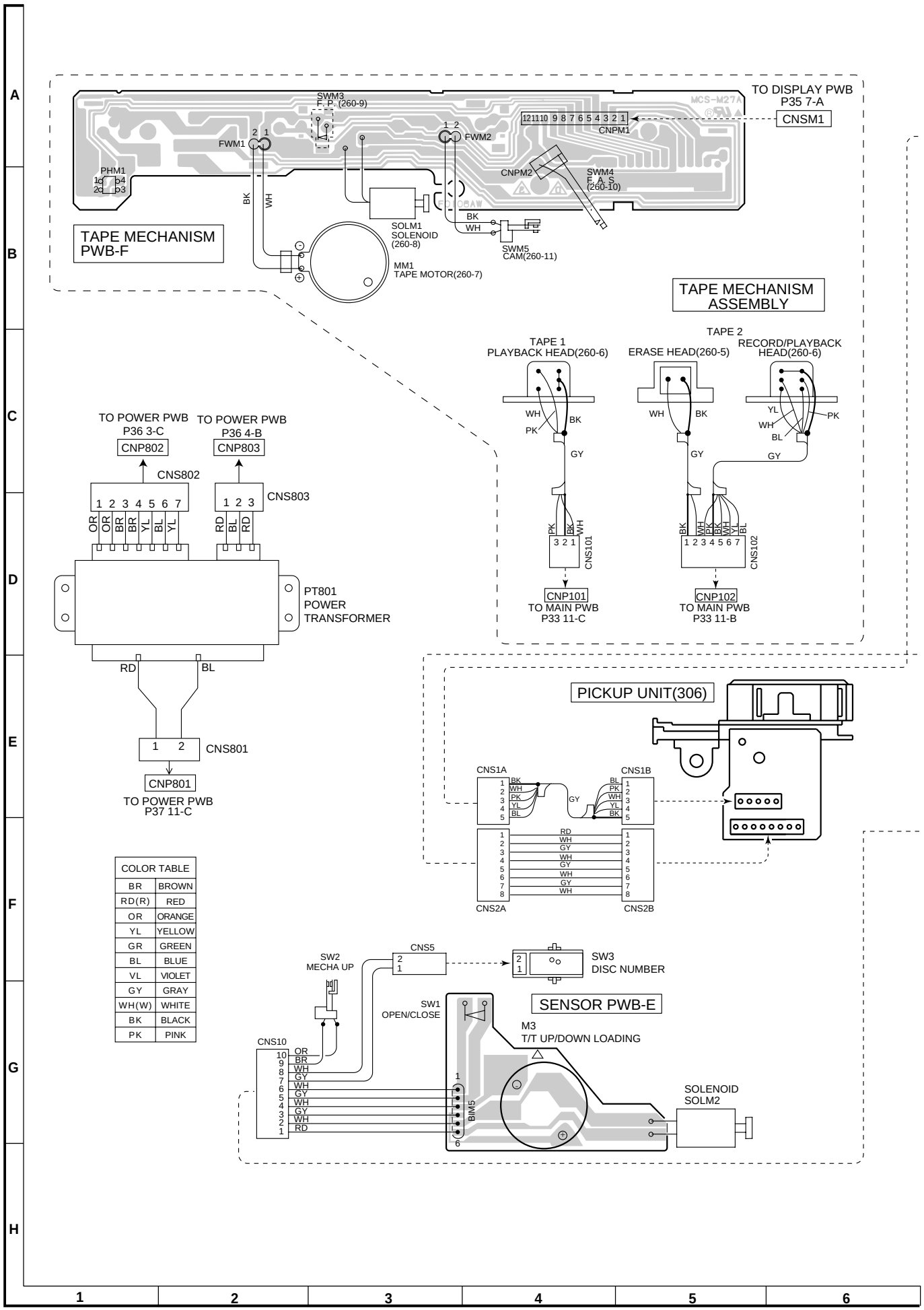


Figure 36 WIRING SIDE OF P.W.BOARD (5/8)



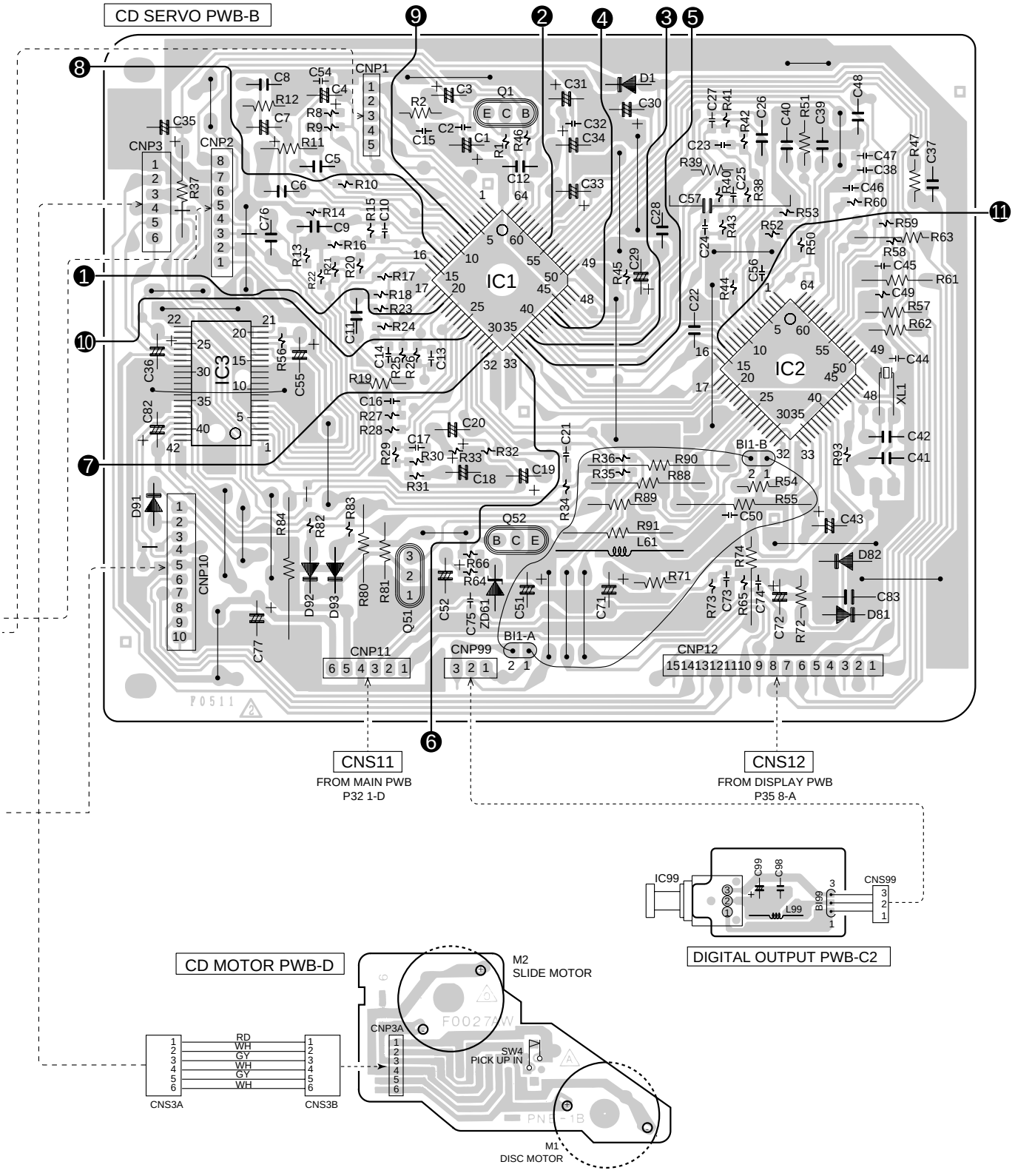
7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (6/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 38 WIRING SIDE OF P.W.BOARD (7/8)



• The numbers ❶ to ⓬ are waveform numbers shown in page 41.

7	8	9	10	11	12

Figure 39 WIRING SIDE OF P.W.BOARD (8/8)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	2.4V
2	2.4V
3	2.5V
4	2.5V
5	2.4V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.5V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.4V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.2V
31	2.2V
32	0V
33	0V
34	4.8V
35	4.8V
36	0V
37	0V
38	4.8V
39	0V
40	0V
41	1.5V
42	2.4V
43	2.5V
44	2.4V
45	0V
46	2.5V
47	2.5V
48	0V
49	0V
50	2.4V
51	4V
52	4V
53	0V
54	0V
55	4.8V
56	4.8V
57	2.5V
58	2.5V
59	1.0V
60	1.0V
61	2.2V
62	4.2V
63	0V
64	4.8V

IC901	
PIN NO.	VOLTAGE
1	0V
2	0V
3	-27.5V
4	-27.5V
5	-27.5V
6	0V
7	0V
8	0V
9	0V
10	-25.8V
11	26.0V
12	-0.15V
13	-0.15V
14	-24.6V
15	-0.1V
16	-0.1V
17	-0.1V
18	-0.1V
19	-27.5V
20	0V

IC2	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	1.9V
6	4.8V
7	0V
8	0V
9	2.5V
10	2.5V
11	0V
12	0V
13	0V
14	4.8V
15	0V
16	0V
17	4.8V
18	4.8V
19	0V
20	0V
21	2.5V
22	0V
23	4.8V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	4.8V
31	2.5V
32	0V
33	0V
34	0V
35	4.8V
36	4.5V
37	2.0V
38	0V
39	0V
40	2.0V
41	4.5V
42	4.8V
43	4.8V
44	2.2V
45	2.1V
46	0V
47	0V
48	2.2V
49	0V
50	2.4V
51	0V
52	2.4V
53	0V
54	0V
55	0V
56	4.0V
57	4.0V
58	4.0V
59	0V
60	2.5V
61	2.4V
62	0V
63	0V
64	0V

IC901	
PIN NO.	VOLTAGE
1	26.8V
2	24.9V
3	0V
4	0V
5	25.0V
6	26.8V
7	29.2V
8	24.7V
9	24.1V
10	26.4V
11	0V
12	25.0V
13	24.1V
14	24.7V

IC3	
PIN NO.	VOLTAGE
1	2.5V
2	2.6V
3	2.9V
4	3.3V
5	3.3V
6	3.3V
7	3.3V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	3.3V
16	3.3V
17	3.0V
18	7.2V
19	5.0V
20	2.5V
21	0V
22	0V
23	0V
24	7.2V
25	2.5V
26	3.3V
27	3.3V
28	11.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	5.3V
37	5.3V
38	3.3V
39	3.3V
40	7.2V
41	0.1V
42	0.1V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	4.3V (4.3V)
5	0.2V (0.3V)
6	1.3V (1.3V)
7	0V (0V)
8	0.6V (0.6V)
9	4.1V (4.1V)
10	4.0V (4.0V)
11	0V (0V)
12	0V (0V)
13	8.1V (8.1V)
14	4.8V (4.8V)
15	0V (0V)
16	4.1V (4.1V)
17	0.6V (0.6V)
18	0V (0V)
19	2.5V (2.6V)
20	0.2V (0.3V)
21	4.3V (4.3V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC471	
PIN NO.	VOLTAGE
1	5.6V
2	5.6V
3	5.5V
4	0V
5	5.6V
6	5.6V
7	5.6V
8	11.1V

IC601	
PIN NO.	VOLTAGE
1	5.6V
2	5.6V
3	5.5V
4	0V
5	5.5V
6	5.6V
7	5.6V
8	11.1V

IC301	
PIN NO.	VOLTAGE
1	0.9V (0V)
2	1.6V (0V)
3	6.0V (0.4V)
4	1.6V (0V)
5	0V (0V)
6	6.0V (0.3V)
7	5.2V (0.2V)
8	5.9V (0.3V)
9	6.0V (0.3V)

IC650	
PIN NO.	VOLTAGE
1	0.12V
2	0.1V
3	0.13V
4	–11.2V
5	0.1V
6	0.1V
7	0.1V
8	6.2V

IC651	
PIN NO.	VOLTAGE
1	0.2V
2	0.2V
3	0.2V
4	–9.8V
5	0.2V
6	0.2V
7	0.2V
8	6.2V

IC702	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0.2V
4	0V
5	9.8V
6	9.8V
7	9.8V
8	9.9V
9	9.8V
10	9.8V
11	9.8V
12	0.5V
13	0.5V
14	0.5V
15	9.8V
16	9.8V
17	0V
18	5.0V

IC703	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0.2V
4	0V
5	9.8V
6	9.8V
7	9.8V
8	9.9V
9	9.8V
10	9.8V
11	9.8V
12	0.5V
13	0.5V
14	0.5V
15	9.8V
16	9.8V
17	0V
18	5.0V

IC302	
PIN NO.	VOLTAGE
1	2.5V (2.5V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	4.5V (4.5V)
6	4.5V (4.5V)
7	0.2V (11.9V)
8	0V (0V)
9	0V (0V)
10	0V (0V)
11	5.1V (5.1V)
12	0V (0V)
13	0V (0V)
14	0V (0V)
15	0V (2.5V)
16	2.5V (0V)
17	5.1V (5.1V)
18	0.9V (0.9V)
19	0.9V (0.9V)
20	1.3V (1.1V)
21	0V (0V)
22	2.5V (2.5V)

IC401	
PIN NO.	VOLTAGE
1	5.0V
2	5.0V
3	4.9V
4	4.8V
5	5.0V
6	4.9V
7	4.8V
8	5.0V
9	4.8V
10	4.8V
11	5.0V
12	4.9V
13	4.8V
14	5.0V
15	4.9V
16	5.0V
17	5.0V
18	4.9V
19	5.0V
20	5.0V
21	5.0V
22	5.0V
23	4.0V
24	-0.1V
25	-0.1V
26	0V
27	5.0V
28	5.0V
29	5.0V
30	4.9V
31	5.0V
32	5.0V
33	4.9V
34	5.0V
35	4.8V
36	4.9V
37	5.0V
38	4.8V
39	4.9V
40	5.0V
41	4.8V
42	4.9V
43	5.0V
44	4.8V
45	4.9V
46	5.0V
47	5.0V
48	4.9V
49	5.0V
50	5.0V
51	5.0V
52	5.0V
53	5.0V
54	5.0V
55	5.0V
56	10.0V
57	5.0V
58	5.0V
59	5.0V
60	5.0V
61	5.0V
62	5.0V
63	5.0V
64	4.9V

IC303	
PIN NO.	VOLTAGE
1	1.6V (1.6V)
2	1.6V (1.6V)
3	7.1V (8.1V)
4	0.2V (0.6V)
5	1.6V (1.6V)
6	0V (0V)
7	5.1V (5.1V)
8	0V (0V)
9	2.3V (2.3V)
10	2.3V (2.3V)
11	6.4V (8.1V)
12	0.9V (0.9V)
13	1.1V (2.1V)
14	1.8V (1.6V)
15	2.2V (1.3V)
16	1.7V (1.7V)
17	1.6V (1.7V)
18	1.6V (1.6V)
19	0.4V (0.5V)
20	7.1V (8.1V)
21	7.1V (8.1V)
22	1.7V (1.7V)
23	1.7V (1.7V)
24	1.7V (1.7V)

IC501	
PIN NO.	VOLTAGE
1	4.7V
2	4.7V
3	4.7V
4	4.7V
5	4.7V
6	4.7V
7	4.7V
8	9.4V
9	4.7V
10	4.7V
11	4.7V
12	4.7V
13	4.7V
14	4.7V
15	4.7V
16	4.7V
17	0V
18	9.4V
19	2.5V
20	0.6V
21	-0.1V
22	4.7V
23	4.7V
24	4.7V
25	4.7V
26	4.7V
27	4.7V
28	4.7V
29	4.7V
30	4.7V
31	5.0V
32	2.3V
33	-0.1V
34	4.0V
35	-0.1V
36	3.6V
37	-0.1V
38	4.0V
39	0V
40	4.7V
41	4.8V
42	0V
43	4.7V
44	4.7V
45	4.7V
46	4.7V
47	4.7V
48	4.7V
49	4.7V
50	4.7V
51	5.4V
52	4.7V
53	5.4V
54	4.6V
55	4.6V
56	4.6V
57	3.7V
58	3.5V
59	3.4V
60	5.4V
61	4.8V
62	5.4V
63	4.7V
64	4.7V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.7V	51	4.7V
2	4.7V	52	0V
3	4.6V	53	0V
4	0V	54	4.7V
5	0V	55	0V
6	0V	56	0V
7	0V	57	4.6V
8	0V	58	4.6V
9	0V	59	4.6V
10	4.7V	60	4.6V
11	2.2V	61	0V
12	2.0V	62	4.7V
13	0V	63	4.7V
14	4.6V	64	5.0V
15	0V	65	4.9V
16	4.7V	66	–27.0V
17	0V	67	–27.0V
18	4.7V	68	–27.0V
19	0V	69	–27.0V
20	4.7V	70	–27.0V
21	4.7V	71	–27.0V
22	0V	72	–27.0V
23	0V	73	0V
24	0V	74	0V
25	0V	75	-26.0V
26	0V	76	–22.0V
27	0V	77	–24.0V
28	0V	78	0V
29	0V	79	–27.0V
30	0.9V	80	–24.0V
31	4.9V	81	–24.0V
32	4.9V	82	–24.0V
33	4.9V	83	0V
34	4.7V	84	0V
35	4.9V	85	–21.0V
36	4.6V	86	0V
37	4.6V	87	0V
38	4.9V	88	0V
39	4.9V	89	0V
40	0V	90	–24.0V
41	0V	91	0V
42	4.6V	92	–24.0V
43	3.5V	93	0V
44	11.9V	94	–24.0V
45	11.9V	95	0V
46	4.4V	96	–24.0V
47	4.6V	97	–24.0V
48	0V	98	–24.0V
49	4.6V	99	–24.0V
50	0V	100	–24.0V

IC803	
PIN NO.	VOLTAGE
1	7.1V
2	0.6V
3	5.5V

IC805	
PIN NO.	VOLTAGE
1	17.0V
2	1.3V
3	7.3V

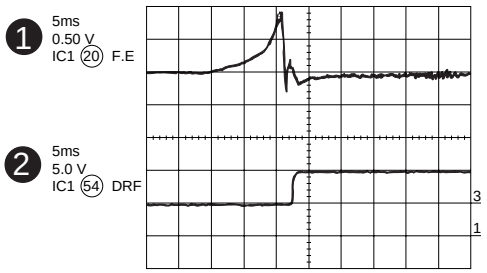
IC804	
PIN NO.	VOLTAGE
1	17.0V
2	0V
3	12.0V

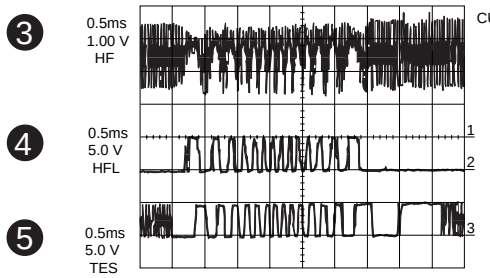
IC806	
PIN NO.	VOLTAGE
1	12.0V
2	1.3V
3	4.9V

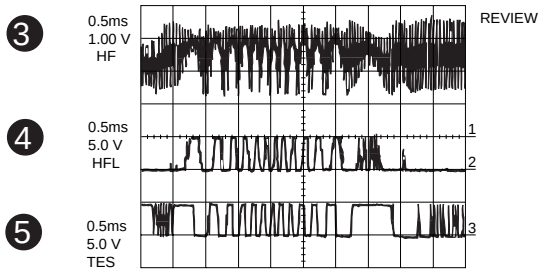
WAVEFORMS OF CD CIRCUIT

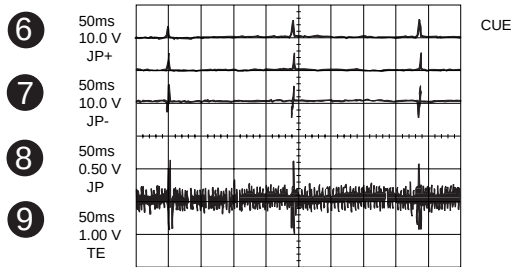
STOP → PLAY

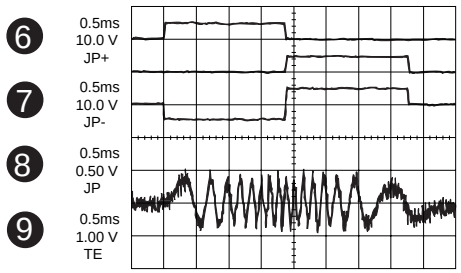
FOCUS — SERCH

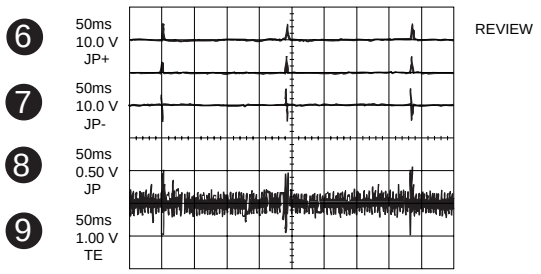


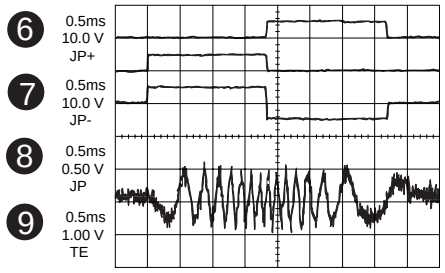








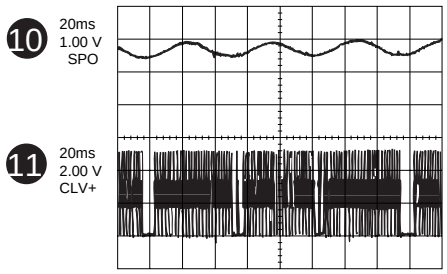




PLAY

NORMAL DISC

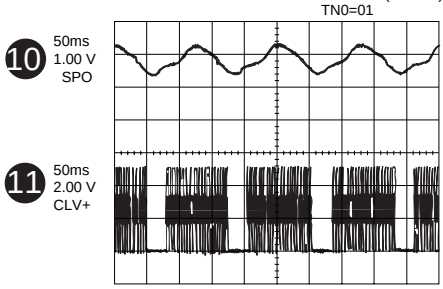
TN0=01



PLAY

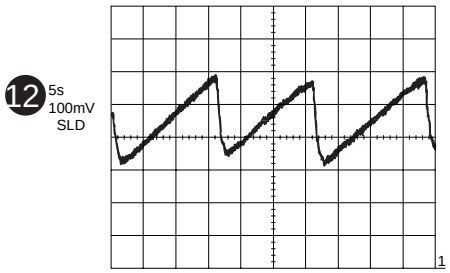
TCD-712 (140mm)

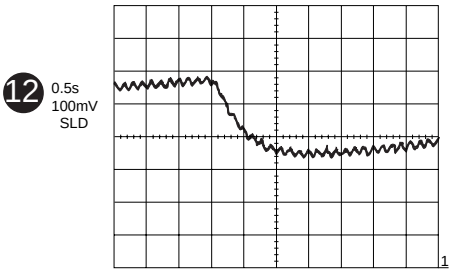
TN0=01



PLAY

TCD-712





TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn 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.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.
To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

HOW TO USE

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

CAUTION

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

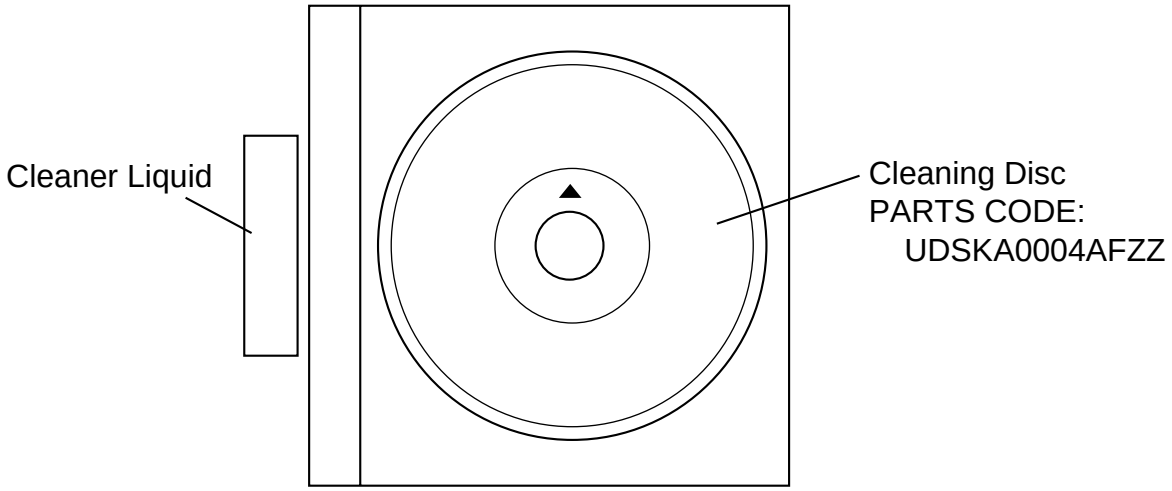
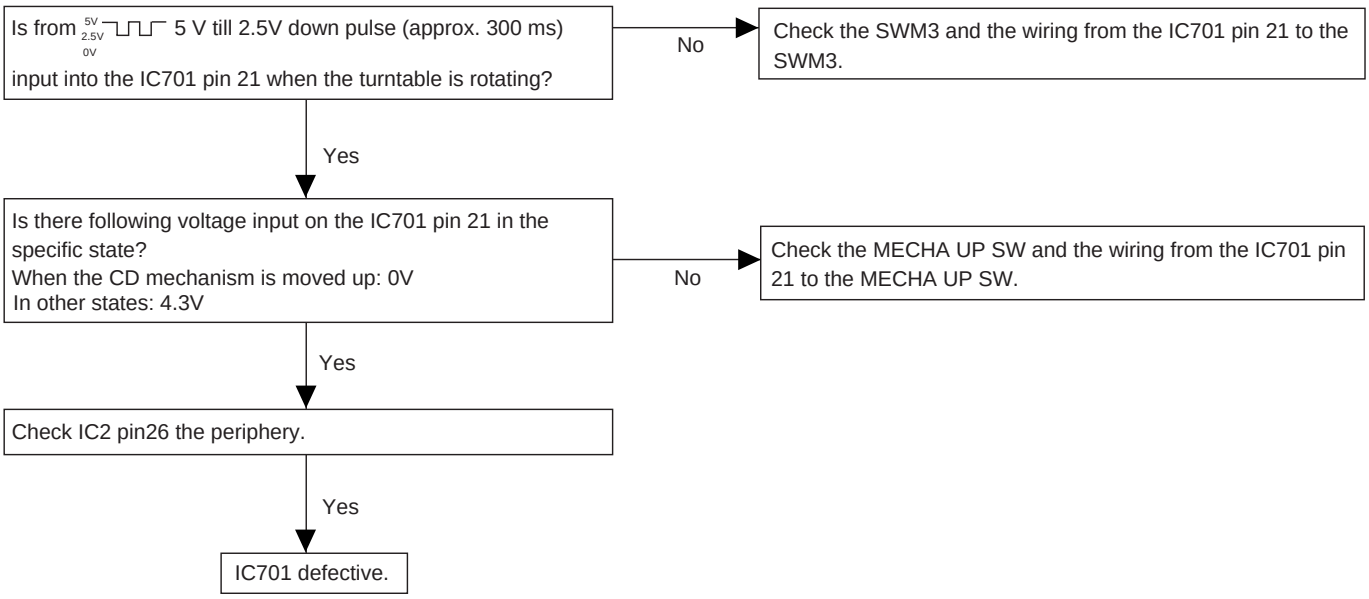
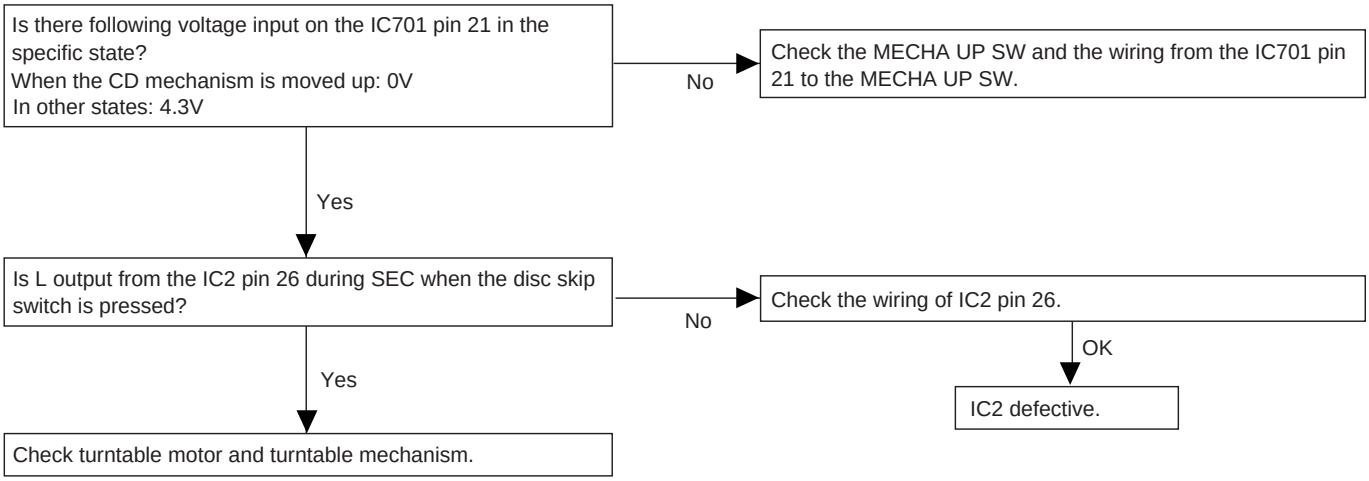


Figure 42

• When the turntable fails to stop.



• When turntable fails to move.



• When the CD tray fails to open or close.

Is there following voltage input in specific state of IC701 pin 19?
Open state: 0V
Close state: 0V
Intermediate state between open state and close state: 4.3V

No → Check the OPEN CLOSE SW and the wiring from the IC701 pin 19 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC91 is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25.

OK ↓

IC2 defective.

Yes ↓

Check the loading motor (M1) and the loading mechanism.

• The CD function will not work.

The CD operating keys don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is in thePICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer IC701.

• The CD operating keys work.

Check the Focus - HF system.

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 44?

Yes → Check the area around IC3-CNP2.

No ↓

Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL), (52)(DAT) and (53)CE.

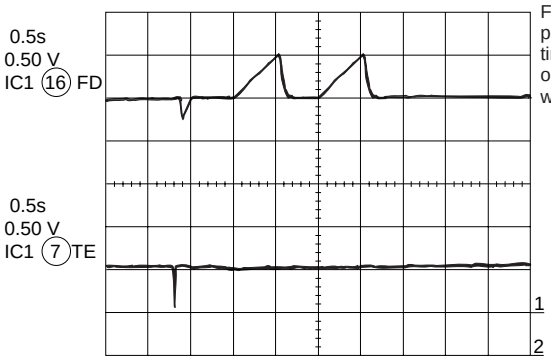


Figure 44

• Playback can only be performed when a disc is loaded.

Is the Focus servo active? (Can you hear it working?)
- No → Check the laser diode driver. Check the area around IC1(16) - (21) (focus servo circuit).
- Yes ↓

Does the DRF signal change from "L" to "H"?
- No → If the disc is not turning, the DRF should not change to "H".
  - Yes → Check the spin system.
- Yes ↓

Is HF waveform normal (see the Fig.45-1, 2)?
- No → Level is abnormal.
  - Yes → Check the periphery of IC1 pins 41 and 42.
- No → Waveform is unstable.
  - Yes → Check the spin system.
- Yes ↓

Check the tracking system.

HF
1.0V/DIV
0.5µsec/DIV(DC)
(When playing back the disc)

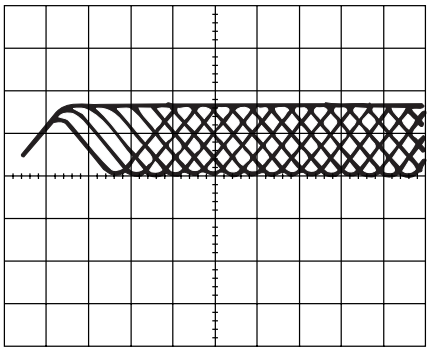
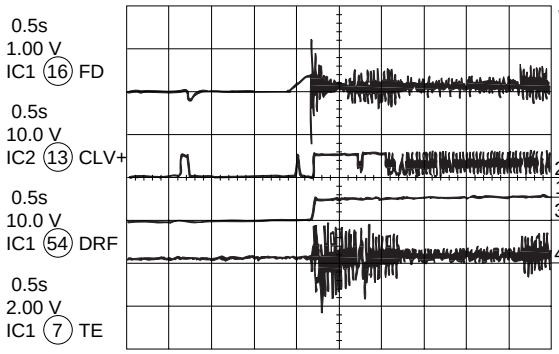


Figure 45-1



Waveform in case of normal play-back

Figure 45-2

• Check the tracking system.

Check waveform of IC1 pin 7 (TE).

- The waveform shown in Fig.45-3 appears, and no-disc state appears soon.
  - Yes → Tracking servo is inoperative.
    - Yes → Check the periphery of IC 1 pin 8 to pin 15, and IC 3 to CNP2.
- Play is possible in TEST mode.
  - Yes → Although IL is possible, play is impossible.
    - Yes → Normal jump is impeded, and the program top cannot be reached.
      - Yes → Check the periphery of IC 1 pin 14.
- Data cannot be read.
  - Yes → Check the VCO-PLL system.

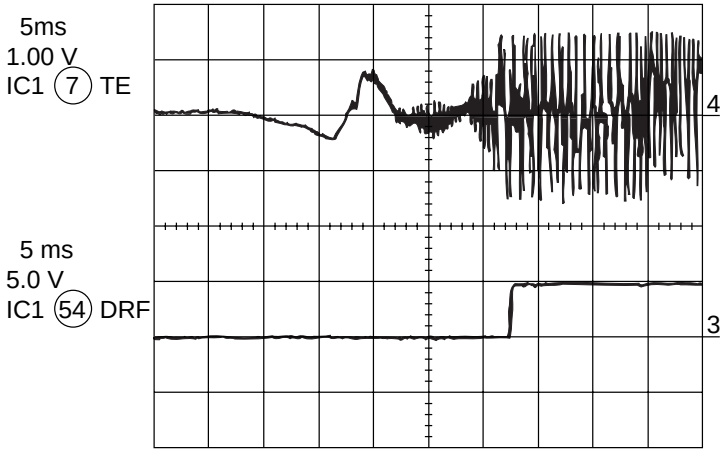


Figure 45-3

• Checking the spin system.

Play operation is performed without disc.

Yes

The turntable rotates a little. — Yes → The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed. — Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC3 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read. — Yes → Check PDO waveform (Fig. 46).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.

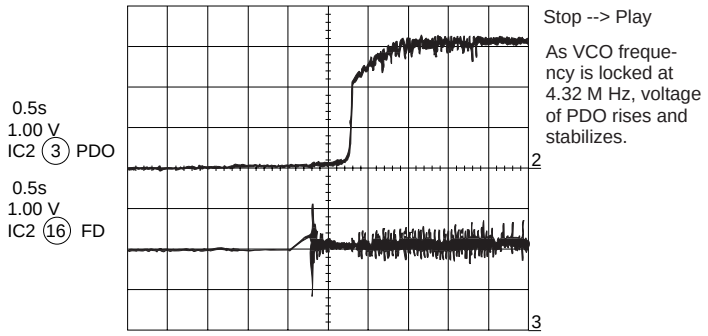


Figure 46

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). — No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

FUNCTION TABLE OF IC

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	NC	No connect.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

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

IC1 VHiLA9241M/-1:Servo Amp.(LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

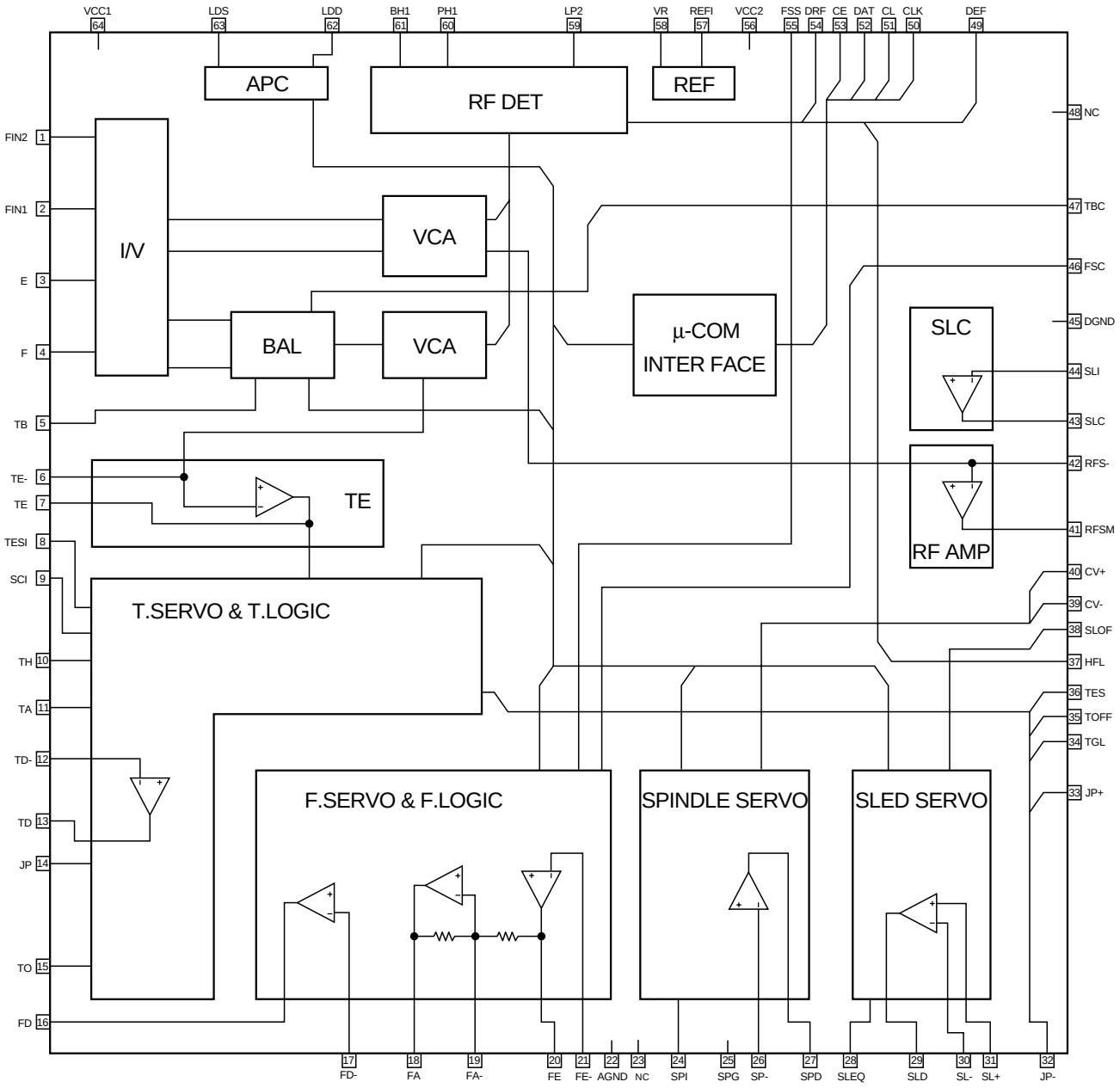


Figure 48 BLOCK DIAGRAM OF IC

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (1/2)

Pin No.	Terminal Name	Input/Output	Function		
1	DEFI	Input	Defect detection signal (DFF) input terminal. (When this terminal is not used, connect it to 0V.)		
2	TAI	Input	For PLL	Input terminal for test. Pull-down resistor built in. Be sure to connect this terminal to 0V.	
3	PDO	Output		Phase comparison output terminal for external VCO control.	
4	VVSS	—		Grounding terminal for built-in VCO. Be sure to connect this terminal to 0V.	
5	ISET	Input		Resistor connection terminal for adjustment of PDO output current.	
6	VVDD	—		Power terminal for built-in VCO.	
7	FR	Input		For VCO frequency range adjustment.	
8	VSS	—	Digital system grounding terminal. Be sure to connect this terminal to 0V.		
9	EFMO	Output	For slice level control	EFM signal output terminal.	
10	EFMIN	Input		EFM signal input terminal.	
11	TEST2	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
12	CLV+	Outout	Output for disc motor control. 3-value output is enabled according to command.		
13	CLV-	Output	Output for disc motor control. 3-value output is enabled according to command.		
14	V/$\overline{P}$	Output	Rough servo/phase control automatic selection monitor output terminal. "H": Rough servo, "L": Phase servo		
15	HLF	Intput	Track detection signal input terminal. Schmidt input.		
16	TES	Input	Tracking error signal input terminal. Schmidt input.		
17	TOFF	Output	Tracking OFF output terminal.		
18	TGL	Output	Output terminal for tracking gain selection. "L": Gain raising.		
19	JP+	Output	Output for track jump control. 3-value output is enabled according to command.		
20	JP-	Output	Output for track jump control. 3-value output is enabled according to command.		
21*	PCK	Output	Clock monitor terminal for EFM data play-back. Phase lock: 4.3218 MHz.		
22*	FSEQ	Output	Sync signal detection output terminal. When the sync signal detected from the EFM signal coincides with the internally generated sync signal: "H"		
23	VDD	—	Digital system power terminal.		
24	CONT1	Input/Output	General-use input/output terminal 1.	Control with serial data command from microcomputer. When this terminal is not used, set it as an input terminal and connect to 0V or set it as an output terminal and open.	
25	CONT2	Input/Output	General-use input/output terminal 2.		
26	CONT3	Input/Output	General-use input/output terminal 3.		
27	CONT4	Input/Output	General-use input/output terminal 4.		
28*	CONT5	Input/Output	General-use input/output terminal 5.		
29*	EMPH/CONT6	Output	Deemphasis monitor terminal. "H": Deemphasis disc play-back. General-use output terminal 6.		
30*	C2F	Output	C2 flag output terminal.		
31	DOUT	Output	Digital OUT output terminal. (EIAJ format)		
32*	TEST3	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
33	TEST4	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
34	PCCL	Input	General-use input/output command recognition terminal. Pull-down resistor built in. When this terminal is used for the same function as that of LC78622E, open or connect this terminal to 0V. H: Only the general-use input/output port command is controllable. L: All command controls are enabled.		
35*	MUTEL/CONT7	Output	L channel 1-bit DAC	Mute output terminal for L channel. General-use output terminal 7.	
36	LVDD	—		Power terminal for L channel.	
37	LCHO	Output		L channel output terminal.	
38	LVSS	—		Grounding terminal for L channel. Be sure to connect this terminal to 0V.	
39	RVSS	—	R channel 1-bit DAC	Grounding terminal for R channel. Be sure to connect this terminal to 0V.	
40	RCHO	Output		R channel output terminal.	
41	RVDD	—		Power terminal for R channel.	
42*	MUTER/CONT8	Output		Mute output terminal for R channel. General-use output terminal 8.	
43	XVDD	—	Power terminal for crystal oscillation.		
44	XOUT	Output	16.9344 MHz crystal oscillator connection terminal.		
45	XIN	Input	16.9344 MHz crystal oscillator connection terminal.		
46	XVSS	—	Grounding terminal for crystal oscillation. Be sure to connect this terminal to 0V.		

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

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (2/2)

Pin No.	Terminal Name	Input/Output	Function
47*	SBSY	Output	Sub-code clock sync signal output terminal.
48*	EFLG	Output	C1, C2, single, double correction monitor terminal.
49*	PW	Output	Sub-code P, Q, R, S, T, U, and W output terminal.
50*	SFSY	Output	Sub-code frame sync signal output terminal. Falling occurs when the sub-code is in standby state.
51	SBCK	Input	Sub-code read clock input terminal. Schmidt input (When this terminal is not used, connect it to 0V.)
52*	FSX	Output	7.35 kHz sync signal (frequency-divided from crystal oscillation) output terminal.
53	WRQ	Output	Sub-code Q output standby output terminal.
54	RWC	Input	Read/Write control input terminal. Schmidt input.
55	SQOUT	Output	Sub-code Q output terminal.
56	COIN	Input	Command input terminal from microcomputer.
57	$\overline{\text{CQCK}}$	Input	Command input taking-in clock or sub-code taking-out (from SQOUT) clock input terminal. Schmidt input
58	$\overline{\text{RES}}$	Input	LSI resetting input terminal. When power is turned on, once "L" is set.
59*	TEST11	Output	Output terminal for test. Use this terminal in open state (usually "L" output).
60*	16M	Output	16.9344 MHz output terminal.
61	4.2M	Output	4.2336 MHz output terminal.
62	TEST5	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.
63	$\overline{\text{CS}}$	Input	Chip selection input terminal. Pull-down resistor built-in. In noncontrol state connect this terminal to 0V.
64	TEST1	Input	Input terminal for test. Pull-down resistor is not provided. Be sure to connect this terminal to 0V.

Note: The same potential must be supplied to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

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

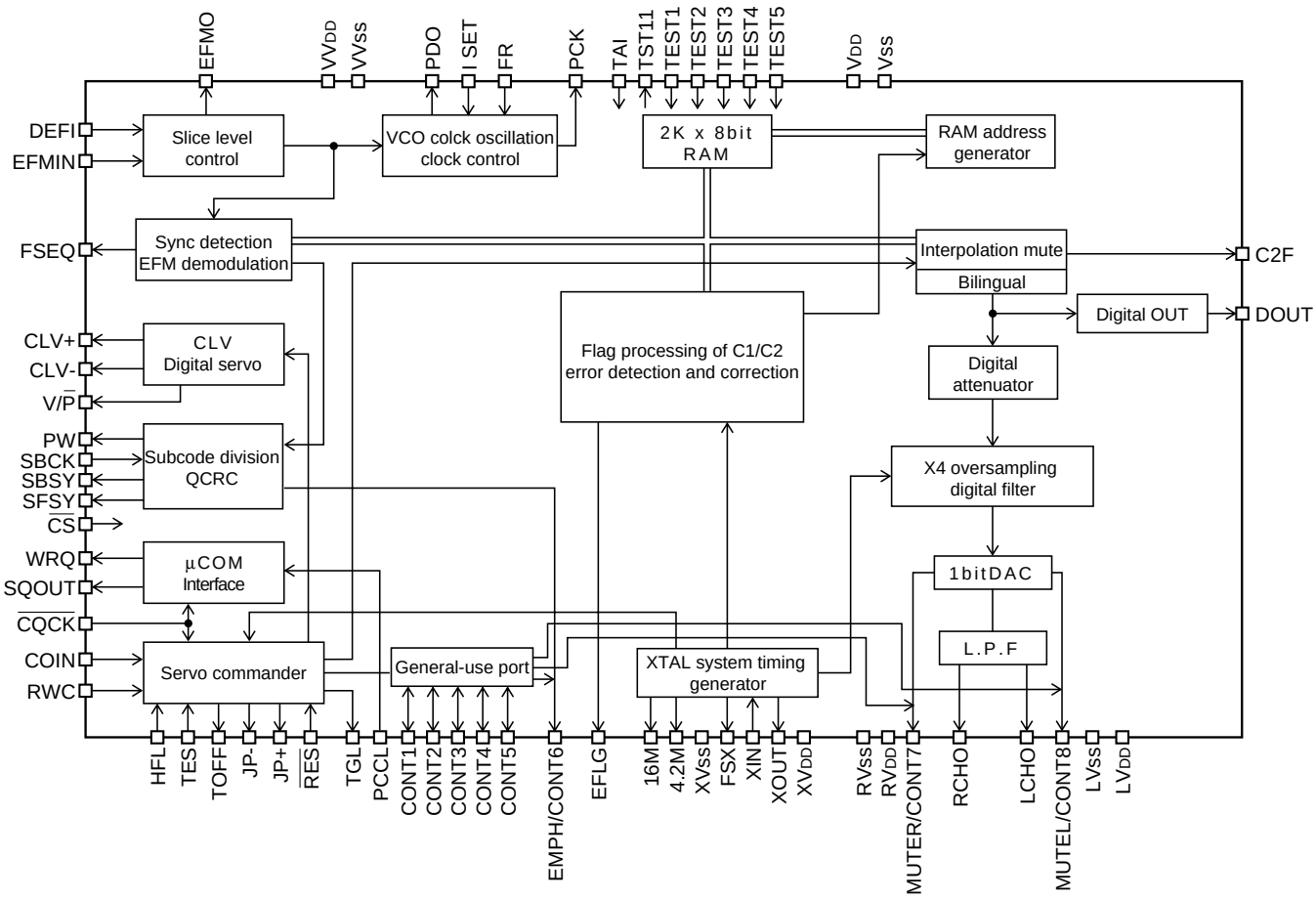
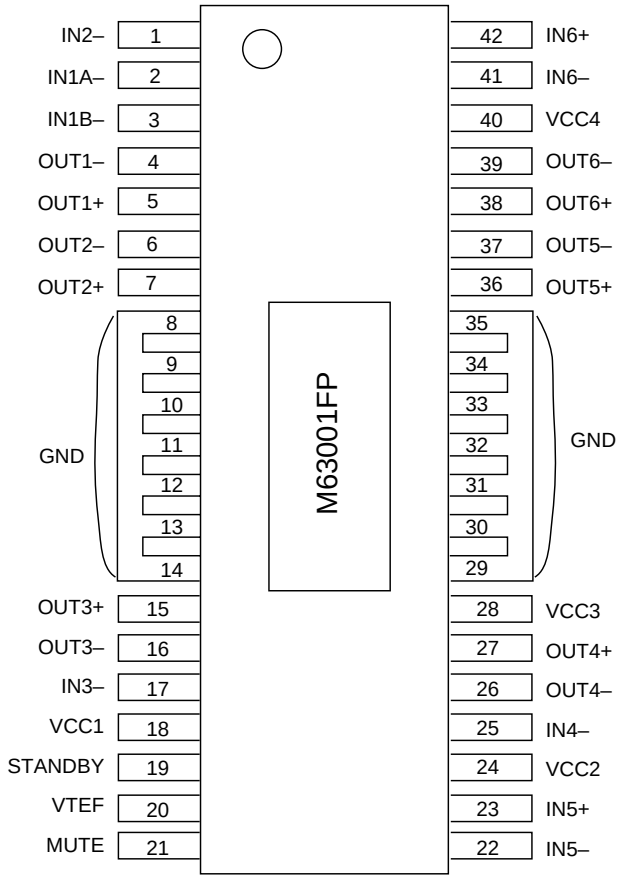


Figure 50 BLOCK DIAGRAM OF IC

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Slide Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36	OUT5+	CH5 non-inverted output.
37	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.



IC650,651 VHiKiA4558P-1: (KIA4558P)

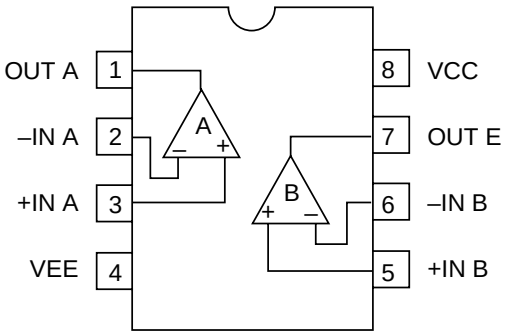


Figure 51 BLOCK DIAGRAM OF IC

IC701 RH-iX0301AWZZ:System Control Microcomputer (IX0301AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2	P37	ENA	Output	DOLBY PROLOGIC ENABLE TERMINAL
3	P36	DO	Input	DATA INPUT
4	P35	DI	Output	DATA OUTPUT
5	P34	CE	Output	CE OUTPUT
6	P33	CLK	Output	CLOCK OUTPUT
7,8	P32, P31	LCK1, LCK2	Output	
9	P30	RWC	Output	CD DSP READ WRITE CONTROL
10	RESET	RESET	Input	RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	Vpp	VPP	—	POWER SUPPLY TERMINAL
14*	XT2	XT2	—	OPEN
15	P04	WRQ	Input	CD DSP WRITE REQUEST
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	PCCL	Output	CD DSP PCCL
18	P26	COIN	Outout	CD DSP COMAND
19	P25	SQOUT	Input	CD DSP CODE Q OUT
20	P24	CQCK	Output	CD DSP CLOCK
21	P23	DSP RES	Output	CD DSP RESET
22	P22	FRF (DRF)	Input	CD RF LEVEL DETECTION
23	P21	SLD+	Output	CD SLIDE MOTOR +
24	P20	SLD-	Output	CD SLIDE MOTOR -
25	AVss	AVSS	—	ANALOG GROUND
26	ANI7	SPEANA3	Input	SPEANA DATA INPUT 16 KHz
27	ANI6	SPEANA2	Input	SPEANA DATA INPUT 1 KHz
28	ANI5	SPEANA1	Input	SPEANA DATA INPUT 63 Hz
29*	ANI4	TUN SM	Input	TUNER SIGNAL METER INPUT
30	ANI3	T2 RUN	Input	TAPE2 RUN PULSE INPUT
31-33	ANI2-ANI0	KEYIN3-KEYIN1	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	P03	PUIN SW	Input	CD PUIN SWITCH
37	P02	O/C SW	Input	CD OPEN/CLOSE SWITCH
38	INTP1	SYS STOP	Input	SYSTEM STOP INPUT
39	INTP0	REMOCON	Input	REMOCON INPUT
40	Vss	VSS	—	GROUND VOLTAGE
41	P74	DNO SW	Input	CD DISC NO. SWITCH
42	P73	U/D SW	Input	CD UP/DOWN SWITCH
43	P72	TIMER LED	Output	TIMER LED CONTROL
44	P71	T_SOL	Output	TAPE SOLENOID CONTROL
45	P70	T_MOT	Output	TAPE MOTOR CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	CAM SW	Input	TAPE CAM SWITCH
48	P126	TIFAS	Input	TAPE1 FULL AUTOSTOP PULSE INPUT
49	P125	FPA	Input	TAPE2 A-SIDE FULL PROOF
50	P124	H/P	Input	HEADPHONE INPUT
51	P123	AC RLY_CONT	Output	AC RELAY CONTROL
52	P122	REC/PLAY	Output	TAPE REC/PLAY CHANGE
53	P121	T_BIAS	Output	TAPE Record bias control
54	P120	T_T1T2	Output	TAPE T1/T2 CHANGE
55	P117	DISTO	Input	DISTINATION INPUT

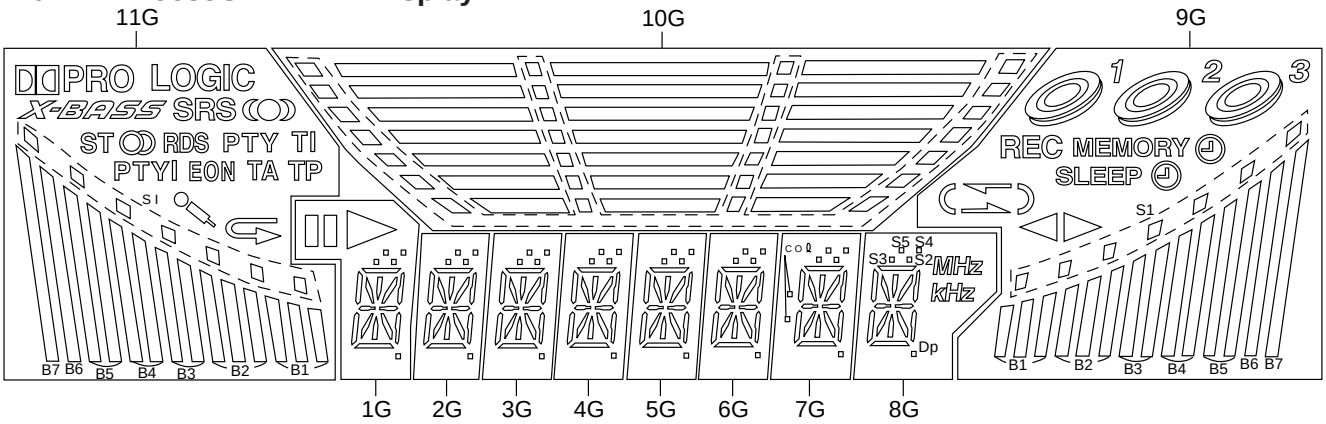
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

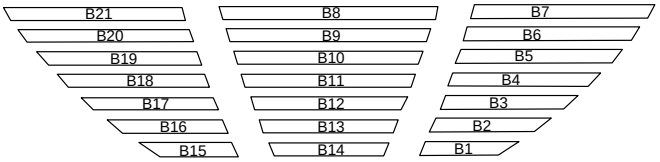
IC701 RH-iX0301AWZZ:System Control Microcomputer (IX0301AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
56	P116	KEY JOG A	Input	KEY JOG INPUT A
57	P115	KEY JOG B	Input	KEY JOG INPUT B
58	P114	S MUTE	Output	SYSTEM MUTE
59	P113	C MUTE	Output	CENTER MUTE
60	P112	SR MUTE	Output	SURROUND MUTE
61*	P111	HI-CUT	Output	HI-CUT OUTPUT
62	P110	POWER	Output	POWER OUTPUT
63	P107	SPRLY	Output	SPEAKER OUTPUT RELAY CONTROL
64	P106	SP_DET	Input	SPEAKER OUTPUT DETECTION
65	P105	SPN_P	Input	TUNER SPAN CHANGE
66	P104	DISTOUT	Output	DISTINATION OUTPUT
67	P103/FIP32	DIAT4/P22	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
68	P102/FIP31	DIAT3/P21	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
69	P101/FIP30	DIAT2/P20/P15	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
70	P100/FIP29	DIAT1/P19/P16	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
71-78	FIP28-FIP21	P18/P13-P11/P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (–) POWER SUPP, –30V
80-100	FIP20-FIP0	P10/P6-G1/9G	Output	FL DISPLAY SEGMENT DRIVER

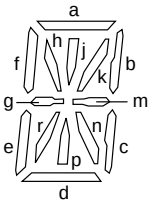
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

FL701 VVKBJ685GNK-1: FL Display





[10G]



[1G~8G]

ANODE CONNECTION

	1G	2G~6G	7G	8G	9G	10G	11G
P1	Dp	Dp	Dp	Dp	S1	S1	S1
P2	d	d	d	d	B1	B1	B1
P3	c	c	c	c	B2	B2	B2
P4	n	n	n	n	B3	B3	B3
P5	p	p	p	p	B4	B4	B4
P6	r	r	r	r	B5	B5	B5
P7	e	e	e	e	B6	B6	B6
P8	m	m	m	m	B7	B7	B7
P9	g	g	g	g	1	B8	PRO LOGIC
P10	–	–	col	–	2	B9	X-BASS
P11	b	b	b	b	3	B10	SRS
P12	k	k	k	k	REC	B11	ST
P13	j	j	j	j	MEMORY	B12	
P14	h	h	h	h		B13	RDS
P15	f	f	f	f	(LOWER)	B14	PTY
P16	a	a	a	a	SLEEP	B15	TI
P17	S2	S2	S2	S2		B16	TP
P18	S3	S3	S3	S3		B17	TA
P19	S4	S4	S4	S4		B18	PTYI
P20	S5	S5	S5	S5		B19	EON
P21		–	–	MHz		B20	
P22		–	–	kHz	–	B21	

Figure 54 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-PC672

CD-PC672 mini component system consisting of CD-PC672 (main unit), CP-C672 (front speakers), CP-SW672 (sub woofer), GBOXS0022AWM1 (center speaker) and GBOXS0023AWM1 (rear speaker).

"HOW TO ORDER REPLACEMENT PARTS"

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

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

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

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

Explanation of capacitors/resistors parts codes

Capacitors

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

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

Resistors

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

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

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-PC672

INTEGRATED CIRCUITS

IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78622N-1	J	AY	Servo/Signal Control,LC78622N
IC3	VHIM63001FP-1	J	AX	Focus/Trackig/Spin/Slide Driver,M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/ Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner) LC72131
IC303	VHILA1805//-1	J	AM	FM/AM IF MPX.,LA1805
IC401	VHILC75396N-1	J	AX	Audio Processor,LC75396N
IC471	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC501	VHILV1035M/-1	J	BC	Dolby Pro Logic Decorder,LV1035M
IC601	VHINJM4560D-1	J	AH	Ope Amp.,NJM4560D
IC650,651	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC701	RH-IX0301AWZZ	J		System Control Microcomputer,IX0301AW
IC702,703	VHIBU2092F/-1	J	AM	Input/Output Expander, BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC803	VHIAN78L05/-1	J	AE	Constant Voltage Regulator,AN78L05
IC804	VHIKIA7812P-1	J	AE	Voltage Regulator,KIA7812P
IC805	VHIKIA7806P-1	J	AG	Voltage Regulator,KIA7806P
IC806	VHIAN78L05/-1	J	AE	Constant Voltage Regulator,AN78L05
IC901	VHISTK4084B-1	J	BD	Power Amp.,STK4084B
IC951	VHILA4451//-1	J	AN	Power Amp.,LA4451

TRANSISTORS

Q1	VS2SA1318//-1	J	AC	Silicon,PNP,2SA1318
Q51	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q52	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q103~106	VS2SC2389SE-1	J	AD	Silicon,NPN,2SC2389 SE
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q301	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q351	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q381	VSKRA109M//-1	J	AC	Digital,PNP,KRA109 M
Q382	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q401~404	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q405	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q702	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q703	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q704	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q705~707	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q802	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q903	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q904,905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906,907	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M

DIODES

D1	VHD1SS133//-1	J	AA	Silicon,1SS133
D81,82	VHD1SS133//-1	J	AA	Silicon,1SS133
D91~93	VHD1SS133//-1	J	AA	Silicon,1SS133
D101,102	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D381,382	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D391,392	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D402,403	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D515,516	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D651~654	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D704	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D715~722	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
⚠D801,802	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D803~809	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D810~814	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D817~819	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D821~825	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D903	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D904~907	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D908,909	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED701	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED702	VHPSLI342YCB1	J	AC	LED,Orange,SLI342YCB
LED703	VHPSLI342DCB1	J	AC	LED,Yellow,SLI342DCB
LED704	VHPSLI342UCB1	J	AC	LED,Red,SLI342UCB
LED705	VHPSLI342DCB1	J	AC	LED,Orange,SLI342UCB
LED706	VHPSLI342YCB1	J	AC	LED,Yellow,SLI342YCB
LED707	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED711~713	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED716,717	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED718	VHPSLI325YC-1	J	AB	LED,Yellow,SLI325YC
LED719,720	VHPSLI342YCE1	J	AC	LED,Yellow,SLI342YCE
LED721	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED722	VHPSLI342UCJ1	J	AC	LED,Red,SLI342UCJ
LED723,724	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
VD301,302	VHCSVC211C/-1	J	AG	Silicon,SVC211C,Variable Cap
VD331	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
ZD61	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,DZ5R1BSB
ZD651	VHEDZ6R2BSC-1	J	AB	Zener,DZ6R2BSC
ZD801	VHEDZ6R2BSA-1	J	AB	Zener,DZ6R2BSA
ZD802	VHEDZ300BSB-1	J	AB	Zener,DZ300BSB
ZD803	VHEDZ130BSB-1	J	AB	Zener,DZ130BSB

FILTERS

CF301	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	92LFILTA1768A	J	AE	AM IF

TRANSFORMERS

⚠PT801	RTRNP0248AWZZ	J	BK	Power
⚠PT802	RTRNP0239AWZZ	J	AP	Power
T301	RCILB0060AWZZ	J	AC	FM,OSC
T302	RCILI0012AWZZ	J	AD	FM IF
T331	RCILA0052AWZZ	J	AE	AM Tracking
T333	RCILB0058AWZZ	J	AC	AM,OSC
T381	RCILI0016AWZZ	J	AC	FM Detection
T382	RCILI0015AWZZ	J	AE	AM IF

COILS

L61	VP-XHR82K0000	J	AC	0.82 µH
L99	VP-DH2R2K0000	J	AB	2.2 mmH,Peaking
L104	VP-MK331K0000	J	AB	330 µH,Choke
L301	RFILR0008AWZZ	J	AE	Band Pass Filter
L312	RCILR0029AWZZ	J	AA	FM RF
L317	VP-DH101K0000	J	AB	100 µH,Choke
L702	VP-DH101K0000	J	AB	100 µH,Choke

VARIABLE RESISTORS

VR381	RVR-M0025AWZZ	J	AC	6.8 kohms (B),Semi-VR [VCO]
VR701	RVR-B0017AWZZ	J	AE	20 kohms [SUB Woofer Volume]

VIBRATORS

X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
X501	RCRM-0173AFZZ	J	AE	Ceramic,8 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.19 MHz

CAPACITORS

C1	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C2	VCKYTV1HB103K	J	AA	0.01 µF,50V
C3	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C4	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C5,6	VCTYPA1CX333K	J	AA	0.033 µF,16V
C7	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C8	VCTYPA1CX683K	J	AA	0.068 µF,16V
C9	VCTYPA1CX473K	J	AA	0.047 µF,16V
C10	VCCSTV1HL181J	J	AA	180 pF,50V
C11,12	VCTYPA1CX104K	J	AB	0.1 µF,16V
C13	VCKYTV1HB331K	J	AA	330 pF,50V
C14,15	VCKYTV1HB103K	J	AA	0.01 µF,50V
C16	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C17	VCKYTV1HB102K	J	AA	0.001 µF,50V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C18	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C19	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C20	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C21	VCKYTV1HB332K	J	AA	0.0033 µF,50V
C22	VCCSPA1HL221J	J	AA	220 pF,50V
C23	VCKYTV1HB272K	J	AA	0.0027 µF,50V
C24	VCCSTV1HL2R2C	J	AB	2.2 pF,50V
C25	VCCSTV1HL270J	J	AA	27 pF,50V
C26	VCTYPA1CX333K	J	AA	0.033 µF,16V
C27	VCKYTV1HB102K	J	AA	0.001 µF,50V
C28	VCTYPA1CX104K	J	AB	0.1 µF,16V
C29	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C30	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C31	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
C32	VCKYTV1HB103K	J	AA	0.01 µF,50V
C33	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C34	VCEAZA1HW334M	J	AB	0.33 µF,50V,Electrolytic
C35	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C36	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C37	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C38	VCKYTV1HB103K	J	AA	0.01 µF,50V
C39,40	VCTYPA1CX473K	J	AA	0.047 µF,16V
C41	VCCSPA1HL120J	J	AA	12 pF,50V
C42	VCCSPA1HL150J	J	AA	15 pF,50V
C43	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C44~47	VCCCTV1HH101J	J	AA	100 pF (CH),50V
C48	VCCSPA1HL101J	J	AA	100 pF,50V
C49	VCCCTV1HH101J	J	AA	100 pF (CH),50V
C50	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C51,52	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C54	VCKYTV1HB102K	J	AA	0.001 µF,50V
C55	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C56	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C57	VCKYBT1HB102K	J	AA	0.001 µF,50V
C71,72	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C73,74	VCKYTV1HB221K	J	AA	220 pF,50V
C75	VCKYTV1HB102K	J	AA	0.001 µF,50V
C76	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C77	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C82	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C83	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C98	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C99	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 µF,50V
C105,106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 µF,50V
C109	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C122	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C131,132	VCKYMN1HB102K	J	AA	0.001 µF,50V
C133,134	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1CX683K	J	AA	0.068 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C146	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C147	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C150	VCQYKA1HM392K	J	AA	0.0039 µF,50V,Mylar
C151	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C152	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C304	VCTYMN1CY103N	J	AA	0.01 µF,16V
C305	VCCSMN1HL4R7C	J	AA	4.7 pF,50V
C306	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C308	VCCUMN1HJ4R7D	J	AA	4.7 pF (UJ),50V
C309	VCKYMN1HB102K	J	AA	0.001 µF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C311	VCCSMN1HL180J	J	AA	18 pF,50V
C312	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C314,315	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C317	VCKYMN1HB102K	J	AA	0.001 µF,50V
C318	VCKYBT1HB101K	J	AA	100 pF,50V
C319	VCKYPU1HB472K	J	AA	0.0047 µF,50V
C320	VCKYMN1HB101K	J	AA	100 pF,50V
C321	VCCSPA1HL560J	J	AA	56 pF,50V
C324	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V
C330	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C331	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C332	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C333	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C334	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C335	VCCUMN1HJ220J	J	AA	22 pF (UJ),50V
C350	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C351	VCKYMN1HB102K	J	AA	0.001 µF,50V
C352	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C353	VCKYMN1HB102K	J	AA	0.001 µF,50V
C354	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C355	VCKYMN1HB101K	J	AA	100 pF,50V
C356	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C357	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C380	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C381	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C382	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C383	VCKYMN1HB221K	J	AA	220 pF,50V
C384	VCTYMN0JY183M	J	AA	0.018 µF,6.3V
C385~387	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C388	CPU100V1500PJ	J	AC	0.0015 µF,100V, Polypropylene
C389,390	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAEA1CW226M	J	AB	22 µF,16V,Electrolytic
C392	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C393,394	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C395,396	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C397	VCCSPA1HL561J	J	AA	560 pF,50V
C401,402	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C403,404	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
C405,406	VCEAEA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C407,408	VCQYKA1HM184K	J	AC	0.018 µF,50V,Mylar
C409,410	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar
C411,412	VCEAEA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C413,414	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C415,416	VCTYMN0JY153M	J	AA	0.015 µF,6.3V
C417	VCQYKA1HM222K	J	AA	0.0022 µF,50V,Mylar
C418	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C419,420	VCQYKA1HM472K	J	AB	0.0047 µF,50V,Mylar
C421	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C422	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C423~426	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C427,428	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C429,430	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C431,432	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C433,434	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C435	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C436~438	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C439~442	VCKYMN1HB102K	J	AA	0.001 µF,50V
C443	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C444	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C445,446	VCKYMN1HB101K	J	AA	100 pF,50V
C447,448	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C449~458	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C459	VCEAZV1CW108M	J	AD	1000 µF,16V,Electrolytic
C460	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C461~464	VCKYMN1HB391K	J	AA	390 pF,50V
C465	VCKYPA1HB102K	J	AA	0.001 µF,50V
C471	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C472	VCCSPA1HL101J	J	AA	100 pF,50V
C473	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C474	VCQYKA1HM154K	J	AB	0.15 µF,50V,Mylar
C475	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C476	VCQYKA1HM154K	J	AB	0.15 µF,50V,Mylar
C477	VCCSPA1HL101J	J	AA	100 pF,50V
C478	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
C479	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C480	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C481	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C482	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C484	VCKYMN1HB102K	J	AA	0.001 µF,50V
C501	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C502,503	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C504	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C505	VCEAEA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C506	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C507	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C508	VCKYMN1HB681K	J	AA	680 pF,50V
C509	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C510,511	VCEAEA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C512,513	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C514	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
C515	VCQYKA1HM332K	J	AA	0.0033 µF,50V,Mylar
C516	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
C517	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
C518	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C519	VCEAEA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C520	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
C521	VCEAEA1HW334M	J	AB	0.33 µF,50V,Electrolytic
C522	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
C523,524	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C525	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C526	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
C527	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C528	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C529	VCEAEA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C530	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C531	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C532	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C533	VCEAEA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C534	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C535~538	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C539	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C540	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C541,542	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C543	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C544	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C546	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C547	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C549~551	VCKYMN1HB101K	J	AA	100 pF,50V
C563	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601,602	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C603,604	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C605,606	VCCSPA1HL101J	J	AA	100 pF,50V
C607	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C609,610	VCCSPA1HL101J	J	AA	100 pF,50V
C611,612	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C613	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C614	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C615~618	VCKYMN1HB102K	J	AA	0.001 µF,50V
C621	VCKYMN1HB102K	J	AA	0.001 µF,50V
C627	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C651	VCKYMN1HB271K	J	AA	270 pF,50V
C652	VCKYPA1HB103K	J	AA	0.01 µF,50V
C653	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C655,656	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C657	VCKYMN1HB271K	J	AA	270 pF,50V
C659	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C661~663	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C664~666	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C667	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C702	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C703,704	VCKYMN1HB102K	J	AA	0.001 µF,50V
C705	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C706	RC-EZD105AF1H	J	AB	1 µF,50V,Electrolytic
C707	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C708	VCCSMN1HL180J	J	AA	18 pF,50V
C709	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C710	RC-EZD227AF1A	J	AC	220 µF,10V,Electrolytic
C711	VCTYMN1CY103N	J	AA	0.01 µF,16V
C712	RC-EZD335AF1H	J	AB	3.3 µF,50V,Electrolytic
C713,714	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C715,716	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C717	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C718	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C719	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C721	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C722	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C723	RC-EZD104AF1H	J	AB	0.1 µF,50V,Electrolytic
C801	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C802	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C803,804	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C805~810	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C811	VCEAZV1HW227M	J	AD	220 µF,50V,Electrolytic
C812,813	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C814	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C815	VCEAZV1VW477M	J		470 µF,35V,Electrolytic
C816	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C817	VCEAEA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C818	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C819,820	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C821	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C822	VCEAEA1VW106M	J		10 µF,35V,Electrolytic
C823	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C824	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C825	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
⚠C826	RC-KZ001LAWZZ	J	AB	0.0047 µF,250VAC,Ceramic
C827	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C828	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C829	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C901	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C902	VCCSPA1HL221J	J	AA	220 pF,50V
C903	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C904	VCEAEA1VW106M	J		10 µF,35V,Electrolytic
C905	VCCSPA1HL221J	J	AA	220 pF,50V
C906	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C907	VCEAEA1VW106M	J		10 µF,35V,Electrolytic
C908	VCKYPA1HB102K	J	AA	0.001 µF,50V
C909,910	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C911,912	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C915	VCCSPA1HL470J	J	AA	47 pF,50V
C916	VCCSPA1HL150J	J	AA	15 pF,50V
C917,918	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C919,920	VCTYPA1EX152K	J	AA	0.0015 µF,25V
C921,922	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C923	VCCSPA1HL470J	J	AA	47 pF,50V
C924	VCCSPA1HL150J	J	AA	15 pF,50V
C925	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C926	VCCSPA1HL470J	J	AA	47 pF,50V
C927,928	VCEAZA1VW476M	J	AC	47 µF,35V,Electrolytic
C929	VCCSPA1HL150J	J	AA	15 pF,50V
C933	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C935	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C937	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C938	VCEAZA1VW476M	J	AC	47 µF,35V,Electrolytic
C940	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C941	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C942,943	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C944	VCEAZV1EW108M	J	AE	1000 µF,25V,Electrolytic
C945	VCEAZV1EW228M	J	AG	2200 µF,25V,Electrolytic
C949	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C959	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C976	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C978	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C979	VCEAEA1VW106M	J		10 µF,35V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R1	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R2	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R8	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R9	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R10	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R11	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R12	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R13	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R14	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R15	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R16	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R17	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R18	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R19	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R20	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R21	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R22	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R23	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R24	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R25	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R26	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R27	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R28	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R29	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R30	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R31	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R32	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R33	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R34	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R35,36	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R37	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R38	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R39	VRD-ST2CD102J	J	AA	1 kohm,1/6W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R40	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R41,42	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R43	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R44	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R45	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R46	VRS-TV2AB561J	J	AA	560 ohms,1/10W
R47	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R50	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R51	VRD-ST2CD335J	J	AA	3.3 Mohms,1/6W
R52	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R53	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R54	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R55	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R56	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R57	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R58~60	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R61~63	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R64	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R65	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R66	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R71,72	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R73,74	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R80,81	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R82,83	VRS-TV2AB391J	J	AA	390 ohms,1/10W
R84	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R88,89	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R90	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R91	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R93	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R112~114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131	VRD-MN2BD183J	J	AA	18 kohms,1/8W
R132	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R137,138	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R139,140	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R141,142	VRD-MN2BD560J	J	AA	56 ohms,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R154	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R158	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R160	VRD-RT2HD151J	J	AA	150 ohms,1/2W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R167	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R168	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R174	VRD-RT2HD151J	J	AA	150 ohms,1/2W
R181,182	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R301	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R315	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R316	VRD-MN2BD820J	J	AA	82 ohms,1/8W
R317	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R324	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R341	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R343	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R351	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R352	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R353	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R354~358	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R361	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R380	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R381	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R382	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R383	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R384	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R385	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R386	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R387	VRD-ST2EE681J	J	AA	680 ohms,1/4W
R389	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R390	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R391	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R393,394	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R395,396	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R397	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R398,399	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R401,402	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R403,404	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R405,406	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R407,408	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R409	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R410	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R411~413	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R414	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R415	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R416	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R417	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R418	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R419,420	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R421,422	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R423	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R424	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R425	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R426~428	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R429~432	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R433	VRD-MN2BD103J	J	AA	10 kohm,1/6W
R434	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R435,436	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R437~440	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R441~443	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R444	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R445~448	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R449,450	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R471,472	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R473	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R474	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R475	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R476	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R477	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R478	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R479	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R480	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R481	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R482	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R483	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R484	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R486	VRD-RT2HD6R8J	J	AA	6.8 ohms,1/2W
R501,502	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R503	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R504	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
R505,506	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R507	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R508	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R509	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R510	VRD-MN2BD183J	J	AA	18 kohms,1/8W
R511	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R512	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R513	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R514	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R515	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R516~518	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R519	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R520	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R521~523	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R601~604	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R605,606	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R607,608	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R609	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R610	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R611,612	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R613	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R614	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R615	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R616,617	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R618	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R619	VRD-MN2BD270J	J	AA	27 ohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R620	VRD-ST2CD270J	J	AA	27 ohms,1/6W
R621,622	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R623	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R624	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R625	VRD-MN2BD220J	J	AA	22 ohms,1/8W
R626	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R627	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R651	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R652	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R653	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R654	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R655	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R656	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R657	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R658	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R659	VRD-MN2BD564J	J	AA	560 kohms,1/8W
R660	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R661	VRD-MN2BD274J	J	AA	270 kohms,1/8W
R662	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R663	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R664	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R665	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R666	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R668	VRD-ST2CD225J	J	AA	2.2 Mohms,1/6W
R670	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R672	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R674	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R700	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R701~703	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R704~708	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R709~711	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R712	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R713,714	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R715	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R716	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R719	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R723	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R725	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R726,727	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R728,729	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R730~732	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R733,734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R735	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R736,737	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R738	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R739	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R740~744	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R745	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R746,747	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R748~750	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R751	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R752~757	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R759,760	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R761	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R762~768	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R770~772	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R773,774	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R775~779	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R780,781	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R782,783	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R784~789	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R790	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R791~793	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R795	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R797	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R798	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R799	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R801	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R806	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R807	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R808	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R809,810	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R812	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R813	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R901	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R902	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R903	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R904	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R905	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R906	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R907	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R908	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R909	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R910,911	VRD-ST2EE223J	J	AA	22 kohms,1/4W
⚠R912,913	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R916	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R917	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R918	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R919,920	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R921	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R922	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R923	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R924~926	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R927	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R928,929	VRD-ST2CD181J	J	AA	180 ohms,1/6W
R930	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R931	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R932	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R933	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R934	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R937	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R940	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R941,942	VRD-RT2HD271J	J	AA	270 ohms,1/2W
R944	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R949	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R955	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R956	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R957	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R959	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R960	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R961	VRD-ST2CD393J	J	AA	39 kohms,1/6W
R963	VRS-VV3DA681J	J	AC	680 ohms,2W
R964,965	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R966	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R967	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R968	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R969	VRD-RT2HD121J	J	AA	120 ohms,1/2W
RD1	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD2	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD3	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD4	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
RD5	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD6	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RD7	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD9	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RD10	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD11	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD12	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD13	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD14	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD15	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RD16	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD21	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD22	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD23	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD24	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD27	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD28	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RD29	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RD30	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RD31	VRD-MN2BD683J	J	AA	68 kohms,1/8W
RD32	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RS701~706	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS707	VRD-ST2CD471J	J	AA	470 ohms,1/6W
RS711	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RS712	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W

OTHER CIRCUITRY PARTS

BI1	QCNWN1473AWZZ	J	AF	Connector Ass'y,2Pin
BI99/CNS99	QCNWN1373AWZZ	J	AG	Connector Ass'y,3/3Pin
BI401/CNS11	QCNWN1462AWZZ	J	AH	Connector Ass'y,6/6Pin
BI701/CNSM1	QCNWN0907AWZZ	J	AC	Connector Ass'y,8-12Pin
BI702/CNS12	QCNWN1381AWZZ	J	AL	Connector Ass'y,15/15Pin
BI703/CNS806	QCNWN1475AWZZ	J	AF	Connector Ass'y,7/7Pin
BI801	QCNWN1480AWZZ	J	AD	Connector Ass'y,2Pin
BIM5/CNS10/CNS5	QCNWN1184AWZZ	J	AL	Connector Ass'y,6/10/2Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CNP10	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNP11	QCNCM704FAWZZ	J	AC	Plug,6Pin
CNP12	QCNCM704QAWZZ	J	AG	Plug,15Pin
CNP99	QCNCM704CAWZZ	J	AC	Plug,3Pin
CNP101	92LCONE3P53253	J	AB	Plug,3Pin
CNP102	92LCONE7P53253	J	AC	Plug,7Pin
CNP301	92LCONE-3P5268	J	AC	Plug,3Pin
CNP501	QCNCW010QAWZZ	J	AE	Socket,15Pin
CNP502	QCNCWZG25AWZZ	J	AE	Socket,25Pin
CNP601	92LCONE5P52287	J	AC	Socket,5Pin
CNP701	QCNCWZF25AWZZ	J	AE	Socket,25Pin
CNP801	QCNCM036BAWZZ	J	AC	Plug,2Pin
CNP802	QCNCM035GAWZZ	J	AC	Plug,7Pin
CNP803	QCNCM010QAWZZ	J	AD	Plug,15Pin
CNP804	92LCONE2P5267	J		Plug,2Pin
CNP805	QCNCM046CAWZZ	J	AD	Plug,3Pin
CNP806	92LCONE7P53253	J	AC	Plug,7Pin
CNPM1	QCNCM932MAFZZ	J	AE	Plug,12Pin
CNPM2	QCNCM030BAWZZ	J	AB	Pin Header,2Pin
CNS1A/B	QCNWN1181AWZZ	J	AK	Connector Ass'y,5-5Pin
CNS2A/B	QCNWN1182AWZZ	J	AH	Connector Ass'y,8-8Pin
CNS3A/B	QCNWN1183AWZZ	J	AG	Connector Ass'y,6-6Pin
CNS101	QCNWN1187AWZZ	J	AG	Connector Ass'y,3Pin
CNS102	QCNWN1188AWZZ	J	AM	Connector Ass'y,7Pin
CNS801	QCNCM036BAWZZ	J	AC	Connector Ass'y,2Pin
CNS804	QCNWN1463AWZZ	J	AC	Connector Ass'y,2Pin
⚠F802,803	92LFUSET502D	J	AC	Fuse,5A/125V
⚠F804	92LFUSET302D	J	AD	Fuse,3A/250V
⚠F805	92LFUSET202D	J	AD	Fuse,2A/250V
⚠F901~903	92LFUSE-T402D	J	AD	Fuse,4A/125V
FFC701	QCNWN1461AWZZ	J	AG	Flat Cable,25Pin
FL701	VVKBJ685GNK-1	J	AV	FL Display
FW601	QCNWN1477AWZZ	J	AD	Flat Cable,5Pin
FW701	QCNWN1092AWZZ	J	AE	Flat Cable,6Pin
FWM1	QCNWN1274AWZZ	J	AC	Flat Cable,2Pin
FWM2	QCNWN0338AWZZ	J	AD	Flat Cable,2Pin
IC99	VHPGP1F32T/-1	J	AP	Optical Fiber Data Link,GP1F32T
JK401	QSOCJ0405AWZZ	J	AH	Jack,Video In
JK601	QJAKM0004AWZZ	J	AK	Jack,Headphones
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Side]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J	AK	Motor,Air Cooling Fan
MM1(260-7)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
PHM1	VHPI31535CD-1	J	AG	Photo Interrupter
⚠RL801	RRLYD0011AWZZ	J	AE	Relay
RL901,902	RRLYD0004AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO901	QTANA1201AWZZ	J	AM	Terminal,Speaker
SOLM1(260-8)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
SOLM2	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [CD]
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf/Skeleton Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [POWER]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER/SLEEP]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOSE]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [REW]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [REC PAUSE]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [TUNER/BAND]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [FF]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING UP]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING DOWN]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS/DEMO]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [EQUALIZER]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [PHANTOM]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [NORMAL]
SW733	92LSWICH1401AT	J	AC	Switch,Key Type [BYPASS]
SWM3(260-9)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
SWM4(260-10)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S.]
SWM5(260-11)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
VR702	QSW-Z0005AWZZ	J	AM	Switch,Push Type [Volume Jog]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Side]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J	AM	CD Player Base
202	92LCAB3051AS1	J	BA	Front Panel Ass'y
202- 1	————		—	Front Panel (Not Replacement Item)
202- 2	JKNBZ0557AWSA	J	AE	Button,Disc No.
202- 3	JKNBZ0558AWSA	J	AE	Button,Open/Close/Disk Skip
202- 4	JKNBZ0559AWSA	J	AE	Button,Power
202- 5	JKNBZ0560AWSA	J	AE	Button,X-BASS/Demo
202- 6	JKNBZ0563AWSA	J	AG	Button,FF/REW/Tuning
202- 7	JKNBZ0565AWSA	J	AD	Button,Timer/Sleep/Clock
202- 8	JKNBZ0570AWSA	J	AD	Button,Dimmer/Equalizer
202- 9	JKNBZ0601AWSA	J	AE	Button,Dolby Pro Logic
202-10	KNOB3051AASY1	J	AK	Button,Function
202-11	HDECQ0412AWSA	J	AC	Operation Ring A
202-12	HDECQ0413AWSA	J	AF	Operation Ring B
202-13	HDECQ0414AWSA	J	AD	Cap,Operation Center
202-14	HDECQ0415AWSA	J	AD	Cover,LED
202-15	HDECQ0417AWSA	J	AE	Panel,Center Cap
202-16	HDECQ0418AWSA	J	AH	Panel,Decoration
202-17	HDECQ0419AWSA	J	AF	Decoration,Play Button
202-18	HDECQ0420AWSA	J	AE	Decoration,Stop Button
202-19	HDECQ0455AWSA	J	AH	Panel,AMP.
202-20	HDECQ0457AWSA	J	AC	Panel,Play Decoration
202-21	HDECQ0458AWSA	J	AC	Panel,Stop Decoration
202-22	MLIFP0006AWZZ	J	AE	Damper,Cassette Holder
202-23	PSHEP0031AWZZ	J	AC	Sheet,Reflector
203	92LMEC3051CTS1	J	AN	Cassette,Holder Ass'y,Tape 1
203- 1	————		—	Cassette Holder,Tape 1 (Not Replacement Item)
203- 2	GCOVA1221AWSB	J	AH	Cassette Cover,Tape 1
203- 3	HDECQ0408AWSA	J	AD	Panel,Cassette,Tape 1
204	92LMEC3051CTS2	J	AN	Cassette,Holder Ass'y,Tape 2
204- 1	————		—	Cassette Holder,Tape 2 (Not Replacement Item)
204- 2	GCOVA1222AWSB	J	AH	Cassette Cover,Tape 2
204- 3	HDECQ0409AWSA	J	AD	Panel,Cassette,Tape 2
205	KNOB3051BASY1	J	AG	Button,Volume Ass'y
205- 1	————		—	Button,Volume (Not Replacement Item)
205- 2	92LCSPR1431C	J	AA	Spring,Ring
205- 3	GCOVA1233AWZZ	J		Refelector B
206	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
207	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
208	92LHOLD3022AS1	J	AB	Stabilizer Ass'y
208- 1	————		—	Stabilizer (Not Replacement Item)
208- 2	PMAGF0001AWZZ	J	AF	Magnet,Stabilizer
208- 3	92LSUPT1749D	J	AA	Support,Stabilizer Magnet

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
209	MLEVP0067AWZZ	J	AC	Lever,Lock
210	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
211	LHLDZ1141AWZZ	J	AB	Support,Pitch
212	MLEVP0066AWZZ	J	AE	Lever,Shift
213	MLEVP0068AWZZ	J	AB	Lever,Change
214	MSPRC0024AWFW	J	AB	Spring,Solenoid
215	NBLTK0033AWZZ	J	AC	Belt,Drive
216	NGERH0064AWZZ	J	AD	Gear,Cam
217	NGERH0065AWZZ	J	AB	Gear,Turntable
218	NGERK0003AWZZ	J	AC	Gear,Drive
219	NGERK0004AWZZ	J	AB	Gear,Bevel
220	NGERK0005AWZZ	J	AB	Gear,Loading
221	NGERW0006AWZZ	J	AC	Gear,Worm Wheel
222	NPLYD0002AWZZ	J	AC	Pulley
223	LANGF0032AWZZ	J	AC	Support,T/T Lock Lever
224	LCHSZ0010AWZZ	J	AM	Chassis,Loading
225	LHLDZ1140AWZZ	J	AB	Guide
226	MLEVP0070AWZZ	J	AB	Lever,T/T Lock
227	MSPRC0020AWFJ	J	AB	Spring,T/T Lock Lever
228	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
229	NROLP0009AWZZ	J	AB	Roller
230	NTNT-0018AWSA	J	AK	Turntable
231	PCOVZ1013AWZZ	J	AB	Cover,Wire
232	PCUSG0022AWZZ	J	AB	Cushion,Leg
233	92LCOV3022AS1	J		CD Tray Cover Ass'y
233- 1	————	J	—	Cover,CD Tray (Not Replacement Item)
233- 2	92LBADGE1671A	J	AC	Badge,SHARP
233- 3	GCOVA1224AWSA	J	AE	Cover,CD Tray Panel,Left
233- 4	GCOVA1225AWSA	J	AE	Cover,CD Tray Panel,Right
234	GCAB-1052AWSA	J	AP	Top Cabinet
235	GCOVA1232AWZZ	J	AC	Cover,Volume Refector A
236	92LN-BAND1318A	J	AA	Nylon Band,80mm
237	JKNBK0069AWSA	J	AE	Knob,Sub Woofer
238	LANGK0168AWFW	J	AD	Bracket,Main PWB Support
239	PCUSG0022AWZZ	J	AB	Cushion,Leg
240	92LCAB3051BS1	J		Side Panel Ass'y,Left
240- 1	————	J	—	Side Panel,Left (Not Replacement Item)
240- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
241	92LCAB3051CS1	J		Side Panel Ass'y,Right
241- 1	————	J	—	Side Panel,Right (Not Replacement Item)
241- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
242	LANGK0114AWFW	J	AF	Bracket,Motor Fan Support
243	LBSHC0005AWZZ	J	AD	Bushing,AC Power Supply Cord
245	LCHSM0085AWFW	J	AR	Main Chassis
246	NFANP0001AWZZ	J	AD	Rotary Fan
247	GITAR0431AWSA	J	AP	Back Board [For U.S.A.]
247	GITAR0439AWSA	J		Back Board [For Central America]
247	GITAR0441AWSA	J	AP	Back Board [For Canada]
⚠248	QFSHD0001AWZZ	J	AB	Holder,Fuse
⚠249	QACCD0022AWZZ	J	AM	AC Power Supply Cord
250	PRDAR0135AWFW	J	AS	Heat Sink,Main
251	QLUPG0001AWZZ	J		Lug Terminal
252	PRDAR0136AWFW	J	AR	Heat Sink,Sub
253	92LCSPR1431C	J	AA	Spring,Ring
254	LHLDZ1225AWZZ	J	AC	Holder,Dolby
255	LHLDZ1227AWZZ	J	AC	Holder,Volume
256	LHLDZ1228AWZZ	J	AC	Holder,Play,Stop
257	LHLDZ1226AWZZ	J	AC	Holder,Function
258	LHLDZ1213AWZZ	J	AE	Holder,FL
259	LHLDZ1204AWSA	J	AD	Bracket,Stabilizer
260	92LMEC3051AS1	J	BK	Tape Mechanism Ass'y
260- 1	NBLTK0011AWZZ	J	AC	Belt,Main
260- 2	NBLTK0012AWZZ	J	AB	Belt,Main
260- 3	NBLTK0030AWZZ	J	AC	Belt,Sub
260- 4	NROLY0002AWZZ	J	AF	Pinch Roller Ass'y
260- 5	RHEDA0001AWZZ	J	AG	Head,Erase
260- 6	92LMRPH1746A	J	AM	Head,Record/Playback
260- 7(MM1)	RMOTV0006AWM1	J	AR	Motor with Pulley
260- 8(SOLM1)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y
260- 9(SWM3)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
260-10(SWM4)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S.]
260-11(SWM5)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
261	LHLDF1001AWZZ	J	AC	Holder,PWB
262	LANGK0170AWFW	J	AC	Bracket,Headphones Support
263	QCNWN1481AWZZ	J		Lug Wire
264	LHLDZ1229AWZZ	J	AC	Holder,Multi Indicator
601	XEBSF30P12000	J	AA	Screw,ø3×12mm
602	XJBSF30P08000	J	AA	Screw,ø3×8mm
603	XJBSD30P08000	J	AA	Screw,ø3×8mm
604	XJBSD30P10000	J	AA	Screw,ø3×10mm
605	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
606	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
607	XBBSD20P04000	J	AA	Screw,ø2×4mm
608	XJBSF30P10000	J	AA	Screw,ø3×10mm
610	XESSD30P10000	J	AA	Screw,ø3×10mm
611	XJSSF30P10000	J	AA	Screw,ø3×10mm
612	XWHJZ62-09510	J	AB	Washer,ø6.2×ø10×0.9mm
613	XEBSD30P10000	J	AA	Screw,ø3×10mm
614	LX-JZ0002AWFD	J	AA	Screw,ø3×10mm
615	LX-EZ0005AWFD	J	AA	Screw,Special
616	XEBSD30P12000	J	AA	Screw,ø3×12mm
617	XBPSD26P05JSO	J	AB	Screw,ø2.6×5mm
618	LX-TZ0019AFZZ	J	AB	Screw,Special
619	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
620	XJBSD30P12000	J	AA	Screw,ø3×12mm
621	XJSSD30P10000	J	AA	Screw,ø3×10mm
622	XJBSD30P14000	J	AA	Screw,ø3×14mm

PACKING PARTS (For Canada Only)

	SPAKA0210AWZZ	J	AM	Packing Add.,Left/Right,Unit
	SPAKC0737AWZZ	J	AY	Packing Case [Except for Canada]
	SPAKC0757AWZZ	J	AY	Packing Case [For Canada]
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	TLABR1021AWZZ	J	AB	Label,Bar Code
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
	92L41-05-0300	J		Packing Add.,Top/Bottom,Center Speaker/Rear Speaker
	92L41-08-0350	J		Polyethylene Bag,Center Speaker
	92L41-08-0350	J		Polyethylene Bag,Rear Speaker
	92L411-0075	J	AG	Polyethylene Bag,Front Speaker
	92L411-0101	J	AD	Polyethylene Bag,Sub Woofer
	92L412-0126	J		Packing Add.,Top/Bottom,Front Speaker
	92L412-0127	J		Packing Add.,Top/Bottom,Sub Woofer
	92L414-0023	J	AC	Sheet,Sub Woofer
	92L416-0060	J		Center Pad,Front Speaker

ACCESSORIES

	QANTL0007AWZZ	J	AK	AM/FM Loop Antenna
	TINSE0237AWZZ	J	AE	Operation Manual [For U.S.A.]
	TINSK0081AWZZ	J	AG	Operation Manual [For Canada]
	TINSZ0398AWZZ	J		Operation Manual [For Central America]
	TINSZ0404AWZZ	J	AB	Quick Guide [For U.S.A. Only]
	TLABZ0513AWZZ	J	AB	Label,Feature Tape 1
	TLABZ0514AWZZ	J	AB	Label,Feature Tape 2
	RRMCG0181AWSA	J	AS	Remote Control
	GFTAB1022AWSA	J		Battery Lid,Remote Control

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

PWB-A1~4	92LPWB3051MANS	J	—	Main/Display/Switch/Headphones (Combined Ass'y)
PWB-B	92LPWB3022CDUS	J	—	CD Servo
PWB-C1,2	92LPWB3051PWRS	J	—	Power/Digital Output (Combined Ass'y)
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	QPWBF0341AWZZ	J	AB	Sensor (PWB Only)
PWB-F	QPWBF0106AWZZ	J	AF	Tape Mechanism (PWB Only)

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

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SPEAKER BOX PARTS FRONT SPEAKER

901	92L121-0168	J	AU	Net Frame Ass'y
902	92L051-0071	J	AW	Cabinet Ass'y
903	92L312-0076	J	AS	Front Panel
904	92L122-0043	J	AG	Speaker Cord Ass'y
905	92L319-0027	J	AE	Holder,PL

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
906	92L372-0106	J	AB	Screw,ø4×12mm
907	92L372-0108	J	AC	Screw,ø3×10mm
908	92L351-0326	J	AC	Label,Specifications
SP1,2	VSP0013WB426A	J	AZ	Woofer
SP3,4	VSP0050TBM66A	J		Tweeter

GBOXS0022AWM1

SPEAKER BOX PARTS CENTER SPEAKER

901	92L60-00-0760	J	AR	Net Frame Ass'y
902	92L32-01-0370	J	AX	Bottom Cabinet
903	92L37-03-0120	J	AG	Speaker Cord
904	92L35-02-0320	J	AB	Screw,ø3×14mm
905	92L33-01-0940	J	AC	Label,Parts Code
SP1	VSP0010PBY04A	J	AW	Woofer

GBOXS0023AWM1

SPEAKER BOX PARTS REAR SPEAKER

901	92L60-00-0770	J	AT	Net Frame Ass'y
902	92L32-01-0380	J	AR	Bottom Cabinet
903	92L37-03-0110	J	AK	Speaker Cord
904	92L35-02-0320	J	AB	Screw,ø3×14mm
905	92L33-01-0940	J	AC	Label,Parts Code
SP1,2	VSP0010PBY78A	J	AR	Woofer

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SPEAKER BOX PARTS SUB WOOFER

901	92L121-0169	J	AV	Net Frame Ass'y
902	92L051-0072	J	AY	Cabinet Ass'y
903	92L291-0081	J	AH	Bushing,Speaker Cord
904	92L316-0069	J		Duct Panel
905	92L372-0107	J	AB	Screw,ø4×14mm
906	92L394-0036	J	AM	Port Cushion
907	92L351-0327	J	AC	Label,Specifications
SP1	VSP0013WB416A	J	BA	Woofer

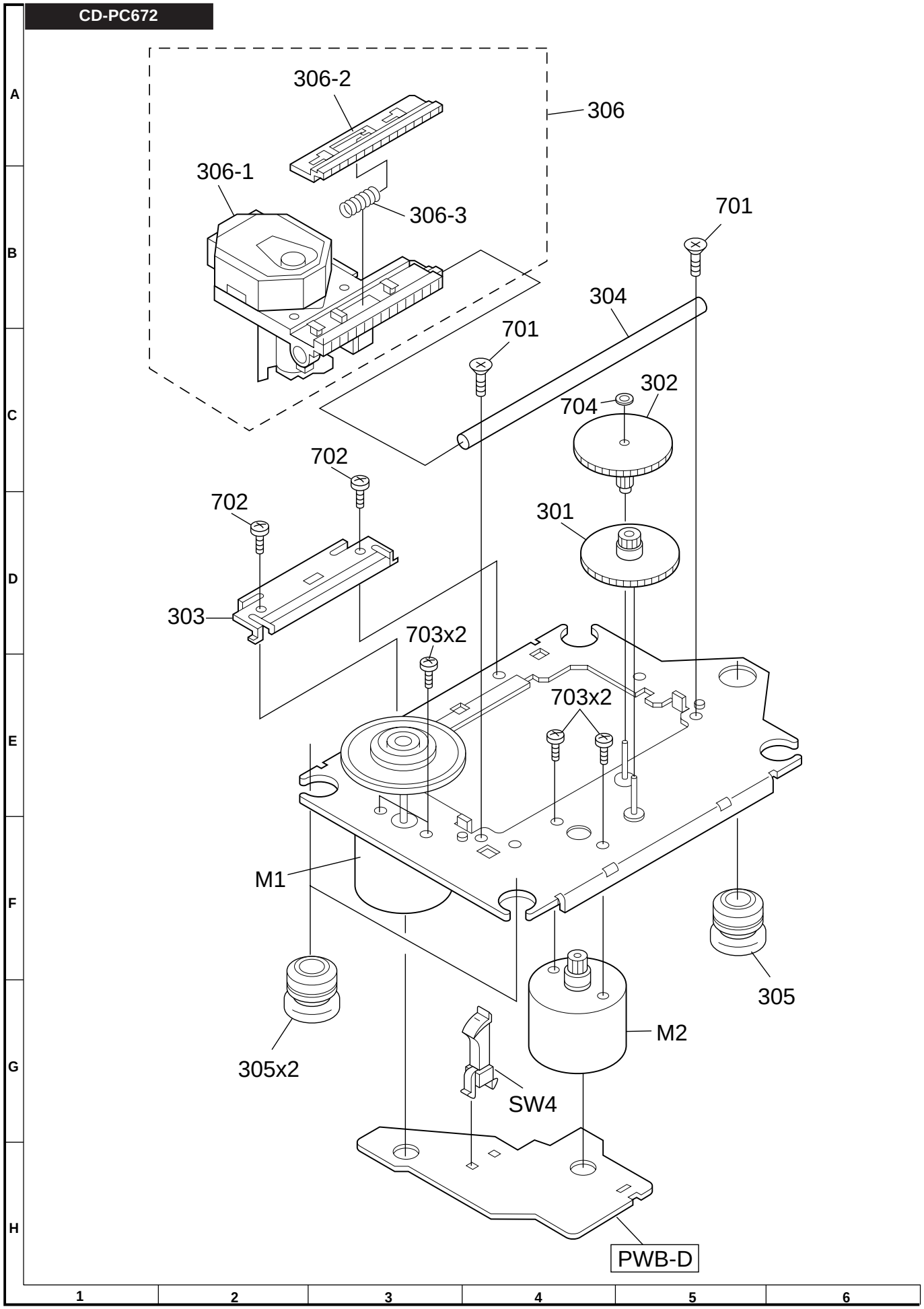
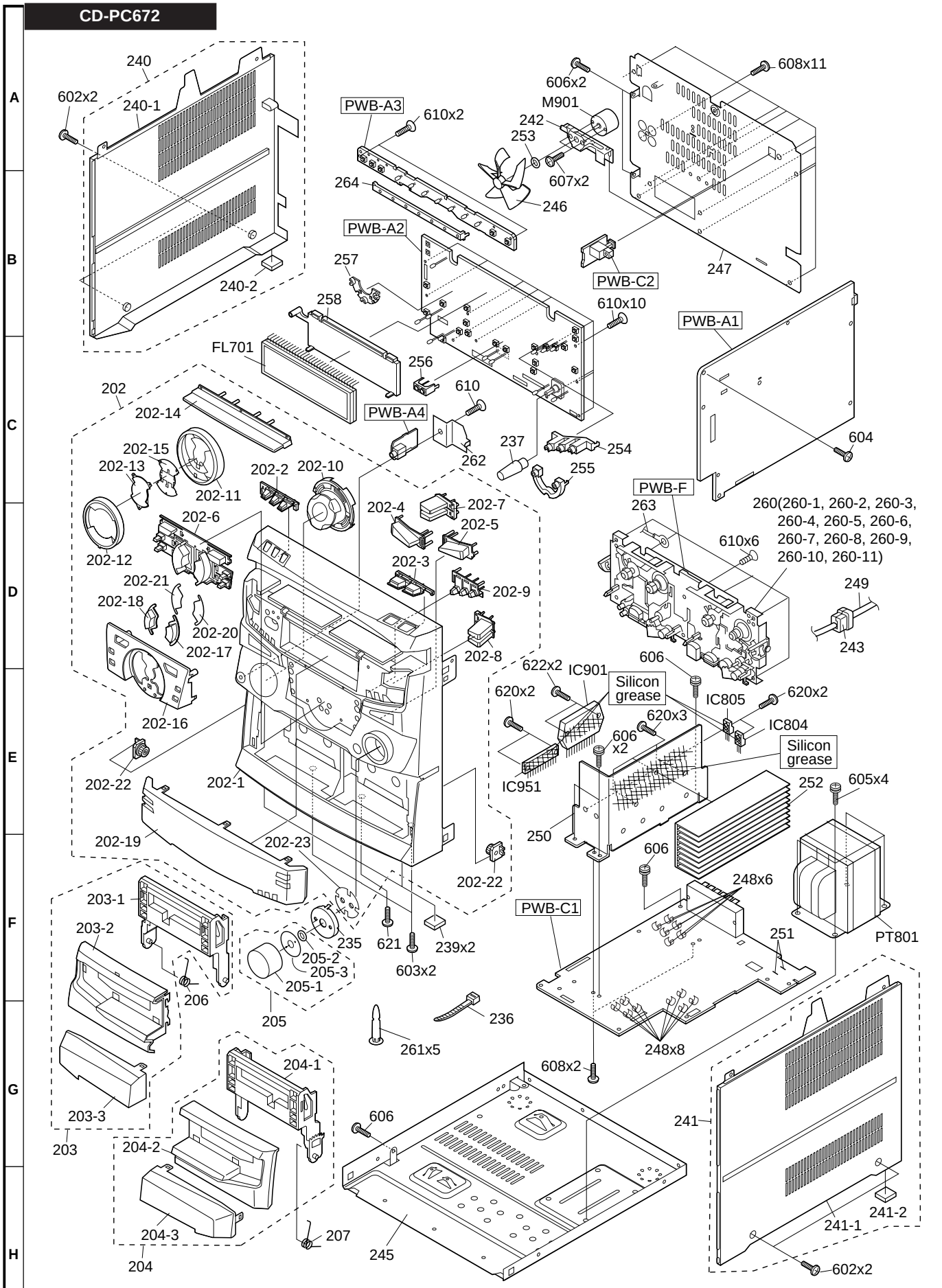


Figure 9 CD MECHANISM EXPLODED VIEW



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

Figure 10 CABINET EXPLODED VIEW (1/2)

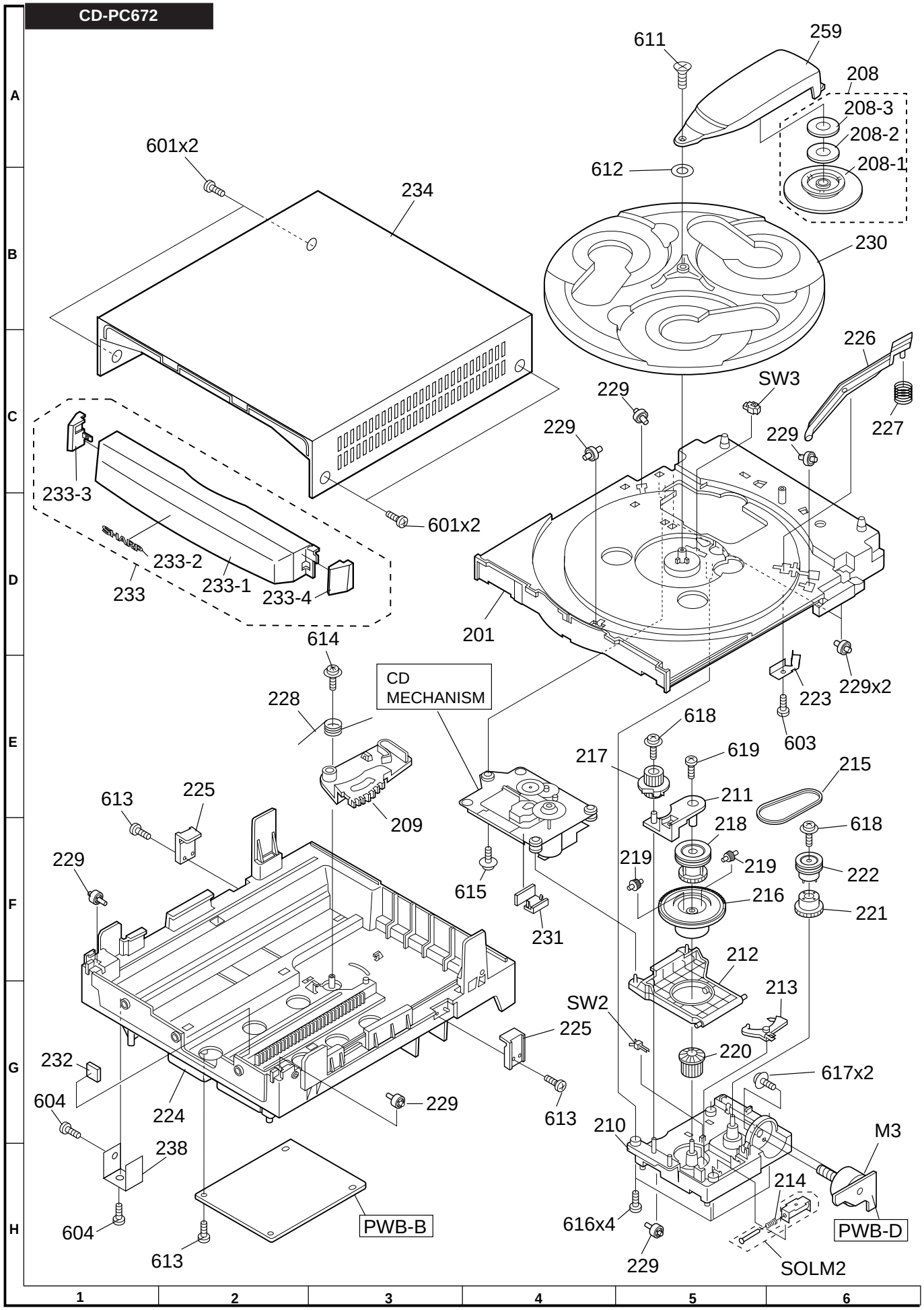


Figure 11 CABINET EXPLODED VIEW (2/2)

CP-C672

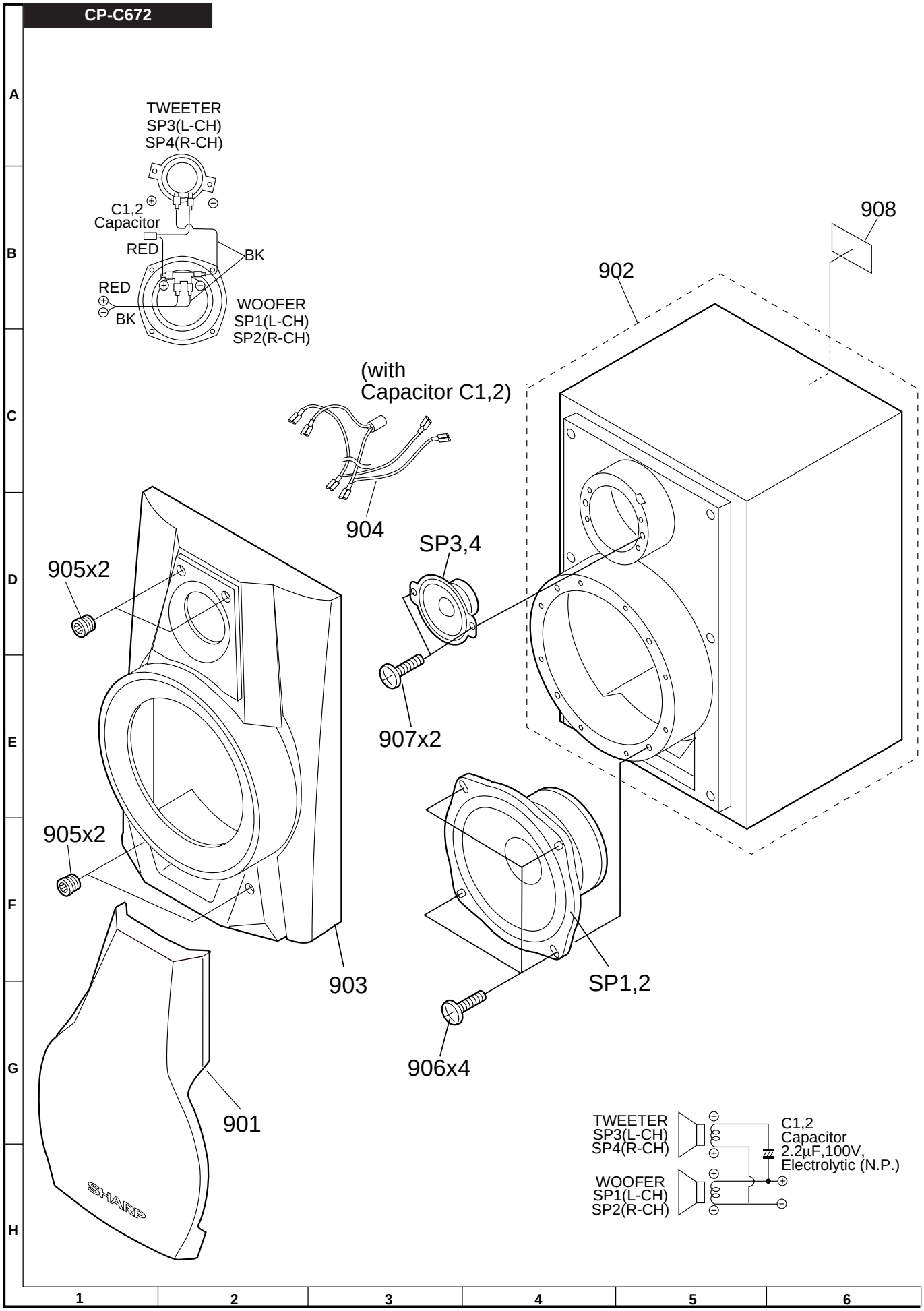


Figure 12 SPEAKER EXPLODED VIEW (1/3)

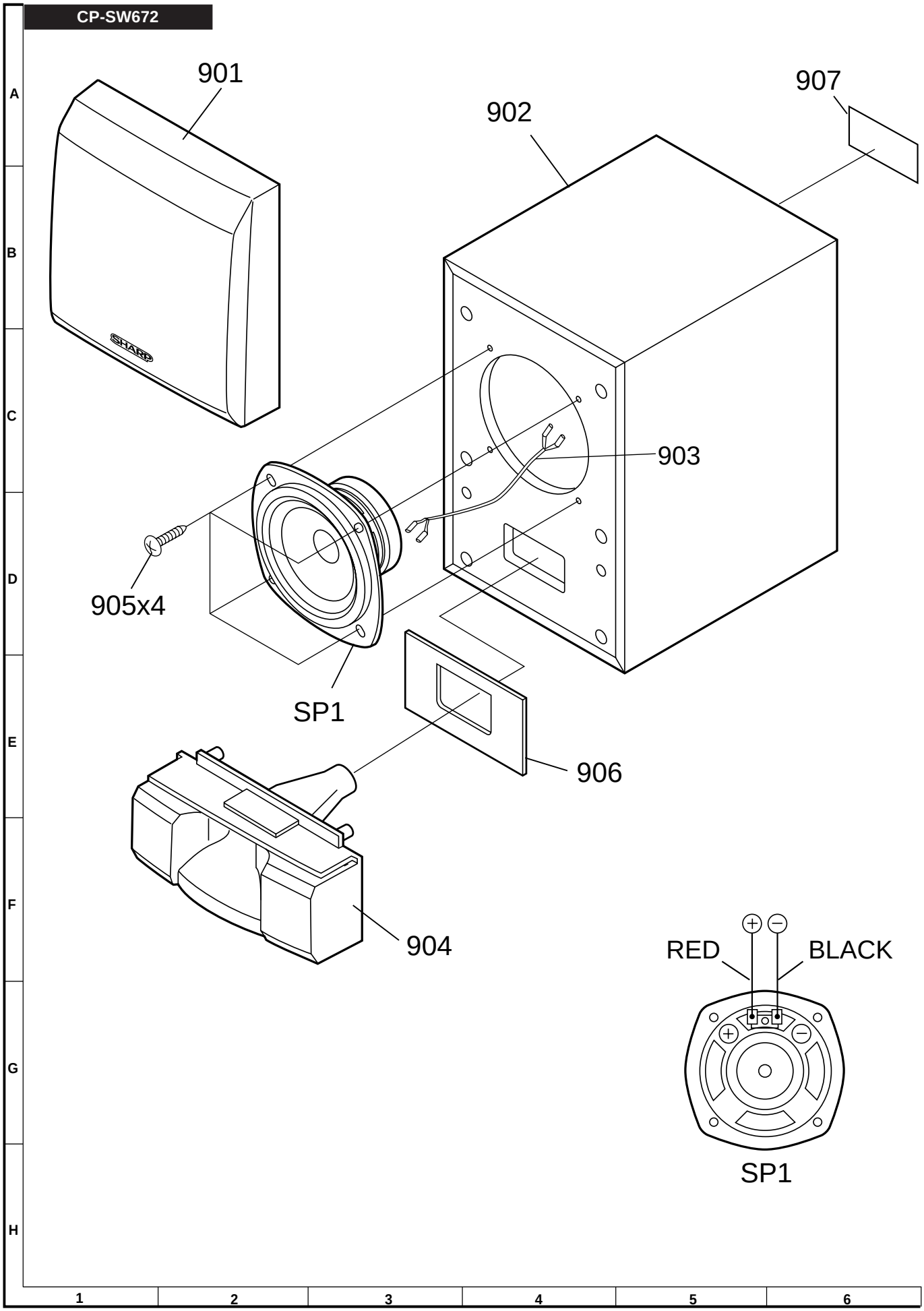


Figure 13 SPEAKER EXPLODED VIEW (2/3)

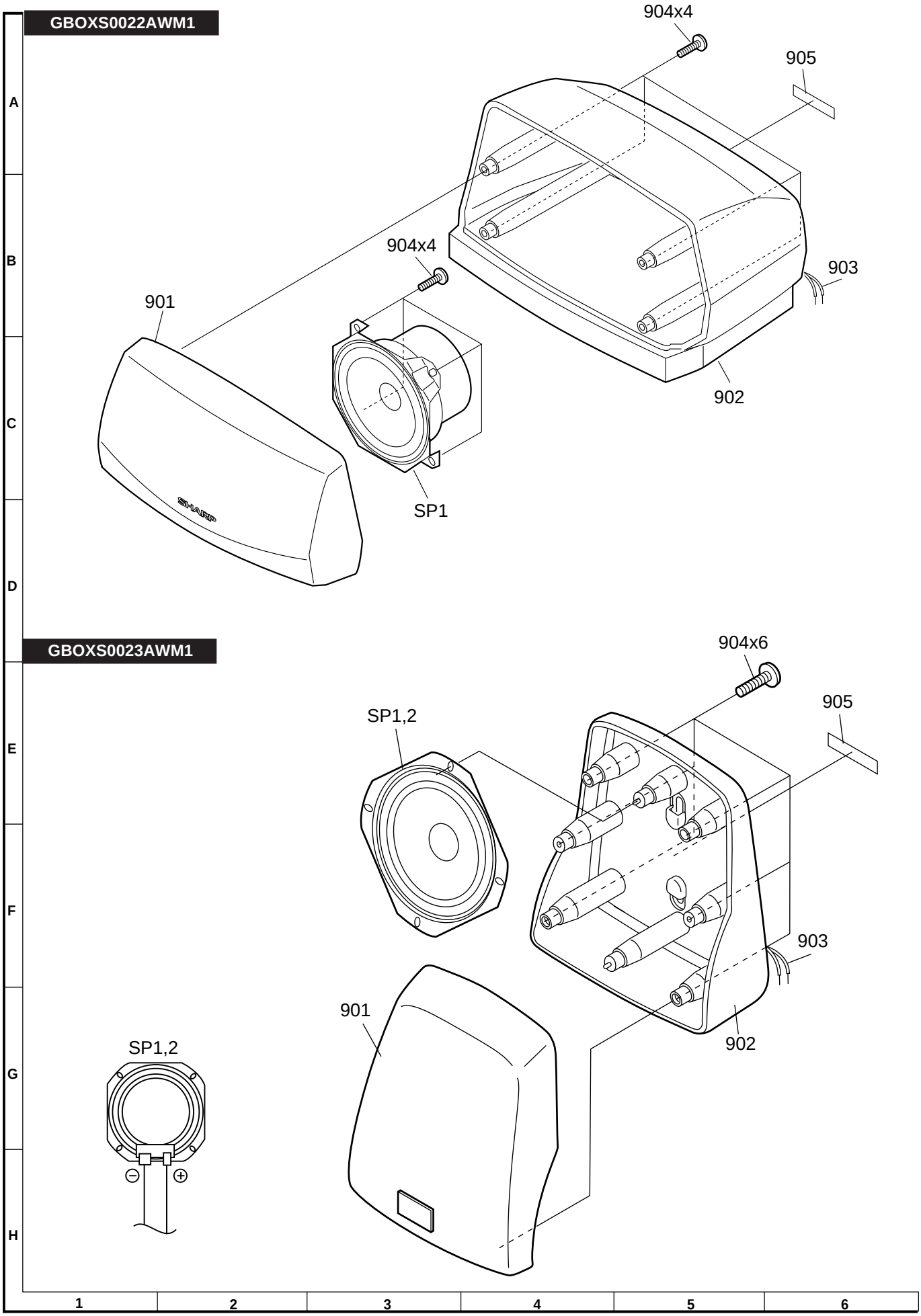
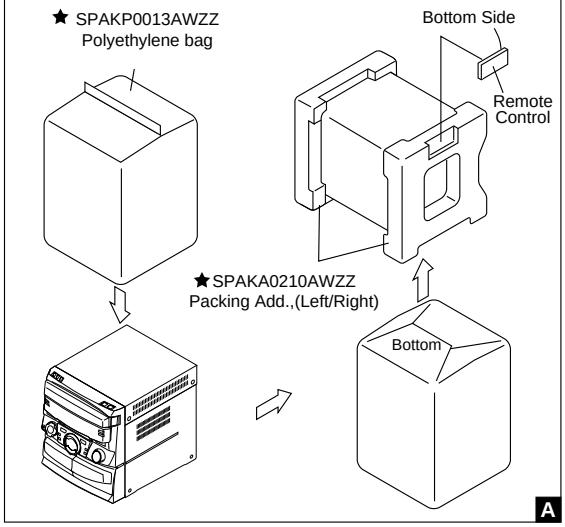


Figure 14 SPEAKER EXPLODED VIEW (3/3)

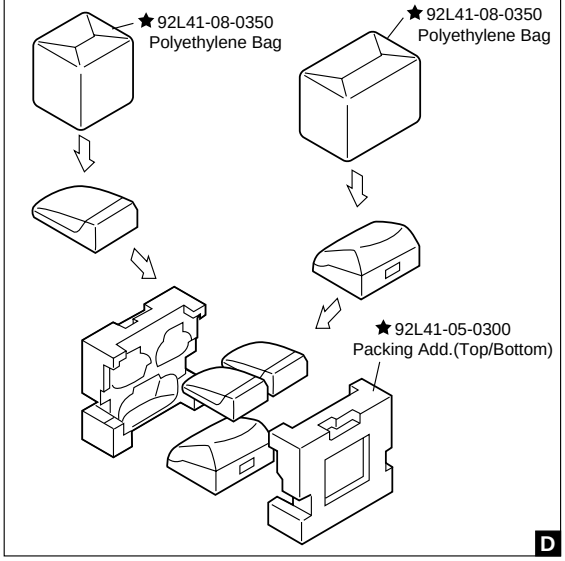
PACKING OFF THE SET (For U.S.A. Only)

Setting position of switches and knobs	
Tape Mechanism	STOP

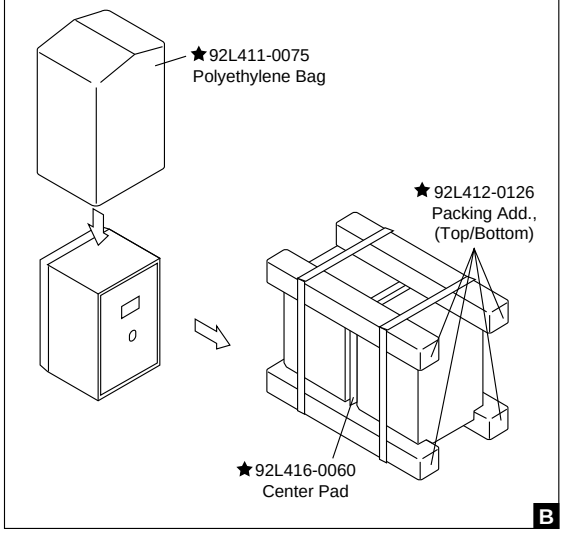
UNIT

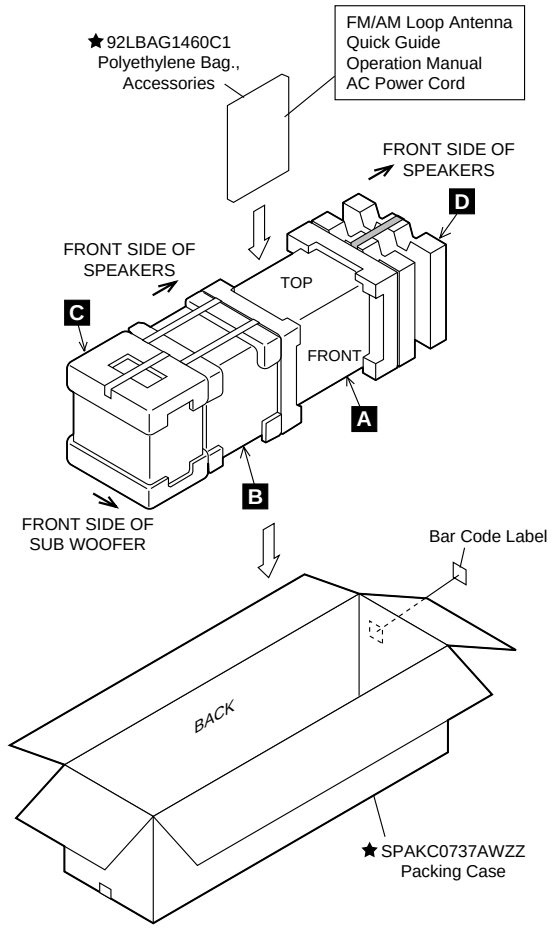


Rear Speaker (L/R)	Center Speaker
GBOXS0023AWM1	GBOXS0022AWM1

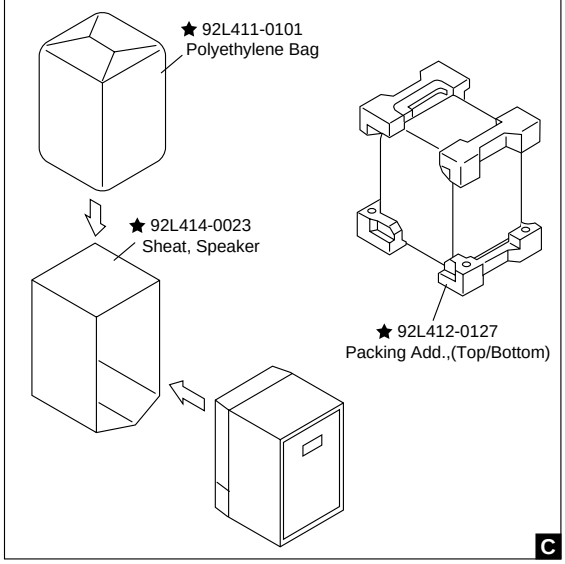


Front Speaker(L/R) | **CP-C672**





Sub Woofer | **CP-SW672**



★ Not Replacement Item