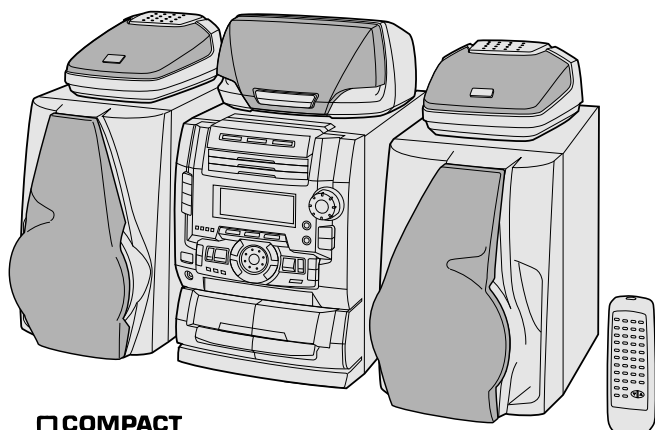


SHARP SERVICE MANUAL

No. S4827CDC5H///



CD-C5H CP-C5H

Center Speaker (GBOXS0008AWM2) and Surround Speaker (GBOXS0009AWM2), Constitute CP-C5H.

CD-C5H and CP-C5H constitute CD-C5H.

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

COMPACT
disc
DIGITAL AUDIO

CD **R-D-SEON**

- SRS technology Licensed from SRS Labs. SRS technology holds the following patents: U.S. Patent No. 4,748,669 and U.S. Patent No. 4,841,572.
- **SRS**, the SRS Logo (●) and the **SOUND RETRIEVAL SYSTEM** are registered trademarks of SRS Labs, Inc. in the United States.
- QSound and the QLogo are registered trademarks of QSound Labs, Inc.
- QSound is protected under US Patent Nos. 5,105,462 and 5,208,860 and foreign counterparts.

DOLBY SURROUND
PRO • LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol **DD** and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

DOLBY B NR

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol **DD** are trademarks of Dolby Laboratories Licensing Corporation.

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SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

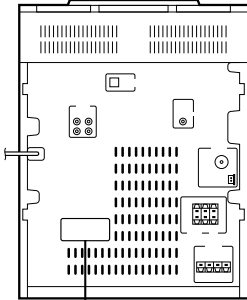
THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

- 1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITHOUT A COMPACT DISC IN POSITION AND THE PICK-UP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICK-UP LENS.
- 2-THE LASER POWER OUTPUT OF THE PICK-UP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRE-SET BEFORE SHIPMENT.
DO NOT ATTEMPT TO RE-ADJUST THE LASER PICK-UP UNIT DURING REPLACEMENT OR SERVICING.
- 3-UNDER NO CIRCUMSTANCES STARE INTO THE PICK-UP LENS AT ANY TIME.
- 4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

● CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

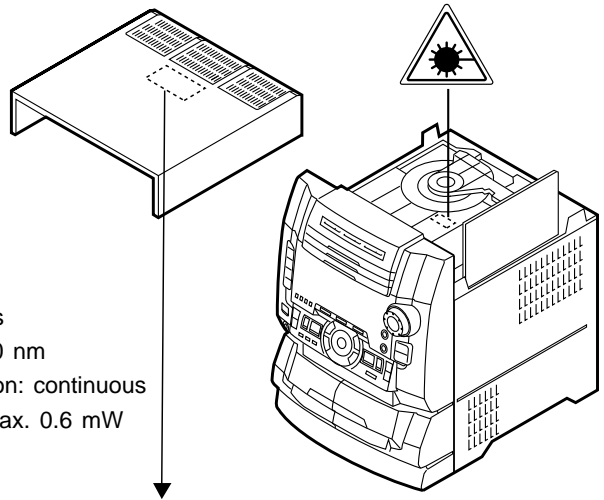
As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.



CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TRÍDY 1
LASER TRIEDY 1

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



CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLNING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ TUJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LAPPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLNING NÄR DEKSEL ÄPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

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

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

VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

SPECIFICATIONS

CD-C5H

● General

Power source:	AC 230 V, 50 Hz
Power consumption:	205 W
Dimensions:	Width; 270 mm (10-5/8") Height; 356 mm (14-3/16") Depth; 355 mm (14")
Weight:	11.0 kg (24.3 lbs.)

● Amplifier section

Output power:	PMPO; 640 W (total) (Front) MPO; 320 W (160 W + 160 W) (DIN 45 324) RMS; 200 W (100 W + 100 W) (DIN 45 324) (Centre) MPO; 100 W (DIN 45 324) RMS; 50 W (DIN 45 324) (Surround) MPO; 100 W (50 W + 50 W) (DIN 45 324) RMS; 50 W (25 W + 25 W) (DIN 45 324)
Input terminals:	Video/Auxiliary (audio signal) × 2; 500 mV/47 kohms
Output terminals:	Front speakers; 6 ohms Centre speaker; 6 ohms Surround speakers; 12 ohms Headphones; 16-50 ohms (recommended; 32 ohms) CD digital output (optical) Pre-output for sub woofer; 1.2 V/47 kohms

● Compact disc player section

Type:	3-disc multi-play compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
Rotational speed:	200 - 500 rpm CLV, Approx.
Error correction:	CIRC (Cross Interleave Reed-Solomon Code)
Quantization:	16-bit linear
Filter:	8-times oversampling digital filter
D/A converter:	1-bit D/A converter
Frequency response:	20 - 20,000 Hz
Dynamic range:	90 dB (1 kHz)
Wow and flutter:	Unmeasurable (less than 0.001% W. peak)

● Tuner section

Frequency range:	FM; 87.5 - 108 MHz MW; 522 - 1,620 kHz LW; 153 - 281 kHz
-------------------------	--

● Cassette deck section

Type:	Compact cassette tape
Frequency response:	50 - 14,000 Hz (Normal tape) 50 - 15,000 Hz (CrO ₂ tape)
Motor:	DC motor with electronic governor × 1
Signal/noise ratio:	55 dB (TAPE 1, playback, Dolby NR off) 50 dB (TAPE 2, recording/playback, Dolby NR off) Dolby NR effect; 10 dB (at over 5 kHz)
Bias and erasure system:	AC
Tape speed:	4.76 cm/sec. (1-7/8 ips.)
Wow and flutter:	0.2 % (DIN 45 511, playback)
Heads:	TAPE-1: Playback × 1 TAPE-2: Record/playback × 1 Erase × 1

CP-C5H

● Front speaker section

Type:	3-way type [16 cm (6-1/2") woofer, 5 cm (2") tweeter and super tweeter]
Rated input power:	100 W
Maximum input power:	200 W
Impedance:	6 ohms
Dimensions:	Width; 240 mm (9-1/2") Height; 350 mm (13-13/16") Depth; 349.5 mm (13-13/16")
Weight:	5.7 kg (12.6 lbs./each)

GBOXS0008AWM2

● Centre speaker section

Type:	2-way [12 cm (4-3/4") woofer and 5 cm (2") tweeter]
Maximum input power:	100 W
Impedance:	6 ohms
Dimensions:	Width; 270 mm (10-5/8") Height; 142 mm (5-5/8") Depth; 220 mm (8-11/16")
Weight:	1.8 kg (4.0 lbs.)

GBOXS0009AWM2

● Surround speaker section

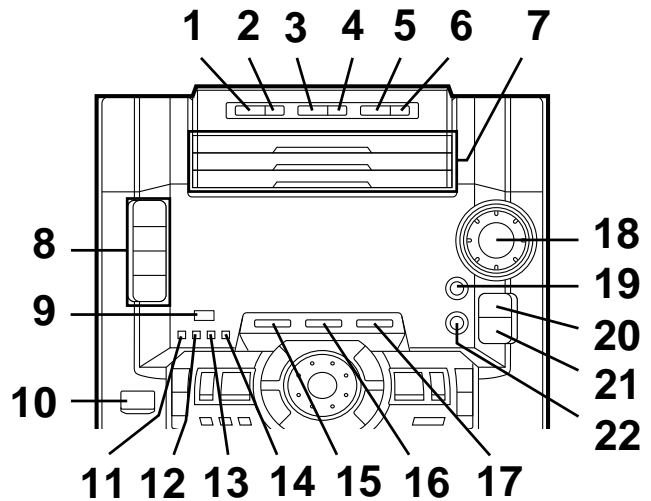
Type:	10 cm (4") full-range speaker
Maximum input power:	50 W
Impedance:	12 ohms
Dimensions:	Width; 200 mm (7-7/8") Height; 114 mm (4-1/2") Depth; 240 mm (6-15/16")
Weight:	1.1 kg (2.5 lbs./each)

NAMES OF PARTS

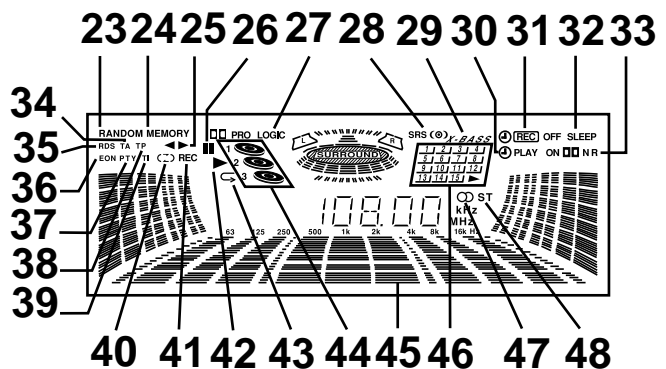
CD-C5H

■ Front panel

1. Disc 1 Select/Direct Play Button
2. Disc 1 Open/Close Button
3. Disc 2 Select/Direct Play Button
4. Disc 2 Open/Close Button
5. Disc 3 Select/Direct Play Button
6. Disc 3 Open/Close Button
7. Disc Trays
8. Function Selector Buttons
9. Remote Control Sensor
10. On/Stand-by Button
11. Programme Type/Traffic Information Search Button
12. EON Button
13. ASPM Button
14. Display Mode Selector Button
15. Dolby Pro Logic Button
16. Virtual Surround Button
17. QSOUND Button
18. Volume Control
19. Extra Bass Button
20. 3D Surround Mode Button
21. 3D Surround Pass Button
22. Equalizer Selector/Demo Mode Button

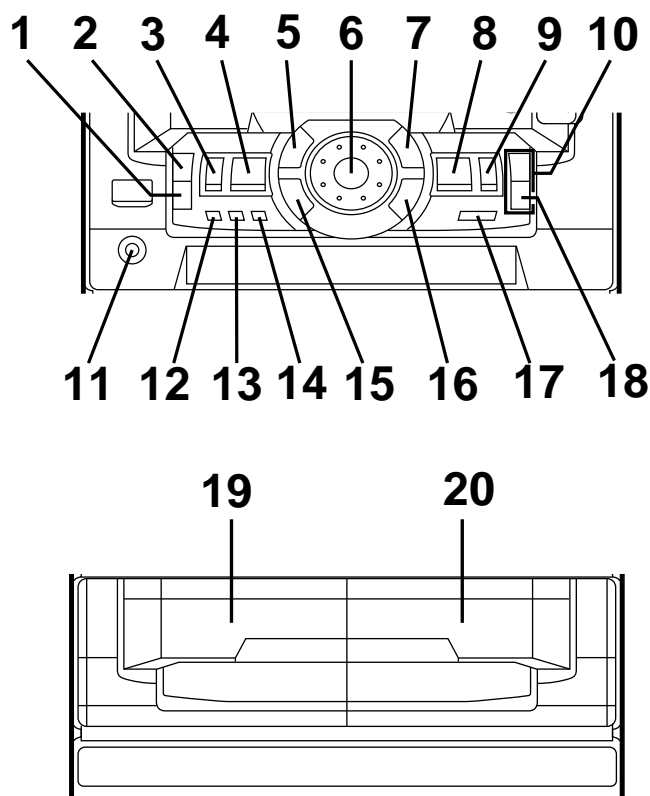


23. (CD) Random Play Indicator
24. (CD/TUNER) Memory Indicator
25. (TAPE 2) Direction Indicators
26. (CD) Pause Indicator
27. Dolby Pro Logic Indicator
28. SRS Indicator
29. Extra Bass Indicator
30. Timer Play Indicator
31. Timer Record Indicator
32. Sleep Indicator
33. (TAPE) Dolby NR Indicator
34. Traffic Announcement Indicator
35. RDS Indicator
36. EON Indicator
37. Programme Type Indicator
38. Traffic Programme Indicator
39. Traffic Information Indicator
40. (TAPE) Reverse Mode Indicator
41. (TAPE) Record Indicator
42. (CD) Play Indicator
43. (CD) Repeat Indicator
44. (CD) Disc Number Indicators
45. Spectrum Analyzer/Volume Level Indicator
46. (CD) Music Schedule Indicators
47. FM Stereo Indicator
48. FM Stereo Mode Indicator



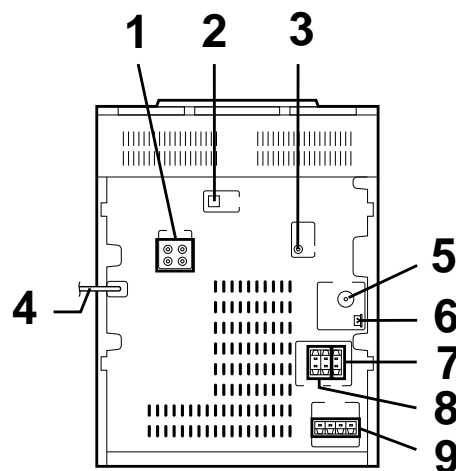
1. (CD) Clear Button
2. Memory/Set Button
3. (TAPE) Reverse Mode Button
4. (TAPE) Reverse Play Button
5. (TUNER) Tuning Down Button
(CD) Track Down/Review Button
(TAPE) Fast Wind Button
6. Jog Dial
7. (TUNER) Tuning Up Button
(CD) Track Up/Cue Button
(TAPE) Fast Wind Button
8. (CD) Play/Repeat Button
(TAPE) Forward Play Button
9. (TAPE) Record Pause Button
10. (TAPE) Editing Speed Selector Buttons
11. Headphone Socket
12. Clock Button
13. Timer Button
14. Sleep Button
15. (CD) Pause Button
16. (CD/TAPE) Stop Button
17. (TAPE) Dolby NR Button
18. Beat Cancel Button

19. (TAPE 1) Cassette Compartment
20. (TAPE 2) Cassette Compartment



■ Rear panel

1. Video/Auxiliary (Audio Signal) Input Sockets
2. CD Digital Output Socket
3. Super Woofer Output Socket
4. AC Power Lead
5. FM 75 Ohms Aerial Socket
6. MW/LW Loop Aerial Input Socket
7. Centre Speaker Terminals
8. Surround Speaker Terminals
9. Front Speaker Terminals



CD-C5H,CP-C5H

■ Remote control

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

● Tuner control section

9. Programme Type/Traffic Information Search Button
10. Preset Up/Down Buttons

● CD control section

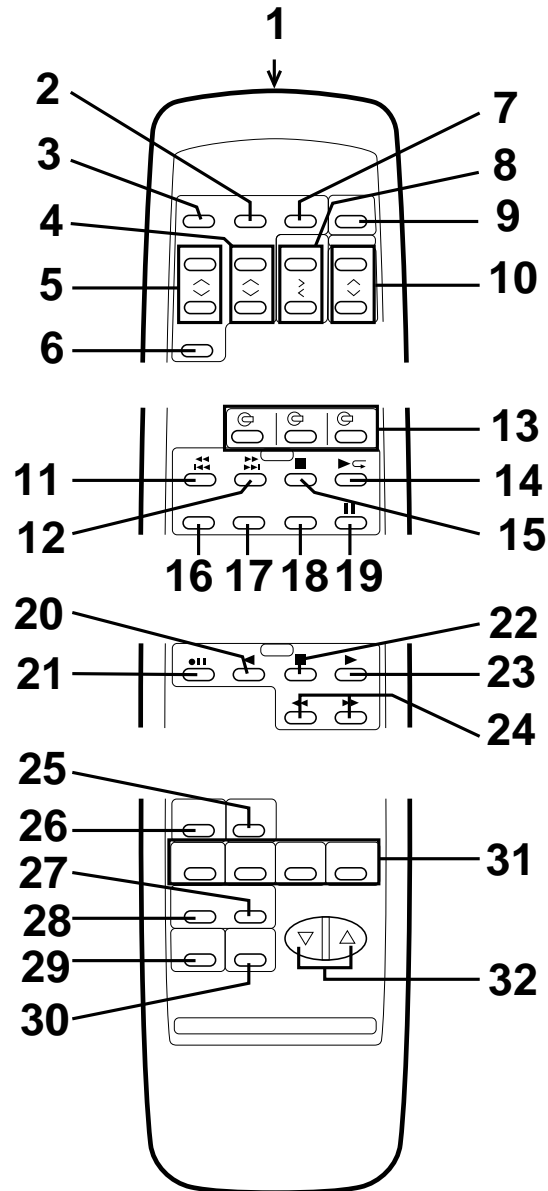
11. Track Down/Review Button
12. Track Up/Cue Button
13. CD Select/Direct Play Buttons
14. Play/Repeat Button
15. Stop Button
16. Memory Button
17. Clear Button
18. Random Button
19. Pause Button

● Tape control section

20. Reverse Play Button
21. Record Pause Button
22. Stop Button
23. Forward Play Button
24. Fast Wind Buttons

● Common section

25. Extra Bass Button
26. Equalizer Mode Button
27. 3D Surround Mode Button
28. 3D Surround Pass Button
29. On/Stand-by Button
30. Dimmer Button
31. Function Selector Buttons
32. Volume Up/Down Buttons

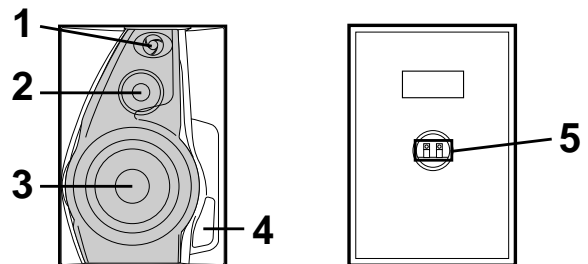


CP-C5H

■ Speaker section

(Front speaker)

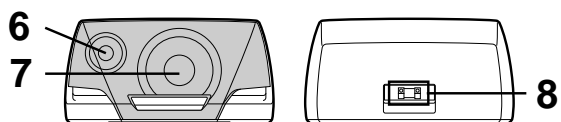
1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Duct
5. Speaker Terminals



GBOXS0008AWM2

(Centre speaker)

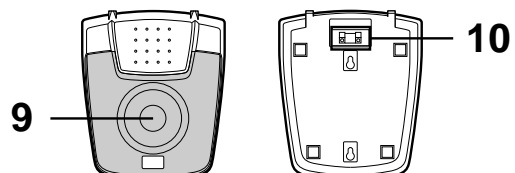
6. Tweeter
7. Woofer
8. Speaker Terminals



GBOXS0009AWM2

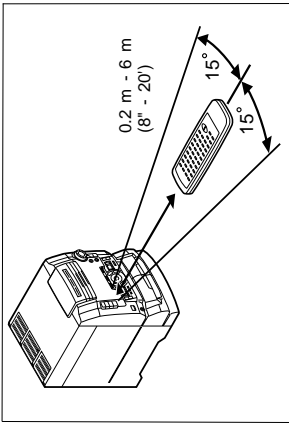
(Surround speaker)

9. Full-Range Speaker
10. Speaker Terminals



OPERATION MANUAL

PREPARATION FOR USE



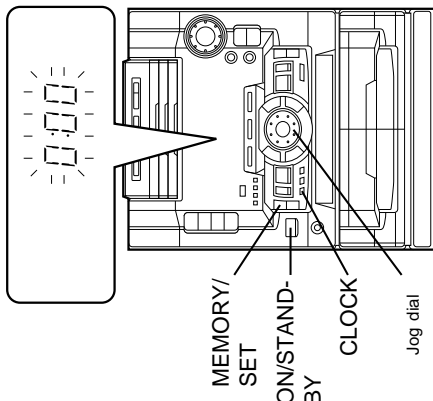
■ Remote control

Notes concerning use:

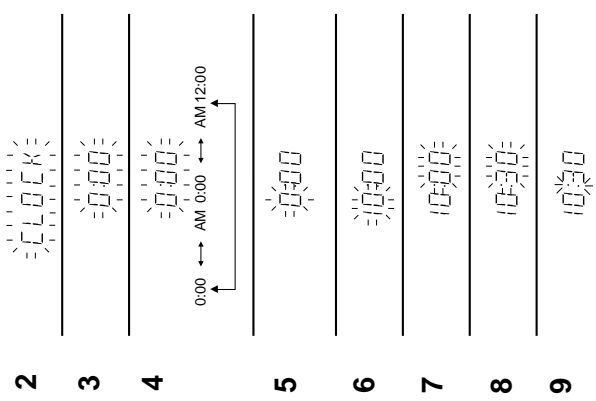
- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

SETTING THE CLOCK

In this example, the clock is set for the 24-hour (0:00) system.



- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Press the CLOCK button.
- 3 Within 5 seconds, press the MEMORY/SET button.
- 4 Turn the jog dial to select the time display mode.
"0:00" → The 24-hour display will appear.
"AM 12:00" → The 12-hour display will appear.
"AM or PM 12:00 - 11:59" → The 12-hour display will appear.
"AM or PM 0:00 - 11:59" → The 12-hour display will appear.
- Note that this can only be set when the unit is first installed or it has been reset.
- 5 Press the MEMORY/SET button.
- 6 Adjust the hour by turning the jog dial.
- 7 Turn the dial one click to advance the time by 1 hour. Keep turning the dial to advance continuously.
- 8 When the 12-hour display is selected, "AM" will change automatically to "PM".
- 7 Press the MEMORY/SET button.
- 8 Adjust the minutes by turning the jog dial.
- 9 Turn the dial one click to advance the time by 1 minute. Keep turning the dial to advance continuously.
- 10 The hour setting will not advance even if minutes advance from "59" to "00".
- 9 Press the MEMORY/SET button.
- 11 The clock starts operating from "0" seconds. (Seconds are not displayed.)



Note:

- In the event of a power failure or when the AC power lead 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 lead was disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

When the unit is in the stand-by mode:

- 1 Press the MEMORY/SET button.
- 2 Perform steps 6 - 9 above.

When the unit is on:

- 1 Press the CLOCK button.
- 2 Within 5 seconds, press the MEMORY/SET button.
- 3 Perform steps 6 - 9 above.

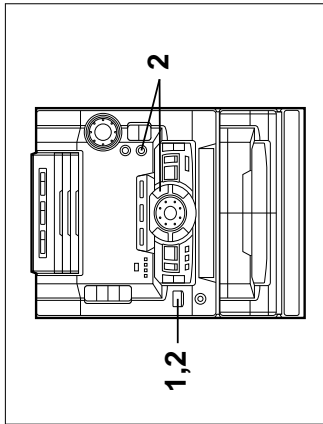
To see the time display:

- 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 MICRO-COMPUTER", on page 36 of Operation Manual.
- 2 Perform steps 1 - 9 above.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

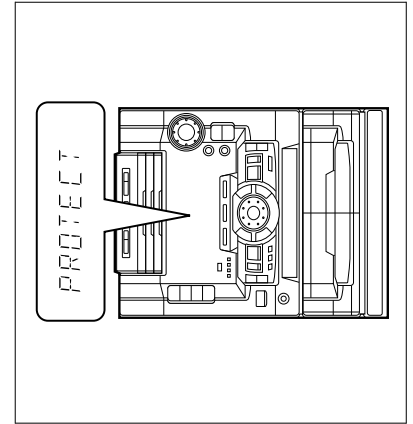
- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Press and hold down the EQ/DEMO button and the ON/STAND-BY button all at the same time. Hold them 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.

WHEN "PROTECT" APPEARS



"PROTECT" will appear in the display if the unit overheats. If there is a problem in the speaker circuit, the unit will be switched to the stand-by mode automatically.

In this case, take the following corrective actions.

- 1 Unplug the AC power plug from the AC socket.
- 2 Make sure that the unit vent is not blocked.
- 3 Make sure that the speaker wires have been correctly connected to the speaker terminals.
- 4 After checking items 2 and 3 above, wait for 2 or 3 hours before trying to use the unit.
- 5 Reconnect the AC power lead.

Note:

- If "PROTECT" appears again during use, please unplug the AC power plug, and contact the SHARP authorised service centre.

DISASSEMBLY

Caution on Disassembly

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

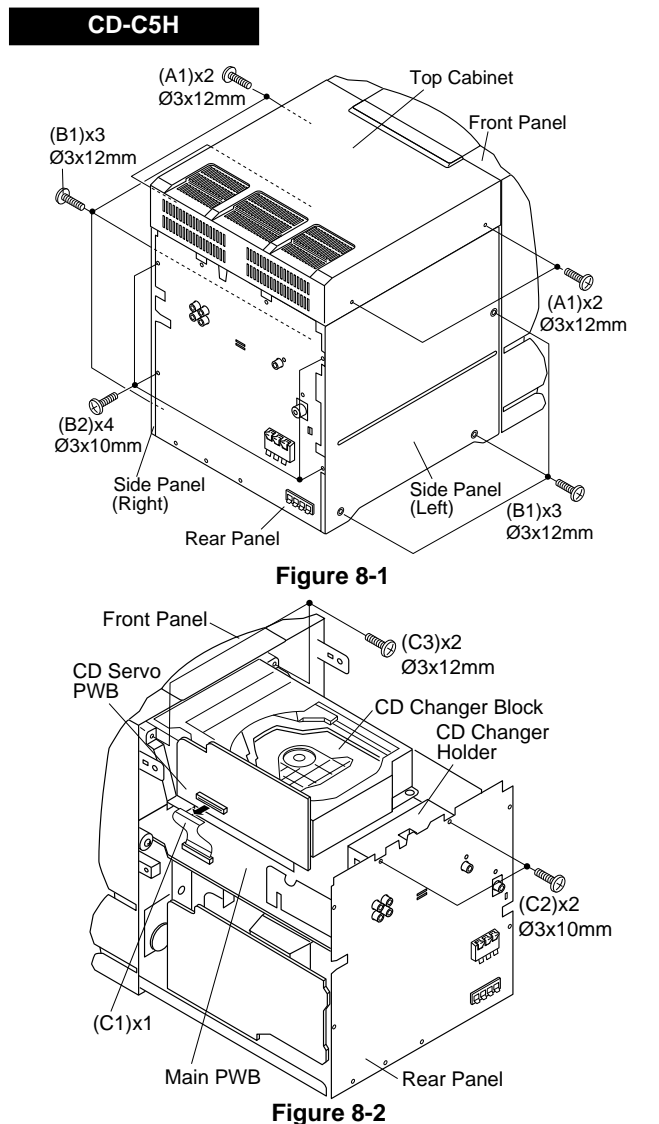
1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange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

CD-C5H			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	8-1
2	Side Panel (Left/Right)	1. Screw (B1) x6 2. Screw (B2) x4	8-1
3	CD Changer Block	1. Flat Cable (C1) x1 2. Screw (C2) x2 3. Screw (C3) x2	8-2
4	Pro Logic PWB	1. Screw (D1) x2	9-1
5	Tuner PWB	1. Screw (E1) x9 2. Screw (E2) x1 3. Screw (E3) x4	9-1
6	Main PWB	1. Socket (F1) x3 2. Flat Cable (F2) x2 3. Flat Wire (F3) x2 4. Screw (F4) x2 5. Screw (F5) x2	9-1
7	Front Panel	1. Flat Wire (G1) x2 2. Screw (G2) x1 3. Screw (G3) x2	9-1
8	Display PWB	1. Knob (H1) x2 2. Nut (H2) x1 3. Screw (H3) x12	9-2
9	CD Switch PWB	1. Screw (J1) x3	9-2
10	Headphones PWB	1. Screw (K1) x1	9-2
11	Tape Mechanism	1. Open the cassette holder 2. Screw (L1) x6	9-2
12	Amp. PWB	1. Socket (M1) x1 2. Screw (M2) x2 3. Screw (M3) x2	9-3
13	Power Amp. PWB	1. Socket (N1) x1 2. Screw (N2) x4 3. Screw (N3) x2	9-4
14	Power Supply PWB	1. Screw (P1) x1 2. Screw (P2) x4	9-4
15	CD Digital PWB	1. Screw (Q1) x1	9-5
16	CD Changer Holder	1. Screw (R1) x3	9-5
17	CD Servo PWB (Note)	1. Socket (S1) x6 2. Screw (S2) x3	9-6
18	Tray Switch PWB	1. Screw (T1) x1	9-6

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

CD-C5H			
STEP	REMOVAL	PROCEDURE	FIGURE
19	CD Mechanism	1. Screw (U1) x2 2. Top Bord (U2) x1 3. Disc Holder (U3) x1 4. Disc Tray (U4) x3 5. Screw (U5) x1 6. Mechanism Holder Guide (U6) x1 7. Screw (U7) x2 8. Mechanism Holder Bracket (U8) x1 9. Screw (U9) x4 10. Mechanism Holder(U10) x1	10-1

CP-C5H			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Screw (A1) x2 2. Screw (A2) x2 3. Screw (A3) x4	10-2 10-3
2	Center Speaker	1. Net (B1) x1 2. Screw (B2) x2 3. Screw (B3) x6 4. Screw (B4) x3	10-4 10-5
3	Surround Speaker	1. Net (C1) x1 2. Screw (C2) x4 3. Screw (C3) x2 4. Screw (C4) x2	10-6



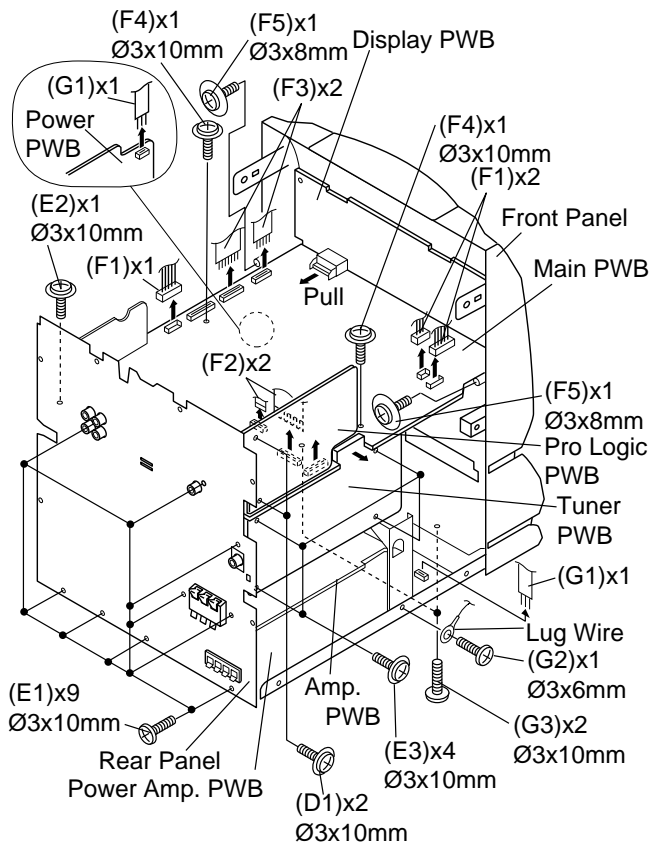


Figure 9-1

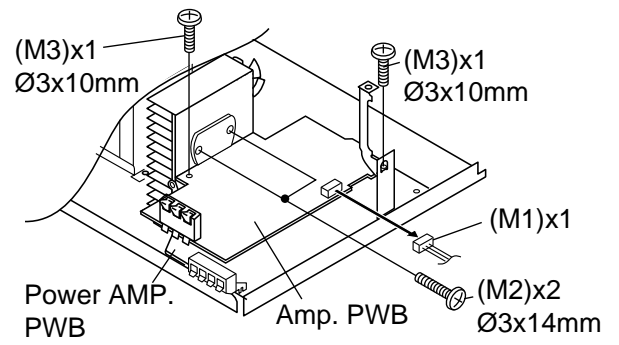


Figure 9-3

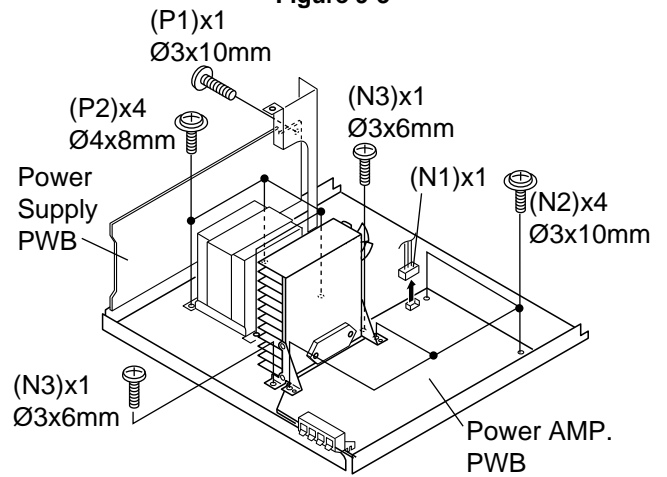


Figure 9-4

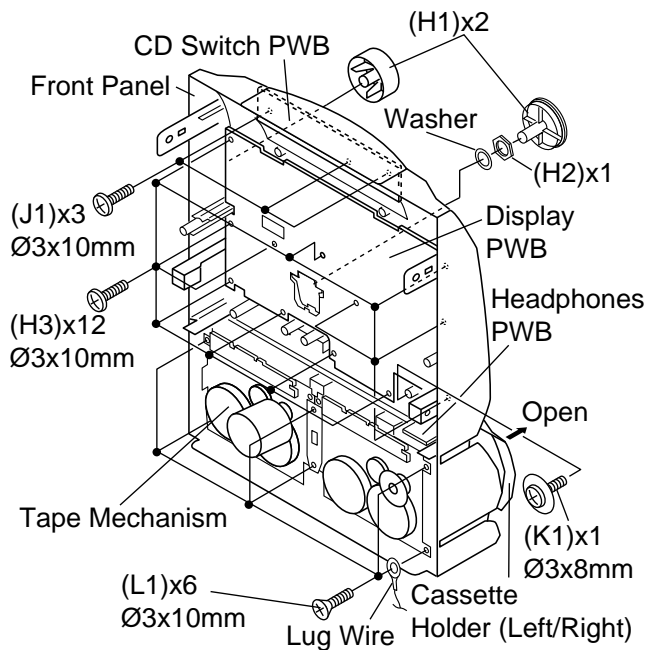


Figure 9-2

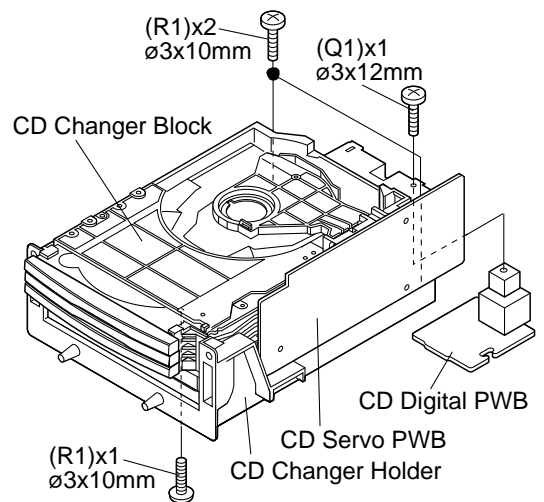


Figure 9-5

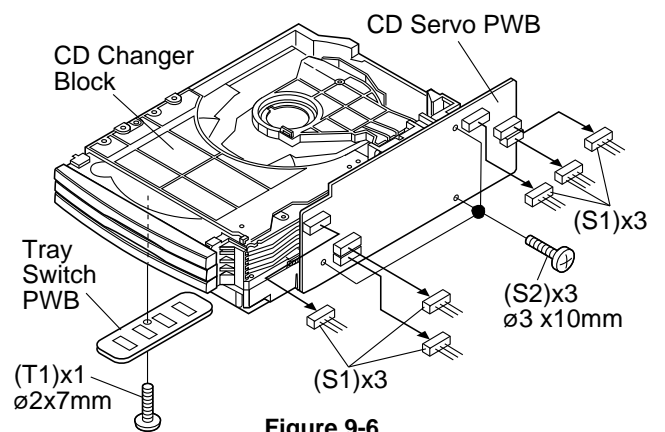


Figure 9-6

CD-C5H,CP-C5H

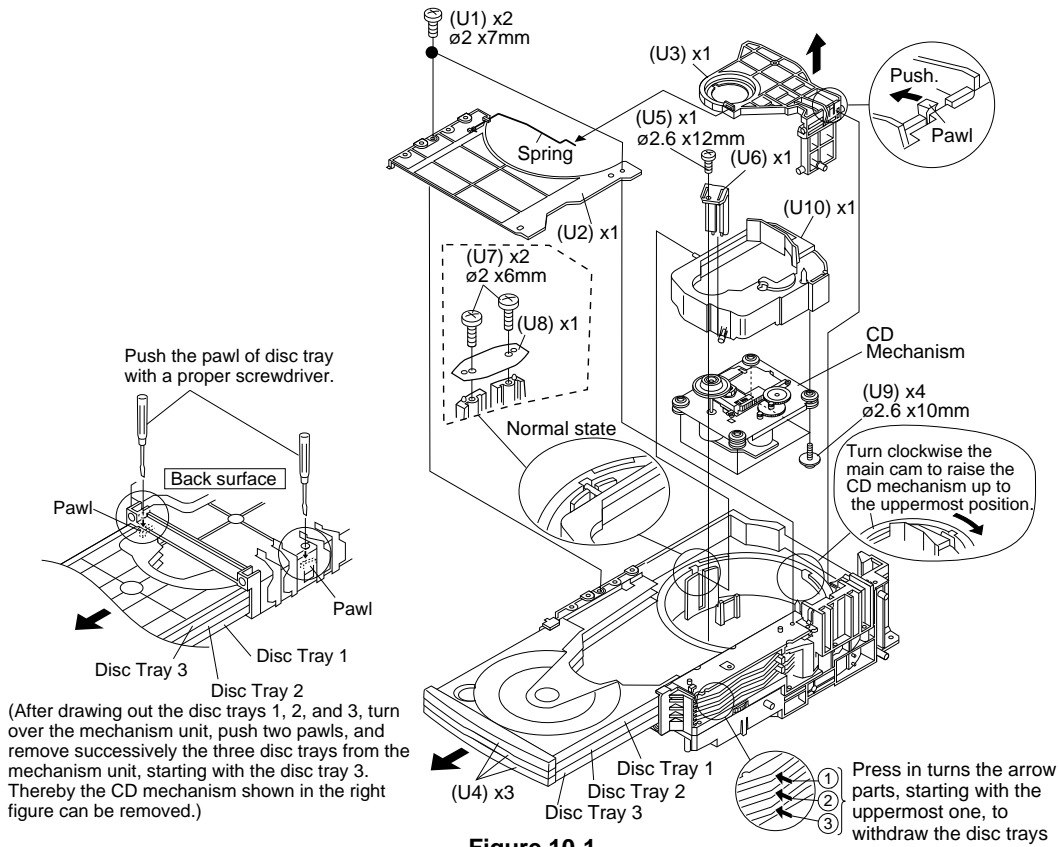
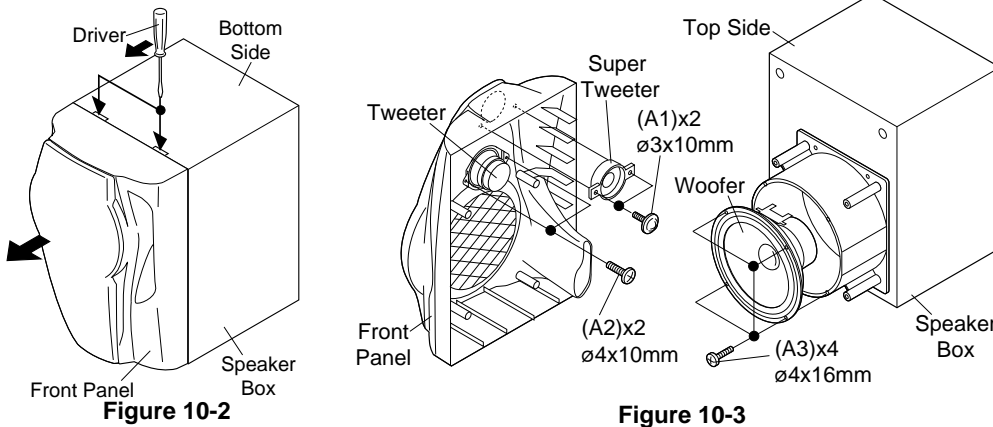


Figure 10-1

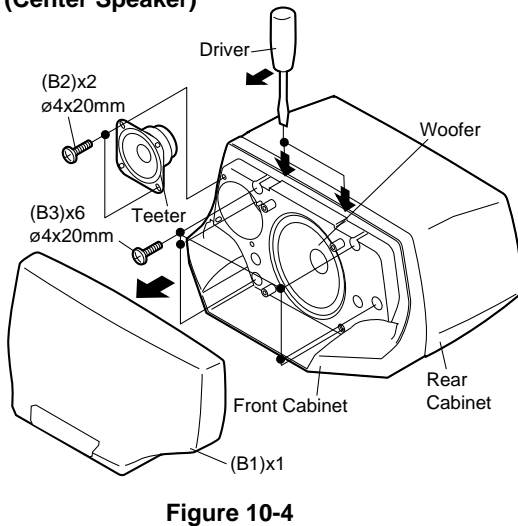
CP-C5H

(Front Speaker)



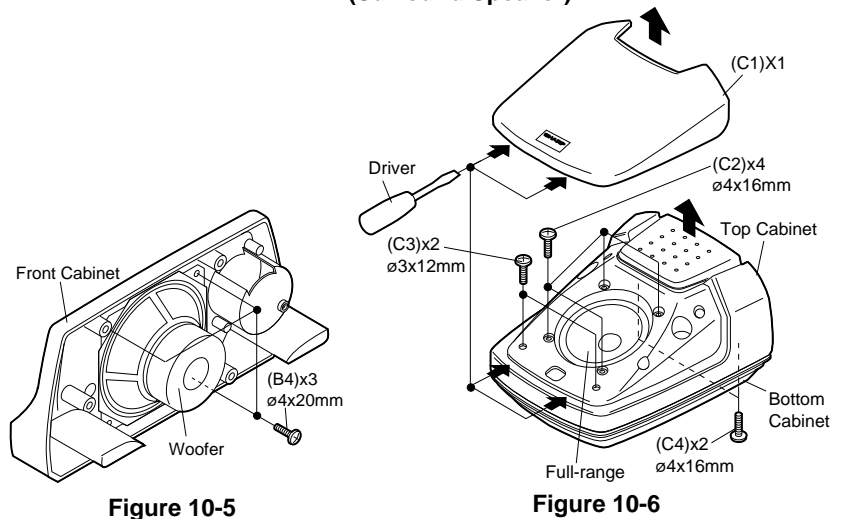
GBOXS0008AWM2

(Center Speaker)



GBOXS0009AWM2

(Surround Speaker)



REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

For the procedure to remove the CD mechanism from the main unit, refer to Disassembling Procedure, Steps 1~9, and 15~19. (page 8).

How to Remove the optical pickup (See Fig. 11-1.)

1. Remove the screws (A1)x 2 pcs., to remove shaft (A2)x 1 pc.
2. Remove stop washer (A3)x 1 pc., to remove gear (A4)x 1 pc.
3. Remove the optical pickup.

Note:

After disconnecting the optical pickup connector wrap the front end of connector in conductive aluminum foil so as to prevent damage to the optical pickup by static electricity.

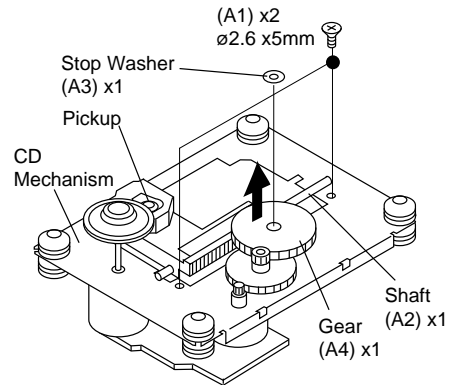


Figure 11-1

How to Remove the tray motor/main cam motor (See Fig. 11-2.)

1. Remove the CD changer section by the method described in page 8, and disassemble as shown in the figure.
2. Remove the belts (B1)x 2 pcs., from the motor side.
3. Remove the screws (B2)x 4 pcs.
4. Remove the tray motor and main cam motor.

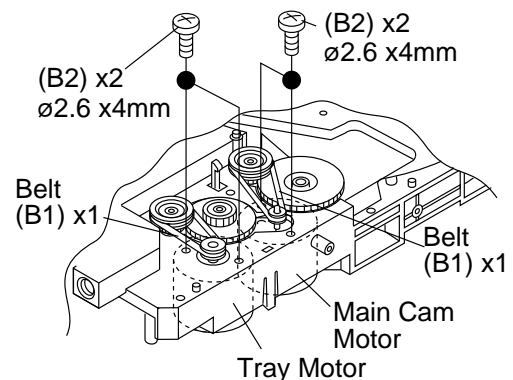
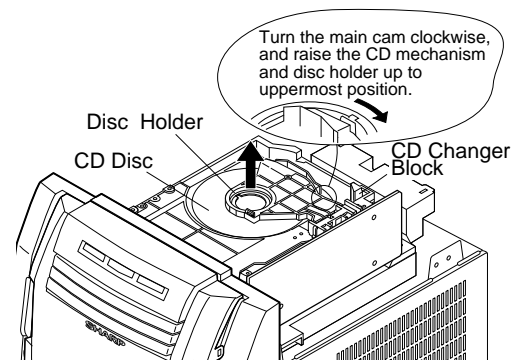


Figure 11-2

How to remove the CD disc (When CD is in playback state) (See Fig. 11-3.)

1. Remove the Top cabinet .
2. Disassemble as shown in the figure so that the CD disc of CD changer becomes visible.
3. Remove the CD disc as shown in the figure.

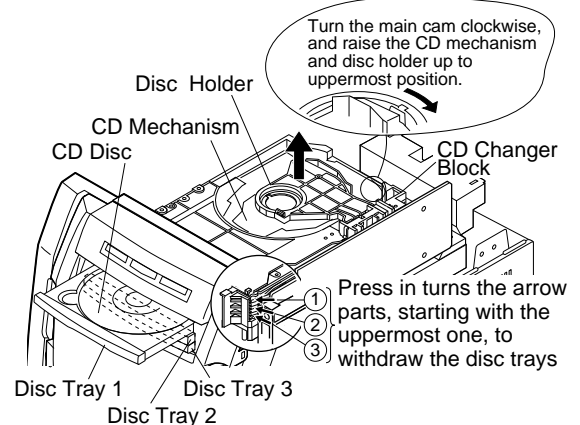


(When CD is in playback state.)

Figure 11-3

How to remove the CD disc (When CD exists in the tray) (See Fig. 11-4.)

1. Remove the Top cabinet.
2. Disassemble as shown in the figure so that the CD disc of CD changer can be taken out.
3. Remove the CD disc from the tray as shown in the figure.



(When CD exists in the tray)

Figure 11-4

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	60 to 120 g.cm
Rewind: TW-2231	60 to 120 g.cm	60 to 120 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	VRM01	3,000 ± 30 Hz	Speaker terminal

TAPE SECTION

Position of each switch or control	
Volume	MAX
3D Surround Mode Button	PASS
Pre-programmed Equalizer	FLAT
Extra Bass	OFF
Function	TAPE
Dolby NR switch	OFF
X-Bass	OFF

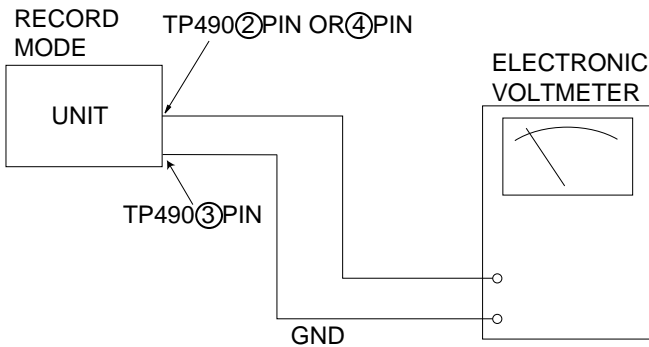


Figure 12-1 BIAS CURRENT

• Bias Frequency

Adjusting Point	Specified Value	Instrument Connection
—	98 ± 10 kHz	CNP102 ①

• Bias Current

Adjusting Point	Specified Value	Instrument Connection
L: VR101 R: VR102	Normal: 38 ± 10 mV CrO ₂ : 55 ± 15 mV	L: TP490 ④ R: TP490 ②

• Tape 1 Playback Amplifier Sensitivity

Test Tape	Adjusting Point	Specified Value	Instrument Connection
MTT-150	L: VRD01 R: VRD02	Normal: 300 mV	L: TP451 ③ R: TP451 ①

• Tape 2 Playback Amplifier Sensitivity

Test Tape	Adjusting Point	Specified Value	Instrument Connection
MTT-150	L: VRD03 R: VRD04	Normal: 300 mV	L: TP451 ③ R: TP451 ①

• Record/Playback Sensitivity

Test Tape	Adjusting Point	Specified Value	Instrument Connection
UR-127	Record level control	215 mV	Input: VIDEO Output: L: TP451 ③ R: TP451 ①
	L: VR151 R: VR152	215 mV	

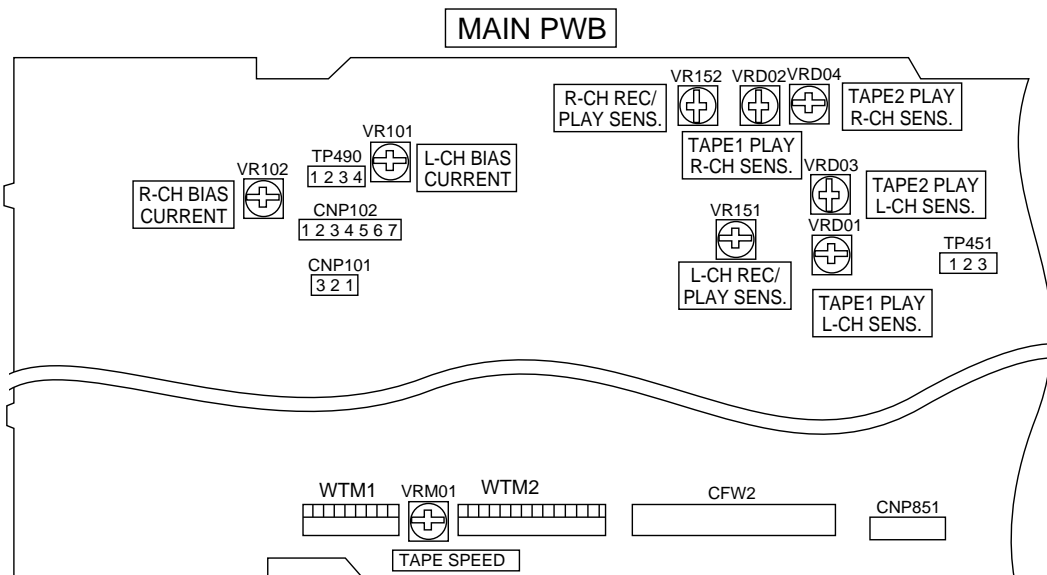


Figure 12-2 ADJUSTMENT POINTS

TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,620 kHz	T351	*1
MW Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
MW Tracking	990 kHz	990 kHz	(fL): T302	*1
LW Band Coverage	—	153 kHz	(fL): T305 1.5 ± 0.1 V	*2
LW Tracking	225 kHz	225 kHz	(fL): T301	*1

*1. Input: Antenna, Output: TP302

*2. Input: Antenna, Output: TP301

• **FM**

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.

2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually

• **FM Mute Level**

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

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (25 dBμV)	98.00 MHz	VR351*	Input: Antenna Output: Speaker Terminal

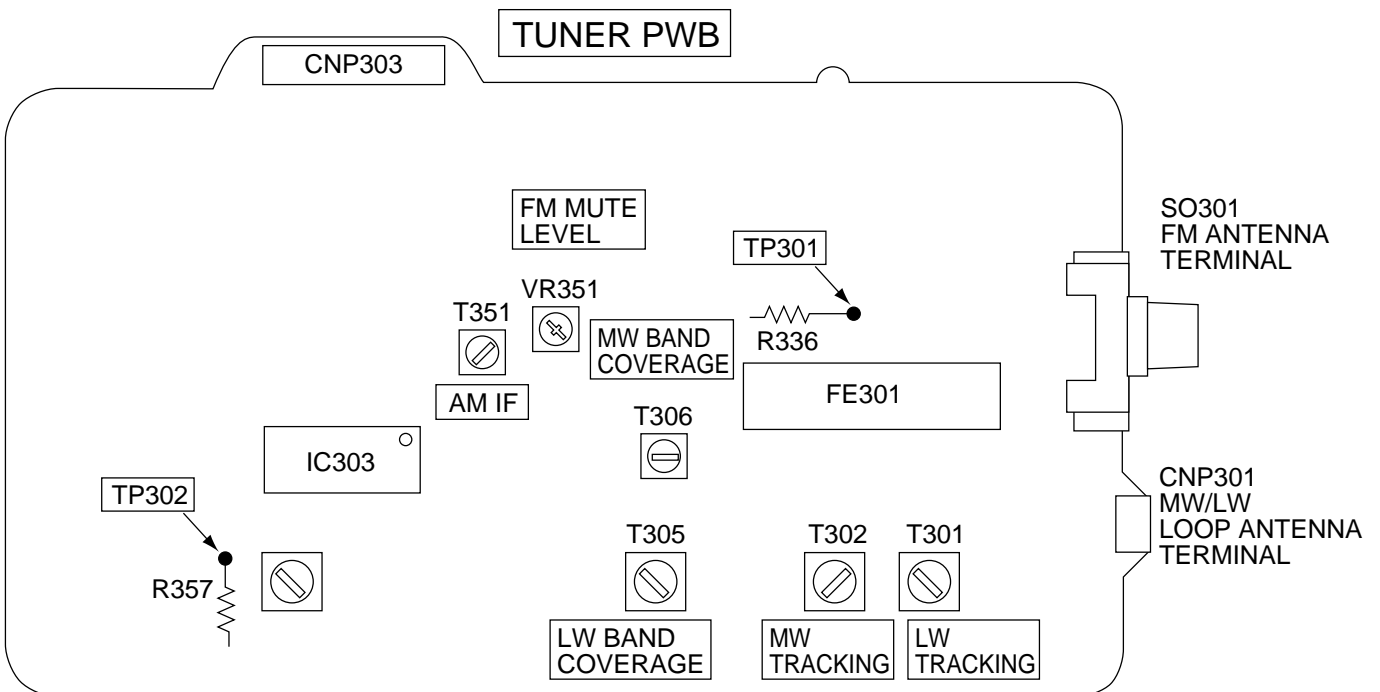


Figure 13 ADJUSTMENT POINTS

CD-C5H,CP-C5H

TEST MODE

• Setting the test mode

Any one of test mode can be set by pressing several keys as follows.
Hold down the EQ and CD buttons, and press the POWER switch. TEST: CD operation test

• TEST mode

Function — CD test mode

Setting of TEST mode

Indication of CD TEST mode (Fig. 14-1)

OPEN/CLOSE operation is manual operation.

The pickup can be moved by using the (▶▶) or (◀◀) key.

IL is not performed.

<MEMORY> key input

When the tracking servo is activated, playback will begin at the current position.

Press the STOP button.

The pickup will return to the STOP position.

<MEMORY> key input

When the tracking servo is activated, playback will begin at the current position.

<STOP> key input

The pickup normally returns to the STOP position.

<PLAY> key input

TOC. IL is performed, and the ordinary PLAY is performed. If the following key is pressed during PLAY, it is possible

- <Disc Number 1> key: Track 4
- <Disc Number 2> key: Track 9
- <Disc Number 3> key: Track 15

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.

VOL. --- Last memory

BAL. --- CENTER

R.GEQ. --- FLAT

X-BAS --- OFF

Canceling method - POWER OFF

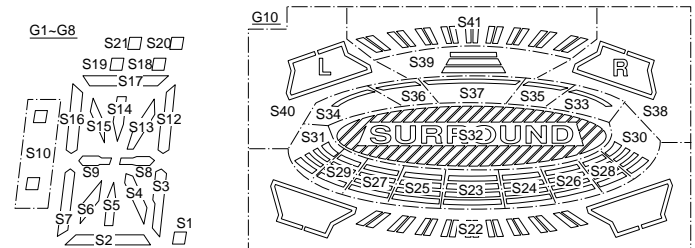
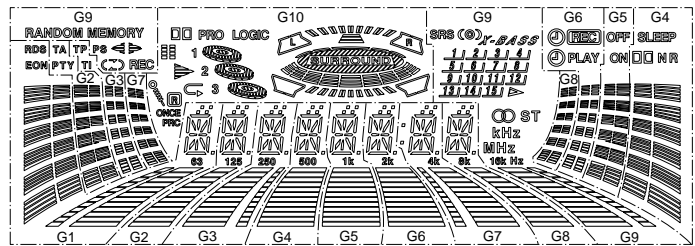


Figure 14-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 14-2)
2. Tracking offset (Fig. 14-3)
3. E/F balance (tracking error balance) (Fig. 14-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

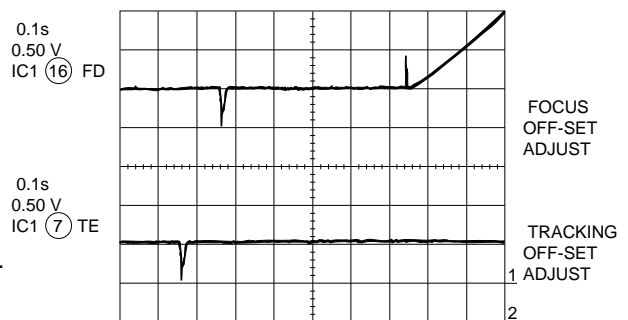


Figure 14-2

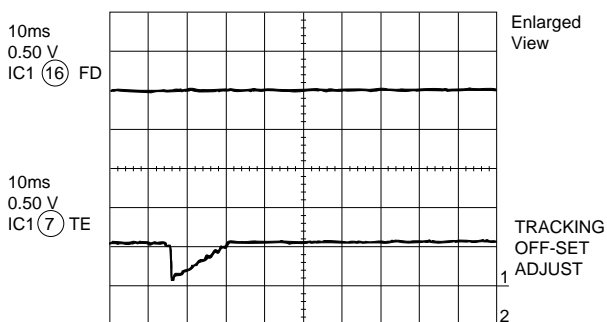


Figure 14-3

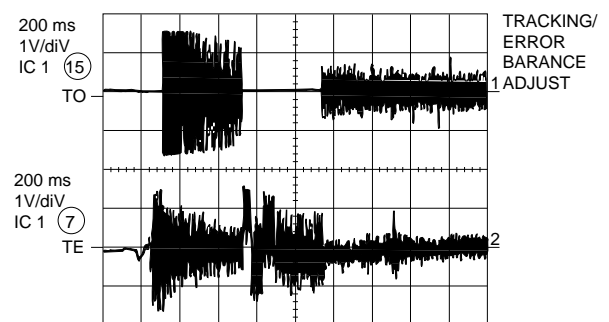


Figure 14-4

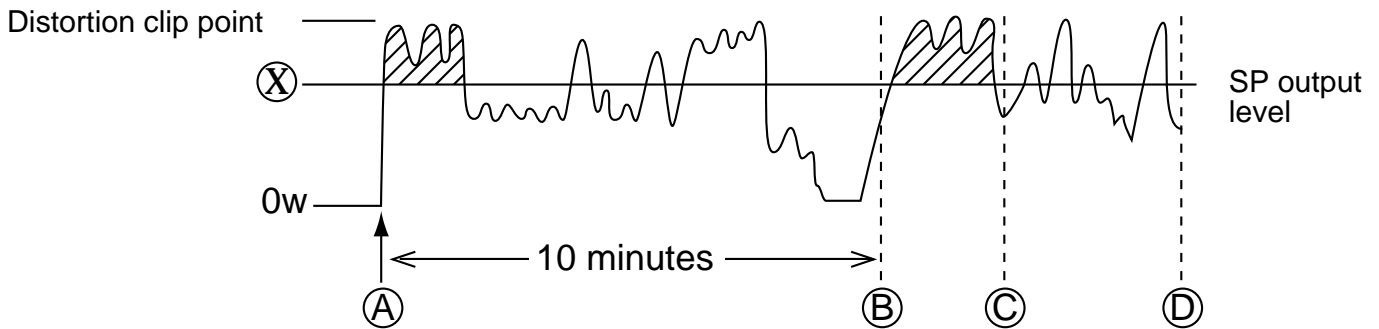
EXPLANATION OF AUTOMATIC SOUND VALUE CORRECTION CONTROL

1. Outline

The recent trend is toward rise of CD record level in the world, for example rock, dancing music, etc. In case of continuous high level playback G-EQ (graphic equalizer) and VOL (Volume) are controlled (lowered) automatically after a lapse of specific time (10 minutes) so as to get the easy-to-listen sound level.

2. Explanation of operation

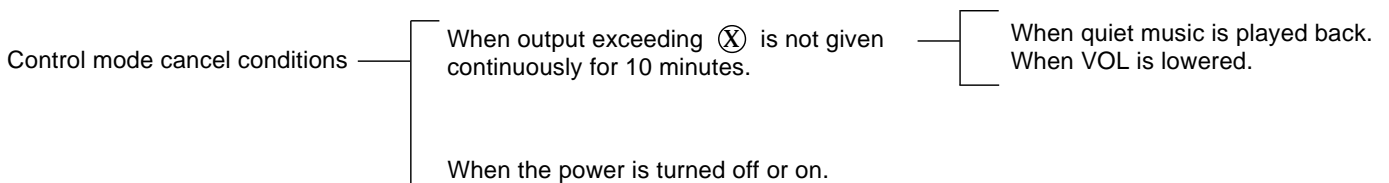
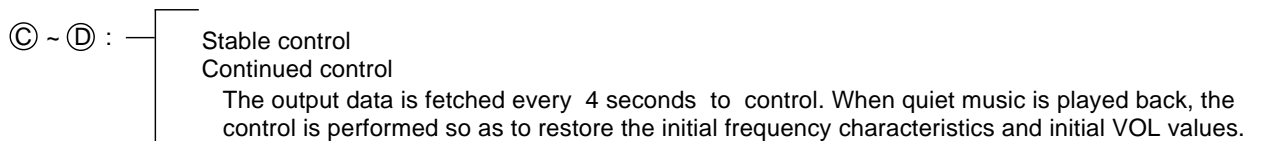
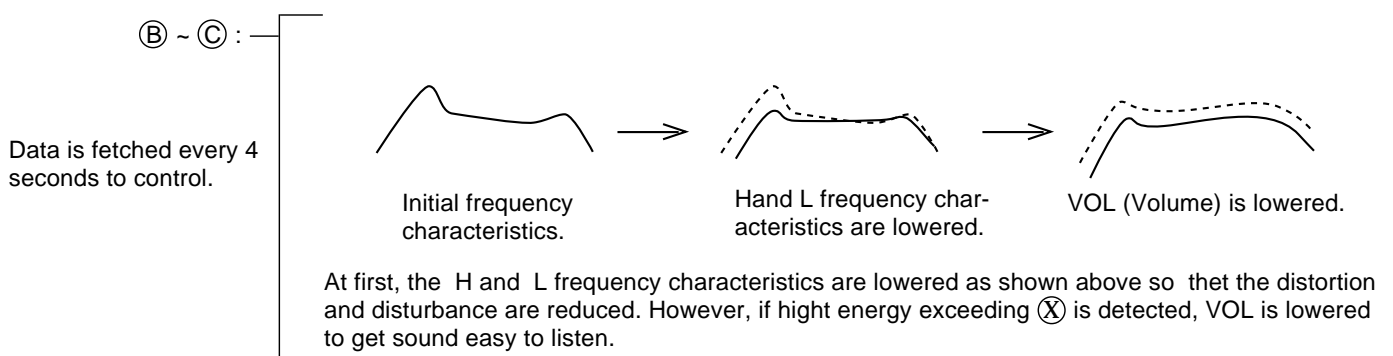
The CD playback operation is explained below.



ⓧ : Threshold value of control circuit operation

Ⓐ : High energy (hatched area) exceeding ⓧ is detected, and the control mode is set.

Ⓑ : After a lapse of 10 minutes the control is started.



CD-C5H,CP-C5H

RDS

RDS (Radio Data System) OPERATION

Receiving FM Stations with RDS (Radio Data System)

RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names, and information about what type of programme they broadcast, such as sports or music, etc.

When tuned to an FM station which provide the RDS service, the RDS will appear, the station frequency (and then the station name if sent) is displayed.

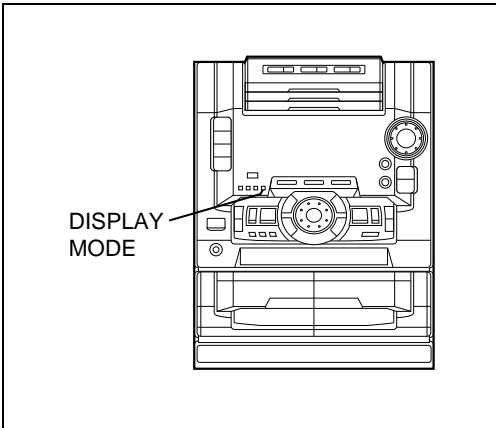
The TP (Traffic Programme) will appear on the display when the received broadcast carries traffic announcements, and the TA (Traffic Announcement) will appear whilst a traffic announcement is being received.

EON will appear whilst the EON (Enhanced Other Networks information) data is being broadcast.

Note:

When the TP and TA appear at the same time, an announcement is being made.

When only the TA appears, an announcement is not being made.



Information Provided by RDS

With the CD-C5H, you can display two types of RDS service. To show them in the display, press the DISPLAY MODE button. Each time you press the DISPLAY MODE button, the display will change to show the following information.

- PS (Programme Service): Station names commonly known will be displayed. "NO PS" appears if no signal is being sent.
- PTY (Programme Type): Programme type will be displayed. "NO PTY" appears if no signal is being sent.
- Station Frequency: Station frequencies.

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement)
With the CD-C5H, you can search for and receive the following PTY, TP and TA signals.

NEWS:	News	POP M:	Pop music
AFFAIRS:	Topical programme expanding on the current news or affairs	ROCK M:	Rock music
INFO:	Programmes on medical service, weather forecast, etc.	M.O.R. M:	Middle-of-the-road music (usually called "easy listening")
SPORT:	Sports events	LIGHT M:	Light music
EDUCATE:	Educational programmes	CLASSICS:	Classics
DRAMA:	Radio plays	OTHER M:	Other music
CULTURE:	Programmes on national or regional culture.	ALARM:	Emergency broadcasts
SCIENCE:	Programmes on national sciences and technology	NONE:	No programme type (receive only)
VARIED:	Other programmes like comedies or ceremonies	TP:	Broadcasts which carry traffic announcements
		TA:	Traffic announcements are being broadcast at present.

Note:

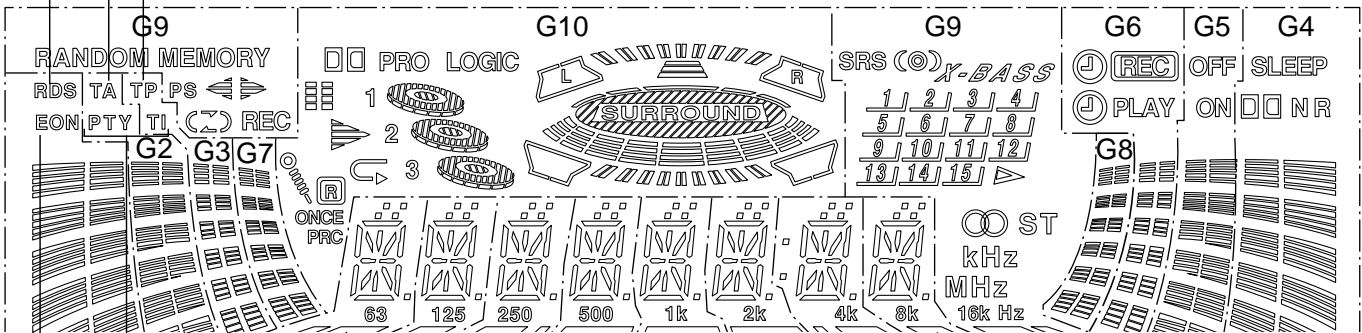
- When the unit is in the EON stand-by mode and a programme is selected, the unit will display "TI" instead of "TA".

DISPLAY

Lights up when RDS station is received.

Lights up when TA station is received.

Lights up when TP station is received.

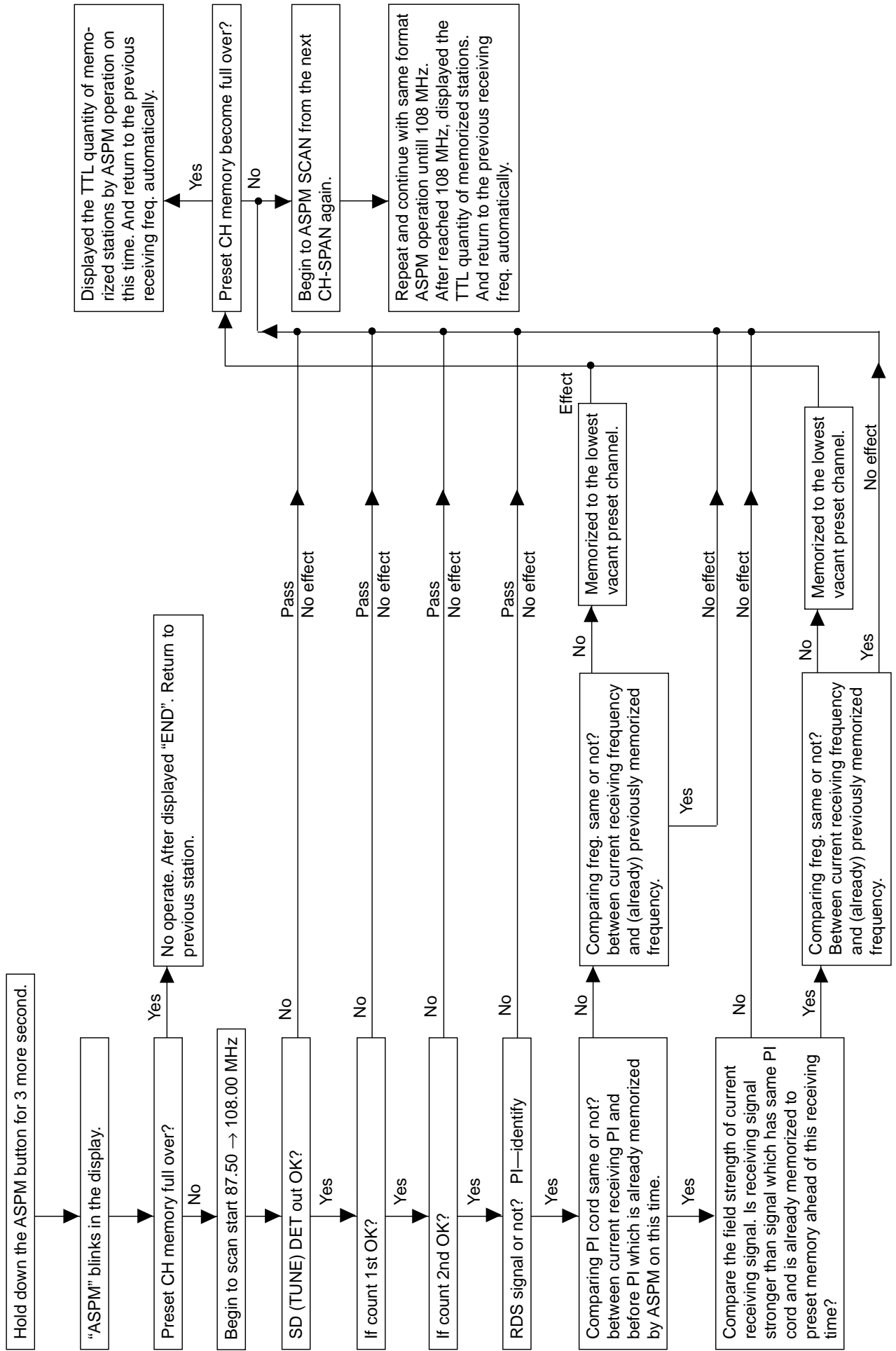


8 character can display E1 table of EBU.

Lights up when stand-by mode and blinks during staying other network station.

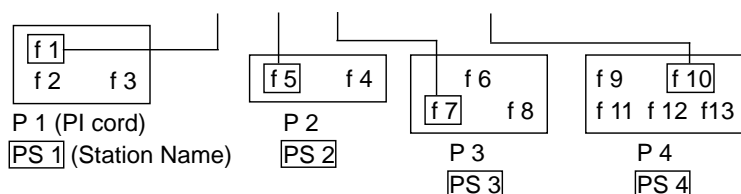
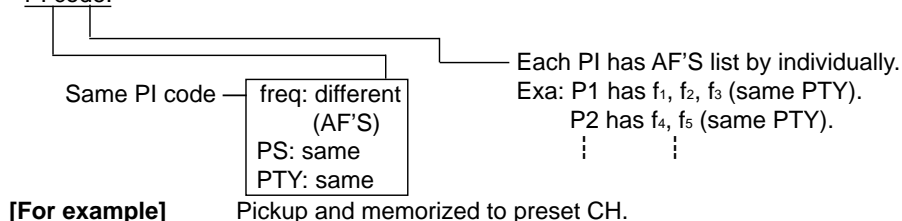
Lights up when RDS with EON station is received.

ASPM, summary operation



CD-C5H,CP-C5H

- ASPM SCAN: 87.50MHz → 108.00 MHz.
 - Only RDS signal is memorized by ASPM because RDS signal has PI code and is suitable and convenient for ASPM operation.
- ASPM
Comparing field strength, only one strongest RDS station is memorized of all stations (repeater relay stations) that have same PI code.



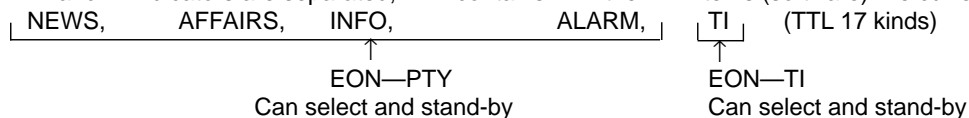
- Select signals (f1, f5, f7, f10) are memorized in the preset memory by ASPM.
- If tentative - ASPM operation is repeated intentionally, never memorized (over write) at the same frequency. 1st time ASPM → strongest stations of each pi are memorized.

ASPM is not only very useful for PTY search, but also EON operation.
2nd time ASPM → 2nd strong stations of each pi are memorized and so on.
PTY search function is equal to FM band search function as a result.

1. Introduction of RDS for CD-C5H

CD-C5H RDS function is equal to adding EON feature to the current CD-C75H RDS.
EON feature is EON—PTY and EON—TI.

Although PTY and TI indicators are separated, PTY contains TI in the PTY items (software) like current PTY search items.



EON—PTY and EON—TI are basically stand-by → receive the desired program of ON station.

2. The difference point from current CD-C75H RDS. (CD-C75H — CD-C5H)

1. PTY item: added TA.TTL 18 kind.
2. Each "TP", "TA" ind. light up or go out individually.
"TA" ind. doesn't light up on current model, CD-C75H due to none EON—TI.
3. Added 3 indicators(in FL) due to adding EON feature.
EON: Lights up only during receiving EON data (14A).
TI: During EON-TI stand-by → Light up
During receiving ON station. → blink.
PTY: During EON-PTY stand-by → Light up
During receiving ON station. → blink.
4. No adjust type (None adjusting circuit.)
5. Added EON button.
6. Need to change RDS logo due to add EON feature.
7. Added EON—TI, EON—PTY function.

3. Summary of CD-C5H RDS—EON operation

EON—PTY: Select and set the desired "PTY" → stand-by → switch to ON(other network) Station at the start of desired PTY automatically → stay and listen to PTY of ON station → switch back to TN(This net) station automatically at the end of PTY(ON) i.e. after changing to another PTY(except AFFAIRS) or cancelling to receive PTY of ON station midway.

EON—TI: Select and set the "TI" → stand-by → switch to ON station at the start of traffic announcement automatically → stay and listen to TA of ON station → switch back to TN station automatically at the end of TA(ON). ie after TA(ON) is over or cancelled to receive TA of ON station midway.

When switching TN → ON station.

In case of exist 2 more stations having the desired(specified) "PTY" or "TI", the receiver will select and switch to ON station comparing field strength at the same time. But when the frequency of ON station exists in the preset-memory, then receiver switches straight to that ON station(CH), without comparing field strength so can make a quick switching from TN—ON station. Preset memory takes priority of switching TN—ON station.

therefore ASPM is useful not only for PTY search but also for rapid EON switching. Anyway CD-C5H EON is basically stand-by and receiving method, along with the Guidelines for EON implementation.

EON summary notice for reference

1. EON-TI/PTY EON stand-by can be set, only when EON ind. lights up.
While EON ind. goes out (NO EON STATION), EON stand-by can't be set.
If the EON button is pressed, then "NO EON" is indication the display.
2. EON-TI/PTY Even if switch back ON→TN station continue to keep EON stand-by.
3. EON-TI Don't switch TN→ON during TN broadcast TA. (same item)
4. EON-TI/PTY EON can be cancelled during receiving ON station by pressing EON button if necessary and switch back ON→TN.
5. EON-TI/PTY EON stand-by is perfectly cancelled (cleared) by pressing EON button 2 times during stand-by or powerOFF or Tun Up/ Down or change band or recall pre-set CH.
6. EON-TI/PTY After setting EON stand-by, stand-by items can be confirmed by pressing EON button one time.
7. EON-TI/PTY EON button function: •EON setting
 - Confirm stand-by items
 - Cancel (ON→TN)
 - EON clear cancel (2 times)
8. EON-TI/PTY After setting EON-TI and EON-PTY stand-by, if when EON data is not transmitted, EON ind goes out and EON stand-by is automatically cancelled display "NO EON".
9. EON-TI EON-TI stand-by can't be set. When TP=0,TA=0(TN) even if EON ind. lights up and the EON button is pressed then "NO TI" is indication the display.
10. EON-PTY Don't switch TN→ON during TN broadcast same specified PTY. (same item of PTY)
11. EON-TI/PTY Switch TN→ON→ TN station one cycle.
Never switch TN→ON1→ON2→ Other net to other net station.
12. EON-TI/PTY After switch TN→ON station. When ON station is NO RDS, NO signal, TA=OFF or different PTY items. The receiver switch back ON→TN displaying "NO READY".
13. During receive ON station. when ON station become to be NO RDS, NO signal, TA=ON to OFF or different PTY item, The receiver switch back ON→TN.
14. EON-TI/PTY Switch TN→ON in case of 2 more stations exist, comparing field strength and switch to the strongest station, if these signals are same strength, switch to the first previous station.
If same frequency as AF'S exists in the preset memory, then switch TN→ON (preset memory station) straight.
In case of exist 2 more preset memories of AF'S, then switch to the preset CH which taken in EON DATA first, also in this case no concern to field strength.
15. Even if switch TN→ON preset memory straight, that ON station is very weak signal, then search another AF'S (ON) station comparing field strength and switch to the strongest station as a result. Of all atations of AF'S are very weak or no good condition, then, switch back ON→TN automatically display "NO READY".
16. EON-TI/PTY No linkage volume, power ON/OFF, and switch function.

Traffic Programme code (TP)	Traffic Announcement code (TA)	Applications
OFF	OFF	This programme does not carry traffic announcements nor does it refer, via EON, to a programme that does.
OFF	ON	This programme carries EON information about another programme which gives traffic information.
ON	OFF	This programme carries traffic announcements but none are being broadcast at present and may also carry EON information about other traffic announcements.
ON	ON	A traffic announcement is being broadcast on this programme at present.

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
SW701	VOLUME UP/DOWN	OFF
SW702	JOG DIAL	OFF
SW702A	PICKUP IN	OFF
SW703	X-BASS	OFF
SW704	EQUALIZER/DEMO	OFF
SW705	SRS MODE	OFF
SW706	SRS PASS	OFF
SW707	FF	OFF
SW708	STOP	OFF
SW709	EDIT NORMAL	OFF
SW710	EDIT HIGH	OFF
SW711	RECORD/PAUSE	OFF
SW712	FORWARD PLAY	OFF
SW713	DOLBY-NR	OFF
SW714	Q-SOUND	OFF
SW715	VIRTUAL	OFF
SW716	DOLBY-PRO LOGIC	OFF
SW717	REWIND	OFF
SW718	CD PAUSE	OFF
SW719	REVERSE PLAY	OFF
SW720	REVERSE MODE	OFF
SW721	CLOCK	OFF
SW722	TIMER	OFF
SW723	SLEEP	OFF
SW724	VIDEO/AUX	OFF
SW725	TAPE 1/2	OFF
SW726	TUNER (BAND)	OFF

REF. NO	DESCRIPTION	POSITION
SW727	CD	OFF
SW728	RDS PROGRAMME TYPE/ TRAFFIC INFORMATION SEARCH	OFF
SW729	RDS EON	OFF
SW730	RDS DISPLAY	OFF
SW731	RDS ASPM	OFF
SW732	CLEAR	OFF
SW733	MEMORY/SET	OFF
SW734	ON/STAND-BY	OFF
SW739	DISC 3 OPEN/CLOSE	OFF
SW740	DISC 3	OFF
SW741	DISC 2 OPEN/CLOSE	OFF
SW742	DISC 2	OFF
SW743	DISC 1 OPEN/CLOSE	OFF
SW744	DISC 1	OFF
SWB101,102	CAM1, 2	OFF
SWB103,104	CAM3, 4	OFF
SWB105	CD EJECT	OFF
SWB106	CD TRAY CLOSE	OFF
SWB107	CD IN	OFF
SWB108	CD SET	OFF
SWE1	TAPE 1 PLAY	OFF
SWE2	TAPE 1 CrO ₂	OFF
SWE4	TAPE 2 PLAY	OFF
SWE5	TAPE 2 CrO ₂	OFF
SWE7	TAPE 2 SIDE A FP	OFF
SWE8	TAPE 2 SIDE B FP	OFF

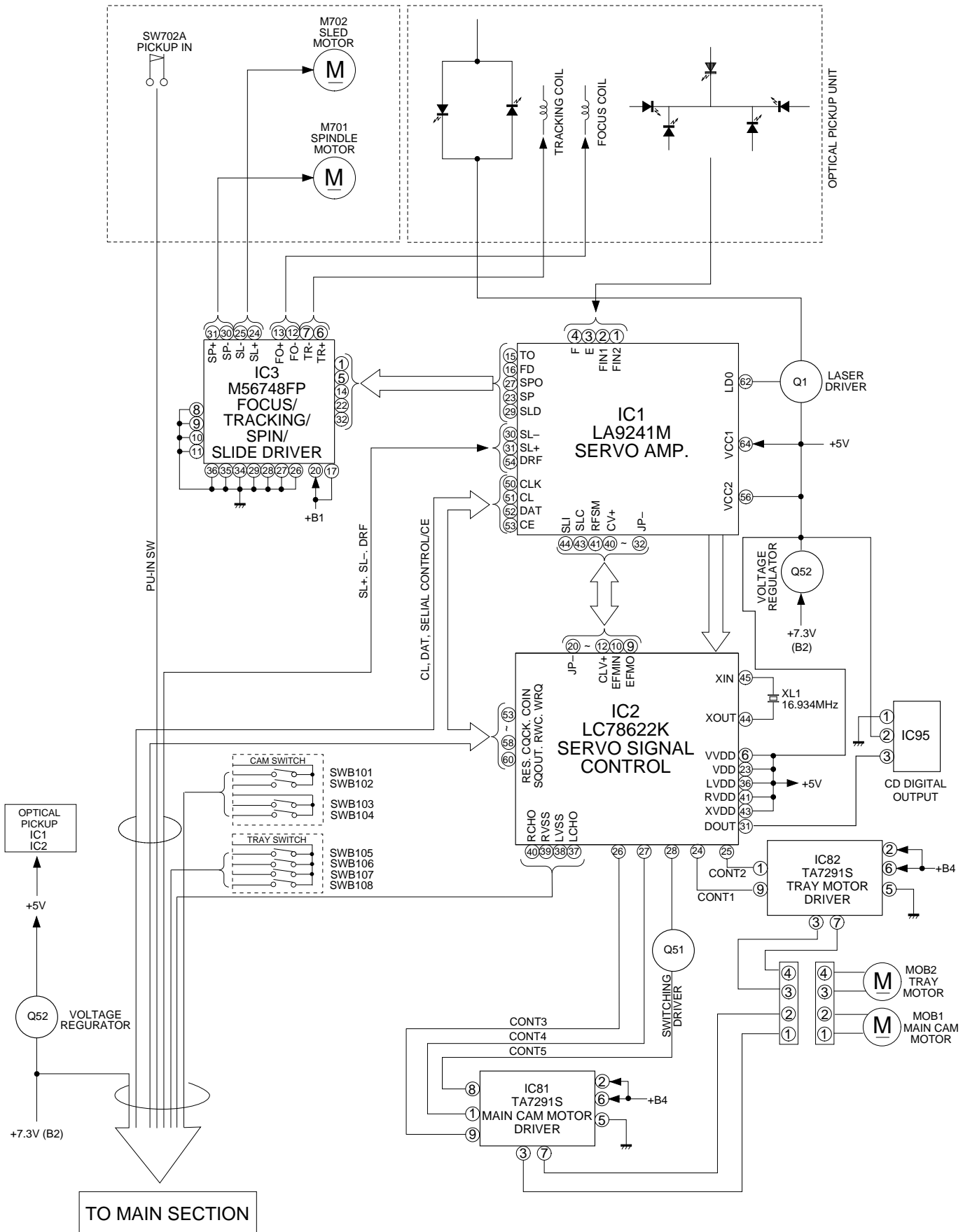


Figure 21 BLOCK DIAGRAM (1/3)

CD-C5H,CP-C5H

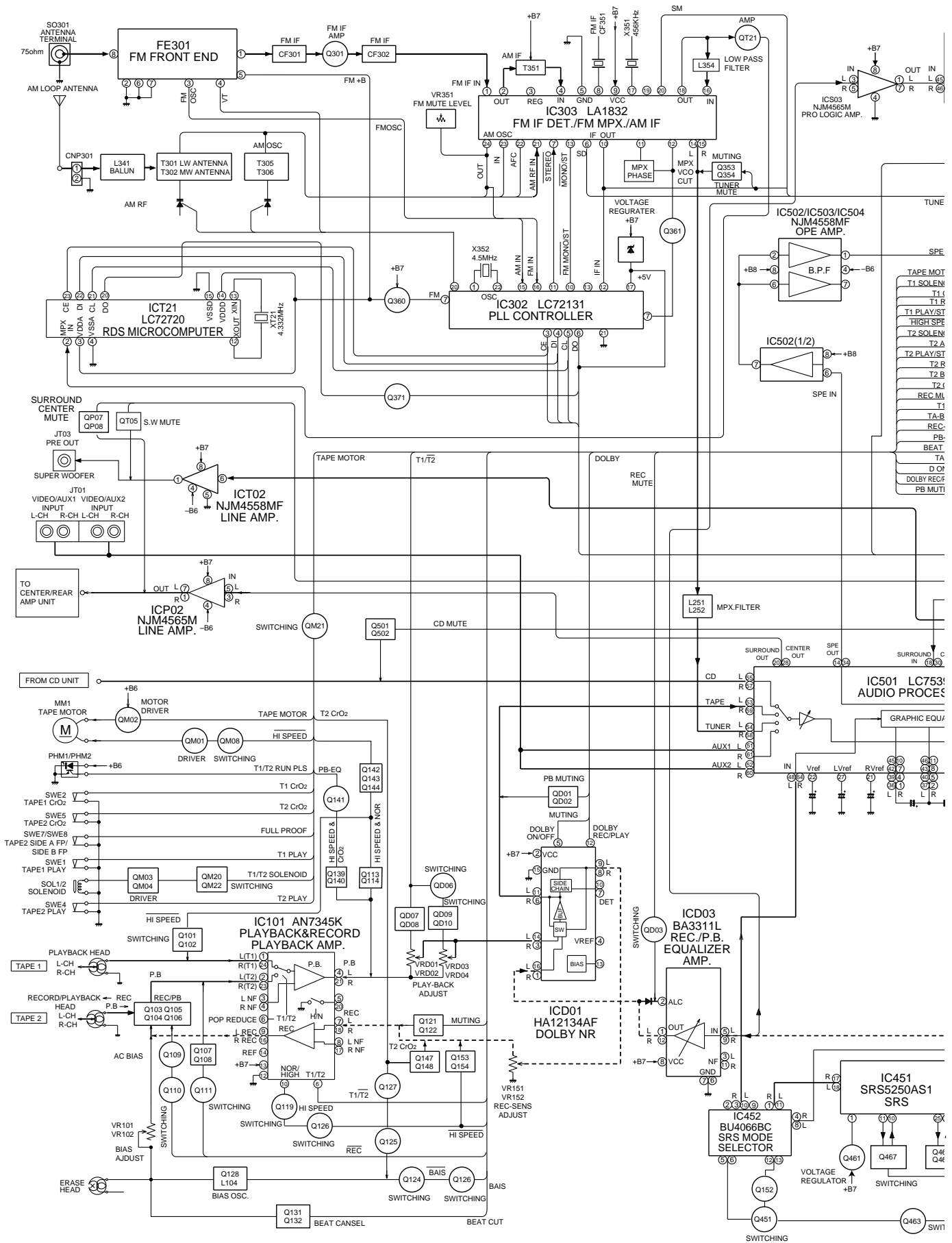


Figure 22 BLOCK DIAGRAM (2/3)

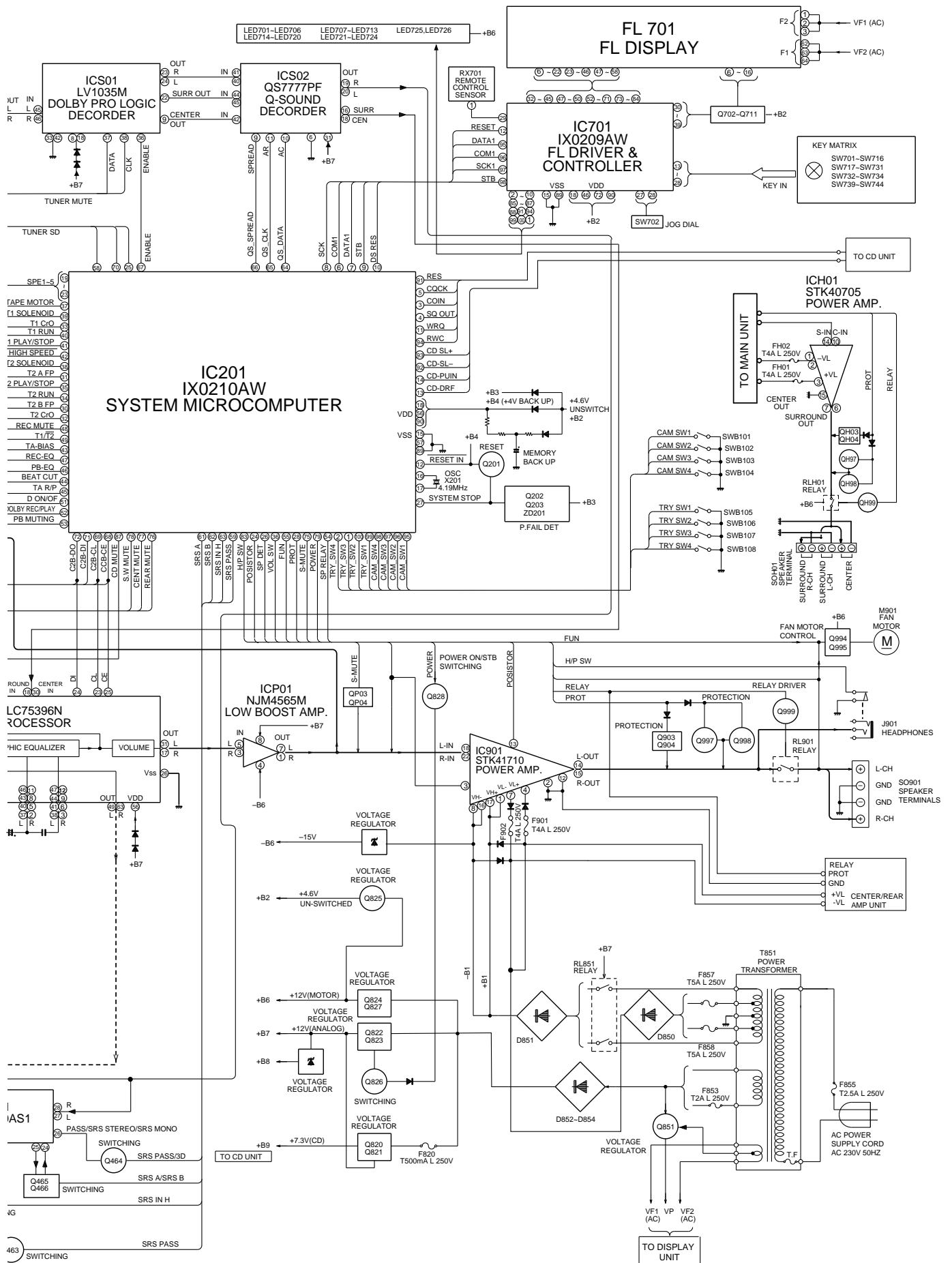


Figure 23 BLOCK DIAGRAM (3/3)

CD-C5H,CP-C5H

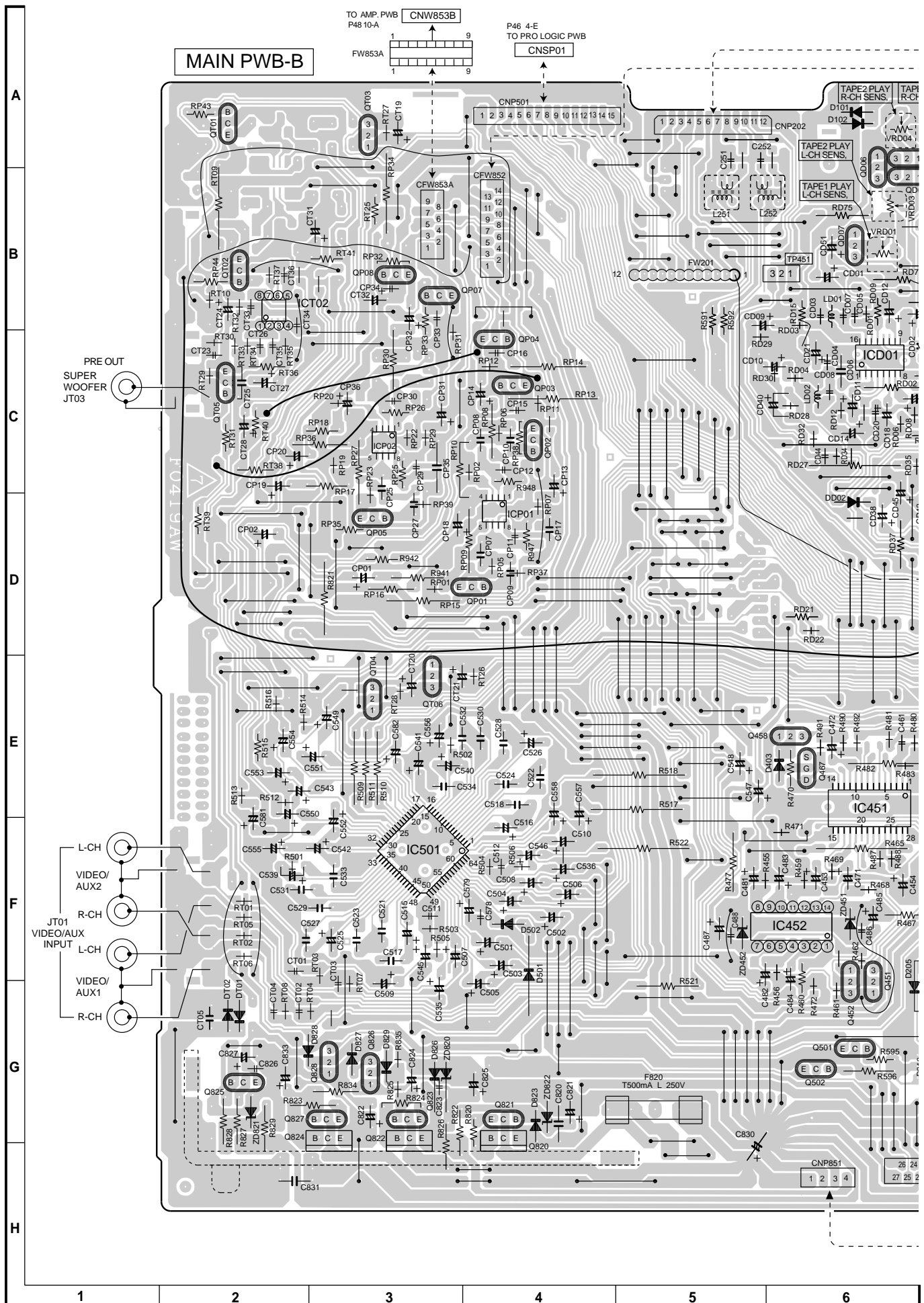


Figure 24 WIRING OF P.W.BOARD (1/9)

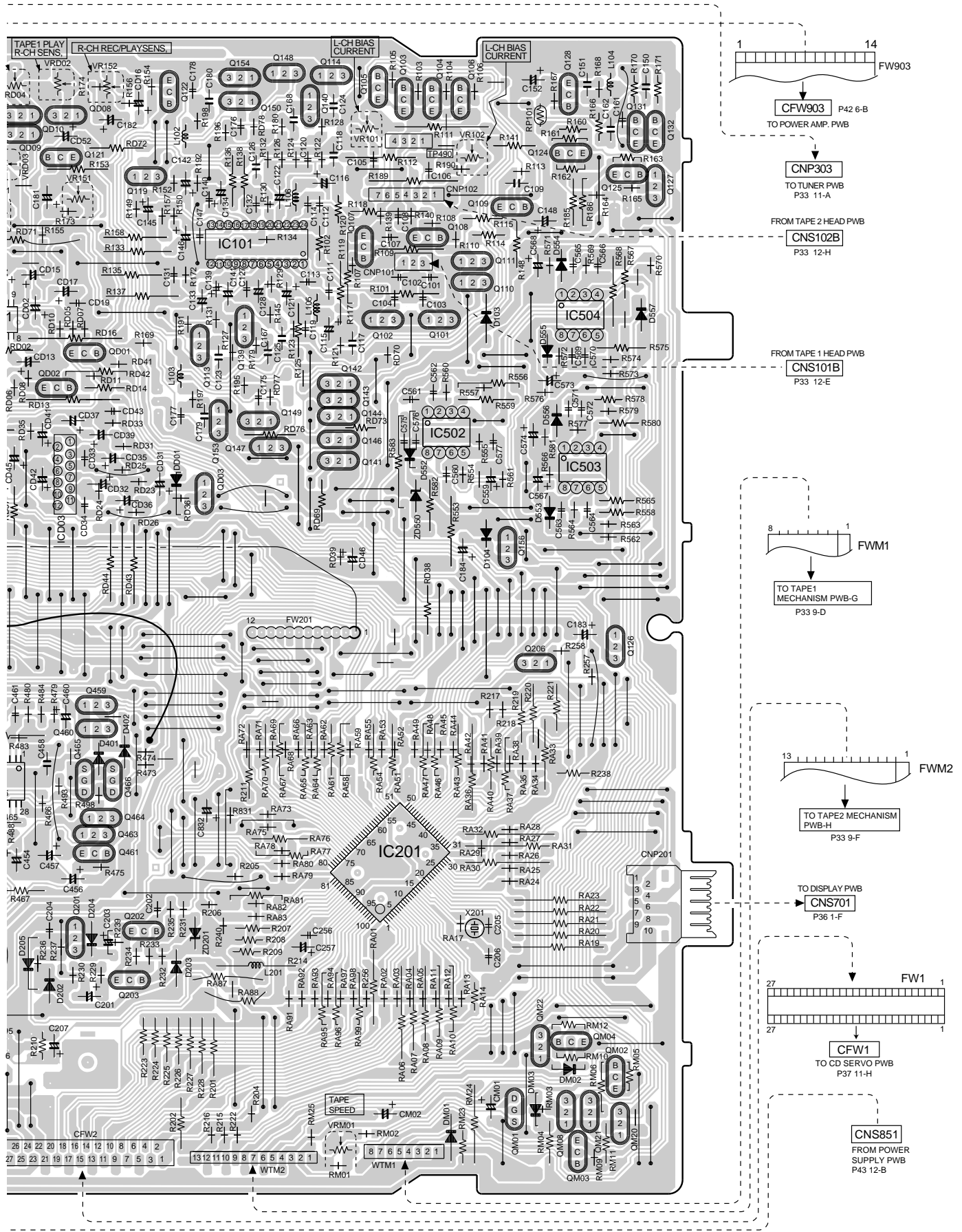


Figure 25 WIRING OF P.W.BOARD (2/9)

CD-C5H,CP-C5H

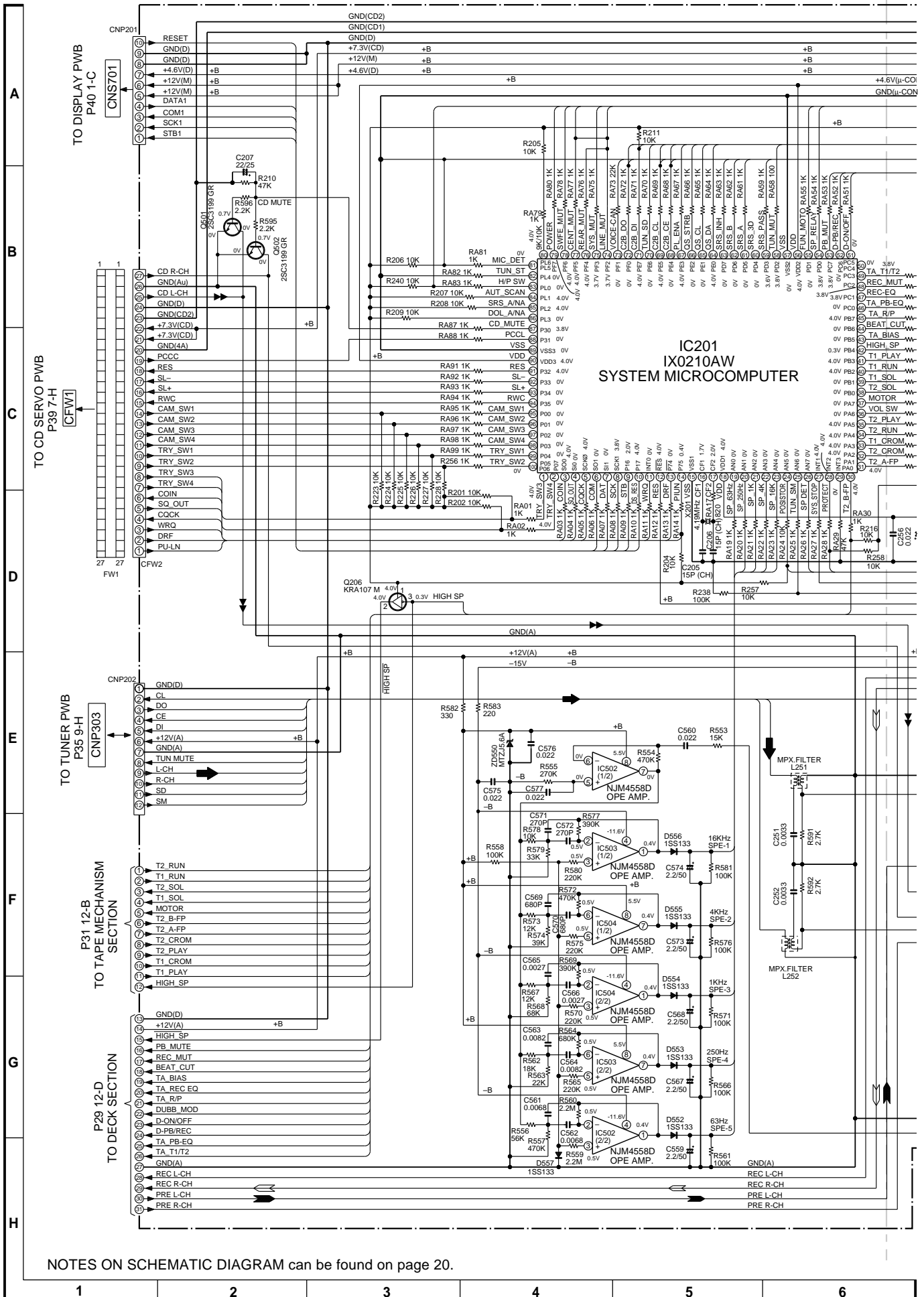


Figure 26 SCHEMATIC DIAGRAM (1/17)

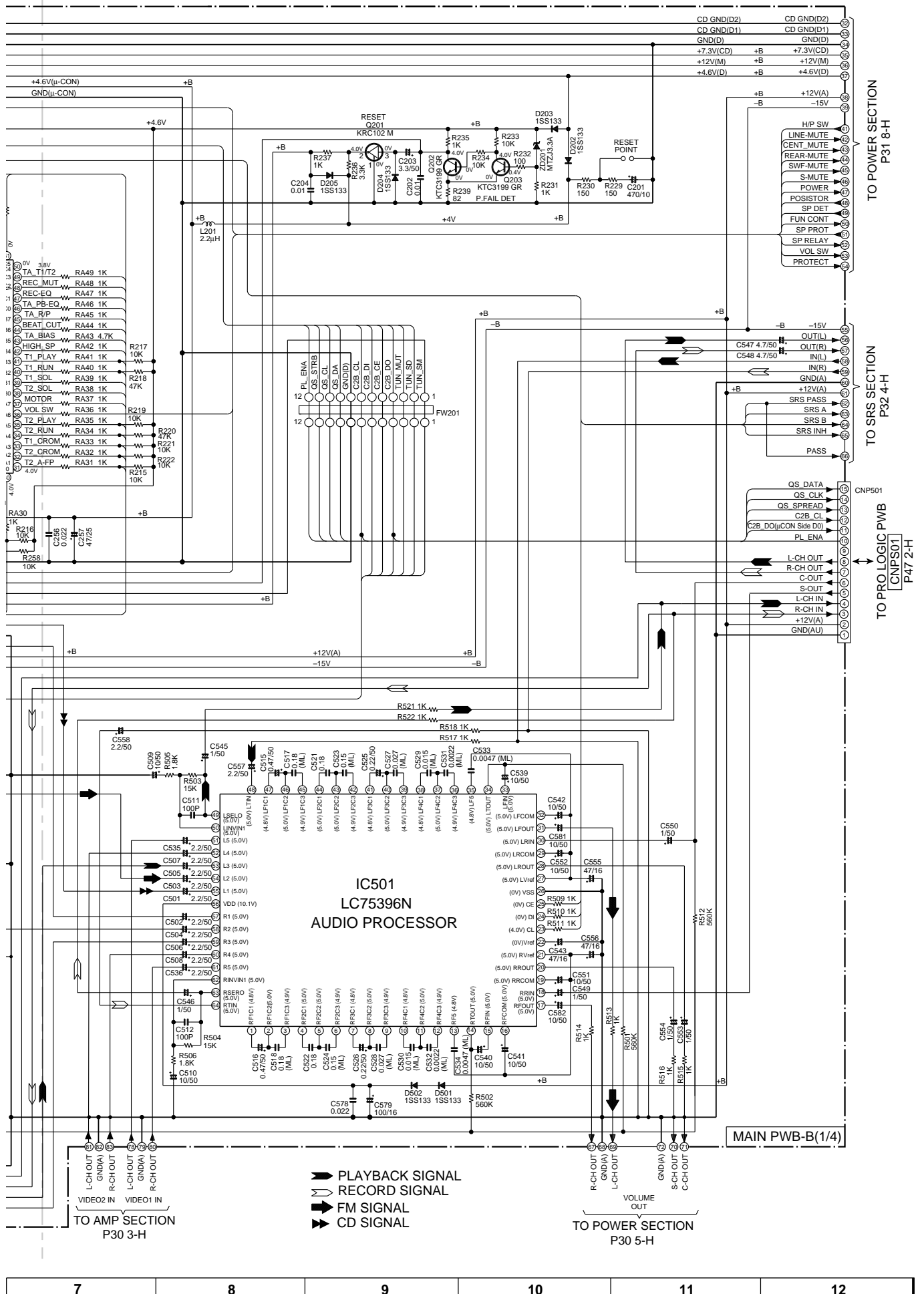


Figure 27 SCHEMATIC DIAGRAM (2/17)

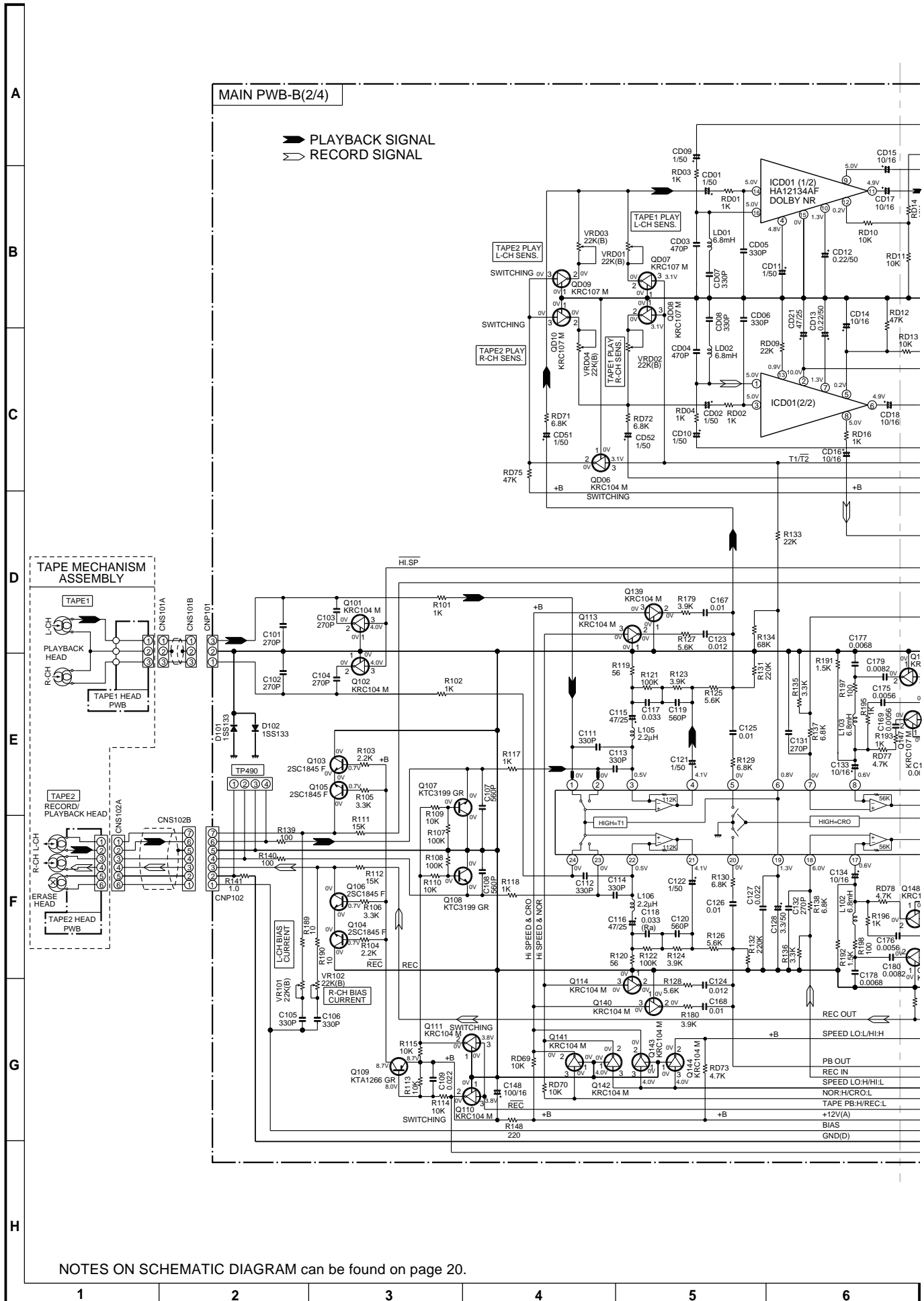
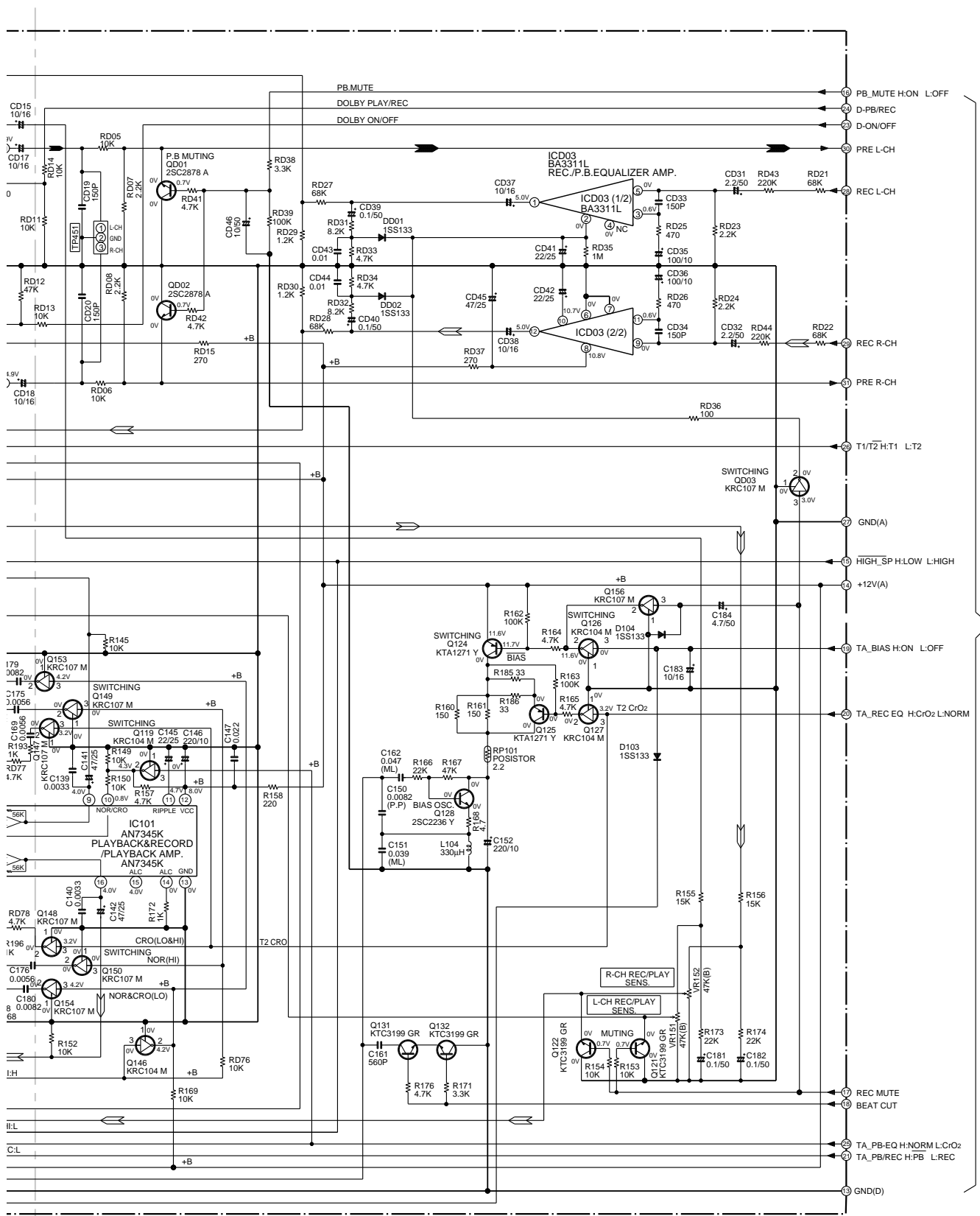


Figure 28 SCHEMATIC DIAGRAM (3/17)

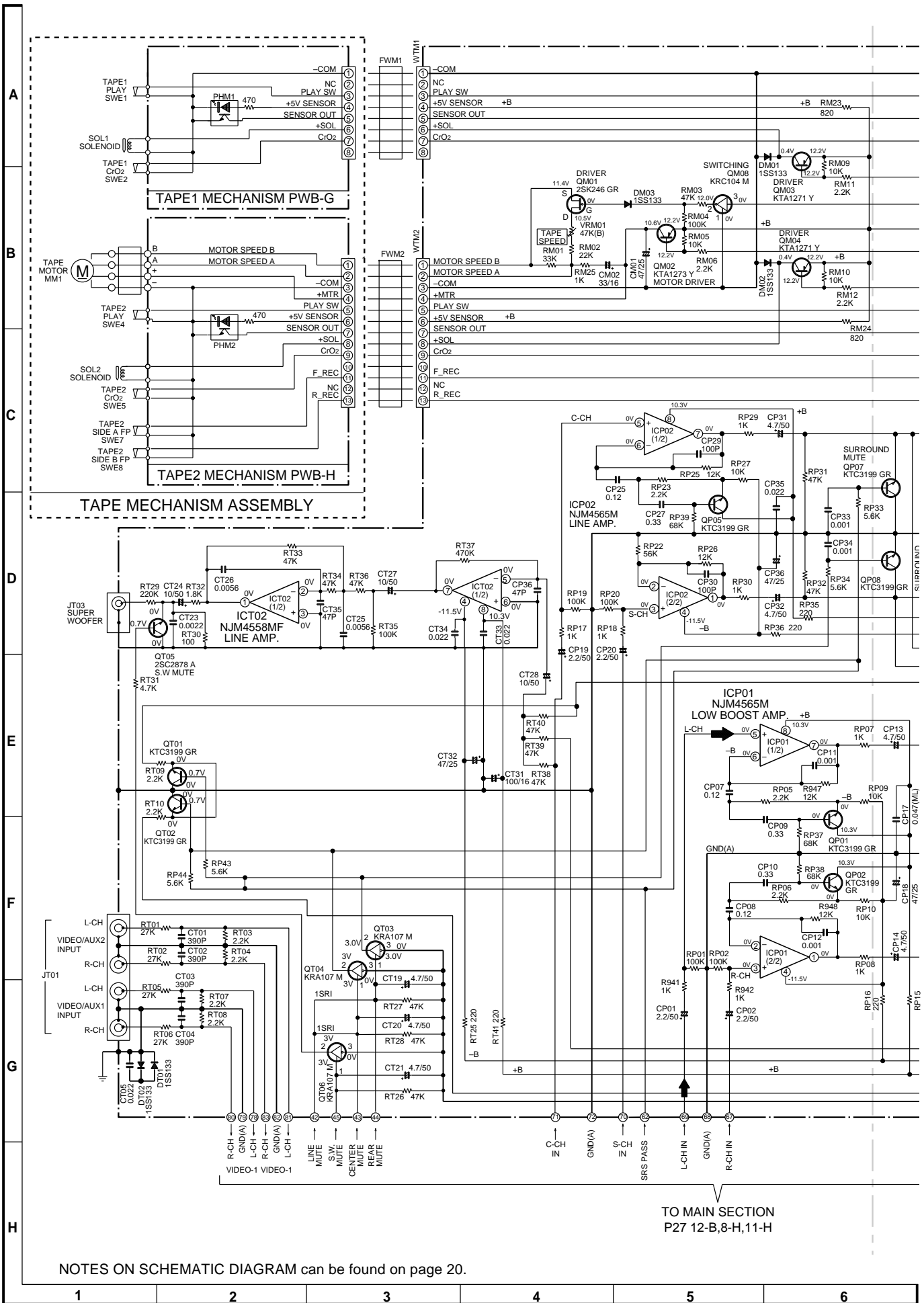


TO MAIN SECTION P26 1-G

7	8	9	10	11	12
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Figure 29 SCHEMATIC DIAGRAM (4/17)

CD-C5H,CP-C5H



NOTES ON SCHEMATIC DIAGRAM can be found on page 20.

Figure 30 SCHEMATIC DIAGRAM (5/17)

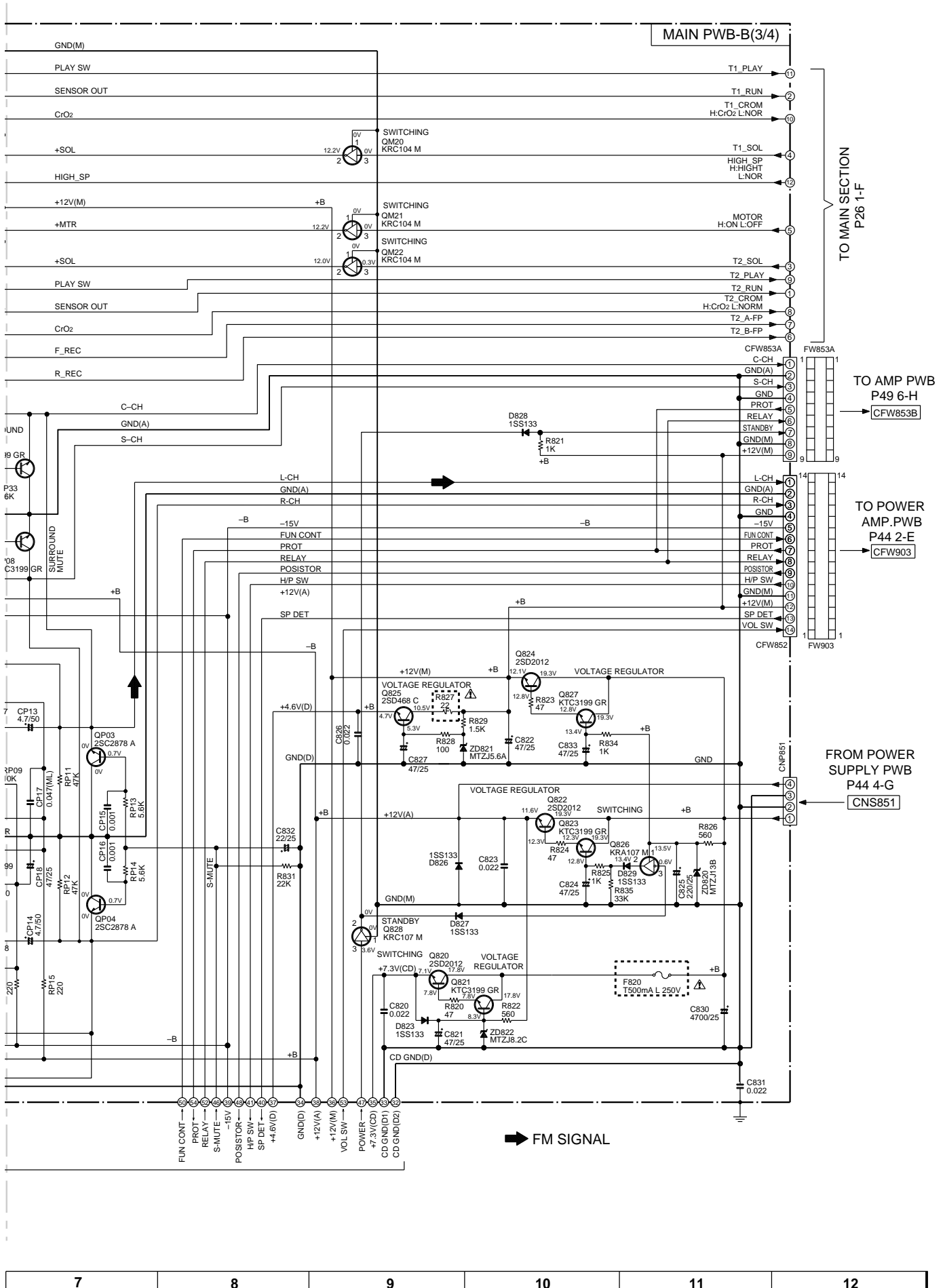


Figure 31 SCHEMATIC DIAGRAM (6/17)

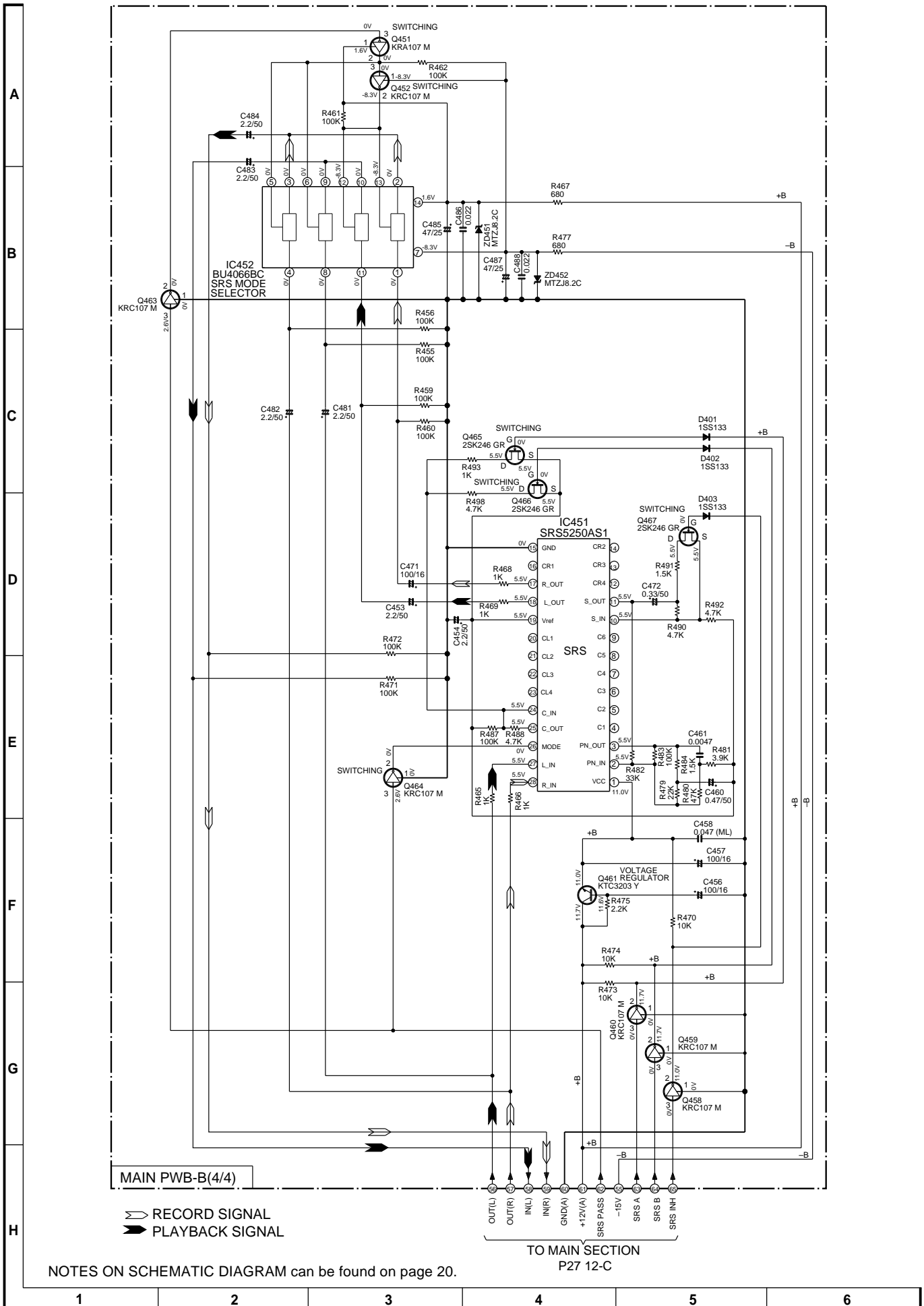


Figure 32 SCHEMATIC DIAGRAM (7/17)

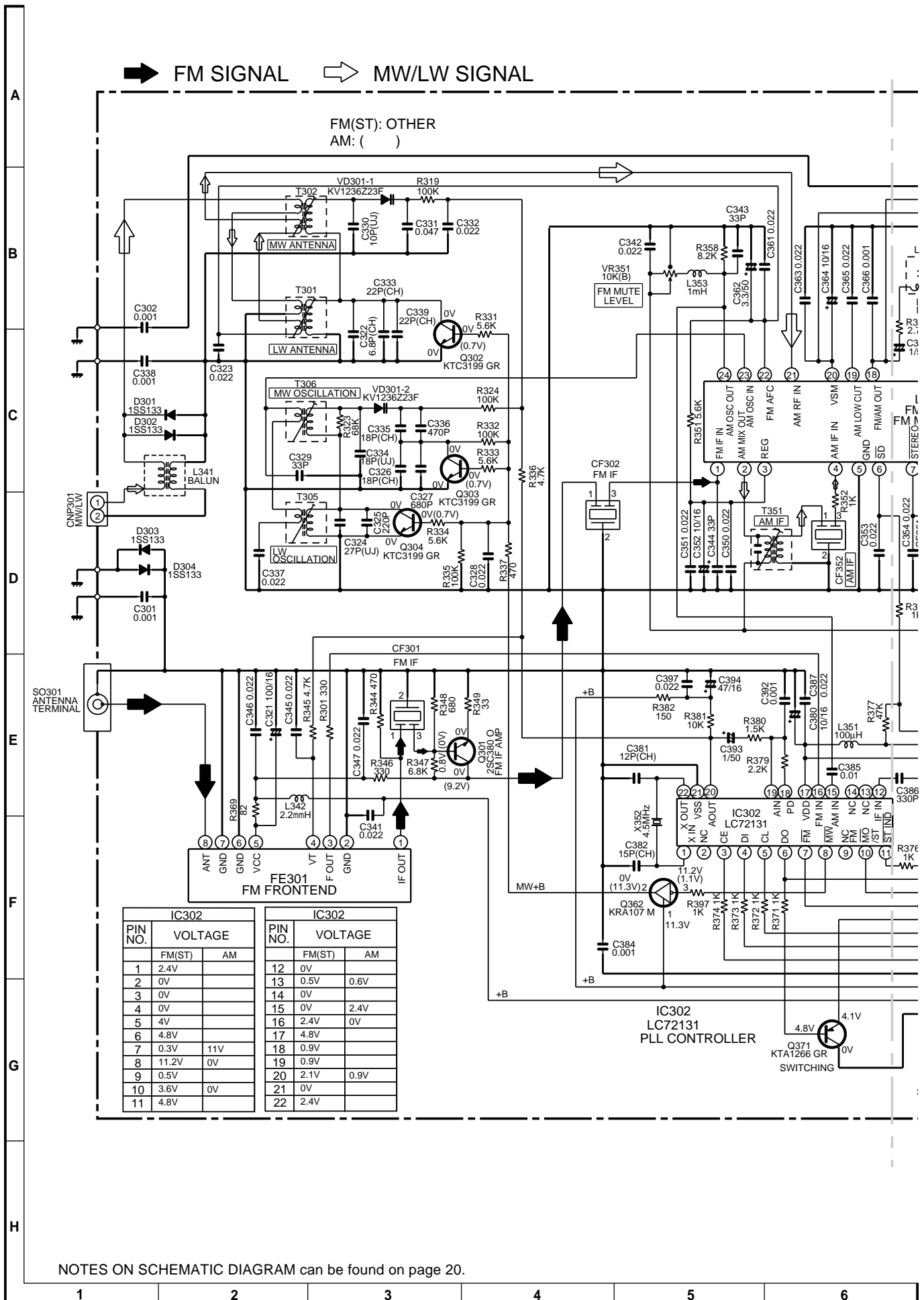


Figure 34 SCHEMATIC DIAGRAM (8/17)

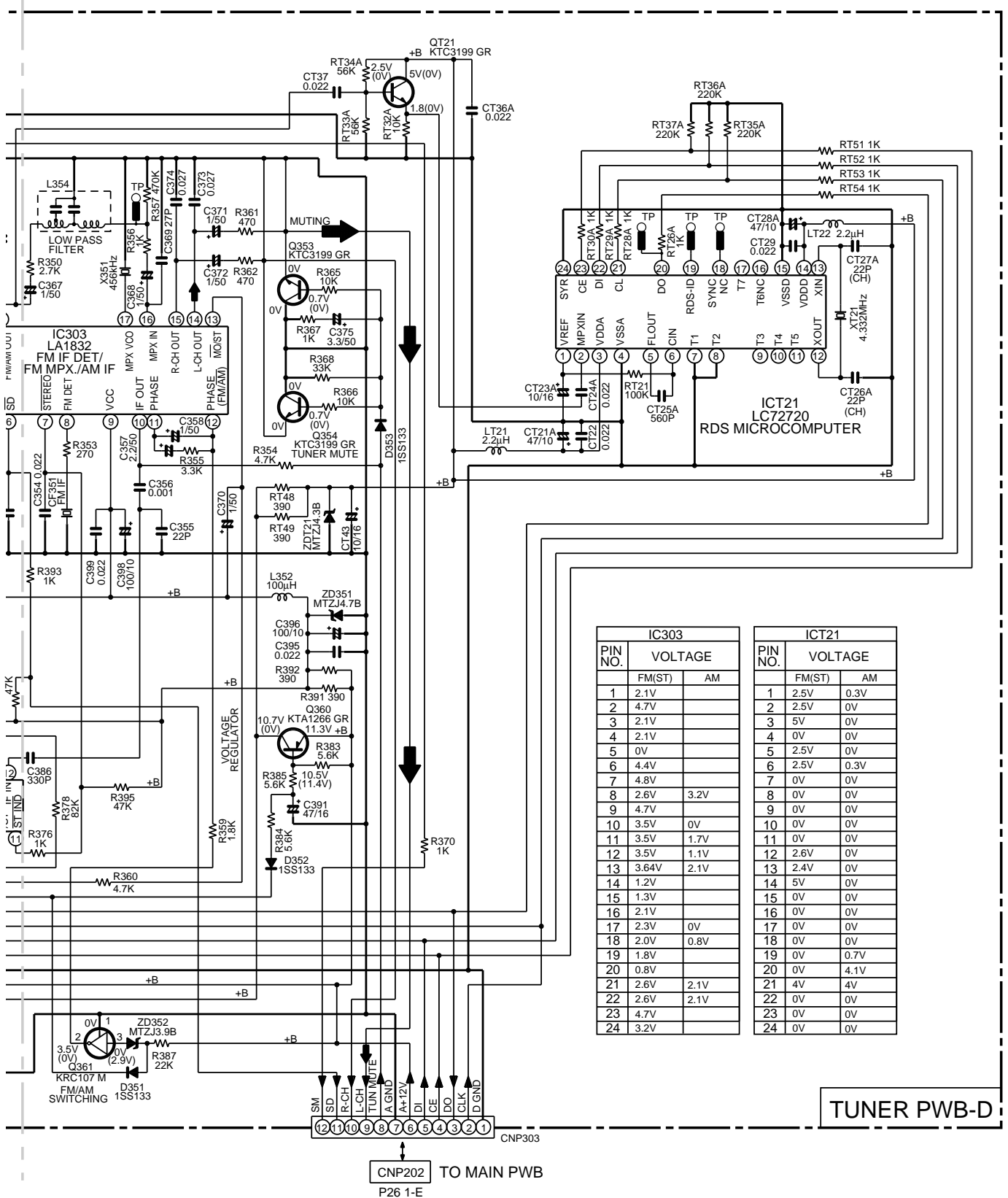


Figure 35 SCHEMATIC DIAGRAM (9/17)

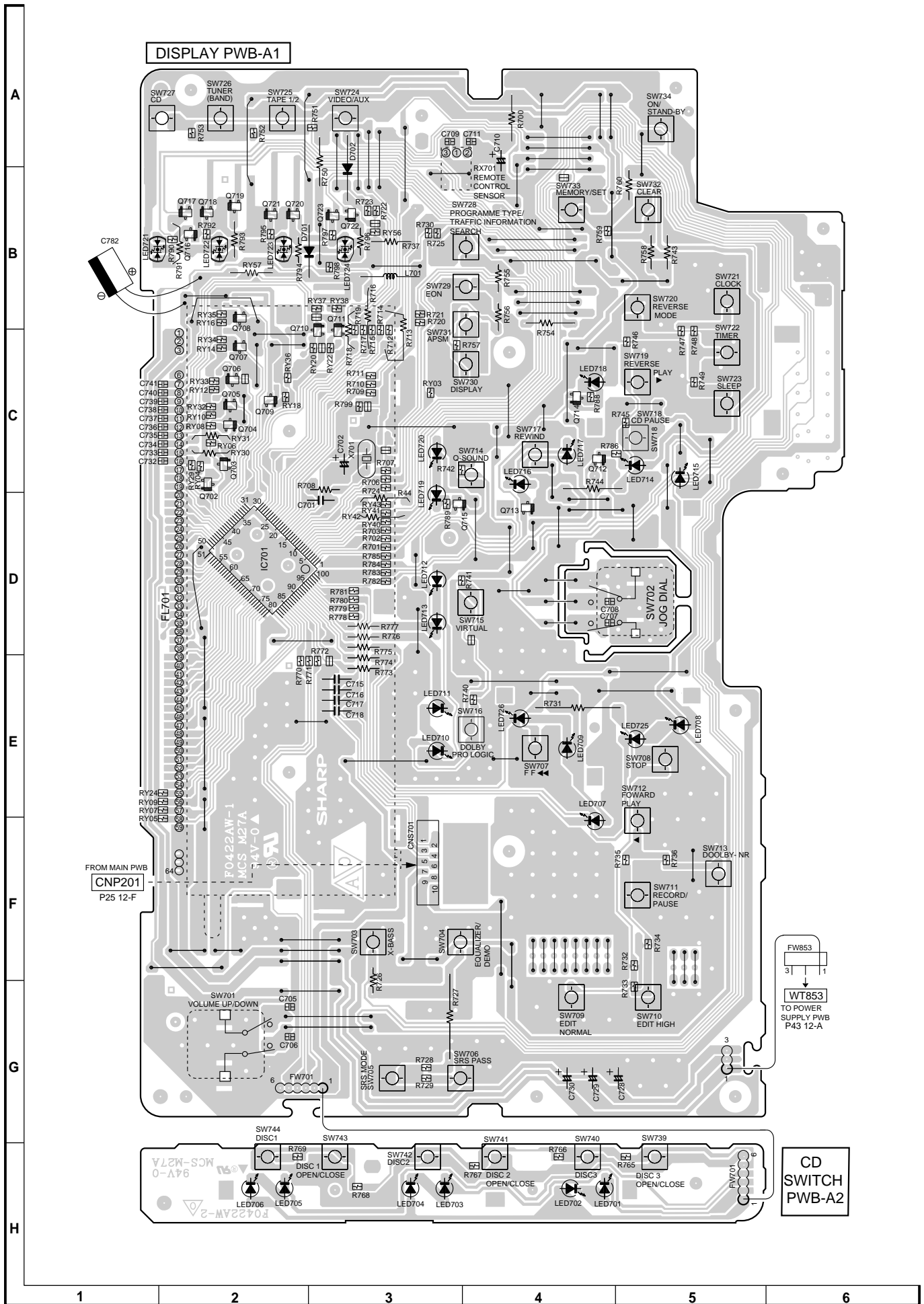
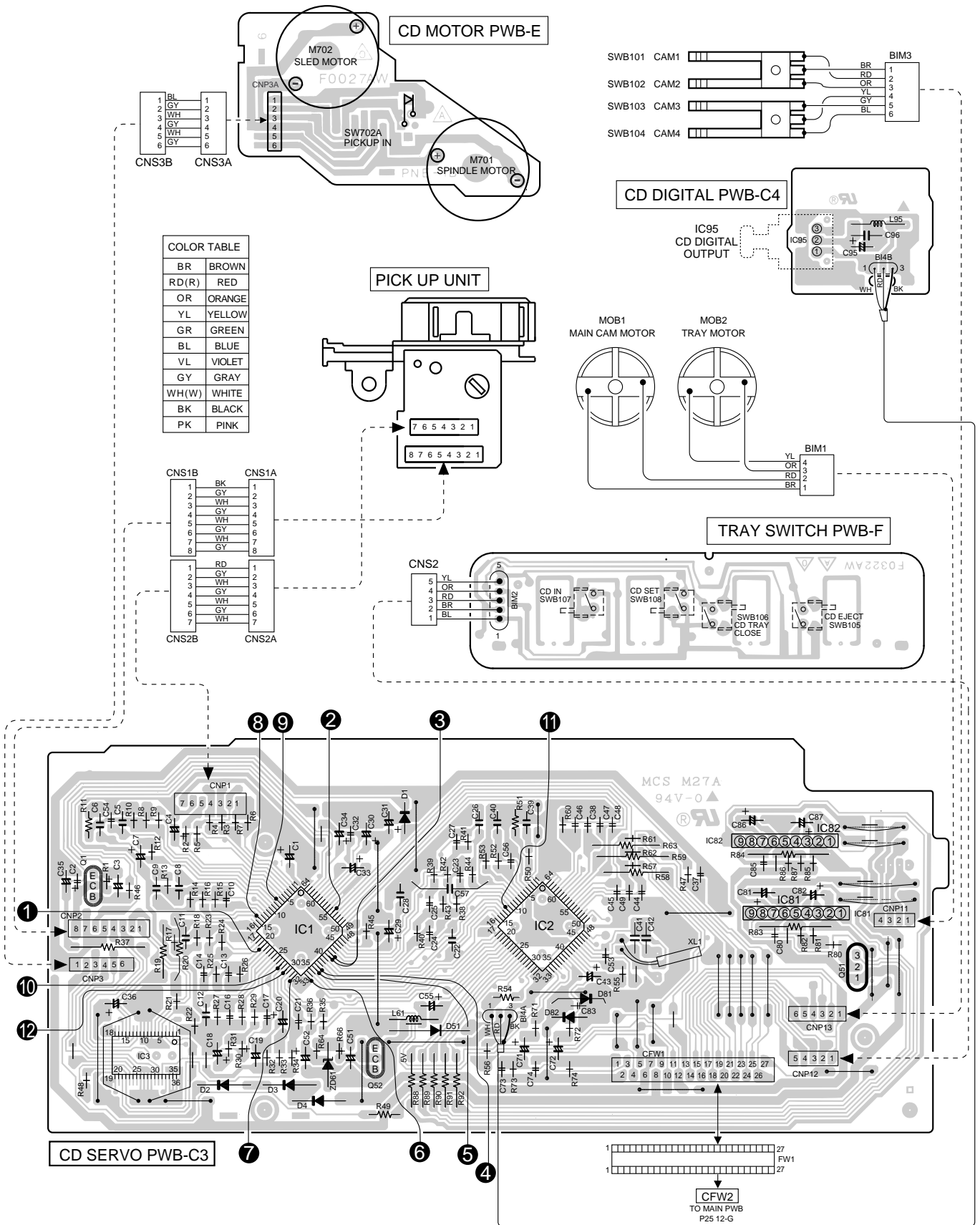


Figure 36 WIRING OF P.W.BOARD (4/9)



The numbers 1 to 12 are waveform numbers shown in page 50.

7	8	9	10	11	12
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Figure 37 WIRING OF P.W.BOARD (5/9)

CD-C5H,CP-C5H

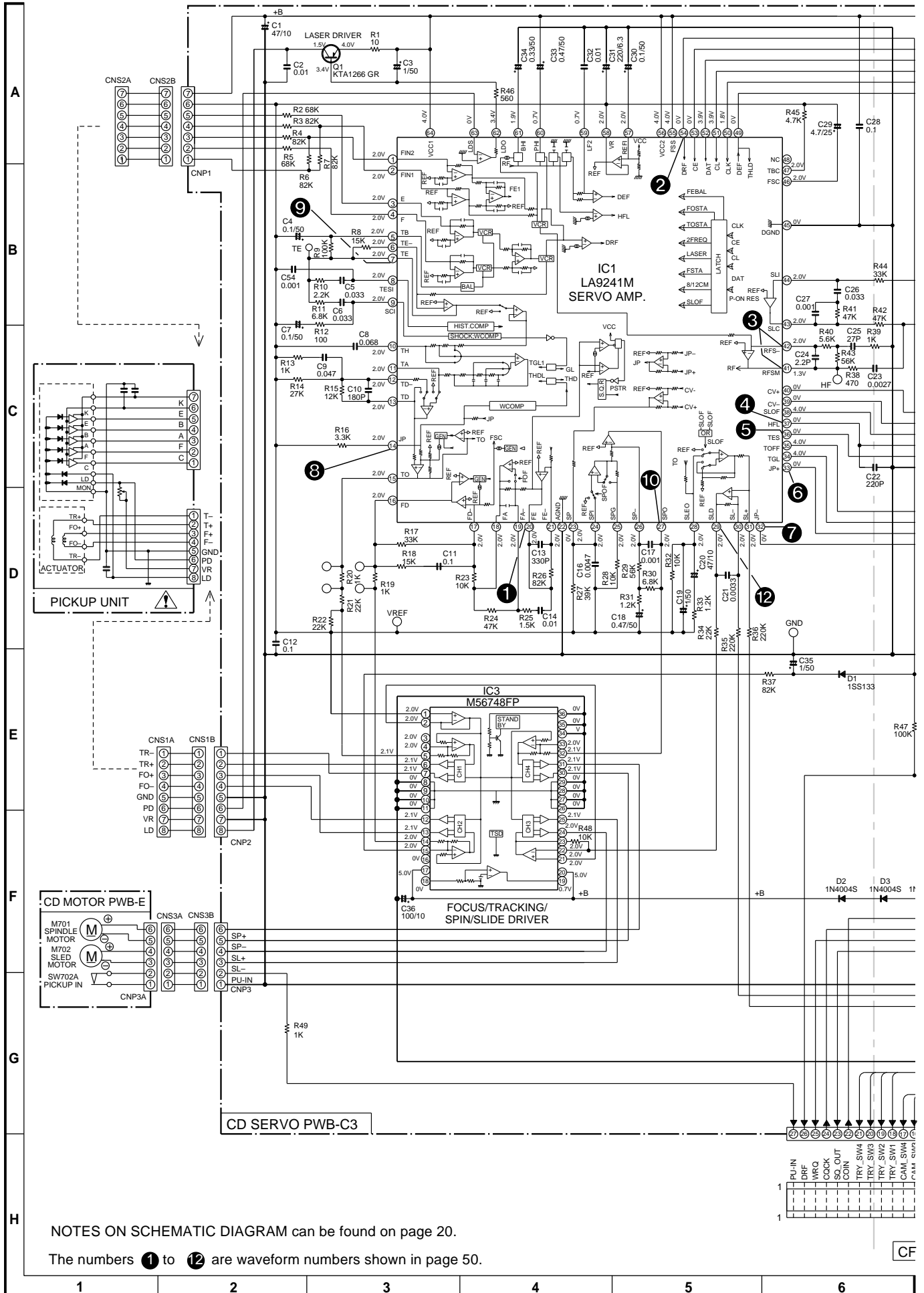


Figure 38 SCHEMATIC DIAGRAM (10/17)

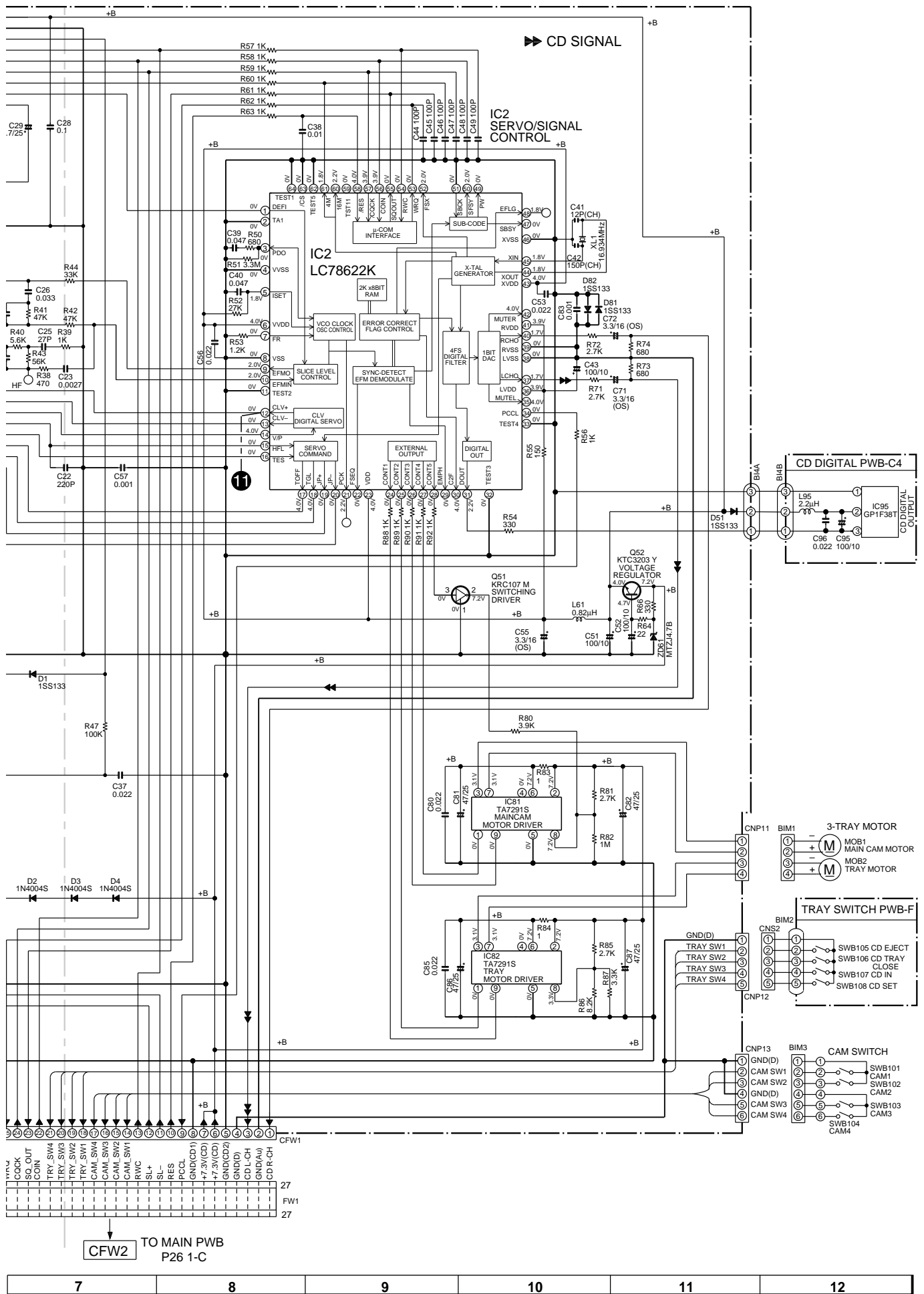


Figure 39 SCHEMATIC DIAGRAM (11/17)

CD-C5H,CP-C5H

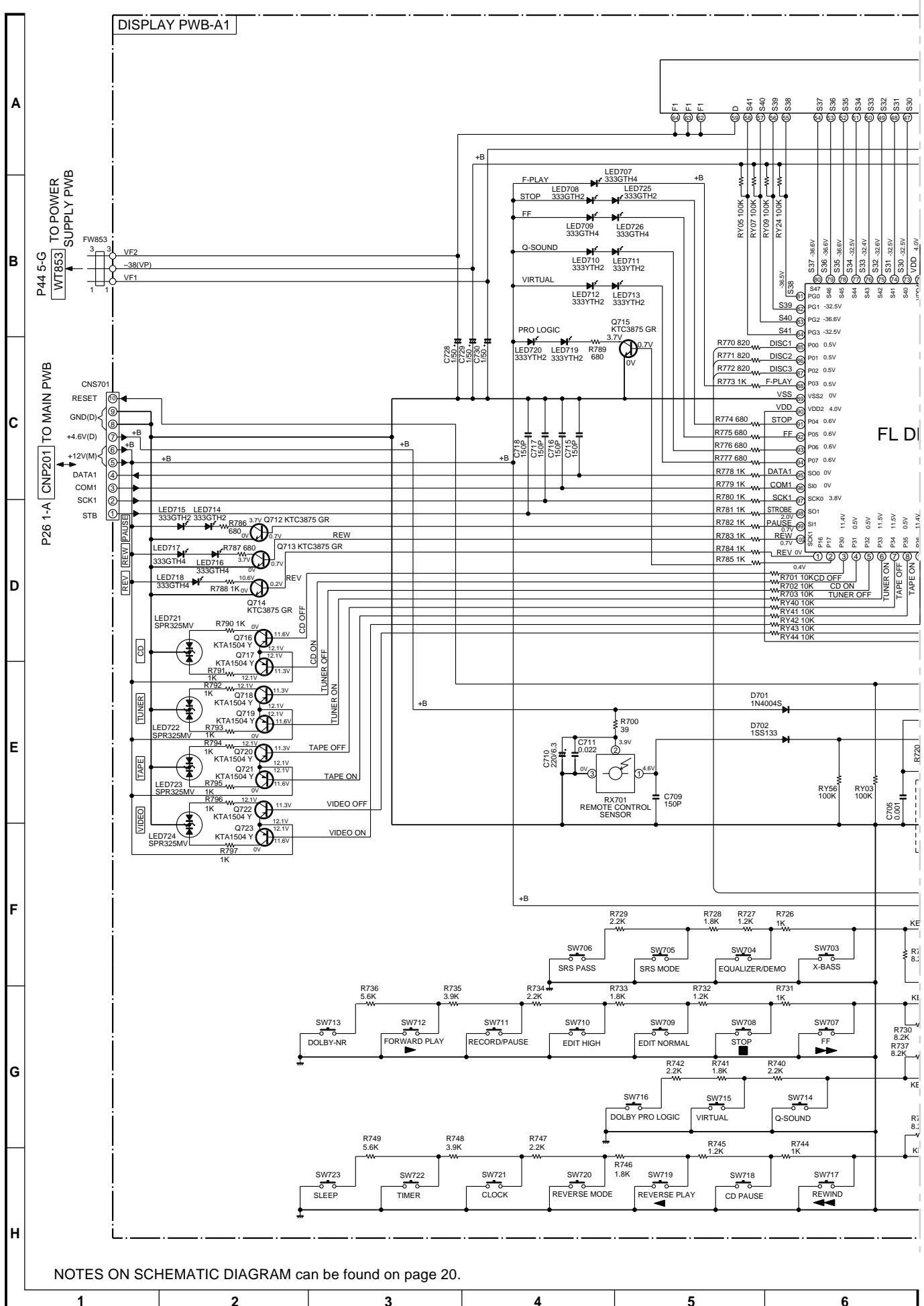
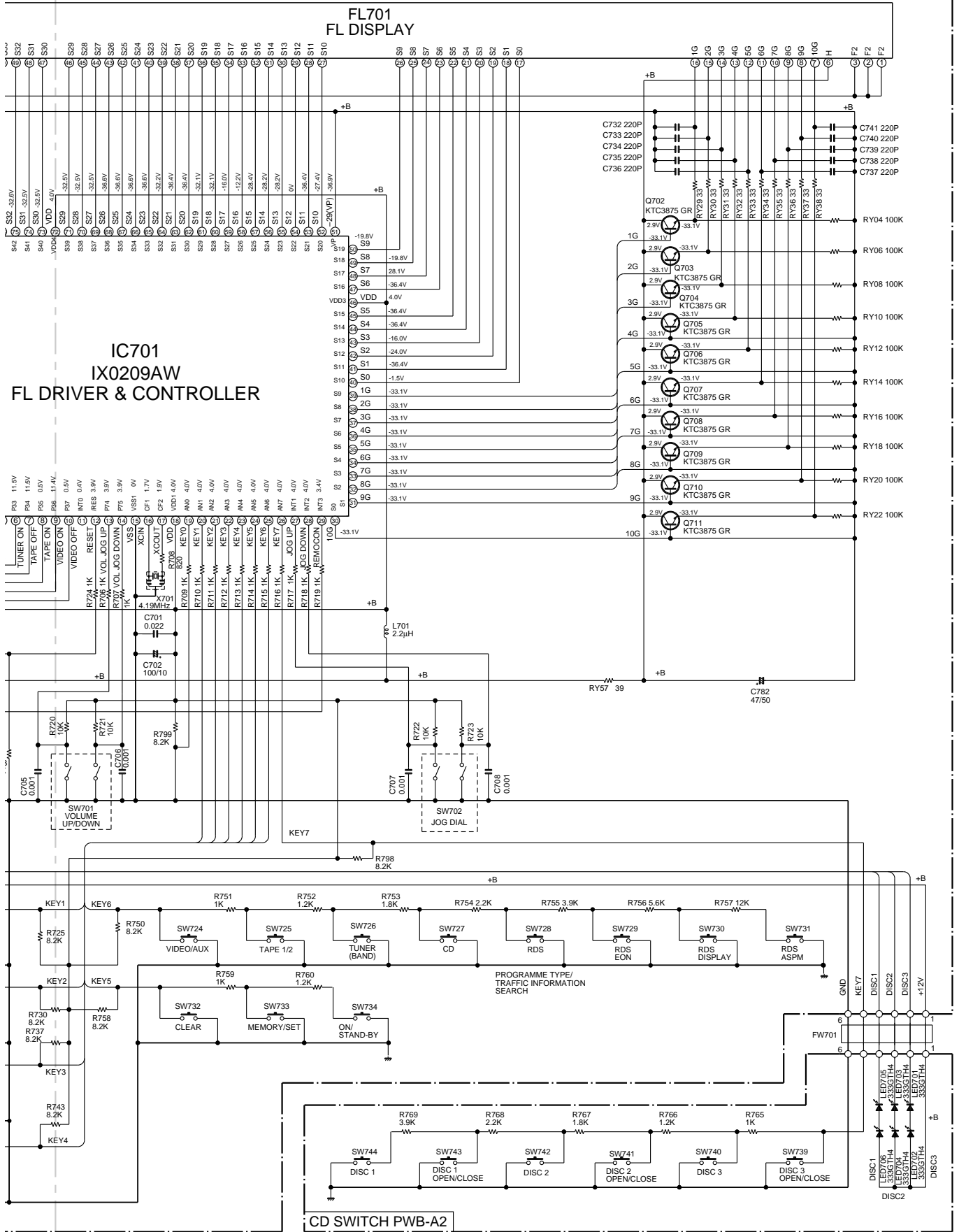


Figure 40 SCHEMATIC DIAGRAM (12/17)



7	8	9	10	11	12
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Figure 41 SCHEMATIC DIAGRAM (13/17)

CD-C5H,CP-C5H

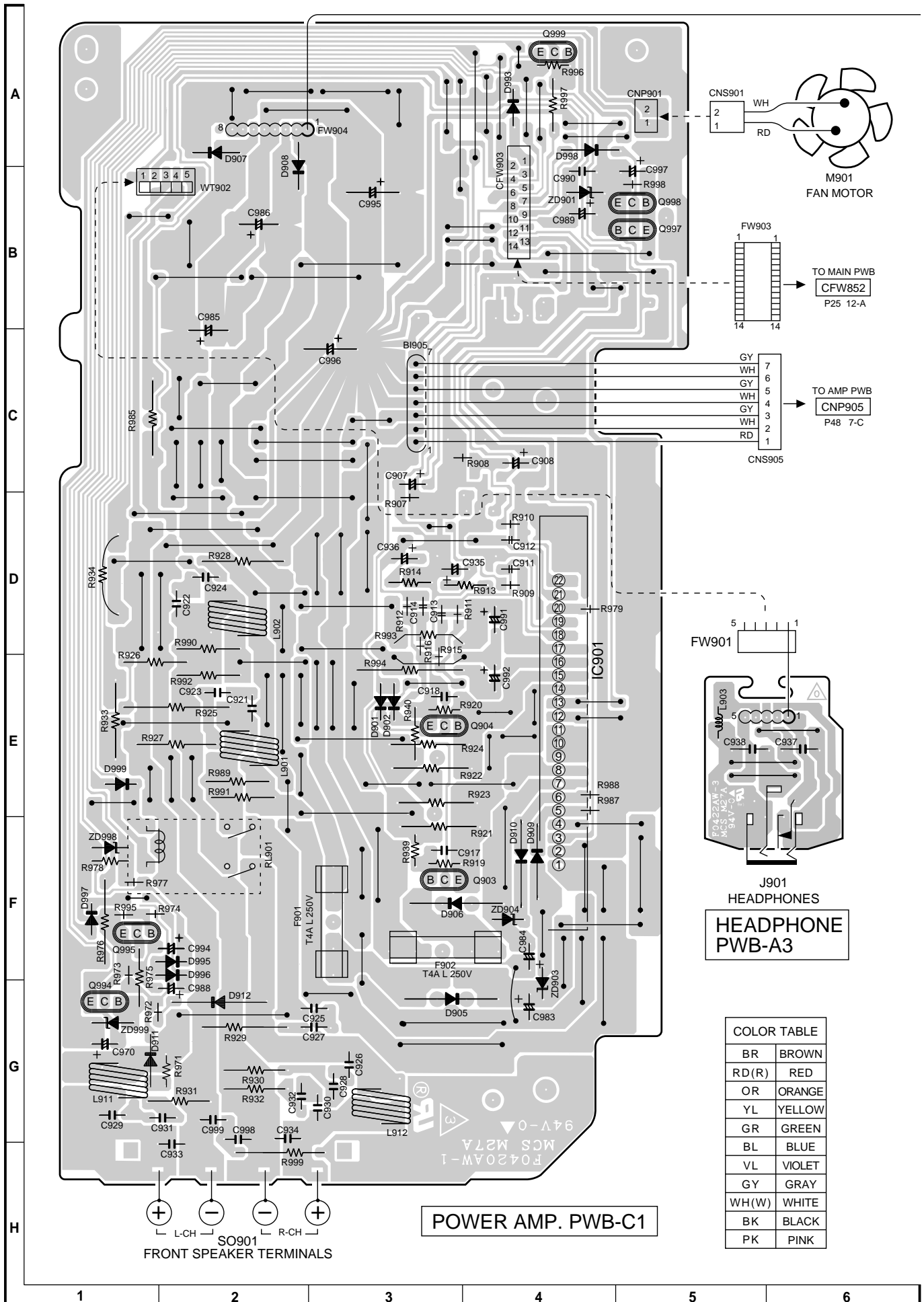
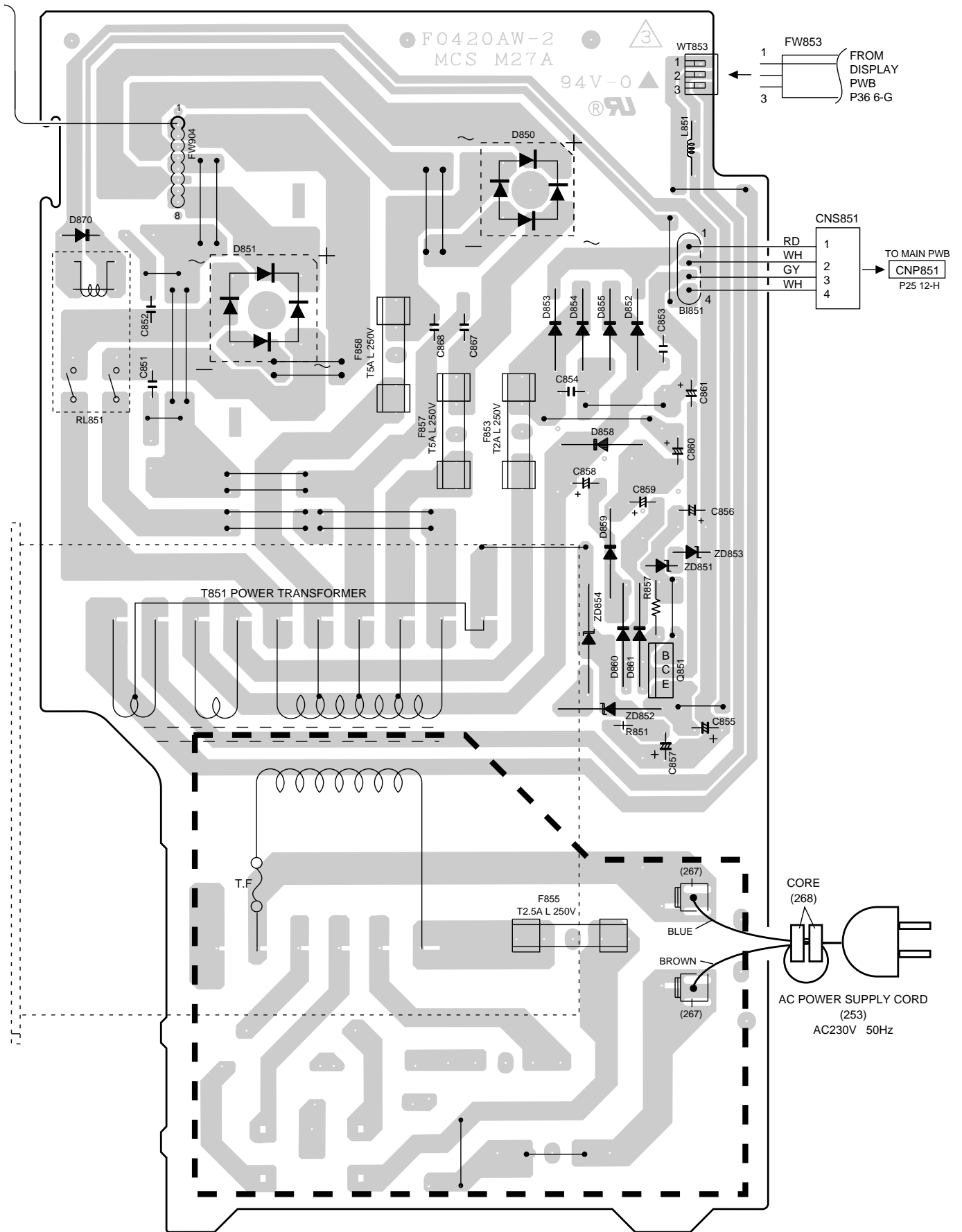


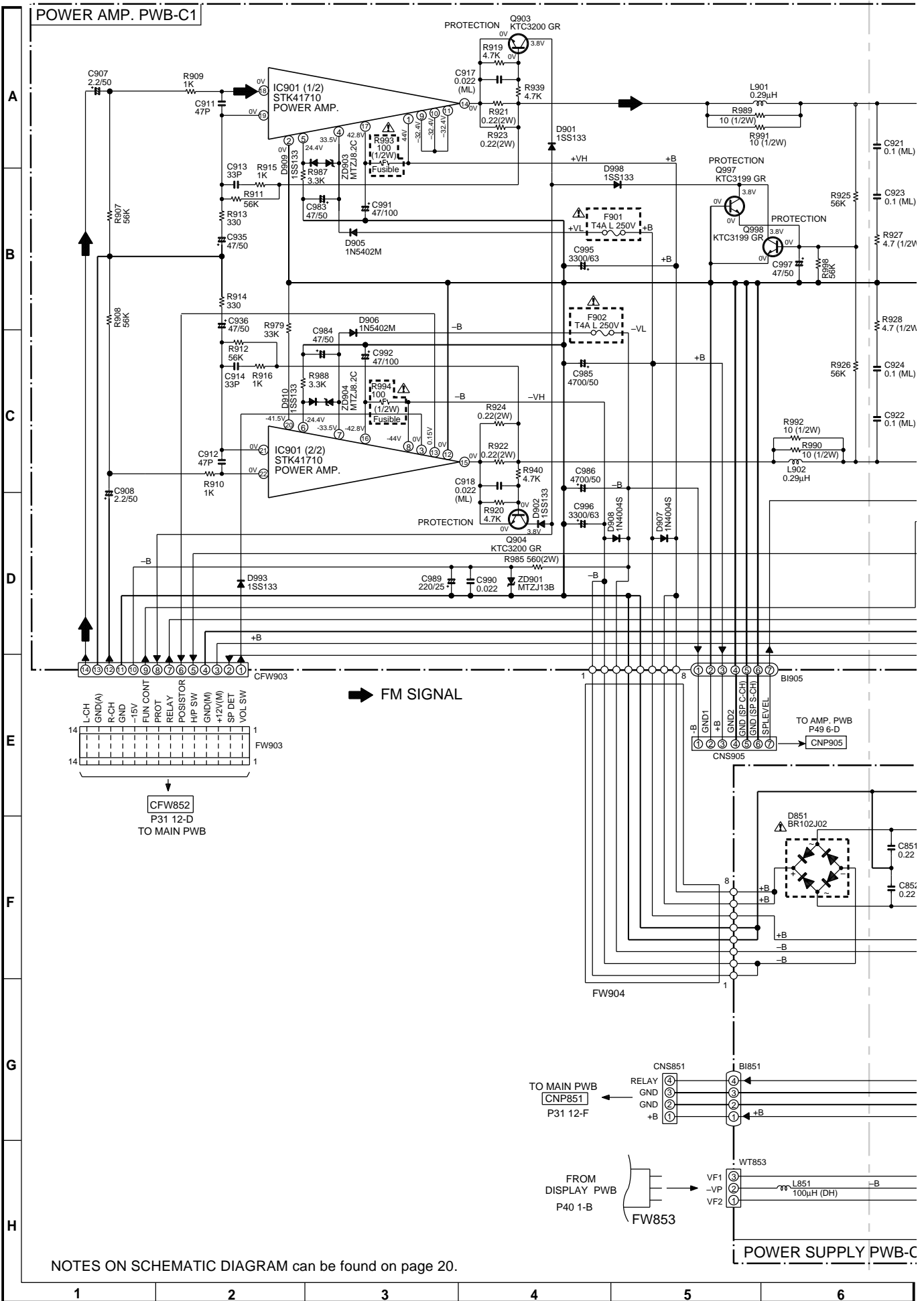
Figure 42 WIRING OF P.W.BOARD (6/9)

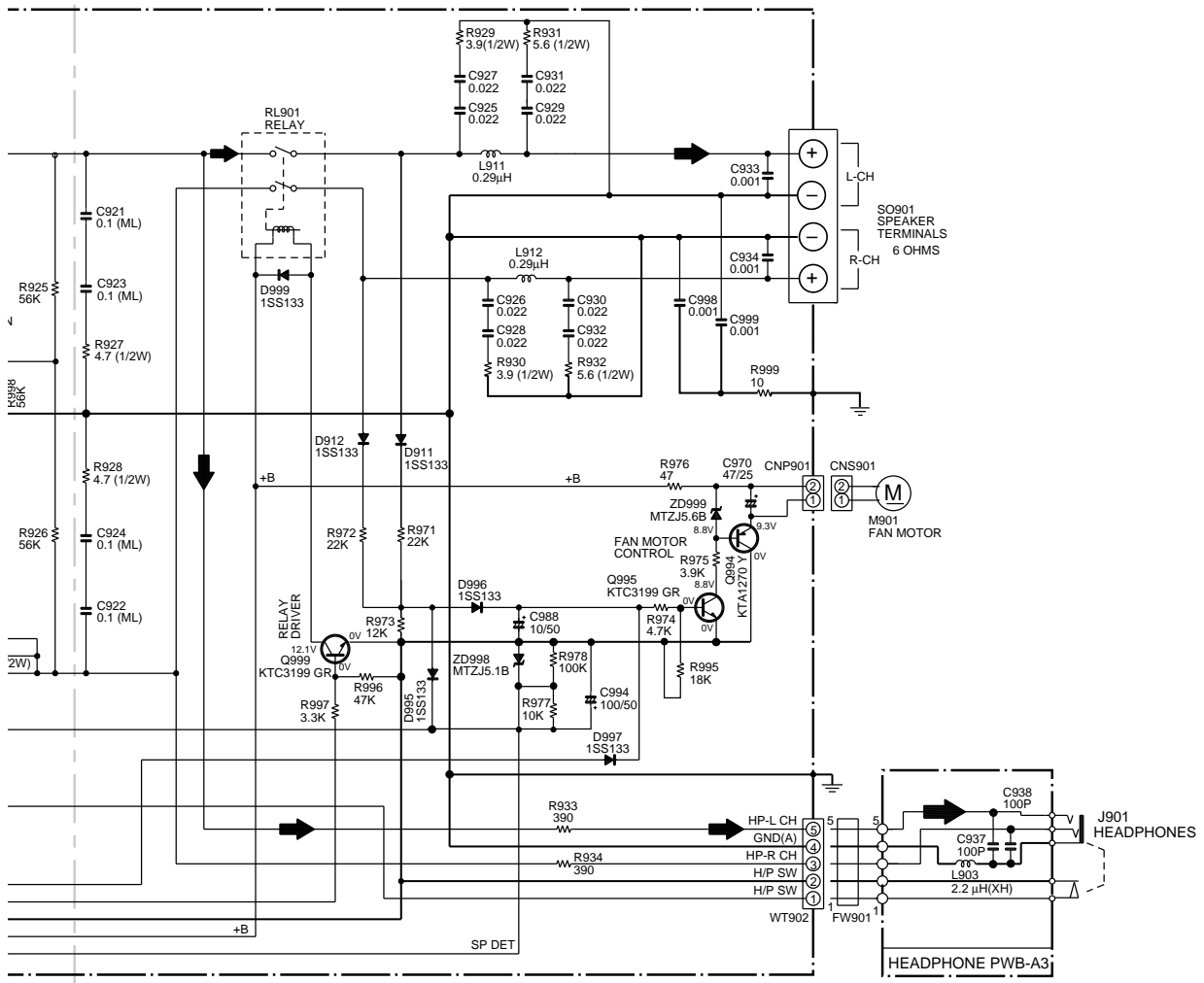


7	8	9	10	11	12
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Figure 43 WIRING OF P.W.BOARD (7/9)

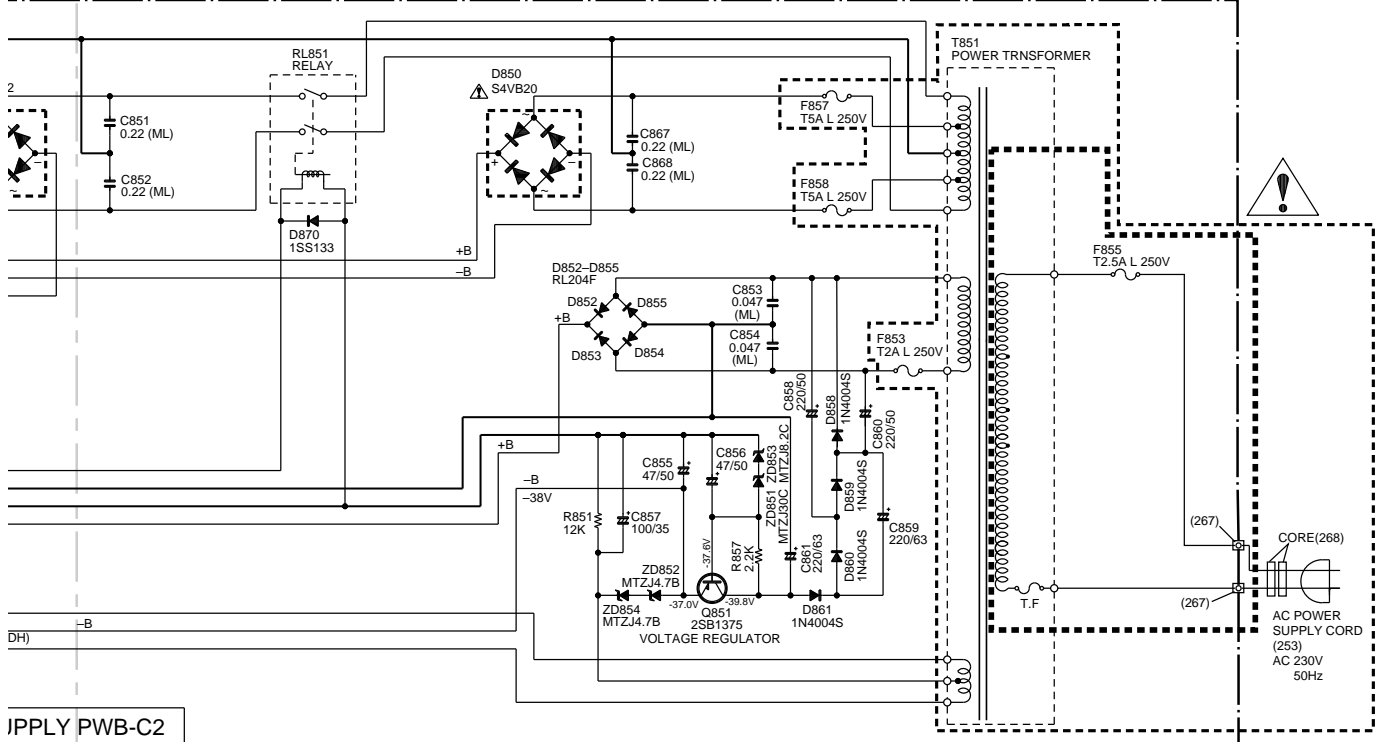
CD-C5H,CP-C5H





P. PWB
16-D
P905

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

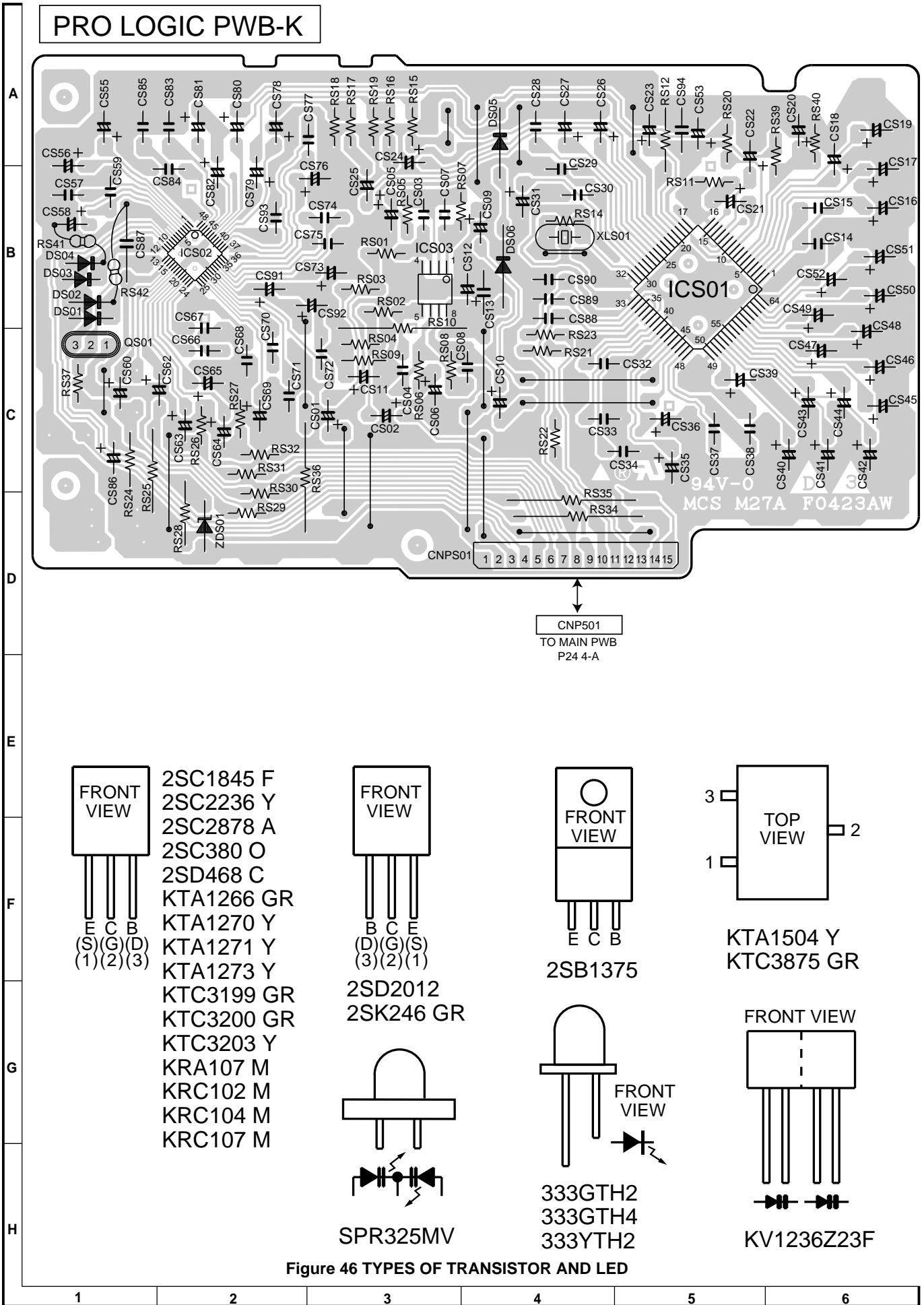


IPPLY PWB-C2

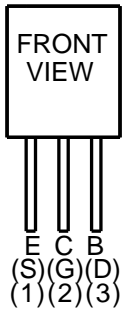
7	8	9	10	11	12
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Figure 45 SCHEMATIC DIAGRAM (15/17)

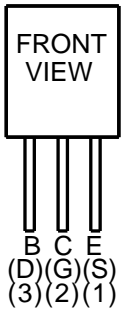
PRO LOGIC PWB-K



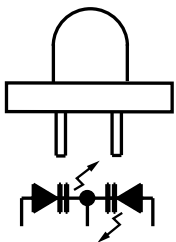
CNP501
TO MAIN PWB
P24 4-A



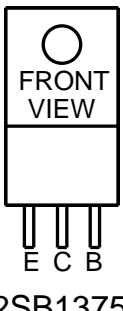
- 2SC1845 F
- 2SC2236 Y
- 2SC2878 A
- 2SC380 O
- 2SD468 C
- KTA1266 GR
- KTA1270 Y
- KTA1271 Y
- KTA1273 Y
- KTC3199 GR
- KTC3200 GR
- KTC3203 Y
- KRA107 M
- KRC102 M
- KRC104 M
- KRC107 M



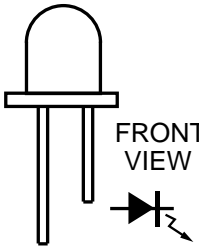
- 2SD2012
- 2SK246 GR



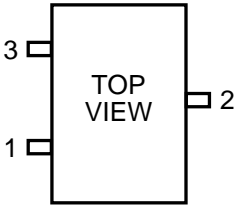
SPR325MV



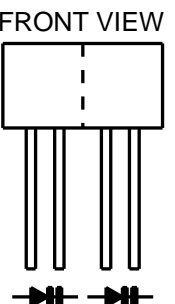
2SB1375



- 333GTH2
- 333GTH4
- 333YTH2



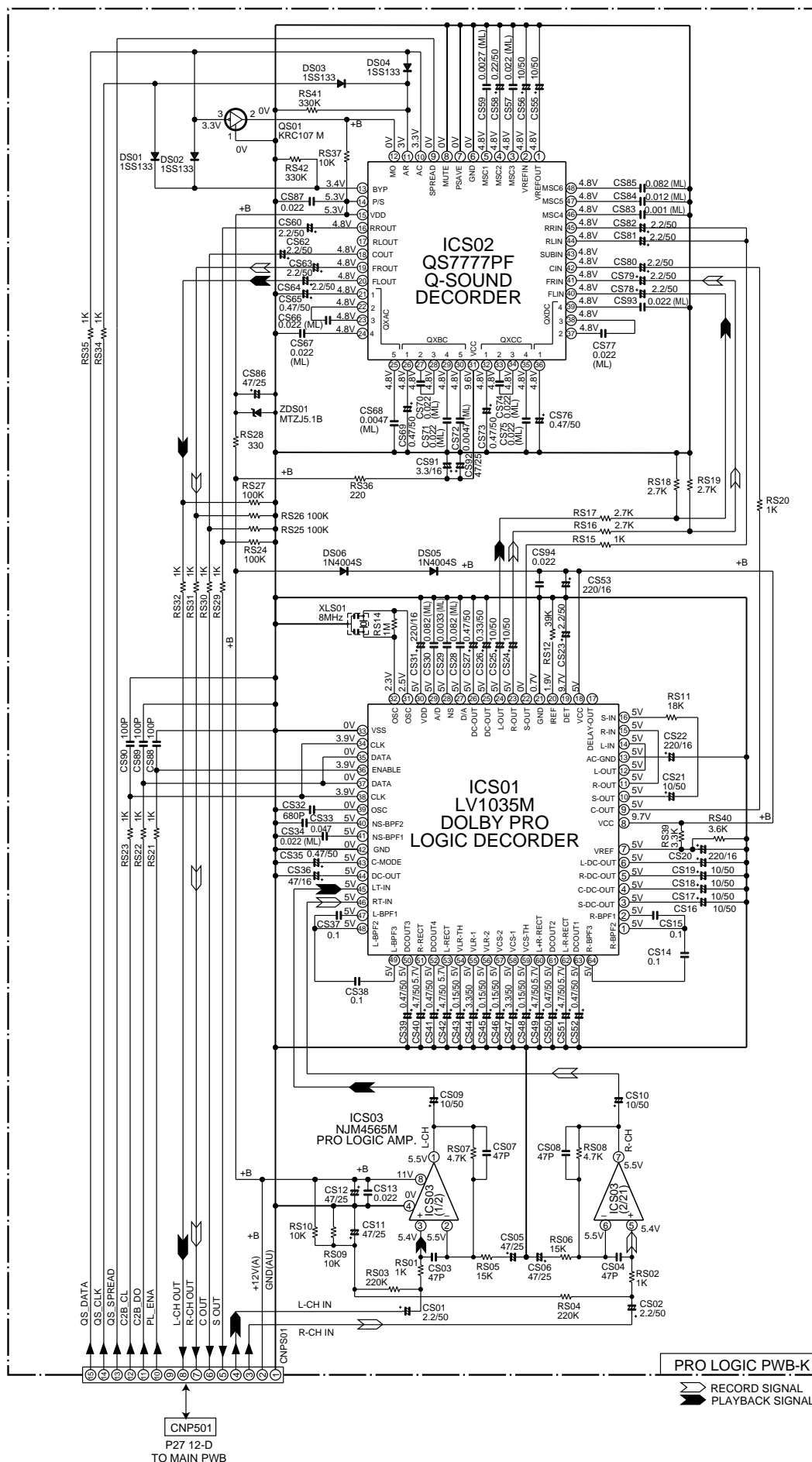
- KTA1504 Y
- KTC3875 GR



KV1236Z23F

Figure 46 TYPES OF TRANSISTOR AND LED

Figure 46 WIRING OF P.W.BOARD (8/9)



NOTES ON SCHEMATIC DIAGRAM can be found on page 20.

7	8	9	10	11	12
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Figure 47 SCHEMATIC DIAGRAM (16/17)

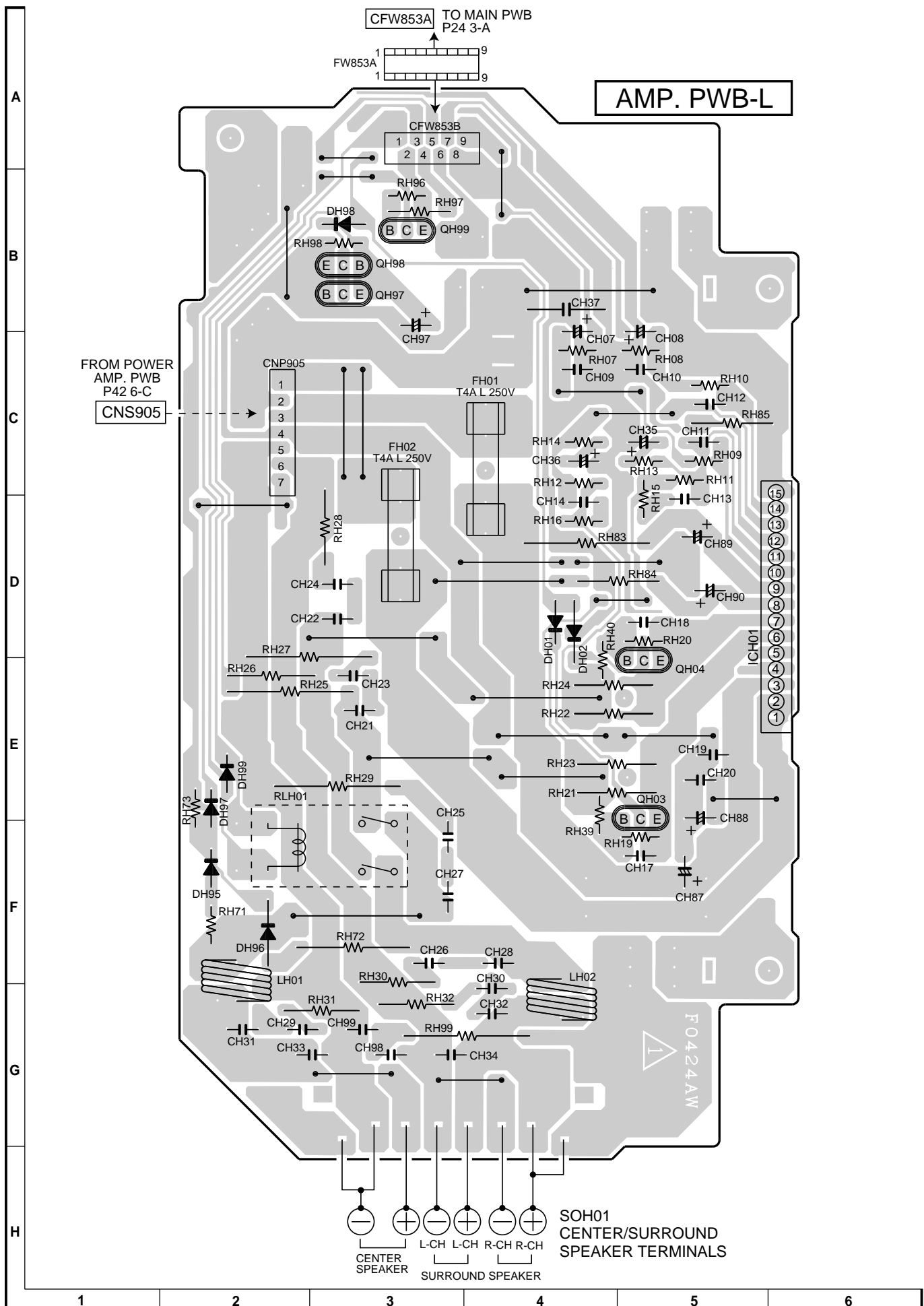
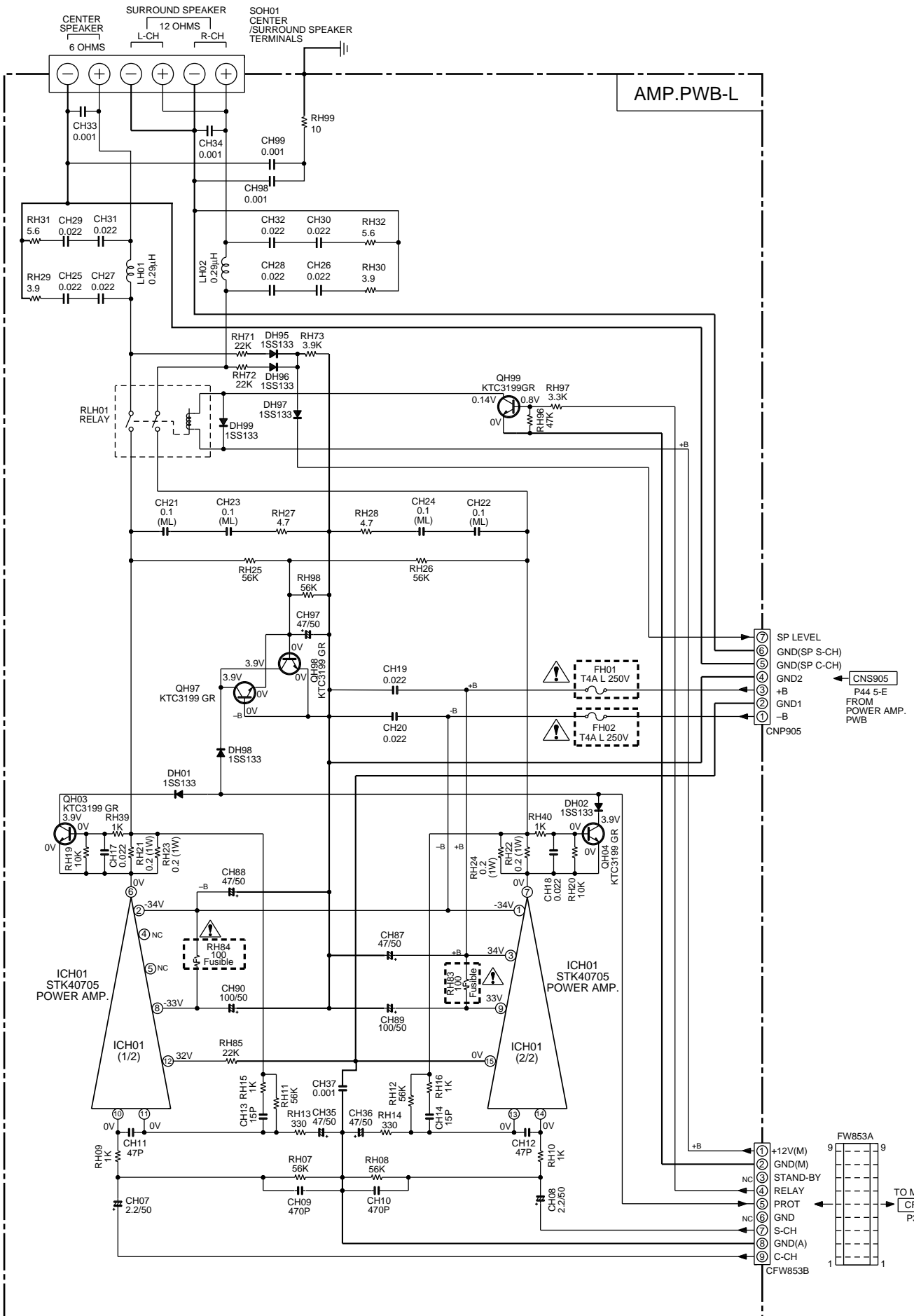


Figure 48 WIRING OF P.W.BOARD (9/9)

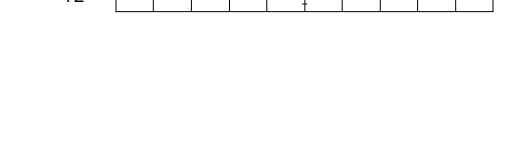
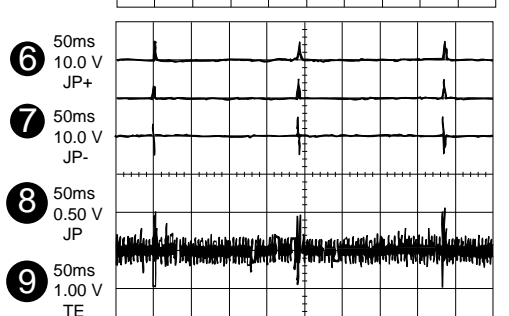
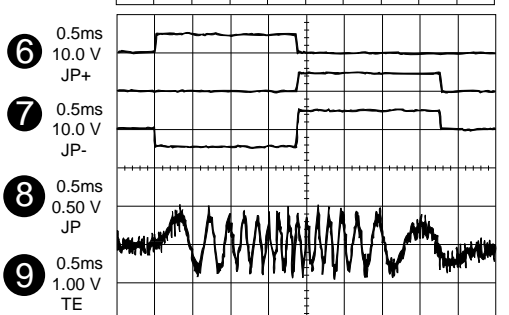
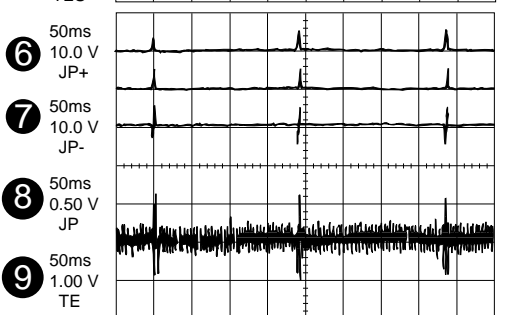
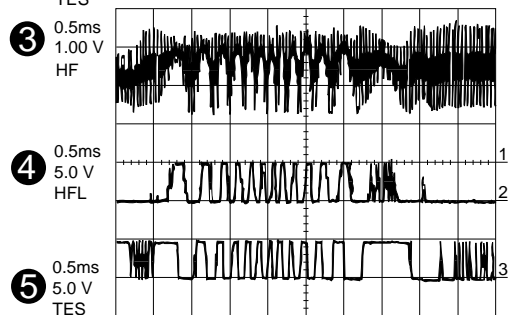
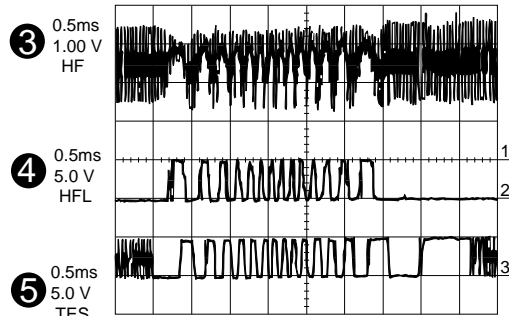
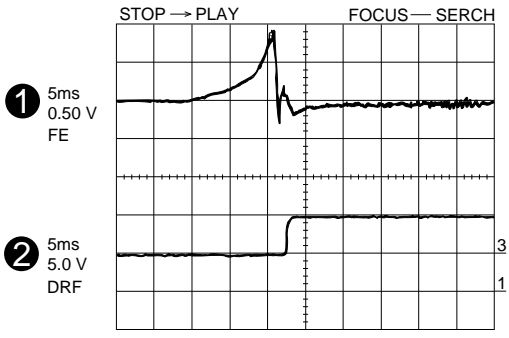


NOTES ON SCHEMATIC DIAGRAM can be found on page 20.

7	8	9	10	11	12
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Figure 49 SCHEMATIC DIAGRAM (17/17)

WAVEFORMS OF CD CIRCUIT

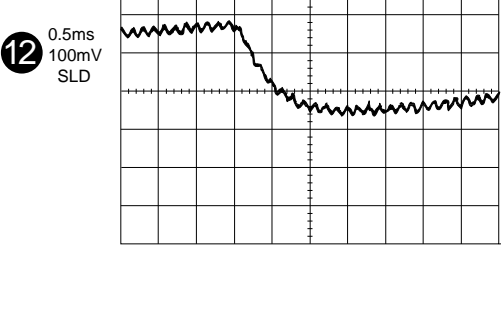
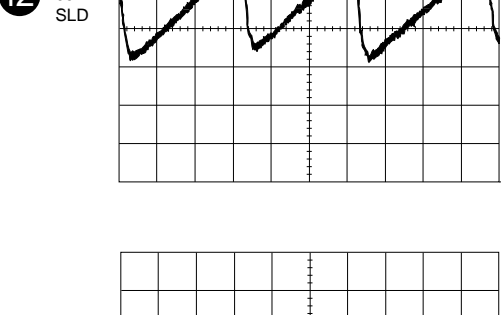
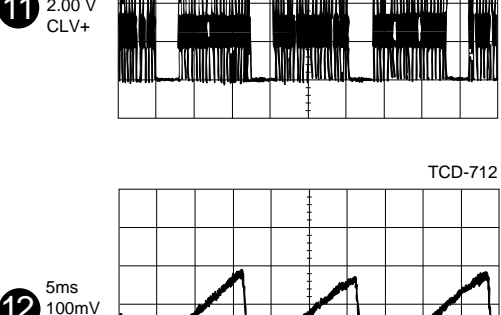
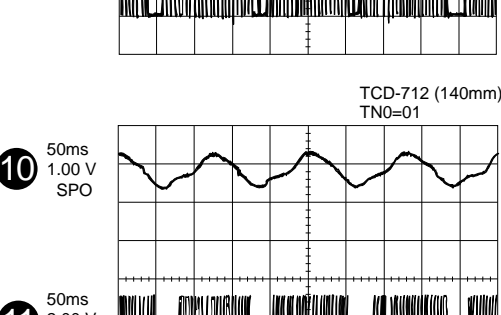
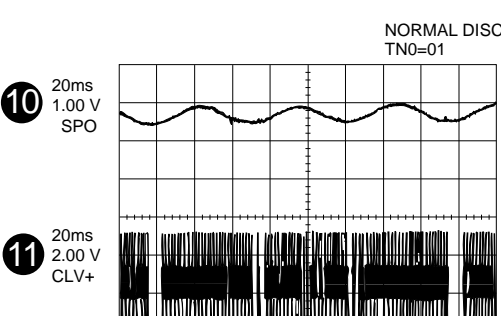
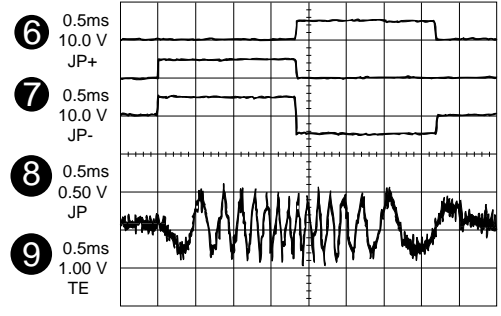


CUE
1
2
3

REVIEW
1
2
3

CUE

REVIEW



NORMAL DISC
TN0=01

TCD-712 (140mm)
TN0=01

TCD-712

PLAY

PLAY

PLAY

1

1

TROUBLESHOOTING

When the CD does not function

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

Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust or 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.

• The CD tray fails to operate.

Check the changer mechanism cam switch (SWB101 to SWB104) and tray switch (SWB105 to SWB108).

Yes

Check whether state changes to Low when
IC201 pin 95 cam SW1
pin 96 cam SW2
pin 97 cam SW3
pin 98 cam SW4
is on.
Check whether state changes to Low when
IC201 pin 33 tray SWA
pin 100 tray SWB
pin 1 tray SWC
pin 2 tray SWB
is on.

No

Check the connection between IC201 and SW.

Yes

Check whether output of pins 3 and 7 of main cam motor driver IC81 is normal.

No

Check the connection from IC2 to IC81.

Yes

Check whether the output of pins 3 and 7 of tray motor driver IC82 is normal.

No

Check the connection from IC2 to IC82.

Yes

Check the motors MOB1 and MOB2.

• 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 IC2 pin 57.

Yes

Check the waveform of SCK, SO (DATA) and SI (COMM).
Check the waveform of IC2 pin 54 (SQOUT), pin 55 (COIN),
and pin 56 (CQCK).

Yes

Check that the pickup is in the PICKUP IN switch position of SW702A.

Yes

If the items mentioned above are OK, check the main microcomputer IC201.

CD-C5H,CP-C5H

• The CD operation keys work.

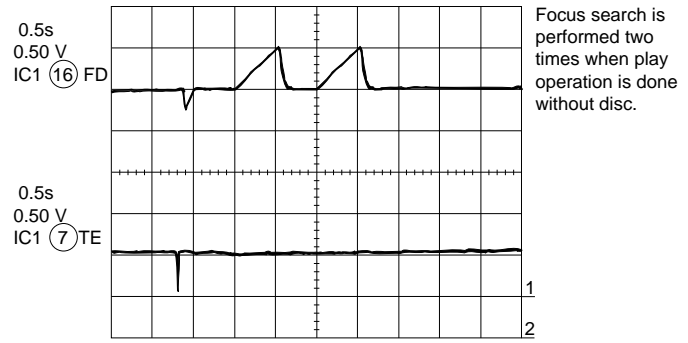
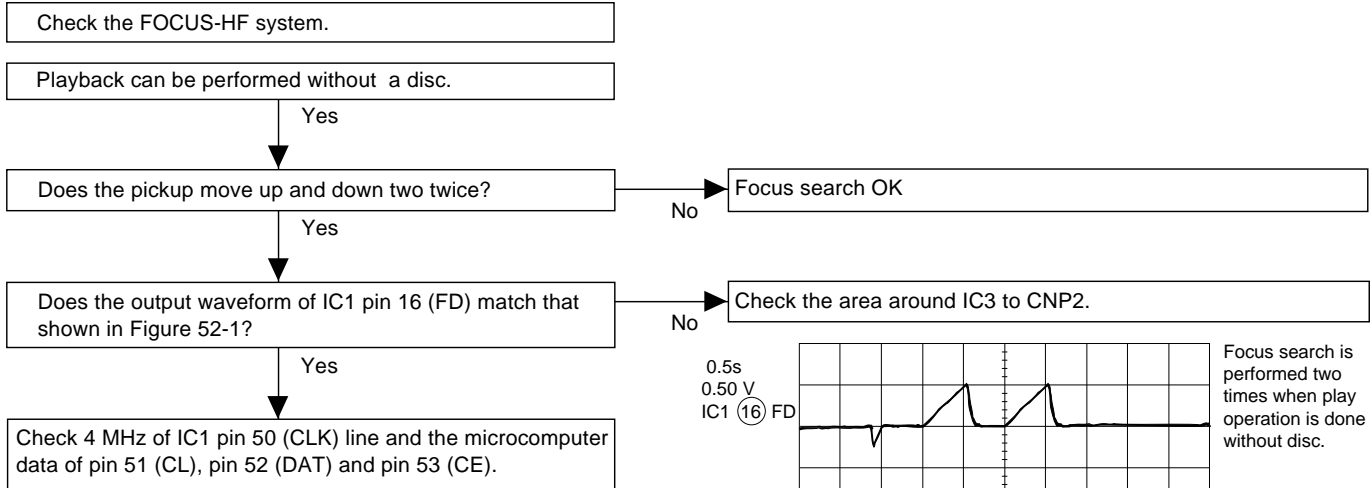
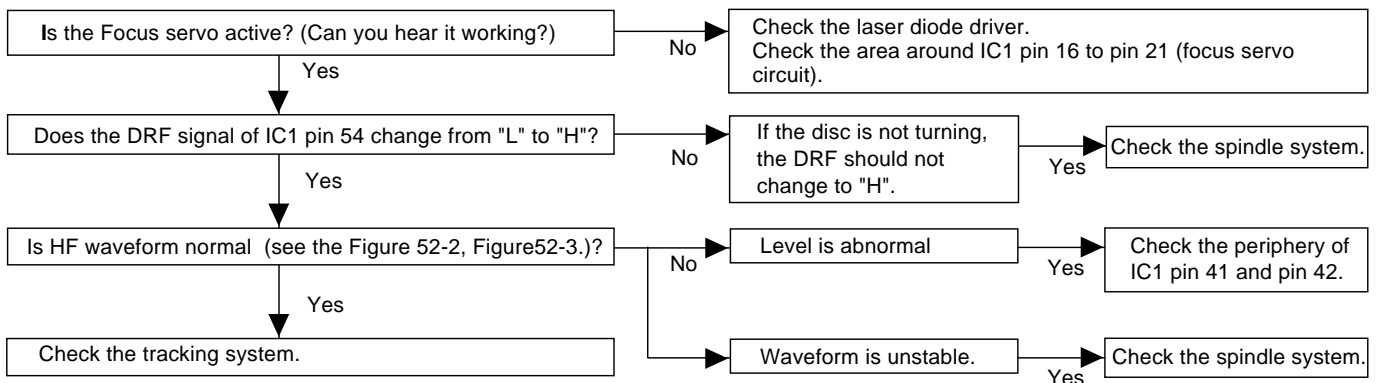


Figure 52-1

• Playback can only be performed when disc is loaded.



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

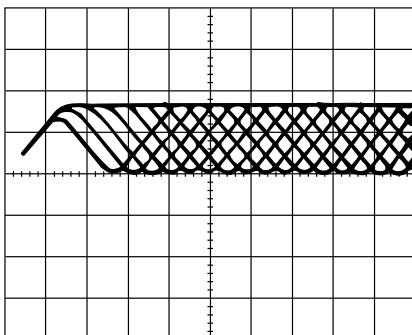


Figure 52-2

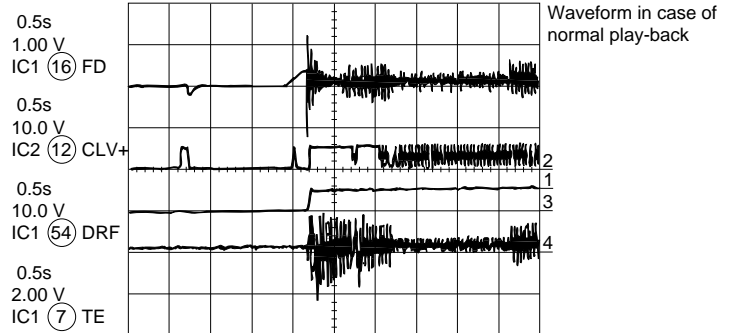


Figure 52-3

• Check the tracking system.

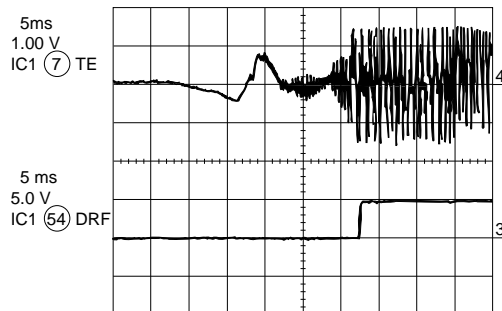
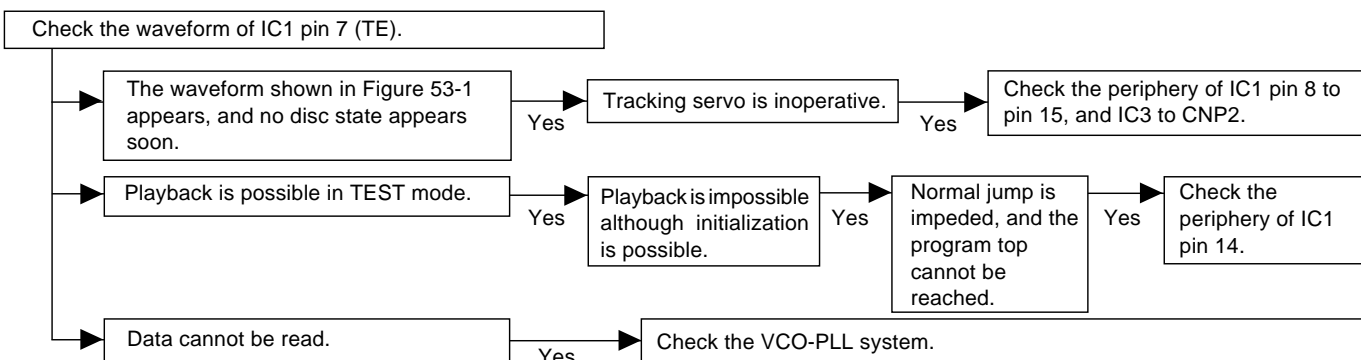
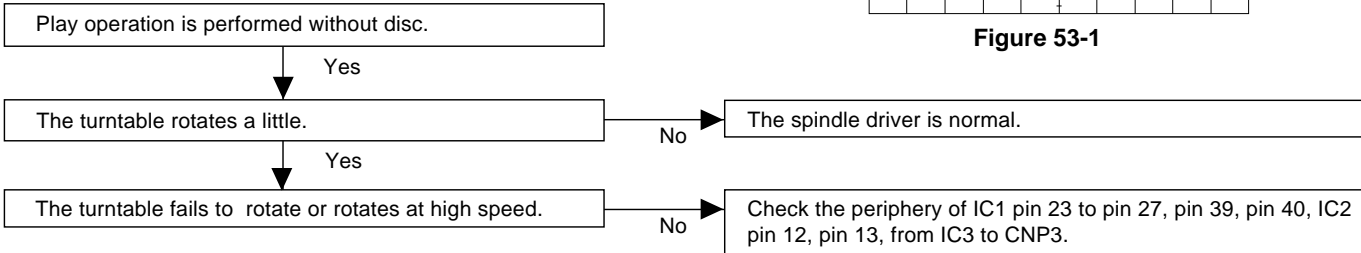


Figure 53-1

• Check the spindle system



• Checking the VCO-PLL system.

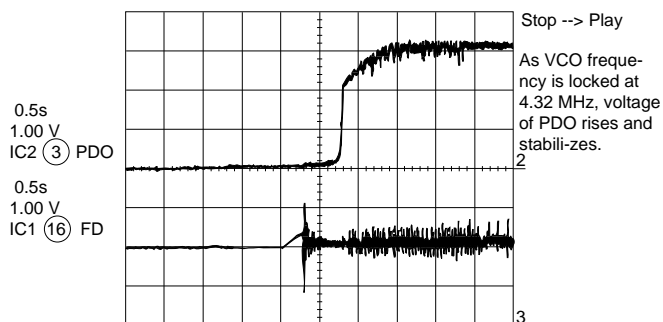
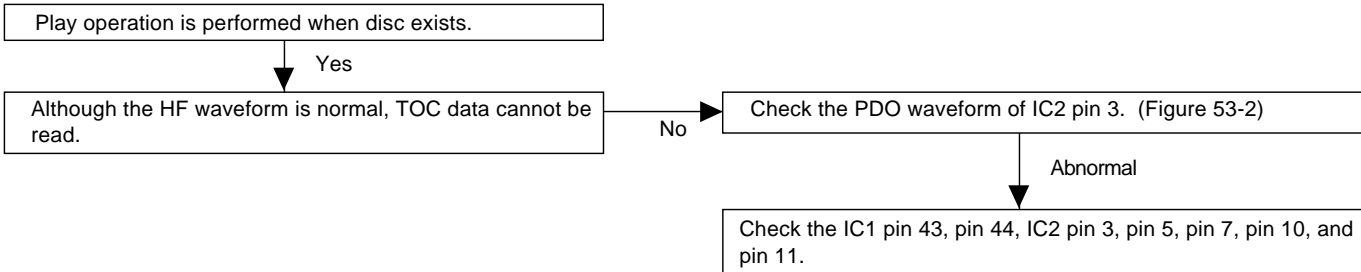
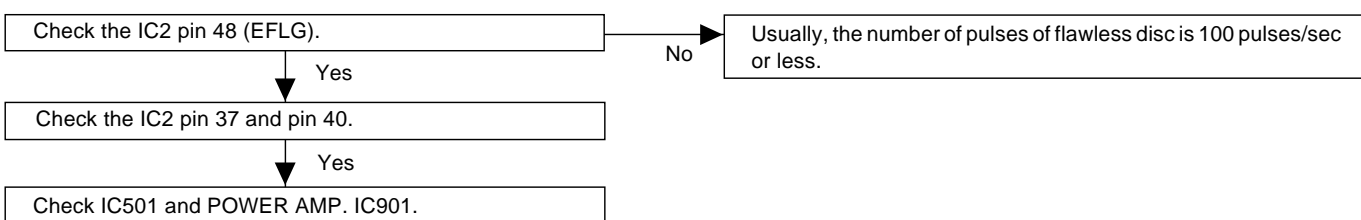


Figure 53-2

• Although HF waveform is normal and time indication is normal, no sound is not output.



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	SP	Single end output for CV+ and CV- pin input.
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	SPO	Spindle control signal output pin.
28	SLEO	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 smoothing 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. (\pm 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	PHI	Pin to connect capacitor for peak hold of RF signal.
61	BHI	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.

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

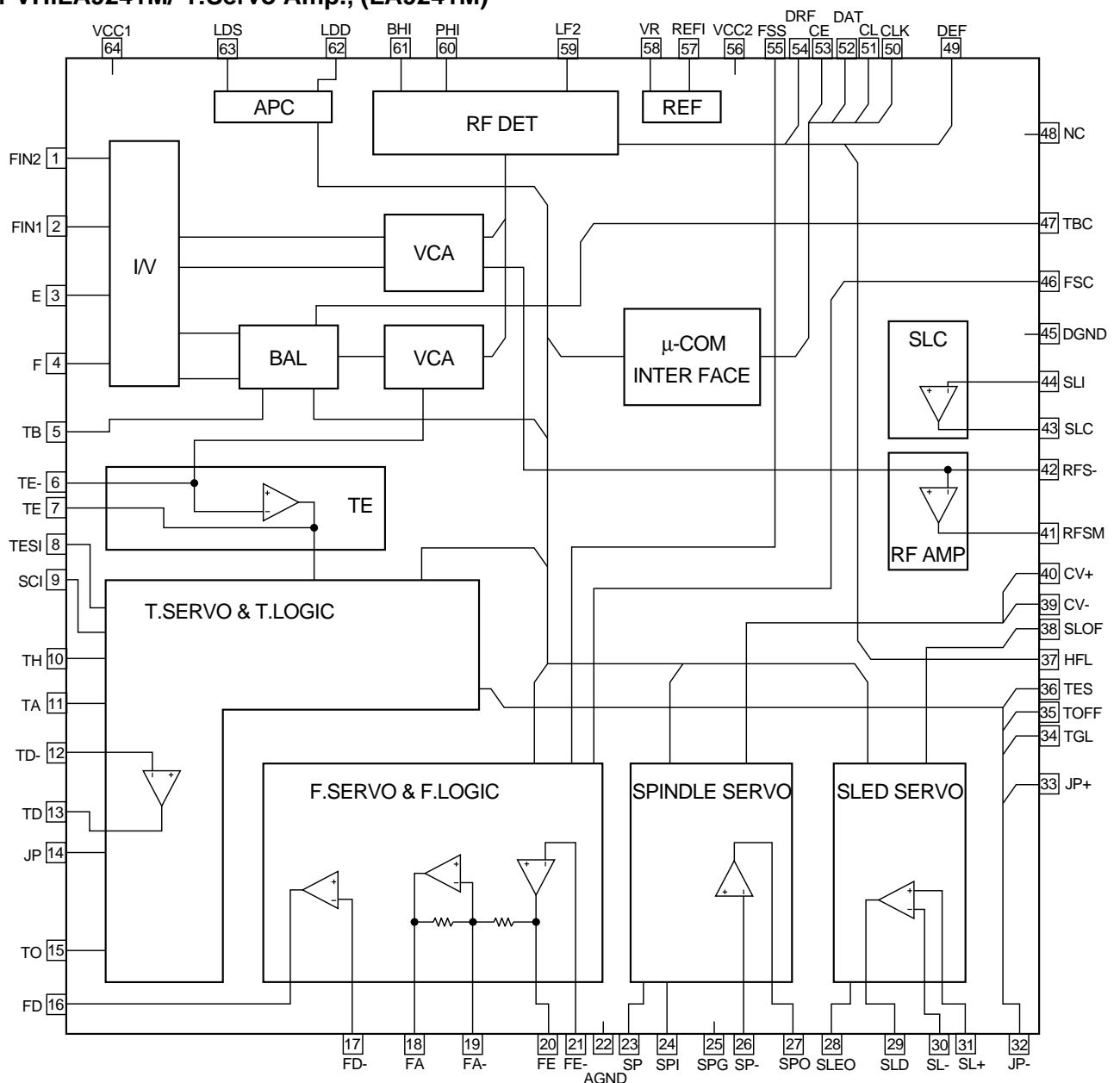


Figure 55 BLOCK DIAGRAM OF IC

CD-C5H,CP-C5H

IC2 VHiLC78622K-1: Servo/Signal Control (LC78622K) (1/2)

Pin No.	Terminal Name	Input/Output	Function	
1	DEFI	Input	Input terminal of defect detection signal (DEF). (Connected to 0V when not used.)	
2	TA1	Input	For PLL	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.
3	PDO	Output		Output terminal of phase comparison for external VCO control.
4	VVSS	—		Ground terminal for integrated VCO. Surely connected to 0V.
5	ISET	Input		Resistance connection terminal for current adjustment of PDO output.
6	VVDD	—		Power terminal for integrated VCO.
7	FR	Input		VCO frequency range adjustment.
8	VSS	—		Ground terminal of digital system. Surely connected 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 is integrated. Surely connected to 0V.	
12	CLV+	Output	Output for disk motor control. 3 values can be output with the commands.	
13	CLV-	Output	Output for disk motor control. 3 values can be output with the commands.	
14	V/P	Output	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.	
15	HFL	Input	Input terminal of track detection signal. Schmit input.	
16	TES	Input	Input terminal of tracking error signal. Schmit input.	
17	TOFF	Output	Tracking OFF output terminal.	
18	TGL	Output	Output terminal for switch of tracking gain "L" increases the gain.	
19	JP+	Output	Output for track jump control. 3 values can be output with the commands.	
20	JP-	Output	Output for track jump control. 3 values can be output with the commands.	
21*	PCK	Output	Clock monitor terminal for EFM data replay. 4,3218MHz as the phase clock.	
22*	FSEQ	Output	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
23	VDD	—	Power terminal of digital system.	
24	CONT1	Output	OPEN direction	
25	CONT2	Output	CLOSE direction	
26	CONT3	Output	Cam motor forward rotation	
27	CONT4	Output	Cam motor reverse rotation	
28	CONT5	Output	Cam motor speed selection High speed "L" Low speed "H"	
29*	EMPH	Output	Difference monitor terminal At "H", deemphasis disk is being replayed.	
30*	C2F	Output	C2 flag output terminal.	
31	DOUT	Output	Output terminal of digital OUTPUT. (EIAJ format)	
32*	TEST3	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.	
33	TEST4	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.	
34	PCCL	—	CD general-use port control signal.	
35*	MUTEL	Output	L channel 1 bit DAC	Mute output terminal for L channel.
36	LVDD	—		Power terminal for L channel.
37	LCHO	Output		L channel output terminal.
38	LVSS	—		Ground terminal for L channel Surely connected to 0V.
39	RVSS	—	R channel 1 bit DAC	Ground terminal for R channel Surely connected to 0V.
40	RCHO	Output		R channel output terminal.
41	RVDD	—		Power terminal for R channel.
42*	MUTER	Output		Mute output terminal for R channel.
43	XVDD	—	Power terminal for quartz oscillation.	
44	XOUT	Output	Ground terminal of 16.9344 MHz quartz oscillator.	
45	XIN	Input	Ground terminal of 16.9344 MHz quartz oscillator.	
46	XVSS	—	Ground terminal for quartz oscillation. Surely connected to 0V.	
47*	SBSY	Output	Output terminal of synchronous signal of subcode block.	
48*	EFLG	Output	Correction monitor terminal of C1, C2, single and double.	

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

IC2 VHiLC78622K-1: Servo/Signal Control (LC78622K) (2/2)

Pin No.	Terminal Name	Input/Output	Function
49*	PW	Output	Output terminal of subcodes P, A, R, S, T, U and W.
50*	SFSY	Output	Output terminal of synchronous signal of subcode frame. It drops when subcode stands by.
51	SBCK	Input	Clock input terminal to read subcode. Schmit input (Connected to 0V when not used.)
52*	FSX	Output	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.
53	WRQ	Output	Output terminal to stand by output of subcode Q.
54	RWC	Input	Input terminal of read/write. Schmit input.
55	SQOUT	Output	Output terminal of subcode Q.
56	COIN	Input	Command input terminal from microcomputer.
57	CQCK	Input	Clock input terminal to fetch command input, or pick up subcode from SQOUT. Schmit input
58	RES	Input	Reset input terminal of LC78622. When turning on power, set it at "L".
59*	TST11	Output	Output terminal for test. Used in the open state ("L" output as ordinary).
60*	16M	Output	Output terminal of 16.9344Hz.
61	4M	Output	Output terminal of 4.2336MHz.
62	TEST5	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.
63	CS	Input	Chip selection input terminal. Pull-down resistor is integrated. Connected to 0when not controlled.
64	TEST1	Input	Input terminal for test Pull-down resistor is integrated. Surely connected 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.

IC2 VHiLC78622K-1: Servo/Signal Control (LC78622K)

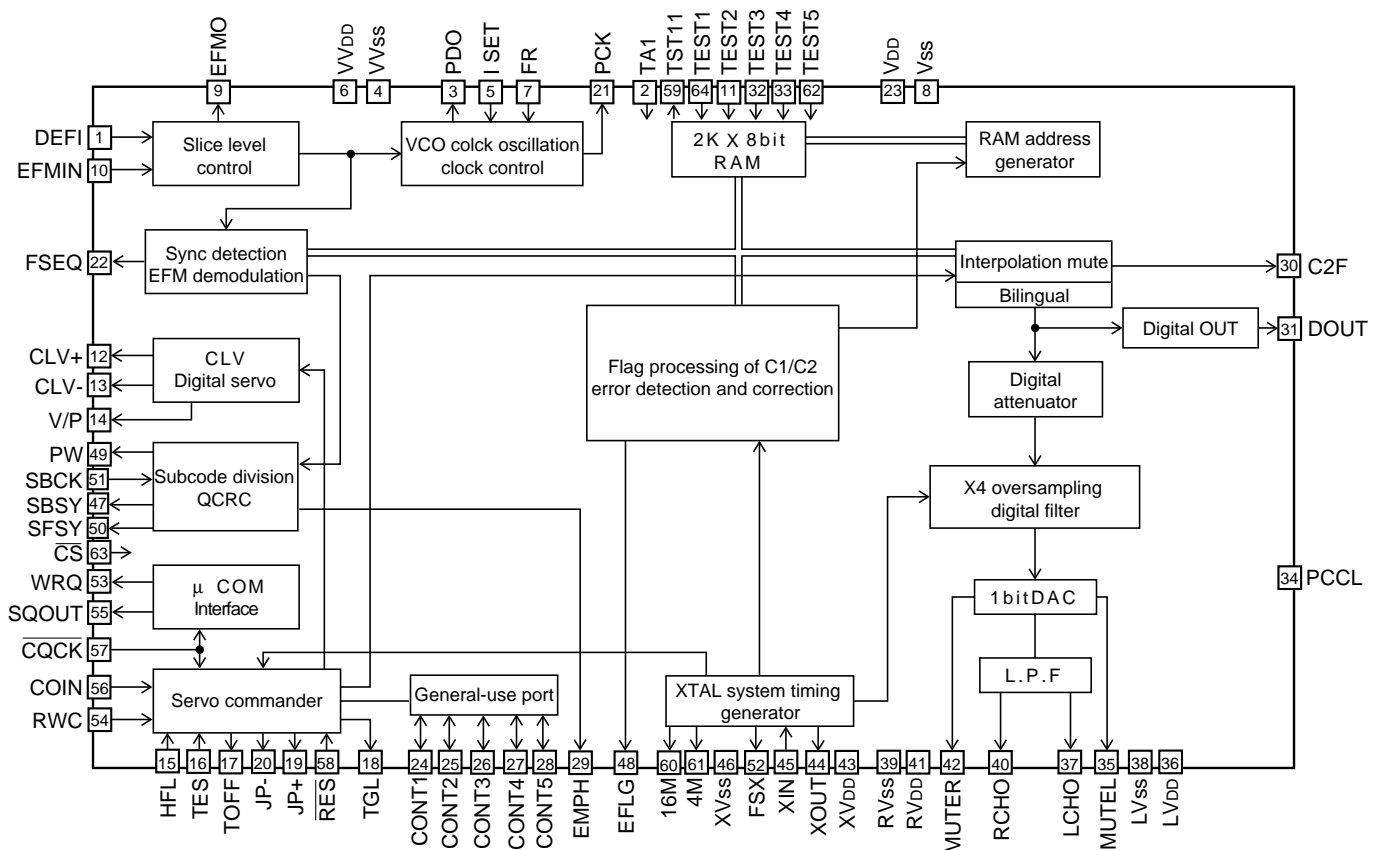


Figure 57 BLOCK DIAGRAM OF IC

CD-C5H,CP-C5H

IC201 RH-iX0210AWZZ: System Microcomputer (IX0210AW)(1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	P06	TRY_SW3	Input	CD Changer mechanism tray position detection switch
2	P07	TRY_SW4	Input	CD Changer mechanism tray position detection switch
3	SO0	COIN	Output	CD command
4	SI0	SQ_OUT	Input	CD Q code data
5	SCK0	CQCK	Output	CD serial clock
6	SO1	COM	Output	DISP microcomputer control line
7	SI1	DAT	Input	DISP microcomputer control line
8	SCK1	SCK	Output	DISP microcomputer control line
9	P16	STB	Output	DISP microcomputer control line
10	P17	DISP_RES	Output	DISP microcomputer control line
11	INT0	WRQ	Input	CD WRQ input
12	RES	RES	Input	Reset input
13	P74	DRF	Input	CD DRF input
14	P75	PU-IN SW	Input	CD PU-IN switch input
15	VSS1	VSS	—	Ground terminal
16	CF1	CF1	Input	Main clock 4.194304 MHz
17	CF2	CF2	Input	Main clock 4.194304 MHz
18	VDD1	VDD	—	Positive power supply
19	AN0	SP_63 Hz	Input	Input for spectrum analyzer 63 Hz
20	AN1	SP_250 Hz	Input	Input for spectrum analyzer 250 Hz
21	AN2	SP_1 kHz	Input	Input for spectrum analyzer 1 kHz
22	AN3	SP_4 kHz	Input	Input for spectrum analyzer 4 kHz
23	AN4	SP_16 KHZ	Input	Input for spectrum analyzer 16 KHz
24	AN5	POSISTOR	Input	Input for temperature detection
25	AN6	TUNER_SM	Input	For tuner input detection
26	AN7	SP_DET	Input	For speaker output detection
27	INT1	SYS_STOP	Input	Power failure detection input → HOLD mode
28	INT2	SP PROTECT	Input	Speaker overcurrent detection input → PROTECT mode
29	INT3	INT3	Input	For outside break-in terminal
30	PA0	T2_B-FP SW	Input	Tape B-FP switch
31	PA1	T2_A-FP SW	Input	Tape A-FP switch
32	PA2	T2_CROM SW	Input	Tape T2 CrO ₂ switch
33	PA3	T1_CROM SW	Input	Tape T1 CrO ₂ switch
34	PA4	T2_RUN	Input	Tape T2 RUN pulse
35	PA5	T2_PLAY SW	Input	Tape T2 PLAY switch
36	PA6	VOL SW	Output	Voltage selection hold
37	PA7	MOTOR	Output	Tape motor output
38	PB0	T2_SOL	Output	For tape T2 solenoid drive
39	PB1	T1_SOL	Output	For tape T1 solenoid drive
40	PB2	T1_RUN	Input	Tape T1 RUN pulse
41	PB3	T1_PLAY SW	Input	Tape T1 PLAY switch
42	PB4	HI_SPEED	Output	Tape HIGH SPEED state "L" → "H"
43	PB5	TA_BIAS	Output	Tape REC BIAS OSC
44	PB6	BEET_CANCEL	Output	Tape BIAS frequency selection; Usually "L"
45	PB7	TA_R/P	Output	Tape PB/REC signal selection
46	PC0	TA_PB-EQ	Output	Tape playback side tape Equalizer selection NOR/CrO ₂
47	PC1	REC-EQ	Output	Tape record Amp Equalizer selection signal NOR/CrO ₂
48	PC2	REC_MUT	Output	Tape record muting output
49	PC3	TA_T1/T2	Output	Tape T1 = "H" T2 = "L"
50	PC4	—	Output	Not used
51	PC5	DOLBY-ON/OFF	Output	DOLBY mode control ON : H OFF : L
52	PC6	DOLBY-PB/REC	Output	DOLBY playback/record selection output RECORD : H PLAYBACK : L

IC201 RH-iX0210AWZZ: System Microcomputer (IX0210AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
53	PC7	PB_MUT	Output	Tape playback muting output
54	PD0	SP_RELAY	Output	For speaker relay drive
55	PD1	FUN_MOTOR	Output	For fan motor drive
56	VDD2	VDD	—	Positive power supply
57	VSS2	VSS	—	Ground terminal
58	PD2	TUNER_MUT	Output	Tuner muting output
59	PD3	SRS_PASS	Output	SRS control output PASS : H Others : L
60	PD4	SRS_3D/MONO	Output	SRS control output MONO : H Others : L
61	PD5	SRS_A	Output	SRS control output SRS 1, 4, 5 : H Others : L
62	PD6	SRS_B	Output	SRS control output SRS 2, 3, 5 : H Others : L
63	PD7	SRS_INH	Output	SRS control output SRS 3, 4, 5 : H Others : L
64	PE0	Q_A	Output	Q-SOUND control PASS mode : H Others : L
65	PE1	Q_B	Output	Q-SOUND control Q-Sound PASS mode : H Others : L
66	PE2	SPRED	Output	Q-SOUND control ENHANCDE mode : H Others : L
67	PE3	PL_ENA	Output	DOLBY PROLOGIC LV1035M control
68	PE4	C2B_CE	Output	Tuner/preamplifier C2B serial control input/output control output
69	PE5	C2B_CL	Output	Tuner/preamplifier C2B serial control clock output
70	PE6	TUN_SD	Input	Tuner signal detection input signal found : L
71	PE7	C2B_DI	Input	Tuner /preamplifier C2B serial control data input
72	PF0	C2B_DO	Output	Tuner /preamplifier C2B serial control data output
73	PF1	VOICE-CANCEL	Output	Karaoke function. "H": ON
74	PF2	LINE_MUT	Output	LINE out MUT signal
75	PF3	SYS_MUT	Output	Front Amp MUT signal
76	PF4	REAR_MUT	Output	Rear Amp MUT signal
77	PF5	CENTER_MUT	Output	Center Amp MUT signal
78	PF6	SWFE_MUT	Output	Super woofer Amp MUT signal
79	PF7	POWER	Output	Set power control, ON "H", "OFF"L"
80	PL6	9K/10K	Input	Span selection 9K "H" 10K "L"
81	PL5	MIC_DET	Input	MIC existence/nonexistence detection. Existence "L", Nonexistenece "H"
82	PL4	TUN_ST	Input	Ground connection by resistor
83	PL0	H/P SW	Input	H. P existence/nonexistence detection
84	PL1	AUT_SCAN	Input	Tuner AUT SCAN function provided/not provided
85	PL2	SRS_A/NA	Input	SURROUND SRS/Q-SOUND selection
86	PL3	DOL_A/NA	Input	Dolby Pro function provided/not provided
87	P30	CD_MUTE	Output	CD output MUT signal
88	P31	PCCL	Output	CD general-use port control signal
89	VSS3	VSS	—	Ground terminal
90	VDD3	VDD	—	Positivo power supply
91	P32	RES	Output	CD DSP RES signal
92	P33	SL-	Output	CD Sled motor -signal
93	P34	SL+	Output	CD Sled motor +signal
94	P35	RWC	Output	CD RWC
95	P00	CAM_SW1	Input	CD Changer mechanism cam detection switch
96	P01	CAM_SW2	Input	CD Changer mechanism cam detection switch
97	P02	CAM_SW3	Input	CD Changer mechanism cam detection switch
98	P03	CAM_SW4	Input	CD Changer mechanism cam detection switch
99	P04	TRY_SW1	Input	CD Chenger mechanism tray position detection switch
100	P05	TRY_SW2	Input	CD Chenger mechanism tray position detection switch

CD-C5H,CP-C5H

IC501 VHiLC75396N-1: Audio Processor (LC75396N)

Pin No.	Terminal Name	Function
1-3	RF1C1-RF1C3	Terminal to connect capacitor of filter configuration for equalizer F1 band Connect the capacitor between LF1C1(RF1C1) and LF1C2(RF1C2) between LF1C2 (RF1C2) and LF1C3(RF1C3).
4-6	RF2C1-RF2C3	Terminal to connect capacitor of filter configuration for equalizer F2 band Connect the capacitor between LF2C1(RF2C1) and LF2C2(RF2C2) between LF2C2 (RF2C2) and LF2C3(RF2C3).
7-9	RF3C1-RF3C3	Terminal to connect capacitor of filter configuration for equalizer F3 band Connect the capacitor between LF3C1(RF3C1) and LF3C2(RF3C2) between LF3C2 (RF3C2) and LF3C3(RF3C3).
10-12	RF4C1-RF4C3	Terminal to connect capacitor of filter configuration for equalizer F4 band Connect the capacitor between LF4C1(RF4C1) and LF4C2(RF4C2) between LF4C2 (RF4C2) and LF4C3(RF4C3).
13	RF5	Terminal to connect capacitor of filter configuration for equalizer F5 band Terminal to connect the externally provided capacitor
14	RTOUT	Equalizer output terminal
15	RFIN	Input terminal of R-ch front side 4dB step control
16	RFCOM	Common terminal of R-ch front side 1dB step control
17	RFOUT	Output terminal of R-ch front side control
18	RRIN	Input terminal of R-ch rear side 4dB step control
19	RRCOM	Common terminal of R-ch rear side 1dB step control
20	RROUT	Output terminal of R-ch rear side control
21	RVREF	Internal analog ground terminal
22	VREF	Connect the capacitor of about several 10 uF between Vref and AVSS (VSS) so as to prevent power supply ripple in the VDD/2 voltage generating section.
23	CL	Terminal to input serial data and clock for control
24	DI	Terminal to input serial data and clock for control
25	CE	Chip enable terminal. Data is written in the internal latch with a timing of changing H to L, and the specific analog switch is actuated. Data transfer is enabled on the H level.
26	VSS	GND
27	LVREF	Internal analog ground terminal
28	LROUT	Output terminal of L-ch rear side control
29	LRCOM	Common terminal of L-ch rear side 1dB step control
30	LRIN	Input terminal of L-ch rear side 4dB step control
31	LFOUT	Output terminal of L-ch front side control
32	LFCOM	Common terminal of L-ch front side 1dB step control
33	LFIN	Input terminal of L-ch front side 4dB step control
34	LTOUT	Equalizer output terminal
35	LF5	Terminal to connect capacitor of filter configuration for equalizer F5 band Terminal to connect the externally provided capacitor
36-38	LF4C3-LF4C1	Terminal to connect capacitor of filter configuration for equalizer F4 band Connect the capacitor between LF4C1(RF4C1) and LF4C2(RF4C2) between LF4C2 (RF4C2) and LF4C3(RF4C3).
39-41	LF3C3-LF3C1	Terminal to connect capacitor of filter configuration for equalizer F3 band Connect the capacitor between LF3C1(RF3C1) and LF3C2(RF3C2) between LF3C2 (RF3C2) and LF3C3(RF3C3).
42-44	LF2C3-LF2C1	Terminal to connect capacitor of filter configuration for equalizer F2 band Connect the capacitor between LF2C1(RF2C1) and LF2C2(RF2C2) between LF2C2 (RF2C2) and LF2C3(RF2C3).
45-47	LF1C3-LF1C1	Terminal to connect capacitor of filter configuration for equalizer F1 band Connect the capacitor between LF1C1(RF1C1) and LF1C2(RF1C2) between LF1C2 (RF1C2) and LF1C3(RF1C3).
48	LTIN	Equalizer input terminal
49	LSELO	Input selector output terminal
50	LINVIN1	Operational amplifier reverse input terminal for input gain setting
51-55	L5-L1	Input signal terminal
56	VDD	Power terminal
57-61	R1-R5	Input signal terminal
62	RINVIN1	Operational amplifier reverse input terminal for input gain setting
63	RSERO	Input selector output terminal
64	RTIN	Equalizer input terminal

IC701 RH-iX0209AWZZ: FL Driver & Controller (IX0209AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	P16/BUZZ	DIP_STB	Input	Serial strobe input for system microcomputer
2	P17/PWM0	NC	Output	NC
3	P30	LED17	Output	LED output H Lights : R-PLAY ◀
4	P31	LED18	Output	LED output H Lights : PAUSE
5	P32	LED19	Output	LED output H Lights : DISC1
6	P33	LED20	Output	LED output H Lights : DISC2
7	P34	LED21	Output	LED output H Lights : DISC3
8	P35	LED22	Output	LED output H Lights : # (SHARP)
9	P36	LED23	Output	LED output H Lights : NATURAL
10	P37	LED24	Output	LED output H Lights : b (FLAT)
11	P70/INT0	FL_SET	Input	FL initial setting input
12	RES	DIP_RES	Input	Reset input
13	XT1/P74	VOL_UP	Input	Volume jog input UP
14	XT2/P75	VOL_DOW	Input	Volume jog input DOWN
15	Vss1	Vss	—	GND
16	CF1	CF_IN	Input	Main clock ceramic 4.19 MHz
17	CF2	CF_OUT	Output	Main clock ceramic 4.19 MHz
18	Vdd1	Vdd	—	Normal power supply
19	P80/AN0	DEST	Input	Initial setting input
20	P81/AN1	AU_SET	Input	Audio operation setting input
21	P82/AN2	KEY1	Input	Button input 0 to 9
22	P83/AN3	KEY2	Input	Button input 10 to 18
23	P84/AN4	KEY3	Input	Button input 19 to 27
24	P85/AN5	KEY4	Input	Button input 28 to 36
25	P86/AN6	KEY5	Input	Button input 37 to 45
26	P87/AN7	KEY6	Input	Button input 46 to 54
27	P71/INT1	MAL_UP	Input	Multi button jog input UP
28	P72/INT2/TOIN	MAL_DOW	Input	Multi button jog input DOWN
29	P73/INT3/TOIN	REM_IN	Input	Remote controller input
30	S0/T0	G15	Output	Display tube grid drive
31	S1/T1	G14	Output	Display tube grid drive
32	S2/T2	G13	Output	Display tube grid drive
33	S3/T3	G12	Output	Display tube grid drive
34	S4/T4	G12	Output	Display tube grid drive
35	S5/T5	G11	Output	Display tube grid drive
36	S6/T6	G10	Output	Display tube grid drive
37	S7/T7	G9	Output	Display tube grid drive
38	S8/T8	G8	Output	Display tube grid drive
39	S9/T9	G7	Output	Display tube grid drive
40	S10/T10	G6	Output	Display tube grid drive
41	S11/T11	G5	Output	Display tube grid drive
42	S12/T12	G4	Output	Display tube grid drive
43	S13/T13	G3	Output	Display tube grid drive
44	S14/T14	G2	Output	Display tube grid drive
45	S15/T15	G1	Output	Display tube grid drive
46	Vdd3	Vdd-F	—	Normal power supply for display tube drive
47	S16/PC0	S27	Output	Display tube segment drive
48	S17/PC1	S26	Output	Display tube segment drive
49	S18/PC2	S25	Outout	Display tube segment drive
50	S19/PC3	S24	Output	Display tube segment drive
51	VP	VP	—	Negative power supply -30 V for display tube drive

CD-C5H,CP-C5H

IC701 RH-iX0209AWZZ: FL Driver & Controller (IX0209AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
52	S20/PC4	S23	Output	Display tube segment drive
53	S21/PC5	S22	Output	Display tube segment drive
54	S22/PC6	S21	Output	Display tube segment drive
55	S23/PC7	S20	Output	Display tube segment drive
56	S24/PD0	S19	Output	Display tube segment drive
57	S25/PD1	S18	Output	Display tube segment drive
58	S26/PD2	S17	Output	Display tube segment drive
59	S27/PD3	S16	Output	Display tube segment drive
60	S28/PD4	S15	Output	Display tube segment drive
61	S29/PD5	S14	Output	Display tube segment drive
62	S30/PD6	S13	Output	Display tube segment drive
63	S31/PD7	S12	Output	Display tube segment drive
64	S32/PE0	S11	Output	Display tube segment drive
65	S33/PE1	S10	Output	Display tube segment drive
66	S34/PE2	S9	Output	Display tube segment drive
67	S35/PE3	S8	Output	Display tube segment drive
68	S36/PE4	S7	Output	Display tube segment drive
69	S37/PE5	S6	Output	Display tube segment drive
70	S38/PE6	S5	Output	Display tube segment drive
71	S39/PE7	S4	Output	Display tube segment drive
72	Vdd4	Vdd-F	—	Normal proper supply for display tube drive
73	S40/PF0	S3	Output	Display tube segment drive
74	S41/PF1	S2	Output	Display tube segment drive
75	S42/PF2	S1	Output	Display tube segment drive
76	S43/PF3	—	Output	NC
77	S44/PF4	LED1	Output	LED output H Lights : Not defined
78	S45/PF5	LED2	Output	LED output H Lights : Not defined
79	S46/PF6	LED3	Output	LED output H Lights : F-PLAY ▶
80	S47/PF7	LED4	Output	LED output H Lights : STOP ■
81	S48/PG0	LED5	Output	LED output H Lights : FF ▶▶
82	S49/PG1	LED6	Output	LED output H Lights : REW ◀◀
83	S50/PG2	LED7	Output	LED output H Lights : SRS-G
84	S51/PG3	LED8	Output	LED output H Lights : SRS-R
85	P00	LED9	Output	LED output H Lights : VIRTUAL-G
86	P01	LED10	Output	LED output H Lights : VIRTUAL-R
87	P02	LED11	Output	LED output H Lights : PHANTOM-G
88	P03	LED12	Output	LED output H Lights : PHANTOM-R
89	Vss2	Vss	—	GND
90	Vdd2	Vdd	—	Normal power supply
91	P04	LED13	Output	LED output H Lights : NORMAL-G
92	P05	LED14	Output	LED output H Lights : NORMAL-R
93	P06	LED15	Output	LED output H Lights : STEREO-G
94	P07	LED16	Output	LED output H Lights : STEREO-R
95	P10/S00	DIP_KET	Output	Serial data output for system microcomputer
96	P11/S10/SB0	DIP_DAT	Input	Serial data input for system microcomputer
97	P12/SKC0	DIP_SCK	Input	Serial clock input for system microcomputer
98	P13/S01	NC	Output	NC
99	P14/S11/SB1	NC	Output	NC
100	P15/CK1	NC	Output	NC

ICS02 VHiQS7777PF-1: Q-SOUND Decoder (QS7777PF)

Pin No.	Terminal Name	Input/Output	Function
1	VREFOUT	Output	Buffered reference voltage output ($V_{cc}/2$)
2	VREFIN	Input	Reference voltage input (Biased to $V_{cc}/2$ internally)
3	MSC3	Input	Capacitor
4	MSC2	Input	Capacitor
5	MSC1	Input	Capacitor
6	GND	—	Ground
7 (Parallel)	PSAVE	Input	Power save control (H: power save on, L: power save off)
7 (Serial)	STRB	Input	Serial data strobe (Not applicable to I ² C of QS7777CF)
8 (Parallel)	MUTE	Input	Output mute control (H: mute on, L: mute off)
8 (Serial)	SCL	Input	Serial data shift clock
9 (Parallel)	SPREAD	Input	Enhancement control (H: spread maximum, L: spread minimum)
9 (Serial)	SDA	Input/Output	Serial data input. ACK data output for I ² C (QS7777CF)
10 (Parallel)	AC	Input	Center speaker control (H: actual center, L: virtual center)
11 (Parallel)	AR	Input	Rear speaker control (H: actual rear, L: virtual rear)
12 (Parallel)	MO	Input	Monaural to virtual stereo control (H: on, L: off)
13 (Parallel)	BYP	Input	Bypass control (H: Bypass On, L: Q Surround process On)
14	P/S	Input	Interface mode control (H: parallel I/O, L: serial I/O)
15	VDD	—	Digital power supply
16	RROUT	Output	Rear right speaker signal out
17*	RLOUT	Output	Rear left speaker signal out
18	COUT	Output	Center speaker signal out
19	FROUT	Output	Front right speaker out
20	FLOUT	Output	Front left speaker out
21	QXAC1	Input	Capacitor
22	QXAC2	Input	Capacitor
23	QXAC3	Input	Capacitor
24	QXAC4	Input	Capacitor
25	QXAC5	Input	Capacitor
26	QXBC1	Input	Capacitor
27	QXBC2	Input	Capacitor
28	QXBC3	Input	Capacitor
29	QXBC4	Input	Capacitor
30	QXBC5	Input	Capacitor
31	VCC	—	Analog power supply
32	QXCC1	Input	Capacitor
33	QXCC2	Input	Capacitor
34	QXCC3	Input	Capacitor
35	QXCC4	Input	Capacitor
36	QXDC1	Input	Capacitor
37	QXDC2	Input	Capacitor
38	QXDC3	Input	Capacitor
39	QXDC4	Input	Capacitor
40	FLIN	Input	Front left signal input
41	FRIN	Input	Front right signal input
42	CIN	Input	Center signal input
43*	SUBIN	Input	Sub Woofer signal input
44	RLIN	Input	Rear left signal input
45	RRIN	Input	Rear right signal input
46	MSC4	Input	Capacitor
47	MSC5	Input	Capacitor
48	MSC6	Input	Capacitor

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

CD-C5H,CP-C5H

ICS01 VHiLV1035M/-1:Dolby Pro Logic Decoder (LV1035M)

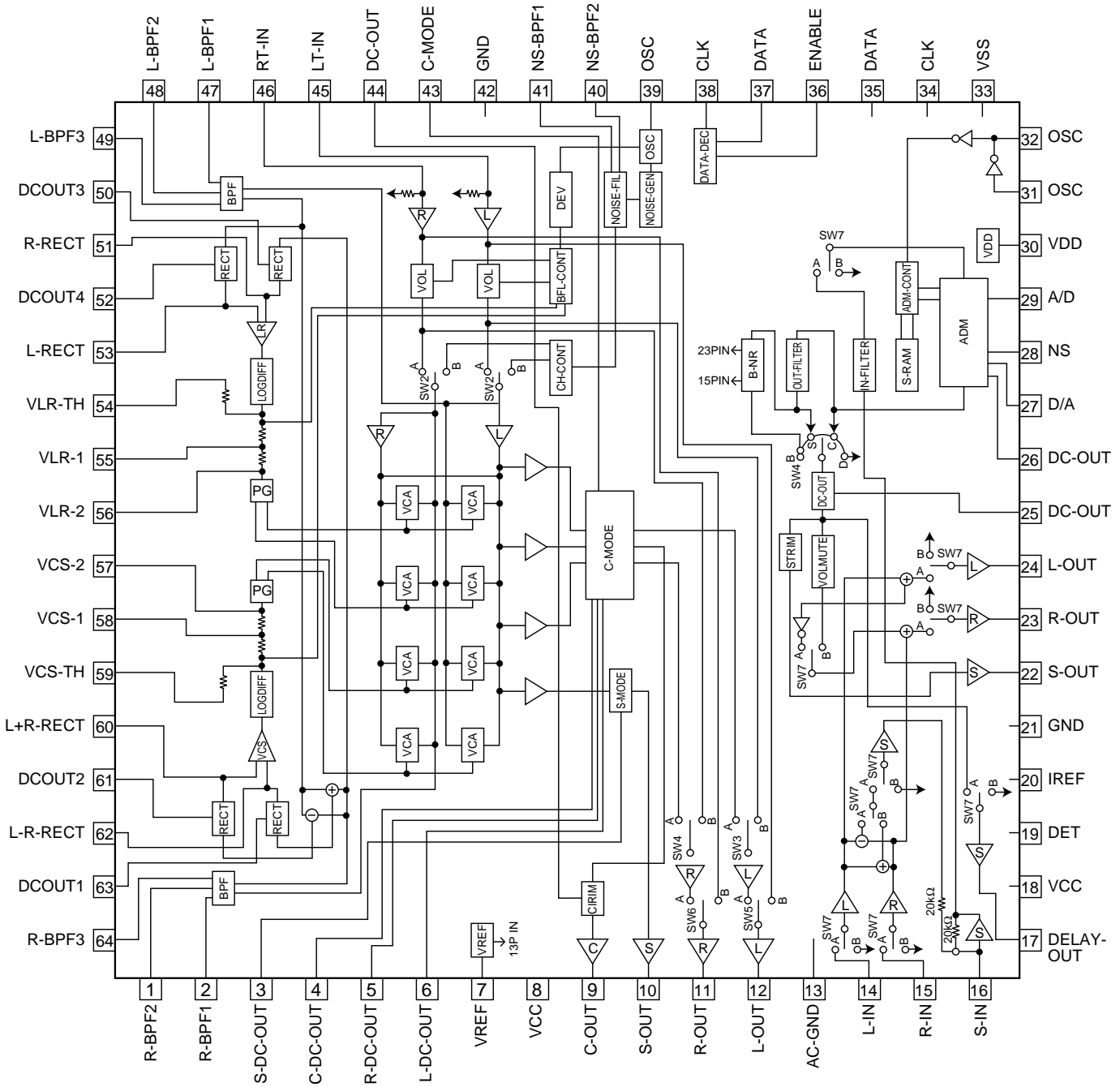


Figure 64 BLOCK DIAGRAM OF ICS

ICT21 VHiLC72720/-1: RDS Microcomputer (LC72720)

Pin No.	Terminal Name	Input/Output	Function
1	VREF	Output	Reference voltage output (Vdda/2)
2	MPXIN	Input	Base band (multiplex) signal input
3	VDDA	—	Analog system power supply (+5V)
4	VSSA	—	Analog system ground
5	FLOUT	Output	Sub-carrier input (comparator input)
6	CIN	Input	Sub-carrier output (filter output)
7	T1	Input	Test input (to be always connected to ground)
8	T2	Input	Test input (standby control) 0: Normal operation/1: Standby state (crystal oscillation stop)
9*	T3 (RDCL)	Input/Output	Test I/O (RDS clock output)
10*	T4 (RDDA)	Input/Output	Test I/O (RDS data output)
11 *	T5 (RSFT)	Input/Output	Test I/O (Soft judgment control data output)
12	XOUT	Output	Crystal oscillation output
13	XIN	Input	Crystal oscillation input (external reference signal input)
14	VDDD	—	Digital system power supply
15	VSSD	—	Digital system ground
16*	T6 (ERROR/57K/BE1)	Input/Output	Test I/O (Error existence/nonexistence output/playback carrier output/error block number output)
17*	T7 (CORREC/ARI-ID/BE0)	Input/Output	Test I/O (Error existence/nonexistence output/SK detection output/error block number output)
18*	SYNC	Input/Output	Block sync detection output
19*	RDS-ID	Output	RDS detection output
20	DO	Output	Data output
21	CL	Input	Clock input
22	DI	Input	Data input
23	CE	Input	Chip enable
24	SYR	Input	Sync and RAM address reset (positive logic)

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

ICT21 VHiLC72720/-1: RDS Microcomputer (LC72720)

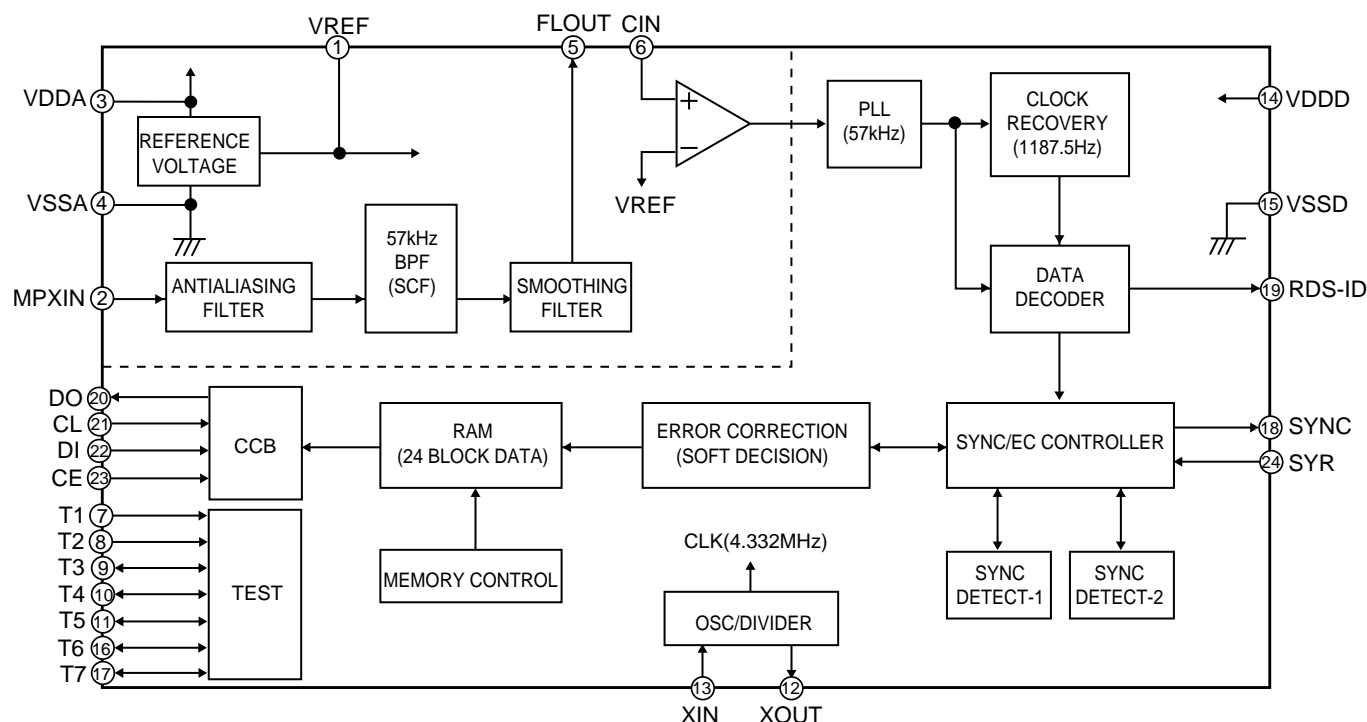
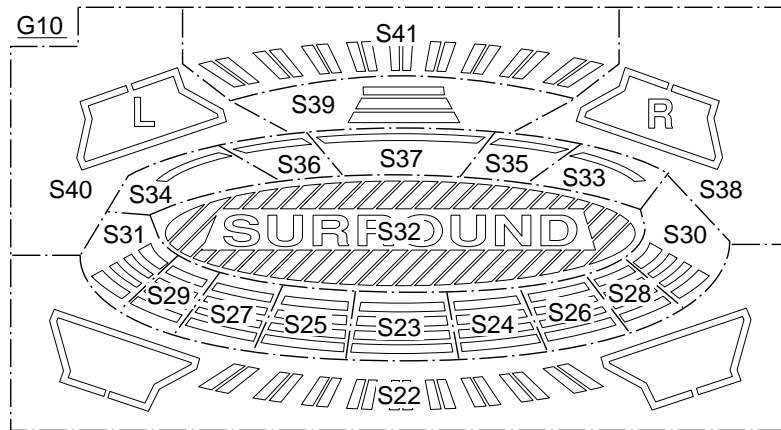
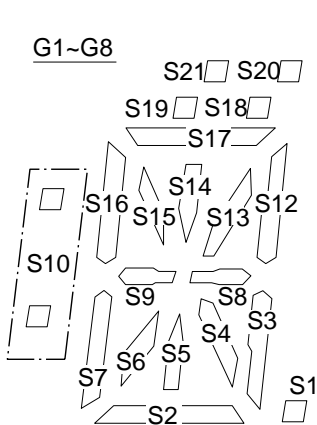
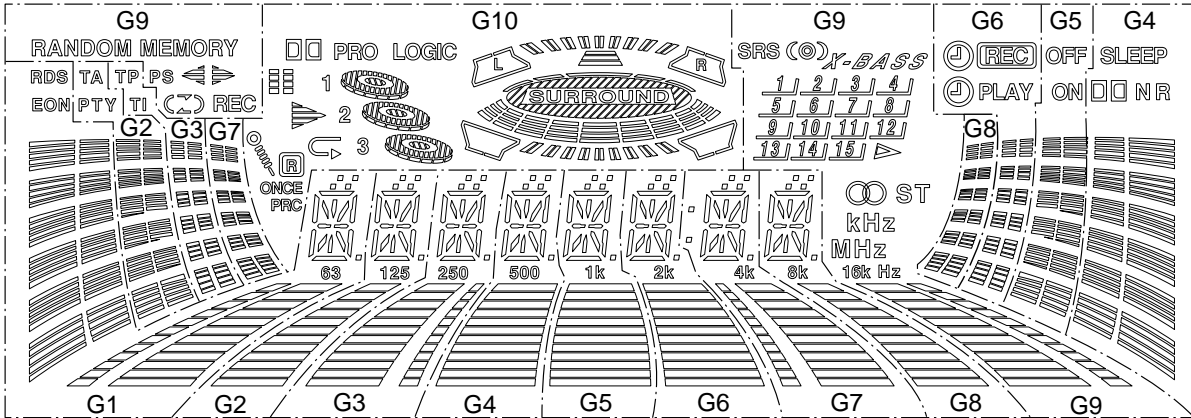


Figure 65 BLOCK DIAGRAM OF IC

CD-C5H,CP-C5H

FL701 VVKCK1627M/-1



	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10		G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	
S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0		S21	S21	S21	S21	S21	S21	S21	S21	S21	ST	S21
S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	☺	PBC	S22	S22	S22	S22	S22	S22	S22	S22	S22	5	S22
S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	⏸	ONCE	S23	S23	S23	S23	S23	S23	S23	S23	S23	▶	S23
S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	⏪		S24	S24	S24	S24	S24	S24	S24	S24	S24	15	S24
S4	S4	S4	S4	S4	S4	S4	S4	S4	S4	REC	☑	S25	S25	S25	S25	S25	S25	S25	S25	S25	14	S25
S5	S5	S5	S5	S5	S5	S5	S5	S5	S5	PS	⏪	S26	S26	S26	S26	S26	S26	S26	S26	S26	13	S26
S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	◀	☐	S27	S27	S27	S27	S27	S27	S27	S27	S27	12	S27
S7	S7	S7	S7	S7	S7	S7	S7	S7	S7	▶	▶	S28	S28	S28	S28	S28	S28	S28	S28	S28	11	S28
S8	S8	S8	S8	S8	S8	S8	S8	S8	S8	MEMORY	1	S29	S29	S29	S29	S29	S29	S29	S29	S29	10	S29
S9	S9	S9	S9	S9	S9	S9	S9	S9	S9	RANDOM	2	S30	S30	S30	S30	S30	S30	S30	S30	S30	9	S30
S10	EON	PTY	TI	☐	NR	ON	⊙	PLAY	S10			S31	S31	S31	S31	S31	S31	S31	S31	S31	8	S31
S11	RDS	TA	TP	SLEEP	OFF	⊙	REC					S32	S32	S32	S32	S32	S32	S32	S32	S32	7	S32
S12	S12	S12	S12	S12	S12	S12	S12	S12	S12	☺	(1) ◦	S33	S33	S33	S33	S33	S33	S33	S33	S33	6	S33
S13	S13	S13	S13	S13	S13	S13	S13	S13	S13	X-BASS	(1) ◯	S34	S34	S34	S34	S34	S34	S34	S34	S34	S34	S34
S14	S14	S14	S14	S14	S14	S14	S14	S14	S14	1	(1) ◯	S35	S35	S35	S35	S35	S35	S35	S35	S35	S35	S35
S15	S15	S15	S15	S15	S15	S15	S15	S15	S15	2	(2) ◯	S36	S36	S36	S36	S36	S36	S36	S36	S36	S36	S36
S16	S16	S16	S16	S16	S16	S16	S16	S16	S16	3	(2) ◯	S37	S37	S37	S37	S37	S37	S37	S37	S37	S37	S37
S17	S17	S17	S17	S17	S17	S17	S17	S17	S17	4	(2) ◯	S38	S38	S38	S38	S38	S38	S38	S38	S38	S38	S38
S18	S18	S18	S18	S18	S18	S18	S18	S18	S18	MHz	(3) ◯	S39	S39	S39	S39	S39	S39	S39	S39	S39	S39	S39
S19	S19	S19	S19	S19	S19	S19	S19	S19	S19	kHz	(3) ◯	S40	S40	S40	S40	S40	S40	S40	S40	S40	S40	S40
S20	S20	S20	S20	S20	S20	S20	S20	S20	S20	☺	(3) ◯	S41	S41	S41	S41	S41	S41	S41	S41	S41	S41	S41

PIN ASSIGNMENT

Pin No.	1-3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Assignment	F1	NP	NL	H	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	S0	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15

Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62-64
Assignment	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	D	NL	NP	F2

Figure 66 FL SEGMENT

SHARP PARTS GUIDE

MODEL CD-C5H CP-C5H

Center Speaker (GBOXS0008AWM2) and Surround Speaker (GBOXS0009AWM2), Constitute CP-C5H.

“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.

CD-C5H,CP-C5H

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
CD-C5H			
INTEGRATED CIRCUITS			
IC1	VHILA9241M/-1	J AS	Servo Amp.,LA9241M
IC2	VHILC78622K-1	J AY	Servo/Signal Control,LC78622K
IC3	VHIM56748FP-1	J AR	Focus/Tracking/Spin/Slide Driver,M56748FP
IC81	VHITA7291S/-1	J AH	Main Cam Motor Driver, TA7291S
IC82	VHITA7291S/-1	J AH	Tray Motor Driver, TA7291S
IC101	VHIAN7345K/-1	J AM	Playback and Record/ Playback Amp.,AN7345K
IC201	RH-IX0210AWZZ	J AZ	System Microcomputer, IX0210AW
IC302	VHILC72131/-1	J AP	PLL Controller,LC72131
IC303	VHILA1832//1	J AR	FM IF Det./FM Mpx./ AM IF, LA1832
IC451	VHISRS5250AS1	J AZ	SRS,SRS5250AS1
IC452	VHIBU4066BC-1	J AG	SRS Mode Selector,BU4066BC
IC501	VHILC75396N-1	J AX	Audio Processor,LC75396N
IC502-504	VHINJM4558D-1	J AH	Ope Amp.,NJM4558D
IC701	RH-IX0209AWZZ	J BA	FL Driver & Controller,IX0209AW
IC901	VHISTK41710-1	J BK	Power Amp.,STK41710
ICD01	VHIIHA12134AF1	J AK	Dolby NR,HA12134AF
ICD03	VHIBA3311L/-1	J AK	REC./P.B.Equalizer Amp., BA3311L
ICH01	VHISTK40705-1	J BA	Power Amp.,STK40705
ICP01	VHINJM4565M-1	J AC	Low Boost Amp.,NJM4565M
ICP02	VHINJM4565M-1	J AC	Line Amp.,NJM4565M
ICS01	VHILV1035M/-1	J BC	Dolby Pro Logic Decoder, LV1035M
ICS02	VHIQS7777PF-1	J BC	Q-Sound Decoder,QS7777PF
ICS03	VHINJM4565M-1	J AC	Pro Logic Amp.,NJM4565M
ICT02	VHINJM4558MF-	J AE	Line Amp.,NJM4558MF
ICT21	VHILC72720/-1	J AW	RDS Microcomputer,LC72720
TRANSISTORS			
Q1	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q51	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q52	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q101,102	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q103-106	VS2SC1845F/-1	J AC	Silicon,NPN,2SC1845F
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
Q113,114	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q119	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q124,125	VSKTA1271Y/-1	J AC	Silicon,PNP,KTA1271 Y
Q126,127	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q128	VS2SC2236-Y-1	J AB	Silicon,NPN,2SC2236 Y
Q131,132	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q139-144	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q146	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q147-150	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q153,154	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q156	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q201	VSKRC102M//1	J AC	Digital,NPN,KRC102 M
Q202,203	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q206	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
Q301	VS2SC380-O/-1	J AC	Silicon,NPN,2SC380 O
Q302-304	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q353,354	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q360	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q361	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q362	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
Q371	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q451	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
Q452	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q458-460	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q461	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q463,464	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q465-467	VS2SK246GR/-1	J AB	FET,2SK246 GR
Q501,502	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q702-715	VSKTC3875GR-1	J AB	Silicon,NPN,KTC3875 GR
Q716-723	VSKTA1504Y/-1	J AB	Silicon,PNP,KTA1504 Y
Q820	VS2SD2012//1	J AD	Silicon,NPN,2SD2012
Q821	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q822	VS2SD2012//1	J AD	Silicon,NPN,2SD2012

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
Q823	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q824	VS2SD2012//1	J AD	Silicon,NPN,2SD2012
Q825	VS2SD468-C/-1	J AD	Silicon,NPN,2SD468 C
Q826	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
Q827	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q828	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q851	VS2SB1375//1	J AF	Silicon,PNP,2SB1375
Q903,904	VSKTC3200GR-1	J AC	Silicon,NPN,KTC3200 GR
Q994	VSKTA1270Y/-1	J AD	Silicon,PNP,KTA1270 Y
Q995	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q997-999	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QD01,02	VS2SC2878A/-1	J AE	Silicon,NPN,2SC2878 A
QD03	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
QD06	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
QD07-10	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
QH03,04	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QH97-99	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QM01	VS2SK246GR/-1	J AB	FET,2SK246 GR
QM02	VSKTA1273Y/-1	J AE	Silicon,PNP,KTA1273 Y
QM03,04	VSKTA1271Y/-1	J AC	Silicon,PNP,KTA1271 Y
QM08	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
QM20-22	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
QP01,02	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QP03,04	VS2SC2878A/-1	J AE	Silicon,NPN,2SC2878 A
QP05	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QP07,08	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QS01	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
QT01,02	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
QT03,04	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
QT05	VS2SC2878A/-1	J AE	Silicon,NPN,2SC2878 A
QT06	VSKRA107M//1	J AE	Digital,PNP,KRA107 M
QT21	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
DIODES			
D1	VHD1SS133//1	J AA	Silicon,1SS133
D2-4	VHD1N4004S/-1	J AB	Silicon,1N4004S
D51	VHD1SS133//1	J AA	Silicon,1SS133
D81,82	VHD1SS133//1	J AA	Silicon,1SS133
D101-104	VHD1SS133//1	J AA	Silicon,1SS133
D202-205	VHD1SS133//1	J AA	Silicon,1SS133
D301-304	VHD1SS133//1	J AA	Silicon,1SS133
D310	VHD1SS133//1	J AA	Silicon,1SS133
D351-353	VHD1SS133//1	J AA	Silicon,1SS133
D401-403	VHD1SS133//1	J AA	Silicon,1SS133
D501,502	VHD1SS133//1	J AA	Silicon,1SS133
D552-557	VHD1SS133//1	J AA	Silicon,1SS133
D701	VHD1N4004S/-1	J AB	Silicon,1N4004S
D702	VHD1SS133//1	J AA	Silicon,1SS133
D823	VHD1SS133//1	J AA	Silicon,1SS133
D826-829	VHD1SS133//1	J AA	Silicon,1SS133
△D850	VHDS4VB20//1	J AG	Rectifier,S4VB20
△D851	VHDBR102J02-1	J AM	Silicon,BR102J02
D852-855	VHDLR204F//1	J AC	Silicon,RL204F
D858-861	VHD1N4004S/-1	J AB	Silicon,1N4004S
D870	VHD1SS133//1	J AA	Silicon,1SS133
D901,902	VHD1SS133//1	J AA	Silicon,1SS133
D905,906	VHD1N5402M/-1	J AE	Silicon,1N5402M
D907,908	VHD1N4004S/-1	J AB	Silicon,1N4004S
D909-912	VHD1SS133//1	J AA	Silicon,1SS133
D993	VHD1SS133//1	J AA	Silicon,1SS133
D995-999	VHD1SS133//1	J AA	Silicon,1SS133
DD01,02	VHD1SS133//1	J AA	Silicon,1SS133
DH01,02	VHD1SS133//1	J AA	Silicon,1SS133
DH95-99	VHD1SS133//1	J AA	Silicon,1SS133
DM01-03	VHD1SS133//1	J AA	Silicon,1SS133
DS01-04	VHD1SS133//1	J AA	Silicon,1SS133
DS05,06	VHD1N4004S/-1	J AB	Silicon,1N4004S
DT01,02	VHD1SS133//1	J AA	Silicon,1SS133
LED701-707	VHP333GTH4/-1	J AC	LED,Green,333GTH4
LED708	VHP333GTH2/-1	J AD	LED,Green,333GTH2
LED709	VHP333GTH4/-1	J AC	LED,Green,333GTH4
LED710-713	VHP333YTH2/-1	J AD	LED,Orange,333YTH2
LED714,715	VHP333GTH2/-1	J AD	LED,Green,333GTH2
LED716-718	VHP333GTH4/-1	J AC	LED,Green,333GTH4
LED719,720	VHP333YTH2/-1	J AD	LED,Orange,333YTH2
LED721-724	VHPSPR325MV-1	J AF	LED,Red,SPR325MV
LED725	VHP333GTH2/-1	J AD	LED,Green,333GTH2
LED726	VHP333GTH4/-1	J AC	LED,Green,333GTH4
VD301	VHCKV1236Z23F	J AS	Variable Capacitance, KV1236Z23F
ZD61	VHEMTZJ4R7B-1	J AB	Zener,4.7V,MTZJ4.7B

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
ZD201	VHEMTZJ3R3A-1	J	AB	Zener,3.3V,MTZJ3.3A
ZD351	VHEMTZJ4R7B-1	J	AB	Zener,4.7V,MTZJ4.7B
ZD352	VHEMTZJ3R9B-1	J	AC	Zener,3.9V,MTZJ3.9B
ZD451,452	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD550	VHEMTZJ5R6A-1	J	AC	Zener,5.6V,MTZJ5.6A
ZD820	VHEMTZJ130B-1	J	AC	Zener,13V,MTZJ13B
ZD821	VHEMTZJ5R6A-1	J	AC	Zener,5.6V,MTZJ5.6A
ZD822	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD851	VHEMTZJ300C-1	J	AC	Zener,30V,MTZJ30C
ZD852	VHEMTZJ4R7B-1	J	AB	Zener,4.7V,MTZJ4.7B
ZD853	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD854	VHEMTZJ4R7B-1	J	AB	Zener,4.7V,MTZJ4.7B
ZD901	VHEMTZJ130B-1	J	AC	Zener,13V,MTZJ13B
ZD903,904	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD998	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD999	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZDS01	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZDT21	VHEMTZJ4R3B-1	J	AC	Zener,4.3V,MTZJ4.3B

FILTERS

CF301	RFILF0072AFZZ	J	AG	FM IF
CF302	RFILF0072AFZZ	J	AG	FM IF
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T301	RCILA1074AFZZ	J	AD	LW Antenna
T302	RCILA1064AFZZ	J	AD	MW Antenna
T305	RCILB1073AFZZ	J	AC	LW Oscillation
T306	RCILB1074AFZZ	J	AC	MW Oscillation
T351	RCIL0011AWZZ	J	AD	AM IF
△T851	RTRNP0190AWZZ	J	BR	Power

COILS

L61	VP-XHR82K0000	J	AC	0.82 μH
L95	VP-XH2R2K0000	J	AB	2.2 μH,Choke
L102,103	RCILC0094AFZZ	J	AD	6.8 mH
L104	VP-MK331K0000	J	AB	330 μH,Choke
L105,106	VP-XH2R2K0000	J	AB	2.2 μH,Choke
L201	VP-DH2R2M0000	J	AB	2.2 μH,Choke
L251,252	RCILLO105AFZZ	J	AE	MPX. Filter
L341	RBLN-0001AWZZ	J	AD	Balun
L342	VP-DH2R2K0000	J	AB	2.2 mmH,Peaking
L351,352	VP-DH101K0000	J	AB	100 μH,Choke
L353	VP-DH102K0000	J	AB	1 mH,Choke
L354	RFILL0001AWZZ	J	AE	Low Pass Filter
L701	VP-CH2R2M0000	J	AB	2.2 μH
L851	VP-DH101K0000	J	AB	100 μH,Choke
L901,902	RCILZ0137AFZZ	J	AA	0.29 μH
L903	VP-XH2R2K0000	J	AB	2.2 μH,Choke
L911,912	RCILZ0137AFZZ	J	AA	0.29 μH
LD01,02	RCILC0094AFZZ	J	AD	6.8 mH
LH01,02	RCILZ0137AFZZ	J	AA	0.29 μH
LT21,22	VP-XH2R2K0000	J	AB	2.2 μH,Choke

VARIABLE RESISTORS

VR101	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [L-CH Bias Current]
VR102	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [R-CH Bias Current]
VR151	RVR-M0030AWZZ	J	AC	47 kohms (B),Semi-VR [L-CH Rec/Play Sens.]
VR152	RVR-M0030AWZZ	J	AC	47 kohms (B),Semi-VR [R-CH Rec/Play Sens.]
VR351	RVR-M0026AFZZ	J	AC	10 kohm (B),Semi-VR [FM Mute Level]
VRD01	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [Tape 1 Play L-CH Sens.]
VRD02	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [Tape 1 Play R-CH Sens.]
VRD03	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [Tape 2 Play L-CH Sens.]
VRD04	RVR-M0028AWZZ	J	AC	22 kohms (B),Semi-VR [Tape 2 Play R-CH Sens.]
VRM01	RVR-M0030AWZZ	J	AC	47 kohms (B),Semi-VR [Tape Speed]

VIBRATORS

X201	RCRSP0003AWZZ	J	AH	Crystal,4.19MHz
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
X701	RCRM-0031AWZZ	J	AE	Ceramic,4.19 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XLS01	RCRM-0173AFZZ	J	AE	Ceramic,8 MHz
XT21	RCRSB0030AWZZ	J	AH	Crystal,4.332 MHz

CAPACITORS

C1	VCEAZA1AW476M	J		47 μF,10V,Electrolytic
C2	VCTYMN1CY103N	J	AA	0.01 μF,16V
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	VCKYMN1HB181K	J	AA	180 pF,50V
C11,12	VCTYPA1CX104K	J	AB	0.1 μF,16V
C13	VCKYMN1HB331K	J	AA	330 pF,50V
C14	VCTYMN1CY103K	J	AA	0.01 μF,16V
C16	VCTYMN1CX472K	J	AA	0.0047 μF,16V
C17	VCKYMN1HB102K	J	AA	0.001 μF,50V
C18	VCEAZA1HW474M	J	AB	0.47 μF,50V,Electrolytic
C19	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C20	VCEAZA1AW476M	J		47 μF,10V,Electrolytic
C21	VCTYMN1CX332K	J	AA	0.0033 μF,16V
C22	VCCSPA1HL221J	J	AA	220 pF,50V
C23	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C24	VCCSMN1HL2R2C	J	AB	2.2 pF,50V
C25	VCCSMN1HL270J	J	AA	27 pF,50V
C26	VCTYPA1CX333K	J	AA	0.033 μF,16V
C27	VCKYMN1HB102K	J	AA	0.001 μF,50V
C28	VCTYPA1CX104K	J	AB	0.1 μF,16V
C29	VCEAZA1EW475M	J	AC	4.7 μF,25V,Electrolytic
C30	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic
C31	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic
C32	VCTYMN1CY103N	J	AA	0.01 μF,16V
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	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C37	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C38	VCTYMN1CY103N	J	AA	0.01 μF,16V
C39,40	VCTYPA1CX473K	J	AA	0.047 μF,16V
C41	VCCCBT1HH120J	J	AA	12 pF (CH),50V
C42	VCCCBT1HH150J	J	AA	15 pF (CH),50V
C43	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C44-49	VCKYMN1HB101K	J	AA	100 pF,50V
C51,52	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C53	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C54	VCKYMN1HB102K	J	AA	0.001 μF,50V
C55	RC-EZ0004AWZZ	J	AD	3.3 μF,16V,Electrolytic
C56	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C57	VCKYBT1HB102K	J	AA	0.001 μF,50V
C71,72	RC-EZ0004AWZZ	J	AD	3.3 μF,16V,Electrolytic
C80	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C81,82	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C83	VCKYMN1HB102K	J	AA	0.001 μF,50V
C85	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C86,87	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C95	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C96	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C101-104	VCKYMN1HB271K	J	AA	270 pF,50V
C105,106	VCKYMN1HB331K	J	AA	330 pF,50V
C107,108	VCKYMN1HB561K	J	AA	560 pF,50V
C109	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C111-114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C117,118	VCTYPA1CX333K	J	AA	0.033 μF,16V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121,122	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C123,124	VCTYPA1CX123K	J	AA	0.012 μF,16V
C125,126	VCTYPA1CX103K	J	AA	0.01 μF,16V
C127	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C128	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C131,132	VCKYMN1HB271K	J	AA	270 pF,50V
C133,134	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C139,140	VCTYMN1CX332K	J	AA	0.0033 μF,16V

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NO.	PART CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C141,142	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C395	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C145	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C397	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C147	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C148	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C399	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C150	VCQPKA2AA822J	J	AA	0.0082 μF,100V,Polypropylene	C453,454	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C151	VCQYKA1HM393J	J	AB	0.039 μF,50V,Mylar	C456,457	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C152	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C458	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C161	VCKYMN1HB561K	J	AA	560 pF,50V	C460	VCEAZA1HW474M	J	AB	0.47 μF,50V,Electrolytic
C162	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar	C461	VCTYMN1CX472K	J	AA	0.0047 μF,16V
C167,168	VCTYPA1CX103K	J	AA	0.01 μF,16V	C471	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C175,176	VCTYMN1CX562K	J	AA	0.0056 μF,16V	C472	VCEAZA1HW334M	J	AB	0.33 μF,50V,Electrolytic
C177,178	VCTYMN1CX682K	J	AA	0.0068 μF,16V	C481~484	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C179,180	VCTYPA1EX822K	J	AA	0.0082 μF,25V	C485	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C181,182	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic	C486	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C183	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C487	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C184	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic	C488	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C201	VCEAZA1AW477M	J	AC	470 μF,10V,Electrolytic	C501~508	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C202	VCTYMN1CY103N	J	AA	0.01 μF,16V	C509,510	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C203	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C511,512	VCKYMN1HB101K	J	AA	100 pF,50V
C204	VCTYMN1CY103N	J	AA	0.01 μF,16V	C515,516	VCEAZA1HW474M	J	AB	0.47 μF,50V,Electrolytic
C205,206	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C517,518	RC-QZA184AFYJ	J	AC	0.18 μF,50V,Mylar
C207	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C521,522	VCFYDA1HA184J	J	AC	0.18 μF,50V,Thin Film
C251,252	VCTYMN1CX332K	J	AA	0.0033 μF,16V	C523,524	VCFYDA1HA154J	J	AB	0.15 μF,50V,Polyester
C256	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C525,526	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C257	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C527,528	VCQYKA1HM273J	J	AB	0.027 μF,50V,Mylar
C301	VCKYMN1HB102K	J	AA	0.001 μF,50V	C529,530	VCQYKA1HM153J	J	AB	0.015 μF,50V,Mylar
C302	VCKYBT1HB102K	J	AA	0.001 μF,50V	C531,532	VCQYKA1HM222J	J	AB	0.0022 μF,50V,Mylar
C321	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C533,534	VCQYKA1HM472J	J	AA	0.0047 μF,50V,Mylar
C322	VCCCMN1HH688D	J	AA	6.8 pF (CH),50V	C535,536	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C539~542	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C543	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C324	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C545,546	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C325	VCKYMN1HB221K	J	AA	220 pF,50V	C547,548	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic
C326	VCCCMN1HH180J	J	AA	18 pF (CH),50V	C549,550	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C327	VCKYMN1HB681K	J	AA	680 pF,50V	C551,552	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C328	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C553,554	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C329	VCCSPA1HL330J	J	AA	33 pF,50V	C555,556	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C330	VCCUMN1HJ100J	J	AA	10 pF (UJ),50V	C557~559	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C331	VCKYPA1HF473Z	J	AB	0.047 μF,50V	C560	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C332	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C561,562	VCTYMN1CX682K	J	AA	0.0068 μF,16V
C333	VCCCMN1HH220J	J	AA	22 pF (CH),50V	C563,564	VCTYMN1CY822K	J	AA	0.0082 μF,16V
C334	VCCUMN1HJ180J	J	AA	18 pF (UJ),50V	C565,566	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C335	VCCCMN1HH180J	J	AA	18 pF (CH),50V	C567,568	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C336	VCKYMN1HB471K	J	AA	470 pF,50V	C569,570	VCKYMN1HB681K	J	AA	680 pF,50V
C337	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C571,572	VCKYMN1HB271K	J	AA	270 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 μF,50V	C573,574	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C339	VCCCMN1HH220J	J	AA	22 pF (CH),50V	C575~578	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C341	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C579	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C342	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C581,582	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C343	VCCSMN1HL330J	J	AA	33 pF,50V	C701	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C344	VCCSMN1HL330J	J	AA	33 pF,50V	C702	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C345~347	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C705~708	VCKYTV1HB102K	J	AA	0.001 μF,50V
C350,351	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C709	VCCSTV1HL151J	J	AA	150 pF,50V
C352	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C710	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C711	VCKYTV1HF223Z	J	AA	0.022 μF,50V
C355	VCCSMN1HL220J	J	AA	22 pF,50V	C715~718	VCKYBT1HB151K	J	AA	150 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 μF,50V	C728~730	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C357	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C732~741	VCCSTV1HL221J	J	AA	220 pF,50V
C358	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C782	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C820	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C362	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C821,822	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C823	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C364	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C824	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 μF,16V	C825	VCEAZA1EW227M	J	AC	220 μF,25V,Electrolytic
C366	VCKYMN1HB102K	J	AA	0.001 μF,50V	C826	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C367,368	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C827	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C369	VCCSBT1HL270J	J	AA	27 pF,50V	C830	VCEAZW1EW478M	J	AK	4700 μF,25V,Electrolytic
C370~372	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C831	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C373,374	VCTYPA1CX273K	J	AA	0.027 μF,16V	C832	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C375	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C833	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C380	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C851,852	RC-QZA224AFYJ	J	AB	0.22 μF,50V,Mylar
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V	C853,854	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C855,856	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C384	VCKYMN1HB102K	J	AA	0.001 μF,50V	C857	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C385	VCTYMN1CY103K	J	AA	0.01 μF,16V	C858	VCEAZV1HW227M	J	AD	220 μF,50V,Electrolytic
C386	VCKYMN1HB331K	J	AA	330 pF,50V	C859	RC-GZV227AF1J	J	AD	220 μF,63V,Electrolytic
C387	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C860	VCEAZV1HW227M	J	AD	220 μF,50V,Electrolytic
C391	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic	C861	RC-GZV227AF1J	J	AD	220 μF,63V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 μF,50V	C867,868	RC-QZA224AFYJ	J	AB	0.22 μF,50V,Mylar
C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C907,908	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic	C911,912	VCCSMN1HL470J	J	AA	47 pF,50V

CD-C5H,CP-C5H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C913,914	VCCSMN1HL330J	J	AA	33 pF,50V	CS24,25	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic
C917,918	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar	CS26	RC-GZA334AF1H	J	AA	0.33 μF,50V,Electrolytic
C921-924	VCQYKA1HM104J	J	AC	0.1 μF,50V,Mylar	CS27	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
C925-932	VCKYPA1HF223Z	J	AB	0.022 μF,50V	CS28	VCQYKA1HM823J	J	AC	0.082 μF,50V,Mylar
C933,934	VCKYPA1HB102K	J	AA	0.001 μF,50V	CS29	VCQYKA1HM332J	J	AB	0.0033 μF,50V,Mylar
C935,936	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS30	VCQYKA1HM823J	J	AC	0.082 μF,50V,Mylar
C937,938	VCKYBT1HB101K	J	AA	100 pF,50V	CS31	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic
C970	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CS32	VCCSPA1HL681J	J	AA	680 pF,50V
C983,984	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS33	VCFYHA1HA473J	J	AB	0.047 μF,50V,Thin Film
C985,986	RC-EZ1632AFZZ	J	AL	4700 μF,50V,Electrolytic	CS34	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
C988	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	CS35	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
C989	VCEAZA1EW227M	J	AC	220 μF,50V,Electrolytic	CS36	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic
C990	VCKYPA1HF223Z	J	AB	0.022 μF,50V	CS37,38	VCFYHA1HA104J	J	AB	0.1 μF,50V,Thin Film
C991,992	RC-GZV476AF2A	J	AC	47 μF,100V,Electrolytic	CS39	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
C994	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic	CS40	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
C995,996	RC-EZ0027AWZZ	J		3300 μF,63V,Electrolytic	CS41	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
C997	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS42	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
C998,999	VCKYPA1HB102K	J	AA	0.001 μF,50V	CS43	RC-GZA154AF1H	J	AA	0.15 μF,50V,Electrolytic
CD01,02	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CS44	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic
CD03,04	VCKYMN1HB471K	J	AA	470 pF,50V	CS45,46	RC-GZA154AF1H	J	AA	0.15 μF,50V,Electrolytic
CD05	VCKYMN1HB331K	J	AA	330 pF,50V	CS47	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic
CD06	VCKYBT1HB331K	J	AA	330 pF,50V	CS48	RC-GZA154AF1H	J	AA	0.15 μF,50V,Electrolytic
CD07,08	VCKYMN1HB331K	J	AA	330 pF,50V	CS49	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
CD09-11	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CS50	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CD12,13	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic	CS51	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
CD14-18	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	CS52	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CD19,20	VCKYMN1HB151K	J	AA	150 pF,50V	CS53	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic
CD21	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CS55,56	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic
CD31,32	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	CS57	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CD33,34	VCKYMN1HB151K	J	AA	150 pF,50V	CS58	RC-GZA224AF1H	J	AA	0.22 μF,50V,Electrolytic
CD35,36	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	CS59	VCQYKA1HM272J	J	AB	0.0027 μF,50V,Mylar
CD37,38	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	CS60	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic
CD39,40	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic	CS62-64	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic
CD41,42	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	CS65	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CD43,44	VCTYMN1CY103N	J	AA	0.01 μF,16V	CS66,67	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CD45	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CS68	VCQYKA1HM472J	J	AA	0.0047 μF,50V,Mylar
CD46	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	CS69	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CD51,52	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CS70,71	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CH07,08	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	CS72	VCQYKA1HM472J	J	AA	0.0047 μF,50V,Mylar
CH09,10	VCKYPA1HB471K	J	AA	470 pF,50V	CS73	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CH11,12	VCCSPA1HL470J	J	AA	47 pF,50V	CS74,75	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CH13,14	VCCSPA1HL150J	J	AA	15 pF,50V	CS76	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic
CH17-20	VCKYPA1HF223Z	J	AB	0.022 μF,50V	CS77	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CH21-24	VCQYKA1HM104J	J	AC	0.1 μF,50V,Mylar	CS78-82	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic
CH25-32	VCKYPA1HF223Z	J	AB	0.022 μF,50V	CS83	VCQYKA1HM102J	J	AB	0.001 μF,50V,Mylar
CH33,34	VCKYPA1HB102K	J	AA	0.001 μF,50V	CS84	VCQYKA1HM123J	J	AB	0.012 μF,50V,Mylar
CH35,36	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS85	VCQYKA1HM823J	J	AC	0.082 μF,50V,Mylar
CH37	VCKYBT1HB102K	J	AA	0.001 μF,50V	CS86	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
CH87,88	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS87	VCTYBT1EF223Z	J	AA	0.022 μF,25V
CH89,90	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic	CS88-90	VCKYPA1HB101K	J	AA	100 pF,50V
CH97	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic	CS91	RC-EZ0004AWZZ	J	AD	3.3 μF,16V,Electrolytic
CH98,99	VCKYPA1HB102K	J	AA	0.001 μF,50V	CS92	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
CM01	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CS93	VCQYKA1HM223J	J	AB	0.022 μF,50V,Mylar
CM02	VCEAZA1CW336M	J	AB	33 μF,16V,Electrolytic	CS94	VCTYBT1EF223Z	J	AA	0.022 μF,25V
CP01,02	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	CT01-04	VCKYMN1HB391K	J	AA	390 pF,50V
CP07,08	VCFYHA1HA124J	J	AB	0.12 μF,50V,Thin Film	CT05	VCKYPA1HF223Z	J	AB	0.022 μF,50V
CP09,10	VCFYHA1HA334J	J	AC	0.33 μF,50V,Thin Film	CT19-21	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic
CP11,12	VCKYMN1HB102K	J	AA	0.001 μF,50V	CT21A	VCEAZA1AW476M	J	AB	47 μF,10V,Electrolytic
CP13,14	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic	CT22	VCTYMN1EF223Z	J	AA	0.022 μF,25V
CP17	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar	CT23	VCKYMN1CX222K	J	AA	0.0022 μF,16V
CP18	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CT23A	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
CP19,20	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	CT24	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
CP25	VCFYHA1HA124J	J	AB	0.12 μF,50V,Thin Film	CT24A	VCTYMN1EF223Z	J	AA	0.022 μF,25V
CP27	VCFYHA1HA334J	J	AC	0.33 μF,50V,Thin Film	CT25	VCTYBT1CX562M	J	AA	0.0056 μF,16V
CP29,30	VCKYMN1HB101K	J	AA	100 pF,50V	CT25A	VCKYMN1HB561K	J	AA	560 pF,50V
CP31,32	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic	CT26	VCTYMN1CX562K	J	AA	0.0056 μF,16V
CP33,34	VCKYMN1HB102K	J	AA	0.001 μF,50V	CT26A,27A	VCCCPA1HH220J	J	AA	22 pF (CH),50V
CP35	VCTYBT1EF223Z	J	AA	0.022 μF,25V	CT27,28	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
CP36	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CT28A	VCEAZA1AW476M	J	J	47 μF,10V,Electrolytic
CS01,02	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic	CT29	VCTYMN1EF223Z	J	AA	0.022 μF,25V
CS03,04	VCCSPA1HL470J	J	AA	47 pF,50V	CT31	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
CS05,06	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic	CT32	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
CS07,08	VCCSPA1HL470J	J	AA	47 pF,50V	CT33,34	VCTYMN1EF223Z	J	AA	0.022 μF,25V
CS09,10	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic	CT35,36	VCCSMN1HL470J	J	AA	47 pF,50V
CS11,12	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic	CT36A	VCKYPA1HF223Z	J	AB	0.022 μF,50V
CS13	VCTYBT1EF223Z	J	AA	0.022 μF,25V	CT37	VCTYMN1EF223Z	J	AA	0.022 μF,25V
CS14,15	VCFYHA1HA104J	J	AB	0.1 μF,50V,Thin Film	CT43	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
CS16-19	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic					
CS20	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic					
CS21	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic					
CS22	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic					
CS23	RC-GZA225AF1H	J	AB	2.2 μF,50V,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

CD-C5H,CP-C5H

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R1	VRD-MN2BD100J	J AA	10 ohm,1/8W	R133	VRD-ST2CD223J	J AA	22 kohms,1/6W
R2	VRD-MN2BD683J	J AA	68 kohms,1/8W	R134	VRD-MN2BD683J	J AA	68 kohms,1/8W
R3,4	VRD-MN2BD823J	J AA	82 kohms,1/8W	R135,136	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R5	VRD-MN2BD683J	J AA	68 kohms,1/8W	R137,138	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
R6,7	VRD-MN2BD823J	J AA	82 kohms,1/8W	R139,140	VRD-MN2BD101J	J AA	100 ohm,1/8W
R8	VRD-MN2BD153J	J AA	15 kohms,1/8W	R141	VRD-ST2CD1R0J	J AA	1 ohm,1/6W
R9	VRD-MN2BD104J	J AA	100 kohm,1/8W	R145	VRD-MN2BD103J	J AA	10 kohm,1/8W
R10	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R148	VRD-ST2EE221J	J AA	220 ohms,1/4W
R11	VRD-ST2CD682J	J AA	6.8 kohms,1/6W	R149,150	VRD-MN2BD103J	J AA	10 kohm,1/8W
R12	VRD-MN2BD101J	J AA	100 ohm,1/8W	R152	VRD-MN2BD103J	J AA	10 kohm,1/8W
R13	VRD-MN2BD102J	J AA	1 kohm,1/8W	R153	VRD-ST2CD103J	J AA	10 kohm,1/6W
R14	VRD-MN2BD273J	J AA	27 kohms,1/8W	R154	VRD-MN2BD103J	J AA	10 kohm,1/8W
R15	VRD-MN2BD123J	J AA	12 kohms,1/8W	R155,156	VRD-MN2BD153J	J AA	15 kohms,1/8W
R16	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	R157	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R17	VRD-MN2BD333J	J AA	33 kohms,1/8W	R158	VRD-ST2EE221J	J AA	220 ohms,1/4W
R18	VRD-MN2BD153J	J AA	15 kohms,1/8W	R160,161	VRD-ST2CD151J	J AA	150 ohms,1/6W
R19,20	VRD-ST2CD102J	J AA	1 kohm,1/6W	R162,163	VRD-ST2CD104J	J AA	100 kohm,1/6W
R21,22	VRD-MN2BD223J	J AA	22 kohms,1/8W	R164,165	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R23	VRD-MN2BD103J	J AA	10 kohm,1/8W	R166	VRD-ST2CD223J	J AA	22 kohms,1/6W
R24	VRD-MN2BD473J	J AA	47 kohms,1/8W	R167	VRD-MN2BD473J	J AA	47 kohms,1/8W
R25	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R168	VRD-MN2BD4R7J	J AA	4.7 ohms,1/8W
R26	VRD-MN2BD823J	J AA	82 kohms,1/8W	R169	VRD-MN2BD103J	J AA	10 kohm,1/8W
R27	VRD-MN2BD393J	J AA	39 kohms,1/8W	R170	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R28	VRD-MN2BD103J	J AA	10 kohm,1/8W	R171	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R29	VRD-MN2BD563J	J AA	56 kohms,1/8W	R172	VRD-MN2BD102J	J AA	1 kohm,1/8W
R30	VRD-MN2BD682J	J AA	6.8 kohms,1/8W	R173,174	VRD-MN2BD223J	J AA	22 kohms,1/8W
R31	VRD-MN2BD122J	J AA	1.2 kohms,1/8W	R179,180	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
R32	VRD-MN2BD103J	J AA	10 kohm,1/8W	R185,186	VRD-ST2EE330J	J AA	33 ohms,1/4W
R33	VRD-MN2BD122J	J AA	1.2 kohms,1/8W	R189	VRD-ST2CD100J	J AA	10 ohm,1/6W
R34	VRD-MN2BD223J	J AA	22 kohms,1/8W	R190	VRD-MN2BD100J	J AA	10 ohm,1/8W
R35,36	VRD-MN2BD224J	J AA	22 kohms,1/8W	R191,192	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
R37	VRD-ST2CD823J	J AA	82 kohms,1/6W	R193	VRD-MN2BD102J	J AA	1 kohm,1/8W
R38	VRD-MN2BD471J	J AA	470 ohms,1/8W	R195,196	VRD-MN2BD102J	J AA	1 kohm,1/8W
R39	VRD-MN2BD102J	J AA	1 kohm,1/8W	R197,198	VRD-MN2BD101J	J AA	100 ohm,1/8W
R40	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R201,202	VRD-ST2CD103J	J AA	10 kohm,1/6W
R41,42	VRD-MN2BD473J	J AA	47 kohms,1/8W	R204-206	VRD-MN2BD103J	J AA	10 kohm,1/8W
R43	VRD-MN2BD563J	J AA	56 kohms,1/8W	R207-209	VRD-ST2CD103J	J AA	10 kohm,1/6W
R44	VRD-MN2BD333J	J AA	33 kohms,1/8W	R210	VRD-ST2CD473J	J AA	47 kohms,1/6W
R45	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R211	VRD-ST2CD103J	J AA	10 kohm,1/6W
R46	VRD-MN2BD561J	J AA	560 ohms,1/8W	R215-217	VRD-MN2BD103J	J AA	10 kohm,1/8W
R47	VRD-MN2BD104J	J AA	100 kohm,1/8W	R218	VRD-MN2BD473J	J AA	47 kohms,1/8W
R48	VRD-MN2BD103J	J AA	10 kohm,1/8W	R219	VRD-ST2CD103J	J AA	10 kohm,1/6W
R49	VRD-ST2CD102J	J AA	1 kohm,1/6W	R220	VRD-ST2CD473J	J AA	47 kohms,1/6W
R50	VRD-MN2BD681J	J AA	680 ohms,1/8W	R221	VRD-ST2CD103J	J AA	10 kohm,1/6W
R51	VRD-ST2CD335J	J AA	3.3 Mohms,1/6W	R222	VRD-MN2BD103J	J AA	10 kohm,1/8W
R52	VRD-MN2BD273J	J AA	27 kohms,1/8W	R223-228	VRD-ST2CD103J	J AA	10 kohm,1/6W
R53	VRD-MN2BD122J	J AA	1.2 kohms,1/8W	R229,230	VRD-MN2BD151J	J AA	150 ohms,1/8W
R54	VRD-ST2CD331J	J AA	330 ohms,1/6W	R231	VRD-MN2BD102J	J AA	1 kohm,1/8W
R55	VRD-MN2BD151J	J AA	150 ohms,1/8W	R232	VRD-MN2BD101J	J AA	100 ohm,1/8W
R56,57	VRD-MN2BD102J	J AA	1 kohm,1/8W	R233,234	VRD-MN2BD103J	J AA	10 kohm,1/8W
R58,59	VRD-ST2CD102J	J AA	1 kohm,1/6W	R235	VRD-MN2BD102J	J AA	1 kohm,1/8W
R60-62	VRD-MN2BD102J	J AA	1 kohm,1/8W	R236	VRD-MN2BD332J	J AA	3.3 kohms,1/8W
R63	VRD-ST2CD102J	J AA	1 kohm,1/6W	R237	VRD-MN2BD102J	J AA	1 kohm,1/8W
R64	VRD-MN2BD220J	J AA	22 ohms,1/8W	R238	VRD-ST2CD104J	J AA	100 kohm,1/6W
R66	VRD-MN2BD331J	J AA	330 ohms,1/8W	R239	VRD-MN2BD820J	J AA	82 ohms,1/8W
R71,72	VRD-MN2BD272J	J AA	2.7 kohms,1/8W	R240	VRD-MN2BD103J	J AA	10 kohm,1/8W
R73,74	VRD-MN2BD681J	J AA	680 ohms,1/8W	R256	VRD-MN2BD102J	J AA	1 kohm,1/8W
R80	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R257,258	VRD-MN2BD103J	J AA	10 kohm,1/8W
R81	VRD-MN2BD272J	J AA	2.7 kohms,1/8W	R301	VRD-MN2BD331J	J AA	330 ohms,1/8W
R82	VRD-MN2BD105J	J AA	1 Mohm,1/8W	R319	VRD-MN2BD104J	J AA	100 kohm,1/8W
R83,84	VRD-ST2EE1R0J	J AA	1 ohm,1/4W	R323	VRD-MN2BD683J	J AA	68 kohms,1/8W
R85	VRD-MN2BD272J	J AA	2.7 kohms,1/8W	R324	VRD-MN2BD104J	J AA	100 kohm,1/8W
R86	VRD-MN2BD822J	J AA	8.2 kohms,1/8W	R331	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R87	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	R332	VRD-MN2BD104J	J AA	100 kohm,1/8W
R88-92	VRD-ST2CD102J	J AA	1 kohm,1/6W	R333	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R101,102	VRD-ST2CD102J	J AA	1 kohm,1/6W	R334	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
R103,104	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R335	VRD-MN2BD104J	J AA	100 kohm,1/8W
R105,106	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	R336	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R107,108	VRD-MN2BD104J	J AA	100 kohm,1/8W	R337	VRD-ST2CD471J	J AA	470 ohms,1/6W
R109	VRD-ST2CD103J	J AA	10 kohm,1/6W	R344	VRD-MN2BD471J	J AA	470 ohms,1/8W
R110	VRD-MN2BD103J	J AA	10 kohm,1/8W	R345	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R111,112	VRD-ST2CD153J	J AA	15 kohms,1/6W	R346	VRD-MN2BD331J	J AA	330 ohms,1/8W
R113	VRD-MN2BD103J	J AA	10 kohm,1/8W	R347	VRD-MN2BD682J	J AA	6.8 kohms,1/8W
R114,115	VRD-ST2CD103J	J AA	10 kohm,1/6W	R348	VRD-MN2BD681J	J AA	680 ohms,1/8W
R117,118	VRD-ST2CD102J	J AA	1 kohm,1/6W	R349	VRD-ST2CD330J	J AA	33 ohms,1/6W
R119,120	VRD-ST2CD560J	J AA	56 ohms,1/6W	R350	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R121,122	VRD-MN2BD104J	J AA	100 kohm,1/8W	R351	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R123,124	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R352	VRD-MN2BD102J	J AA	1 kohm,1/8W
R125	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R353	VRD-MN2BD271J	J AA	270 ohms,1/8W
R126-128	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R354	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R129,130	VRD-MN2BD682J	J AA	6.8 kohms,1/8W	R355	VRD-MN2BD332J	J AA	3.3 kohms,1/8W
R131,132	VRD-MN2BD224J	J AA	220 kohms,1/8W	R356	VRD-MN2BD102J	J AA	1 kohm,1/8W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R357	VRD-ST2CD474J	J AA	470 kohms,1/6W	R576	VRD-MN2BD104J	J AA	100 kohm,1/8W
R358	VRD-MN2BD822J	J AA	8.2 kohms,1/8W	R577	VRD-MN2BD394J	J AA	390 kohms,1/8W
R359	VRD-MN2BD182J	J AA	1.8 kohms,1/8W	R578	VRD-ST2CD103J	J AA	10 kohm,1/6W
R360	VRD-MN2BD4472J	J AA	4.7 kohms,1/8W	R579	VRD-MN2BD333J	J AA	33 kohms,1/8W
R361,362	VRD-MN2BD471J	J AA	470 ohms,1/8W	R580	VRD-ST2CD224J	J AA	220 kohms,1/8W
R365,366	VRD-MN2BD103J	J AA	10 kohm,1/8W	R581	VRD-MN2BD104J	J AA	100 kohm,1/8W
R367	VRD-MN2BD102J	J AA	1 kohm,1/8W	R582	VRD-ST2EE331J	J AA	330 ohms,1/4W
R368	VRD-ST2CD333J	J AA	33 kohms,1/6W	R583	VRD-ST2CD221J	J AA	220 ohms,1/6W
R369	VRD-MN2BD820J	J AA	82 ohms,1/8W	R591,592	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R370-374	VRD-MN2BD102J	J AA	1 kohm,1/8W	R595,596	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R376	VRD-MN2BD102J	J AA	1 kohm,1/8W	R700	VRD-ST2EE390J	J AA	39 ohms,1/4W
R377	VRD-ST2CD473J	J AA	47 kohms,1/6W	R701-703	VRS-TV2AB103J	J AA	10 kohm,1/10W
R378	VRD-MN2BD823J	J AA	82 kohms,1/8W	R706,707	VRS-TV2AB102J	J AA	1 kohm,1/10W
R379	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R708	VRD-ST2CD821J	J AA	820 ohms,1/6W
R380	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R709-712	VRS-TV2AB102J	J AA	1 kohm,1/10W
R381	VRD-MN2BD103J	J AA	10 kohm,1/8W	R713	VRD-ST2CD102J	J AA	1 kohm,1/6W
R382	VRD-ST2EE151J	J AA	150 ohms,1/4W	R714,715	VRS-TV2AB102J	J AA	1 kohm,1/10W
R383-385	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R716	VRD-ST2CD102J	J AA	1 kohm,1/10W
R387	VRD-MN2BD223J	J AA	22 kohms,1/8W	R717	VRS-TV2AB102J	J AA	1 kohm,1/10W
R391,392	VRD-ST2EE391J	J AA	390 ohms,1/4W	R718	VRD-ST2CD102J	J AA	1 kohm,1/6W
R393	VRD-ST2CD102J	J AA	1 kohm,1/6W	R719	VRS-TV2AB102J	J AA	1 kohm,1/10W
R395	VRD-ST2CD473J	J AA	47 kohms,1/6W	R720-723	VRS-TV2AB103J	J AA	10 kohm,1/10W
R397	VRD-MN2BD102J	J AA	1 kohm,1/8W	R724	VRS-TV2AB102J	J AA	1 kohm,1/10W
R455,456	VRD-MN2BD104J	J AA	100 kohm,1/8W	R725	VRS-TV2AB822J	J AA	8.2 kohms,1/10W
R459	VRD-MN2BD104J	J AA	100 kohm,1/8W	R726	VRD-ST2CD102J	J AA	1 kohm,1/6W
R460	VRD-ST2CD104J	J AA	100 kohm,1/6W	R727	VRD-ST2CD122J	J AA	1.2 kohms,1/6W
R461,462	VRD-MN2BD104J	J AA	100 kohm,1/8W	R728	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R465	VRD-ST2CD102J	J AA	1 kohm,1/6W	R729	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R466	VRD-MN2BD102J	J AA	1 kohm,1/8W	R730	VRS-TV2AB822J	J AA	8.2 kohms,1/10W
R467	VRD-ST2CD681J	J AA	680 ohms,1/6W	R731	VRD-ST2CD102J	J AA	1 kohm,1/6W
R468,469	VRD-MN2BD102J	J AA	1 kohm,1/8W	R732	VRS-TV2AB122J	J AA	1.2 kohms,1/10W
R470	VRD-ST2CD103J	J AA	10 kohm,1/6W	R733	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R471,472	VRD-MN2BD104J	J AA	100 kohm,1/8W	R734	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R473,474	VRD-MN2BD103J	J AA	10 kohm,1/8W	R735	VRS-TV2AB392J	J AA	3.9 kohms,1/10W
R475	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R736	VRS-TV2AB562J	J AA	5.6 kohms,1/10W
R477	VRD-ST2CD681J	J AA	680 ohms,1/6W	R737	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R479	VRD-MN2BD223J	J AA	22 kohms,1/8W	R740	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R480	VRD-MN2BD473J	J AA	47 kohms,1/8W	R741	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R481	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R742	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R482	VRD-ST2CD333J	J AA	33 kohms,1/6W	R743	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R483	VRD-MN2BD104J	J AA	100 kohm,1/8W	R744	VRD-ST2CD102J	J AA	1 kohm,1/6W
R484	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R745	VRS-TV2AB122J	J AA	1.2 kohms,1/10W
R487	VRD-MN2BD104J	J AA	100 kohm,1/8W	R746	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R488	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R747	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R490	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R748	VRS-TV2AB392J	J AA	3.9 kohms,1/10W
R491	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R749	VRS-TV2AB562J	J AA	5.6 kohms,1/10W
R492	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R750	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R493	VRD-MN2BD102J	J AA	1 kohm,1/8W	R751	VRS-TV2AB102J	J AA	1 kohm,1/10W
R498	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R752	VRS-TV2AB122J	J AA	1.2 kohms,1/10W
R501,502	VRD-MN2BD564J	J AA	560 kohms,1/8W	R753	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R503,504	VRD-MN2BD153J	J AA	15 kohms,1/8W	R754	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R505,506	VRD-MN2BD182J	J AA	1.8 kohms,1/8W	R755	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
R509-511	VRD-ST2CD102J	J AA	1 kohm,1/6W	R756	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
R512	VRD-MN2BD564J	J AA	560 kohms,1/8W	R757	VRS-TV2AB123J	J AA	12 kohms,1/10W
R513,514	VRD-MN2BD102J	J AA	1 kohm,1/8W	R758	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R515	VRD-ST2CD102J	J AA	1 kohm,1/6W	R759	VRS-TV2AB102J	J AA	1 kohm,1/10W
R516	VRD-MN2BD102J	J AA	1 kohm,1/8W	R760	VRD-ST2CD122J	J AA	1.2 kohms,1/6W
R517,518	VRD-ST2CD102J	J AA	1 kohm,1/6W	R765	VRS-TV2AB102J	J AA	1 kohm,1/10W
R521,522	VRD-ST2CD102J	J AA	1 kohm,1/6W	R766	VRS-TV2AB122J	J AA	1.2 kohms,1/10W
R553	VRD-ST2CD153J	J AA	15 kohms,1/6W	R767	VRS-TV2AB182J	J AA	1.8 kohms,1/10W
R554	VRD-MN2BD474J	J AA	470 kohms,1/8W	R768	VRS-TV2AB222J	J AA	2.2 kohms,1/10W
R555	VRD-MN2BD274J	J AA	270 kohms,1/8W	R769	VRS-TV2AB392J	J AA	3.9 kohms,1/10W
R556	VRD-ST2CD563J	J AA	56 kohms,1/6W	R770-772	VRS-TV2AB821J	J AA	820 ohms,1/10W
R557	VRD-MN2BD474J	J AA	470 kohms,1/8W	R773	VRD-ST2CD102J	J AA	1 kohm,1/6W
R558	VRD-ST2CD104J	J AA	100 kohm,1/6W	R774-777	VRD-ST2CD681J	J AA	680 ohms,1/6W
R559	VRD-ST2CD225J	J AA	2.2 Mohms,1/6W	R778-785	VRS-TV2AB102J	J AA	1 kohm,1/10W
R560	VRD-MN2BD225J	J AA	2.2 Mohms,1/8W	R786,787	VRS-TV2AB681J	J AA	680 ohms,1/10W
R561	VRD-MN2BD104J	J AA	100 kohm,1/8W	R788	VRS-TV2AB102J	J AA	1 kohm,1/10W
R562	VRD-MN2BD183J	J AA	18 kohms,1/8W	R789	VRS-TV2AB681J	J AA	680 ohms,1/10W
R563	VRD-MN2BD223J	J AA	22 kohms,1/8W	R790	VRS-TQ2BB102J	J AA	1 kohm,1/8W
R564	VRD-MN2BD684J	J AA	680 kohms,1/8W	R791	VRD-ST2CD102J	J AA	1 kohm,1/6W
R565	VRD-ST2CD224J	J AA	220 kohms,1/6W	R792	VRS-TQ2BB102J	J AA	1 kohm,1/8W
R566	VRD-MN2BD104J	J AA	100 kohm,1/8W	R793,794	VRD-ST2CD102J	J AA	1 kohm,1/6W
R567	VRD-ST2CD123J	J AA	12 kohms,1/6W	R795	VRS-TQ2BB102J	J AA	1 kohm,1/8W
R568	VRD-ST2CD683J	J AA	68 kohms,1/6W	R796	VRD-ST2CD102J	J AA	1 kohm,1/6W
R569	VRD-MN2BD394J	J AA	390 kohms,1/8W	R797	VRS-TQ2BB102J	J AA	1 kohm,1/8W
R570	VRD-MN2BD224J	J AA	220 kohms,1/8W	R798,799	VRS-TV2AB822J	J AA	8.2 kohms,1/10W
R571	VRD-MN2BD104J	J AA	100 kohm,1/8W	R820	VRD-ST2CD470J	J AA	47 ohms,1/6W
R572	VRD-MN2BD474J	J AA	470 kohms,1/8W	R821	VRD-ST2CD103J	J AA	10 kohm,1/6W
R573	VRD-MN2BD123J	J AA	12 kohms,1/8W	R822	VRD-ST2EE561J	J AA	560 ohms,1/4W
R574	VRD-MN2BD393J	J AA	39 kohms,1/8W	R823,824	VRD-ST2CD470J	J AA	47 ohms,1/6W
R575	VRD-ST2CD224J	J AA	220 kohms,1/6W	R825	VRD-MN2BD102J	J AA	1 kohm,1/8W

CD-C5H,CP-C5H

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R826	VRD-ST2EE561J	J AA	560 ohms,1/4W	RA91-94	VRD-MN2BD102J	J AA	1 kohm,1/8W
△ R827	VRG-ST2EC220J	J AB	22 ohms,1/4W,Fusible	RA95,96	VRD-ST2CD102J	J AA	1 kohm,1/6W
R828	VRD-ST2EE101J	J AA	100 ohm,1/4W	RA97,98	VRD-MN2BD102J	J AA	1 kohm,1/8W
R829	VRD-ST2EE152J	J AA	1.5 kohms,1/4W	RA99	VRD-ST2CD102J	J AA	1 kohm,1/6W
R831	VRD-MN2BD223J	J AA	22 kohms,1/8W	RD01	VRD-MN2BD102J	J AA	1 kohm,1/8W
R834	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD02	VRD-ST2CD102J	J AA	1 kohm,1/6W
R835	VRD-MN2BD333J	J AA	33 kohms,1/8W	RD03,04	VRD-MN2BD102J	J AA	1 kohm,1/8W
R851	VRD-MN2BD123J	J AA	12 kohms,1/8W	RD05,06	VRD-MN2BD103J	J AA	10 kohm,1/8W
R857	VRD-ST2CD222J	J AA	2.2 kohms,1/6W	RD07,08	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R907,908	VRD-MN2BD563J	J AA	56 kohms,1/8W	RD09	VRD-ST2CD223J	J AA	22 kohms,1/6W
R909,910	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD10,11	VRD-MN2BD103J	J AA	10 kohm,1/8W
R911,912	VRD-MN2BD563J	J AA	56 kohms,1/8W	RD12	VRD-MN2BD473J	J AA	47 kohms,1/8W
R913,914	VRD-ST2EE331J	J AA	330 ohms,1/4W	RD13,14	VRD-ST2CD103J	J AA	10 kohm,1/6W
R915,916	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD15	VRD-ST2EE271J	J AA	270 ohms,1/4W
R919,920	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	RD16	VRD-ST2CD102J	J AA	1 kohm,1/6W
R921-924	VRN-VV3DAR22J	J AC	0.22 ohms,2W	RD21	VRD-ST2CD683J	J AA	68 kohms,1/6W
R925,926	VRD-ST2CD563J	J AA	56 kohms,1/6W	RD22	VRD-MN2BD683J	J AA	68 kohms,1/8W
R927,928	VRD-RT2HD4R7J	J AA	4.7 ohms,1/2W	RD23,24	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R929,930	VRD-RT2HD3R9J	J AA	3.9 ohms,1/2W	RD25,26	VRD-MN2BD471J	J AA	470 ohms,1/8W
R931,932	VRD-RT2HD5R6J	J AA	5.6 ohms,1/2W	RD27	VRD-ST2CD683J	J AA	68 kohms,1/6W
R933,934	VRS-VV3DA391J	J AC	390 ohms,2W	RD28	VRD-MN2BD683J	J AA	68 kohms,1/8W
R939,940	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	RD29,30	VRD-MN2BD122J	J AA	1.2 kohms,1/8W
R941,942	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD31,32	VRD-MN2BD822J	J AA	8.2 kohms,1/8W
R971	VRD-ST2CD223J	J AA	22 kohms,1/6W	RD33,34	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R972	VRD-MN2BD223J	J AA	22 kohms,1/8W	RD35	VRD-MN2BD105J	J AA	1 Mohm,1/8W
R973	VRD-MN2BD123J	J AA	12 kohms,1/8W	RD36	VRD-MN2BD101J	J AA	100 ohm,1/8W
R974	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	RD37	VRD-ST2EE271J	J AA	270 ohms,1/4W
R975	VRD-ST2CD392J	J AA	3.9 kohms,1/6W	RD38	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R976	VRD-ST2EE470J	J AA	47 ohms,1/4W	RD39	VRD-MN2BD104J	J AA	100 kohm,1/8W
R977	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD41	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R978	VRD-ST2CD104J	J AA	100 kohm,1/6W	RD42	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R979	VRD-MN2BD333J	J AA	33 kohms,1/8W	RD43,44	VRD-ST2CD224J	J AA	220 kohms,1/6W
R985	VRS-VV3DA561J	J AC	560 ohms,2W	RD69	VRD-ST2CD103J	J AA	10 kohm,1/6W
R987,988	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	RD70	VRD-MN2BD103J	J AA	10 kohm,1/8W
R989-992	VRD-RT2HD100J	J AA	10 ohm,1/2W	RD71,72	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
△ R993,994	VRG-ST2HC101J	J AB	100 ohm,1/2W,Fusible	RD73	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R995	VRD-MN2BD183J	J AA	18 kohms,1/8W	RD75	VRD-ST2CD473J	J AA	47 kohms,1/6W
R996	VRD-ST2CD473J	J AA	47 kohms,1/6W	RD76	VRD-ST2CD103J	J AA	10 kohm,1/6W
R997	VRD-ST2CD332J	J AA	3.3 kohms,1/6W	RD77,78	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R998	VRD-MN2BD563J	J AA	56 kohms,1/8W	RH07,08	VRD-ST2CD563J	J AA	56 kohms,1/6W
R999	VRD-ST2CD100J	J AA	10 ohm,1/6W	RH09,10	VRD-ST2CD102J	J AA	1 kohm,1/6W
RA01	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH11,12	VRD-ST2CD563J	J AA	56 kohms,1/6W
RA02-05	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH13,14	VRD-ST2CD331J	J AA	330 ohms,1/6W
RA06-10	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH15,16	VRD-ST2CD102J	J AA	1 kohm,1/6W
RA11-13	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH19,20	VRD-ST2CD103J	J AA	10 kohm,1/6W
RA14	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH21-24	VRS-VV3AAR20J	J AB	0.2 ohms,1W
RA17	VRD-MN2BD821J	J AA	820 ohms,1/8W	RH25,26	VRD-ST2CD563J	J AA	56 kohms,1/6W
RA19-23	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH27,28	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
RA24	VRD-MN2BD103J	J AA	10 kohm,1/8W	RH29,30	VRD-ST2EE3R9J	J AA	3.9 ohms,1/4W
RA25-28	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH31,32	VRD-ST2EE5R6J	J AA	5.6 ohms,1/4W
RA29	VRD-MN2BD473J	J AA	47 kohms,1/8W	RH39,40	VRD-ST2CD102J	J AA	1 kohm,1/6W
RA30-33	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH71,72	VRD-ST2CD223J	J AA	22 kohms,1/6W
RA34,35	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH73	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
RA36,37	VRD-ST2CD102J	J AA	1 kohm,1/6W	△ RH83,84	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
RA38,39	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH85	VRD-ST2CD223J	J AA	22 kohms,1/6W
RA40	VRD-ST2CD102J	J AA	1 kohm,1/6W	RH96	VRD-ST2CD473J	J AA	47 kohms,1/6W
RA41,42	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH97	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
RA43	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	RH98	VRD-ST2CD563J	J AA	56 kohms,1/6W
RA44,45	VRD-MN2BD102J	J AA	1 kohm,1/8W	RH99	VRD-ST2CD100J	J AA	10 ohm,1/6W
RA46,47	VRD-ST2CD102J	J AA	1 kohm,1/6W	RM01	VRD-MN2BD333J	J AA	33 kohms,1/8W
RA48,49	VRD-MN2BD102J	J AA	1 kohm,1/8W	RM02	VRD-MN2BD223J	J AA	22 kohms,1/8W
RA51	VRD-ST2CD102J	J AA	1 kohm,1/6W	RM03	VRD-MN2BD473J	J AA	47 kohms,1/8W
RA52,53	VRD-MN2BD102J	J AA	1 kohm,1/8W	RM04	VRD-ST2CD104J	J AA	100 kohm,1/6W
RA54	VRD-ST2CD102J	J AA	1 kohm,1/6W	RM05	VRD-ST2CD103J	J AA	10 kohm,1/6W
RA55	VRD-MN2BD102J	J AA	1 kohm,1/8W	RM06	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
RA58	VRD-ST2CD101J	J AA	100 ohm,1/6W	RM09	VRD-MN2BD103J	J AA	10 kohm,1/8W
RA59	VRD-MN2BD102J	J AA	1 kohm,1/8W	RM10	VRD-ST2CD103J	J AA	10 kohm,1/6W
RA61	VRD-ST2CD102J	J AA	1 kohm,1/6W	RM11,12	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
RA62,63	VRD-MN2BD102J	J AA	1 kohm,1/8W	RM23,24	VRD-ST2CD821J	J AA	820 ohms,1/6W
RA64,65	VRD-ST2CD102J	J AA	1 kohm,1/6W	RM25	VRD-MN2BD102J	J AA	1 kohm,1/8W
RA66	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP01,02	VRD-MN2BD104J	J AA	100 kohm,1/8W
RA67	VRD-ST2CD102J	J AA	1 kohm,1/6W	RP05,06	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
RA68,69	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP07	VRD-MN2BD102J	J AA	1 kohm,1/8W
RA70	VRD-ST2CD102J	J AA	1 kohm,1/6W	RP08	VRD-ST2CD102J	J AA	1 kohm,1/6W
RA71,72	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP09,10	VRD-ST2CD103J	J AA	10 kohm,1/6W
RA73	VRD-MN2BD223J	J AA	22 kohms,1/8W	RP11,12	VRD-MN2BD473J	J AA	47 kohms,1/8W
RA75	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP13,14	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
RA76,77	VRD-ST2CD102J	J AA	1 kohm,1/6W	RP15,16	VRD-ST2EE221J	J AA	220 ohms,1/4W
RA78-80	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP17,18	VRD-ST2CD102J	J AA	1 kohm,1/6W
RA81	VRD-ST2CD102J	J AA	1 kohm,1/6W	RP19,20	VRD-MN2BD104J	J AA	100 kohm,1/8W
RA82,83	VRD-MN2BD102J	J AA	1 kohm,1/8W	RP22	VRD-MN2BD563J	J AA	56 kohms,1/8W
RA87,88	VRD-ST2CD102J	J AA	1 kohm,1/6W	RP23	VRD-MN2BD222J	J AA	2.2 kohms,1/8W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
RP25,26	VRD-ST2CD123J	J AA	12 kohms,1/6W
RP27	VRD-ST2CD103J	J AA	10 kohm,1/6W
RP29	VRD-MN2BD102J	J AA	1 kohm,1/8W
RP30	VRD-ST2CD102J	J AA	1 kohm,1/6W
RP31	VRD-MN2BD473J	J AA	47 kohms,1/8W
RP32	VRD-ST2CD473J	J AA	47 kohms,1/6W
RP33,34	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
RP35,36	VRD-ST2CD221J	J AA	220 ohms,1/6W
RP37	VRD-MN2BD683J	J AA	68 kohms,1/8W
RP38	VRD-ST2CD683J	J AA	68 kohms,1/6W
RP39	VRD-MN2BD683J	J AA	68 kohms,1/8W
RP43,44	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
RP101	RH-QX0009AWZZ	J AE	Posistor,2.2 ohms
RS01,02	VRD-ST2CD102J	J AA	1 kohm,1/6W
RS03,04	VRD-ST2CD224J	J AA	220 kohms,1/6W
RS05,06	VRD-ST2CD153J	J AA	15 kohms,1/6W
RS07,08	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
RS09,10	VRD-ST2CD103J	J AA	10 kohm,1/6W
RS11	VRD-ST2CD183J	J AA	18 kohms,1/6W
RS12	VRD-ST2CD393J	J AA	39 kohms,1/6W
RS14	VRD-ST2CD105J	J AA	1 Mohm,1/6W
RS15	VRD-ST2CD102J	J AA	1 kohm,1/6W
RS16,17	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
RS18,19	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
RS20-23	VRD-ST2CD102J	J AA	1 kohm,1/6W
RS24-27	VRD-ST2CD104J	J AA	100 kohm,1/6W
RS28	VRD-ST2EE331J	J AA	330 ohms,1/4W
RS29-32	VRD-ST2CD102J	J AA	1 kohm,1/6W
RS34,35	VRD-ST2CD102J	J AA	1 kohm,1/6W
RS36	VRD-ST2EE221J	J AA	220 ohms,1/4W
RS37	VRD-ST2CD103J	J AA	10 kohm,1/6W
RS39	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
RS40	VRD-ST2CD362J	J AA	3.6 kohms,1/6W
RS41,42	VRD-ST2CD334J	J AA	330 kohms,1/6W
RT01,02	VRD-MN2BD273J	J AA	27 kohms,1/8W
RT03,04	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
RT05,06	VRD-MN2BD273J	J AA	27 kohms,1/8W
RT07,08	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
RT09	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
RT10	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
RT21	VRD-ST2CD104J	J AA	100 kohm,1/6W
RT25	VRD-ST2CD221J	J AA	220 ohms,1/6W
RT26-28	VRD-MN2BD473J	J AA	47 kohms,1/8W
RT26A	VRD-ST2CD102J	J AA	1 kohm,1/6W
RT28A	VRD-MN2BD102J	J AA	1 kohm,1/8W
RT29	VRD-MN2BD221J	J AA	220 ohms,1/8W
RT29A	VRD-ST2CD102J	J AA	1 kohm,1/6W
RT30	VRD-MN2BD104J	J AA	100 kohm,1/8W
RT30A	VRD-MN2BD102J	J AA	1 kohm,1/8W
RT31	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
RT32	VRD-MN2BD182J	J AA	1.8 kohms,1/8W
RT32A	VRD-ST2CD103J	J AA	10 kohm,1/6W
RT33,34	VRD-MN2BD473J	J AA	47 kohms,1/8W
RT33A,34A	VRD-ST2CD563J	J AA	56 kohms,1/6W
RT35	VRD-MN2BD104J	J AA	100 kohm,1/8W
RT35A-37A	VRD-ST2CD224J	J AA	220 kohms,1/6W
RT36	VRD-ST2CD473J	J AA	47 kohms,1/6W
RT37	VRD-MN2BD474J	J AA	470 kohms,1/8W
RT38-40	VRD-ST2CD473J	J AA	47 kohms,1/6W
RT41	VRD-ST2CD221J	J AA	220 ohms,1/6W
RT48,49	VRD-ST2EE391J	J AA	390 ohms,1/4W
RT51-54	VRD-ST2CD102J	J AA	1 kohm,1/6W
RY03-10	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY12	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY14	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY16	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY18	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY20	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY22	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY24	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY29	VRS-TV2AB330J	J AA	33 ohms,1/10W
RY30,31	VRD-ST2CD330J	J AA	33 ohms,1/6W
RY32-38	VRS-TV2AB330J	J AA	33 ohms,1/10W
RY40	VRS-TV2AB103J	J AA	10 kohm,1/10W
RY41	VRD-ST2CD103J	J AA	10 kohm,1/6W
RY42,43	VRS-TV2AB103J	J AA	10 kohm,1/10W
RY44	VRD-ST2CD103J	J AA	10 kohm,1/6W
RY56	VRS-TV2AB104J	J AA	100 kohm,1/10W
RY57	VRD-ST2EE390J	J AA	39 ohms,1/4W

OTHER CIRCUITRY PARTS

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
BI4A/B	QCNWN1086AWZZ	J AH	Connector Ass'y,3/3Pin
BI851/CNS851	QCNWN1091AWZZ	J AG	Connector Ass'y,4/4Pin
BI905/CNS905	QCNWN1098AWZZ	J AH	Connector Ass'y,7/7Pin
BIM1	QCNWN1005AWZZ	J AF	Connector Ass'y,4Pin
BIM2/CNS2	QCNWN1020AWZZ	J AF	Connector Ass'y,5/5Pin
BIM3	QCNWN0987AWZZ	J AH	Connector Ass'y,6Pin
CFW1	QCNCWZG27AWZZ	J AE	Socket,27Pin
CFW2	QCNCWZG27AWZZ	J AE	Socket,27Pin
CFW852	QCNCWZG14AWZZ	J AD	Socket,14Pin
CFW853A	QCNCWZG09AWZZ	J AC	Socket,9Pin
CFW853B	QCNCWZG09AWZZ	J AC	Socket,9Pin
CFW903	QCNCWZG14AWZZ	J AD	Socket,14Pin
CNP1	92LCONPB7BPHK	J AC	Plug,7Pin
CNP2	92LCONPB8BPHK	J AC	Plug,8Pin
CNP3	92LCONE6P53253	J AC	Plug,6Pin
CNP3A	92LCONE6P53254	J AC	Plug,6Pin
CNP11	92LCONE4P53014	J AC	Plug,4Pin
CNP12	92LCONE5P53253	J AB	Plug,5Pin
CNP13	92LCONE6P53253	J AC	Plug,6Pin
CNP101	92LCONE3P53253	J AB	Plug,3Pin
CNP102	92LCONE7P53253	J AC	Plug,7Pin
CNP201	QCNCWZS10AWZZ	J AK	Socket,10Pin
CNP202	QCNCW010MAWZZ	J AD	Plug,12Pin
CNP301	92LCONE-2P5268	J AB	Plug,2Pin
CNP303	QCNCM010MAWZZ	J AC	Plug,12Pin
CNP501	QCNCM010QAWZZ	J AD	Plug,15Pin
CNP851	QCNCM698DAFZZ	J AB	Plug,4Pin
CNP901	QCNCM705BAFZZ	J AA	Plug,2Pin
CNP905	QCNCM698GAFZZ	J AB	Plug,7Pin
CNPS01	QCNCW010QAWZZ	J AE	Socket,15Pin
CNS1A/B	QCNWN0858AWZZ	J AG	Connector Ass'y,8/8Pin
CNS2A/B	QCNWN0859AWZZ	J AF	Connector Ass'y,7/7Pin
CNS3A/B	QCNWN0857AFZZ	J AK	Connector Ass'y,6/6Pin
CNS101A/B	QCNWN1095AWZZ	J AG	Connector Ass'y,3/3Pin
CNS102A/B	QCNWN1096AWZZ	J AM	Connector Ass'y,7/6Pin
CNS701	QCNCMZS10AWZZ	J AK	Socket,10Pin
CNS901	QCNWN1090AWZZ	J AD	Connector Ass'y,2Pin
△ F820	92LFUSE-T501-E	J AD	Fuse,T500mA L 250V
△ F853	92LFUSE-T202-E	J AD	Fuse,T2A L 250V
△ F855	92LFUSE-T252-E	J AD	Fuse,T2.5A L 250V
△ F857,858	92LFUSE-T502-E	J AD	Fuse,T5A L 250V
△ F901,902	92LFUSE-T402-E	J AD	Fuse,T4A L 250V
FE301	RTUNS0007AWZZ	J AT	FM Front End
△ FH01,02	92LFUSE-T402-E	J AD	Fuse,T4A L 250V
FL701	VVKCK1627M/-1	J BM	FL Display
FW1	QCNWN1085AWZZ	J AF	Flat Cable,27Pin
FW201	QCNWN1103AWZZ	J AG	Flat Wire,12Pin
FW701	QCNWN1092AWZZ	J AE	Flat Cable,6Pin
FW853	QCNWN1100AWZZ	J AC	Flat Wire,3Pin
FW853A	QCNWN1099AWZZ	J AG	Flat Cable,9Pin
FW901	QCNWN1087AWZZ	J AD	Flat Cable,5Pin
FW903	QCNWN1089AWZZ	J AH	Flat Cable,14Pin
FW904	QCNWN1088AWZZ	J AF	Flat Wire,8Pin
FWM1	QCNWN1093AWZZ	J AF	Flat Wire,8Pin
FWM2	QCNWN1094AWZZ	J AH	Flat Wire,13Pin
IC95	VHPGP1F38T/-1	J AL	Terminal,Digital Output
J901	QJAKM0005AWZZ	J AD	Jack,Headphones
JT01	92LJACKL1693A	J AH	Jack,VIDEO/AUX 1,2
JT03	QSOCJ0104AWZZ	J AD	Jack,Pre OUT,Super Woofer
M701	92LMTR1854CASY	J AS	Motor with Chassis [Spindle]
M702	92LMTR1854BASY	J AP	Motor with Gear [Sled]
M901	92LMTR1810A	J AK	Motor,Air Cooling Fan
MM1(300-3)	92PF525-319	J AW	Motor with Pulley [Tape]
MOB1	RMOTV0373AFM1	J AQ	Main Cam Motor Ass'y
MOB2	RMOTV0373AFM1	J AQ	Tray Motor Ass'y
PHM1,2	—————	—	Photo Interrupter (Supplies at REF No.PWB-G/ PWB-H)
RL851	RRLYD0117AFZZ	J AP	Relay
RL901	RRLYD0004AWZZ	J AP	Relay
RLH01	RRLYD0004AWZZ	J AP	Relay
RX701	VHLSPS4421/-1	J AL	Remote Control Sensor,SPS4421
SO301	QTANC0103AWZZ	J AD	Terminal,Antenna
SO901	QTANA0404AWZZ	J AF	Terminal,Speaker [Front]
SOH01	QTANA0601AWZZ	J AH	Terminal,Speaker [Center/Surround]
SOL1,2	—————	—	Solenoid (Supplies at REF No.PWB-G/ PWB-H)

CD-C5H,CP-C5H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
SW701	QSW-Z0003AWZZ	J	AH	Switch,Rotary Type [Volume Up/Down]
SW702	QSW-Z0003AWZZ	J	AH	Switch,Rotary Type [Jog Dial]
SW702A	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [X-BASS]
SW704	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer/Demo]
SW705	92LSWICHT1663T	J	AC	Switch,Key Type [SRS Mode]
SW706	92LSWICHT1663T	J	AC	Switch,Key Type [SRS Pass]
SW707	92LSWICHT1663T	J	AC	Switch,Key Type [FF]
SW708	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]
SW709	92LSWICHT1663T	J	AC	Switch,Key Type [Edit Normal]
SW710	92LSWICHT1663T	J	AC	Switch,Key Type [Edit High]
SW711	92LSWICHT1663T	J	AC	Switch,Key Type [Record/Pause]
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Forward Play]
SW713	92LSWICHT1663T	J	AC	Switch,Key Type [Dolby-NR]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Q-Sound]
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [Virtual]
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Dolby-Pro Logic]
SW717	92LSWICHT1663T	J	AC	Switch,Key Type [Rewind]
SW718	92LSWICHT1663T	J	AC	Switch,Key Type [CD Pause]
SW719	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Play]
SW720	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Mode]
SW721	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [Timer]
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Sleep]
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Video/AUX]
SW725	92LSWICHT1663T	J	AC	Switch,Key Type [Tape 1/2]
SW726	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner (BAND)]
SW727	92LSWICHT1663T	J	AC	Switch,Key Type [CD]
SW728	92LSWICHT1663T	J	AC	Switch,Key Type [RDS Programme Type/Traffic Information Search]
SW729	92LSWICHT1663T	J	AC	Switch,Key Type [RDS EON]
SW730	92LSWICHT1663T	J	AC	Switch,Key Type [RDS Display Mode]
SW731	92LSWICHT1663T	J	AC	Switch,Key Type [RDS ASPM]
SW732	92LSWICHT1663T	J	AC	Switch,Key Type [Clear]
SW733	92LSWICHT1663T	J	AC	Switch,Key Type [Memory/Set]
SW734	92LSWICHT1663T	J	AC	Switch,Key Type [On/Stand-by]
SW739	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 3 Open/Close]
SW740	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 3]
SW741	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 2 Open/Close]
SW742	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 2]
SW743	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 1 Open/Close]
SW744	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 1]
SWB101,102	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam1,2]
SWB103,104	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam3,4]
SWB105	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Eject]
SWB106	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Tray Close]
SWB107	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD In]
SWB108	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Set]
SWE1	—————	—	—	Switch,Leaf Type [Tape 1 Play] (Supplies at REF No.PWB-G)
SWE2	—————	—	—	Switch,Leaf Type [Tape 1 CrO ₂] (Supplies at REF No.PWB-G)
SWE4	—————	—	—	Switch,Leaf Type [Tape 2 Play] (Supplies at REF No.PWB-H)
SWE5	—————	—	—	Switch,Leaf Type [Tape 2 CrO ₂] (Supplies at REF No.PWB-H)
SWE7	—————	—	—	Switch,Leaf Type [Tape 2 Side A FP] (Supplies at REF No.PWB-H)
SWE8	—————	—	—	Switch,Leaf Type [Tape 2 Side B FP] (Supplies at REF No.PWB-H)
TP451	92LCONE3P53253	J	AB	Plug,3Pin [Test Point]
WT853	QCNCW039CAWZZ	J	AD	Socket,3Pin
WT902	92LCONE5P52287	J	AC	Socket,5Pin
WTM1	92LCONE8P52287	J	AD	Plug,8Pin,Wire Trap
WTM2	QCNCW012NAWZZ	J	AE	Plug,13Pin,Wire Trap

CD MECHANISM PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
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	PCUSG0427AFSC	J	AC	Cushion
△ 306	RCTRH8164AFZZ	J	BF	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
307	PCUSG0001AWSA	J	AD	Insulator
308	PCUSG0004AWSA	J	AD	Insulator
701	92L2R6S+6CZ	J	AB	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	92L1R5WC3R8R25	J	AA	Washer,ø1.5×ø3.8×0.25mm
M701	92LMTR1854CASY	J	AS	Motor with Chassis [Spindle]
M702	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW702A	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]

CHANGER MECHANISM

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
101	LCHSM0037AWZZ	J	AP	Main Base
102	LANGF0024AWZZ	J	AE	Top Board
103	NROLP0007AWZZ	J	AB	Rollar,Cam Guide
104	NPLYR0004AWZZ	J	AC	Pulley,Drive
105	NGERH0052AWZZ	J	AC	Gear,Idler
106	NGERH0053AWZZ	J	AB	Gear,Cam
107	NGERH0054AWZZ	J	AB	Gear,Middle
108	NGERH0057AWZZ	J	AB	Gear,Tray Idler
109	MCAMP0127AFZZ	J	AR	Main Cam
110	MLEVP0056AWZZ	J	AC	Lever,Front Switch
111	MLEVP0057AWM1	J	AC	Rear Switch Lever Ass'y
112	MLEVP0058AWZZ	J	AB	Lever,Tray Lock
113	PGIDM0018AWZZ	J	AF	Holder,Mechanism
114	PGIDM0019AWZZ	J	AE	Holder,Stabilizer
115	LHLDM1008AWZZ	J	AD	Stabilizer
116	PGIDM0017AWZZ	J	AC	Guide,Mechanism Holder
119	GCOVA1152AWZZ	J	AL	Tray,Disc Guide
120	GCOVA1153AWZZ	J	AF	Tray,Disc
121	LANGF0025AWZZ	J	AB	Bracket,Switch
122	NSFTL0001AWZZ	J	AB	Shaft,Tray Change
123	MSPRD0078AWFJ	J	AB	Spring,Tray Switch
124	MSPRD0080AWFJ	J	AB	Spring,Tray Lock Lever
125	MSPRD0079AWFJ	J	AB	Spring,Disc Stop
126	NBLTK0028AWZZ	J	AB	Belt,Tray Drive
127	NBLTK0027AWZZ	J	AB	Belt,Cam Drive
128	PMAGF0001AWZZ	J	AF	Magnet
129	92LN-BAND1318A	J	AA	Nylon Band,80mm
130	PGUMS0016AWZZ	J	AB	Tray Rubber
131	LANGF0028AWZZ	J	AB	Bracket,Mechanism Holder
132	LCHSM0038AWZZ	J	AK	Changer Box
133	NGERH0055AWZZ	J	AC	Gear,Center
134	NGERH0056AWZZ	J	AB	Gear,Center Tray
135	NGERH0058AWZZ	J	AB	Gear,Tray Drive
136	MLEVP0052AWZZ	J	AC	Lever,Tray Change
137	MLEVP0053AWZZ	J	AC	Lever,Top Joint
138	MLEVP0054AWZZ	J	AC	Lever,Middle Joint
139	MLEVP0055AWZZ	J	AC	Lever,Bottom Joint
801	XBPSD26P04000	J	AA	Screw,ø2.6×4mm
802	XEBSD20P07000	J	AB	Screw,ø2×7mm
803	XEBSD20P06000	J	AA	Screw,ø2×6mm
804	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
805	LX-EZ0005AWFD	J	AA	Screw,ø2.6×10mm
MOB1	RMOTV0373AFM1	J	AQ	Main Cam Motor Ass'y
MOB2	RMOTV0373AFM1	J	AQ	Tray Motor Ass'y
SWB101,102	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam1,2]
SWB103,104	QSW-F0353AFZZ	J	AD	Switch,Leaf Type [Cam3,4]
SWB105	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Eject]
SWB106	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Tray Close]
SWB107	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD In]
SWB108	QSW-P0920AFZZ	J	AC	Switch,Push Type [CD Set]

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
CABINET PARTS			
201	92LCAB2821AS1	J	Front Panel Ass'y
201- 1		—	Front Panel (Not Replacement Item)
201- 2	PCUSG0022AWZZ	J AB	Cushion,Leg
201- 3	HDECP0043AWSA	J AE	Panel,Function
202	HDECQ0348AWSA	J AT	Panel,FL Display
203	KNOB2695AASY1	J AR	Disc No.Button Ass'y
204	KNOB2695BASY2	J AT	Operation Button Ass'y
205	GCAB-1049AWSA	J AR	Top Cabinet
206	GCOVA1173AWSA	J AK	Cover,Disc Tray 1
207	GCOVA1174AWSA	J AK	Cover,Disc Tray 2
208	GCOVA1175AWSA	J AK	Cover,Disc Tray 3
209	JKNBZ0464AWSA	J AF	Button,Surround
210	JKNBZ0465AWSA	J AF	Button,RDS
211	GDORF0049AWSA	J AM	Cassette Holder,Tape 1
212	GDORF0050AWSA	J AM	Cassette Holder,Tape 2
213	GITAR0332AWSA	J AU	Rear Panel
214	GITAS0044AWSA	J AP	Side Panel,Left
215	GITAS0045AWSA	J AP	Side Panel,Right
216	HBDGB1006AWSA	J AD	Badge,SHARP
217	HDECQ0281AWSA	J AH	Decoration Plate,Cassette Holder,Tape 1
218	HDECQ0282AWSA	J AH	Decoration Plate,Cassette Holder,Tape 2
219	HDECQ0285AWSA	J AL	Panel,Operation Botton
220	JKNBK0052AWSA	J AF	Knob,Volume Up/Down
221	JKNBK0053AWSA	J AF	Knob,Jog Dial
222	JKNBZ0455AWSA	J AF	Button,On/Stand-by
223	JKNBZ0457AWSA	J AF	Button,Function
224	JKNBZ0458AWSA	J AF	Button,X-BASS
225	JKNBZ0459AWSA	J AF	Button,SRS
226	LANGK0057AWFW	J AE	Bracket,Heat Sink,Front
227	LANGK0058AWFW	J AE	Bracket,Heat Sink,Rear
228	LANGK0059AWFW	J AD	Bracket,Fan Motor
229	LANGK0104AWFW	J AK	Bracket,Main PWB,Left
230	LANGK0110AWFW1	J AD	Bracket,Cassette Lock,Tape 1
231	LANGK0111AWFW1	J AD	Bracket,Cassette Lock,Tape 2
232	LANGK0113AWFW	J AL	Bracket,Main PWB Supt,Right
△ 233	LBSHC0002AWZZ	J AD	Bushing,AC Power Supply Cord
234	LCHSM0065AWFW	J AV	Main Chassis
235	LCHSZ0012AWZZ	J AQ	Holder,CD Mechanism
236	LANGJ0005AWFW	J AC	Bracket,Amp.PWB
237	LHLDZ1171AWZZ	J AF	Holder,FL Display
238	LHLDZ1172AWZZ1	J AD	Holder,LED Operation,Left
239	LHLDZ1173AWZZ1	J AD	Holder,LED Operation,Right
240	LHLDZ1174AWZZ	J AD	Holder,LED Disc No.
241	MLIFP0003AWZZ	J AE	Damper,Cassette Holder
242	MLOKC0001AWZZ	J AD	Cassette Lock,Tape 1
243	MLOKC0002AWZZ	J AD	Cassette Lock,Tape 2
244	MSPRD0092AWFJ	J AB	Spring,Cassette,Tape 1
245	MSPRD0093AWFJ	J AB	Spring,Cassette,Tape 2
246	MSPRD0109AWFJ	J AB	Spring,Cassette Lock,Tape 1
247	MSPRD0110AWFJ	J AB	Spring,Cassette Lock,Tape 2
248	NFANP0001AWZZ	J AD	Rotary Fan
249	PCUSG0022AWZZ	J AB	Cushion,Leg
250	PRDAR0065AWFW	J AD	Heat Sink,Diode
251	PRDAR0095AWFW	J BB	Heat Sink,Main
252	PRDAR0096AWFW	J AM	Heat Sink,Sub
△ 253	QACCE0008AW00	J AG	AC Power Supply Cord
254	QCNWN1102AWZZ	J AE	Lead Wire with Lug
258	92LCAUT1706A1	J AC	Label,Class 1
259	92LCAUT1706B	J AA	Label,Laser Caution
260	92LCLMP1810A	J AC	Wire Holder
261	92LCSPR1431C	J AA	Spring,Rotary Fan
263	92LN-BAND1318A	J AA	Nylon Band,80mm
265	92LRDAT1587A	J AC	Heat Sink,Diode
△ 266	QFSDH0001AWZZ	J AB	Holder,Fuse
△ 267	92LLUG1746A	J AA	Lug,Terminal
268	RCORF0002AWZZ	J AE	Core
274	PFLT-0037AWZZ	J AB	Felt,Operation Button
300	KMECB0006AWZZ	J BS	Tape Mechanism Ass'y
300- 1	92PFF513-810	J AY	Head,Record/Playback/Erase [Tape 2]
300- 2	92PFF513-811	J AX	Head,Playback [Tape 1]
300- 3(MM1)	92PFF525-319	J AW	Motor with Pulley [Tape]
300- 4(PWB-H)	92PFF567-612	J AX	Tape 2 Mechanism PWB Ass'y
300- 5(PWB-G)	92PFF567-613	J AV	Tape 1 Mechanism PWB Ass'y
300- 6	92PFF17G-31	J AG	Belt,Main
300- 7	92PFF514-118	J AK	Pinch,Roller Ass'y,Right

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
300- 8	92PFF514-119	J AK	Pinch,Roller Ass'y,Left
300- 9	92PFF18W-12	J AF	Belt,Fast Forward/Rewind
300-10	92PFF19D-21	J AG	Belt,Joint
601	LX-HZ0009AWFD	J AC	Screw,Special
602	LX-HZ0082AFZZ	J AA	Screw,ø4×8mm
603	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
604	LX-JZ0022AFFD	J AA	Screw,ø3×8mm
605	XBBSD20P04000	J AA	Screw,ø2×4mm
606	XJBSD30P10000	J AA	Screw,ø3×10mm
607	XHBSD26P04000	J AA	Screw,ø2.6×4mm
608	XHBSD30P06000	J AA	Screw,ø3×6mm
609	XJBSD30P10000	J AA	Screw,ø3×10mm
610	XJBSD30P14000	J AA	Screw,ø3×14mm
611	XJBSE30P10000	J AA	Screw,ø3×10mm
612	XJBSE30P12000	J AA	Screw,ø3×12mm
613	XJSSD30P10000	J AA	Screw,ø3×10mm
614	XJBSD30P12000	J AA	Screw,ø3×12mm
615	XEBSD30P10000	J AA	Screw,ø3×10mm
ACCESSORIES/PACKING PARTS			
	PSHEP0027AWZZ	J	Cushion,Speaker
	QANTL0005AWZZ	J AG	AM Loop Antenna
	SPAKA0193AWZZ	J AN	Packing Add.
	SPAKC0654AWZZ	J BC	Packing Case
	SPAKP0032AWZZ	J AF	Polyethylene Bag,Unit
	SPAKZ0375AWZZ	J AF	Pad,Changer
	SPAKZ0376AWZZ	J AN	Pad,Protection
	SPAKZ0378AWZZ	J AE	Pad,Protection B
	TINSZ0309AWZZ	J	Operation Manual [For East Europe]
	TINSZ0310AWZZ	J AX	Operation Manual [For Europe]
	TLABE0242AWZZ	J AB	Label,Bar Code
	TLABS0027AWZZ	J AB	Label,B-Mark
	92LBAG1460C1	J AB	Polyethylene Bag,Accessories
	92LFANT1535A	J AF	FM Antenna
	92LLABL372C	J AB	Label,Serial No.
	RRMCG0128AWSA	J AX	Remote Control
	92LLID1782A	J AQ	Battery Lid,Remote Control
P.W.B. ASSEMBLY (Not Replacement Item)			
PWB-A1~3	92LPWB2778DPLS	J	Display/CD Switch/Headphone (Combined Ass'y)
PWB-B	92LPWB2778MANS	J	Main
△ PWB-C1~4	92LPWB2778PWRS	J	Power Amp./Power Supply/CD Servo/CD Digital (Combined Ass'y)
PWB-D	92LPWB2778TUNS	J	Tuner
PWB-E	QPWBF0027AWZZ	J AD	CD Motor (PWB Only)
PWB-F	QPWBF0322AWZZ	J AC	Tray Switch (PWB Only)
PWB-G	92PF567-613	J AV	Tape 1 Mechanism
PWB-H	92PF567-612	J AX	Tape 2 Mechanism
PWB-K	92LPWB2778LOGS	J	Pro Logic
PWB-L	92LPWB2778PSCS	J	Amp.

CD-C5H,CP-C5H

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
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CP-C5H

SPEAKER BOX PARTS (Front Speaker)

901	92L201L0CPC310	J AX	Net Frame Ass'y,Left
901	92L201R0CPC310	J AX	Net Frame Ass'y,Right
902	92L200L0CPC310	J BE	Front Panel Ass'y,Left
902	92L200R0CPC310	J BE	Front Panel Ass'y,Right
903	92L100L2CPC310	J BF	Speaker Box Ass'y,Left
903	92L100R2CPC310	J BF	Speaker Box Ass'y,Right
904	92L23036099010	J AC	Holder,Catcher
905	92L22000CPC300	J AD	Cushion,Front Panel
906	92L21000CPC300	J AR	Holder,Woofer
907	92L6000CPC5H00	J	Label,Specification
908	92L3141CPC3W10	J AR	C1+Cord Ass'y (2.2 μF,100V,Film Capacitor)
909	92L44090210100	J AE	Port Cushion
910	92L44210310100	J AD	Cushion,Speaker Cord
911	92L411B930100P	J AC	Screw,ø3×10mm
912	92L411B140100P	J	Screw,ø4×10mm
913	92L411S84016AB	J AD	Screw,ø4×16mm
914	92L411B840160P	J AD	Screw,ø4×16mm
SP1,2	VSP0016WBE56A	J BE	Woofer
SP3,4	VSP0050TBK06A	J AX	Tweeter
SP5,6	92L303R0300G10	J AS	Super Tweeter

ACCESSORIES/PACKING PARTS (Front Speaker)

92L3191CPC1W00	J	Speaker Cord Ass'y
92L6100CPC5H00	J	Label,Feature,Speaker
92L70032001400	J AC	Polyethylene Bag,Speaker
92L71525002900	J	Mirror Mat Sheet
92L720FCPC3W00	J AN	Packing Add.,Front,Speaker
92L720RCPC3W00	J AN	Packing Add.,Rear,Speaker
92L74231001700	J	Pad,Speaker

SPEAKER BOX PARTS (Center Speaker) (GBOXS0008AWM2)

901	92L201C0CPC510	J AT	Net Frame Ass'y
902	92L200C0CPC510	J AU	Front Cabinet
903	92L11005C5WC00	J	Support Board
904	92L227C0CPC510	J AX	Rear Cabinet
905	92L314CCPC5W10	J AF	C1+Cord Ass'y (2.7 μF,100V,Film Capacitor)
906	92L332LY108B00	J	Terminal,Speaker
907	92L44190210300	J AC	Cushion,Leg
908	92L600CPC5W200	J	Label,Specification
909	92L411B830120P	J	Screw,ø3×12mm
910	92L411B840200P	J	Screw,ø4×20mm
SP7	VSP0012WBF26A	J BA	Woofer
SP8	VSP0050TBK76A	J AT	Tweeter

SPEAKER BOX PARTS (Surround Speaker) (GBOXS0009AWM2)

901	92L201R0CPC510	J AR	Net Frame Ass'y
902	92L200R0CPC510	J AS	Top Cabinet
903	92L227R0CPC520	J AT	Bottom Cabinet Ass'y
904	92L314SCPC5W10	J AE	Cord Ass'y
905	92L332LY108B00	J	Terminal,Speaker
906	92L44190210300	J AC	Cushion,Leg
907	92L600RPC5W200	J	Label,Specification
908	92L411B830120P	J	Screw,ø3×12mm
909	92L411B840160P	J AD	Screw,ø4×16mm
SP9,10	VSP0010PBV0CA	J BE	Full-Range

ACCESSORIES/PACKING PARTS (Center/Surround Speaker)

92L3191CPC5W10	J	Speaker Cord Ass'y
92L70032001710	J	Polyethylene Bag,Surround Speaker
92L70032001810	J	Polyethylene Bag,Center Speaker
92L720FC5WSR00	J	Packing Add.,Front,Speaker
92L720RC5WSR00	J	Packing Add.,Rear,Speaker

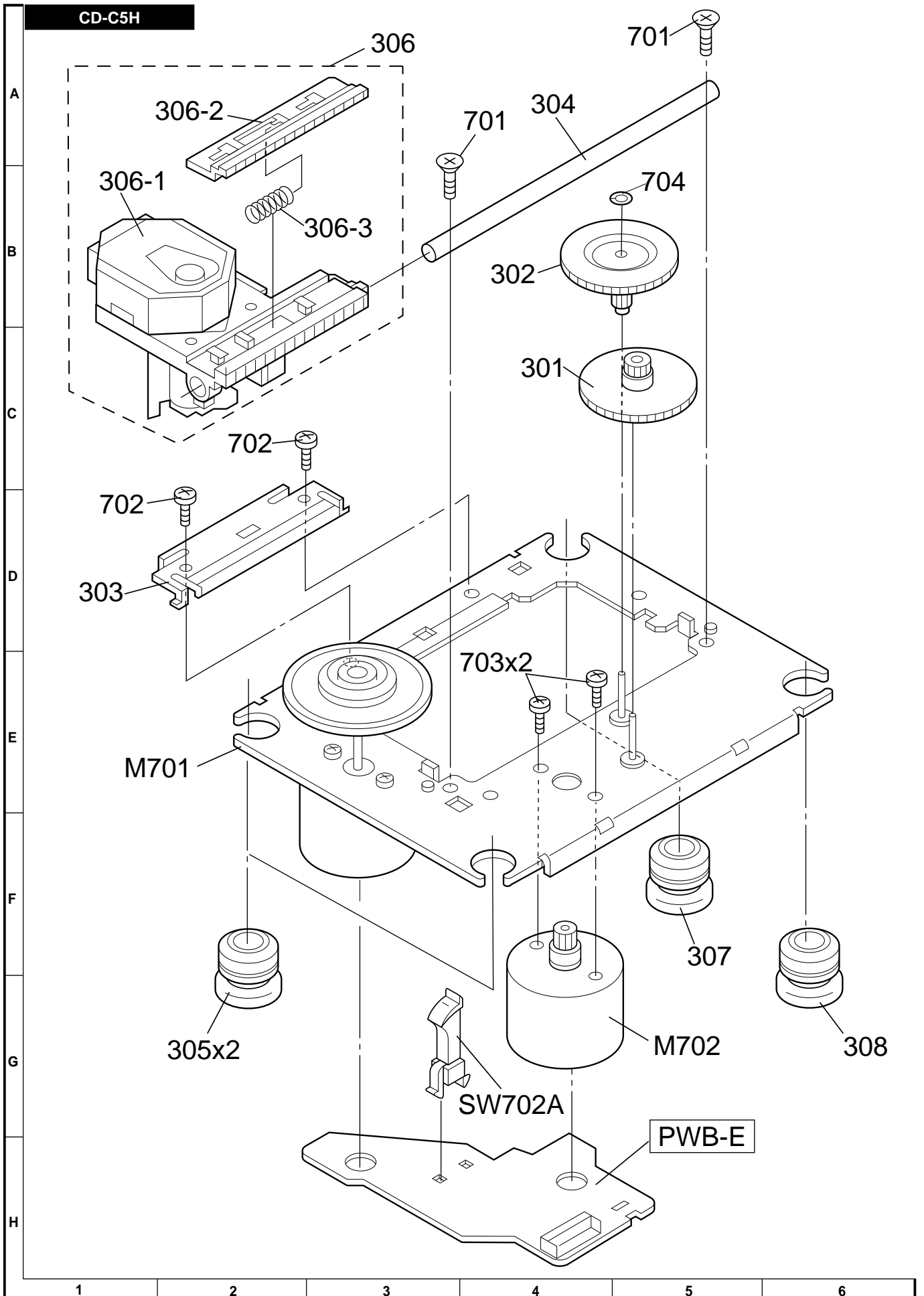


Figure 12 CD MECHANISM EXPLODED VIEW

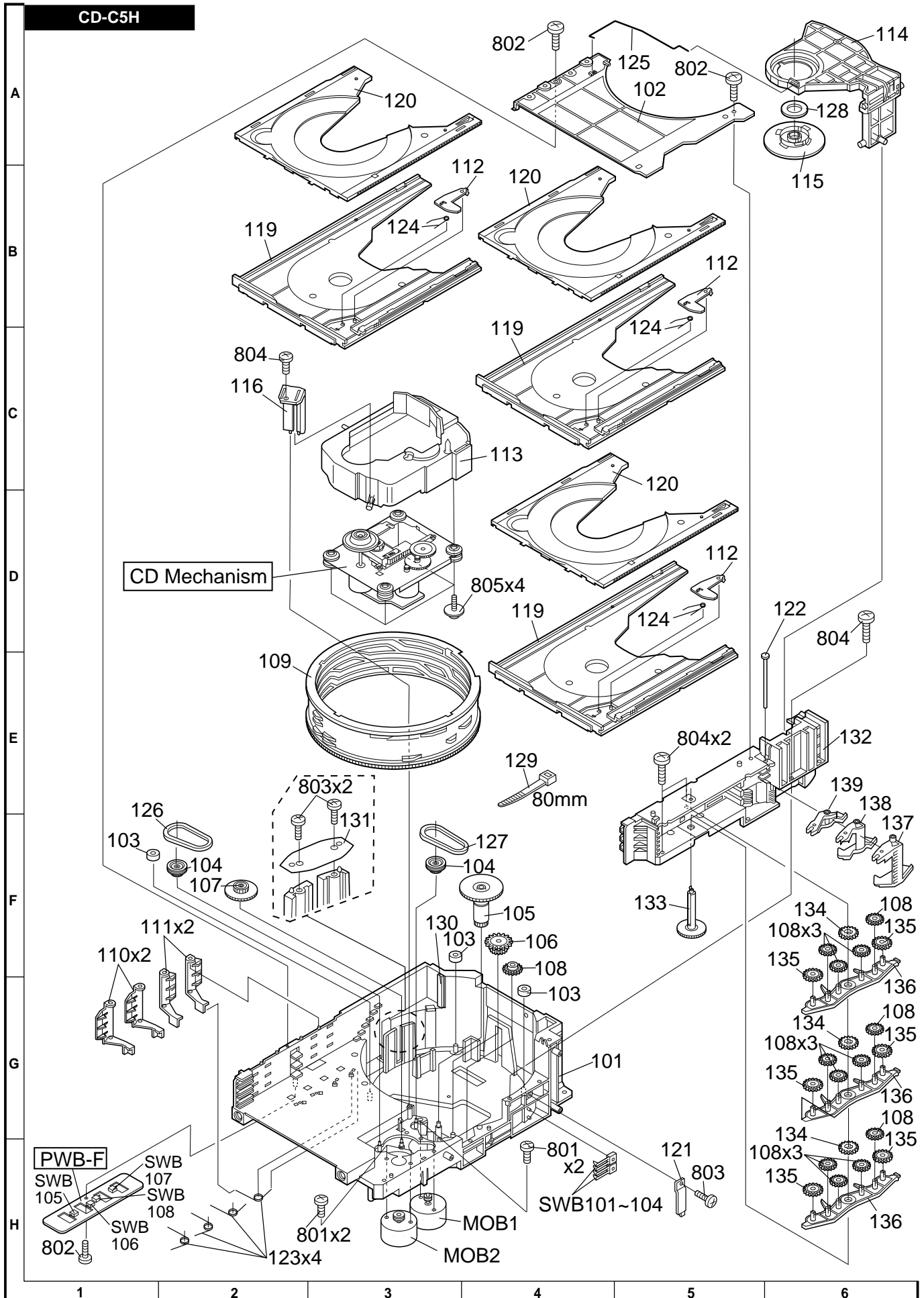


Figure 13 CHANGER MECHANISM EXPLODED VIEW

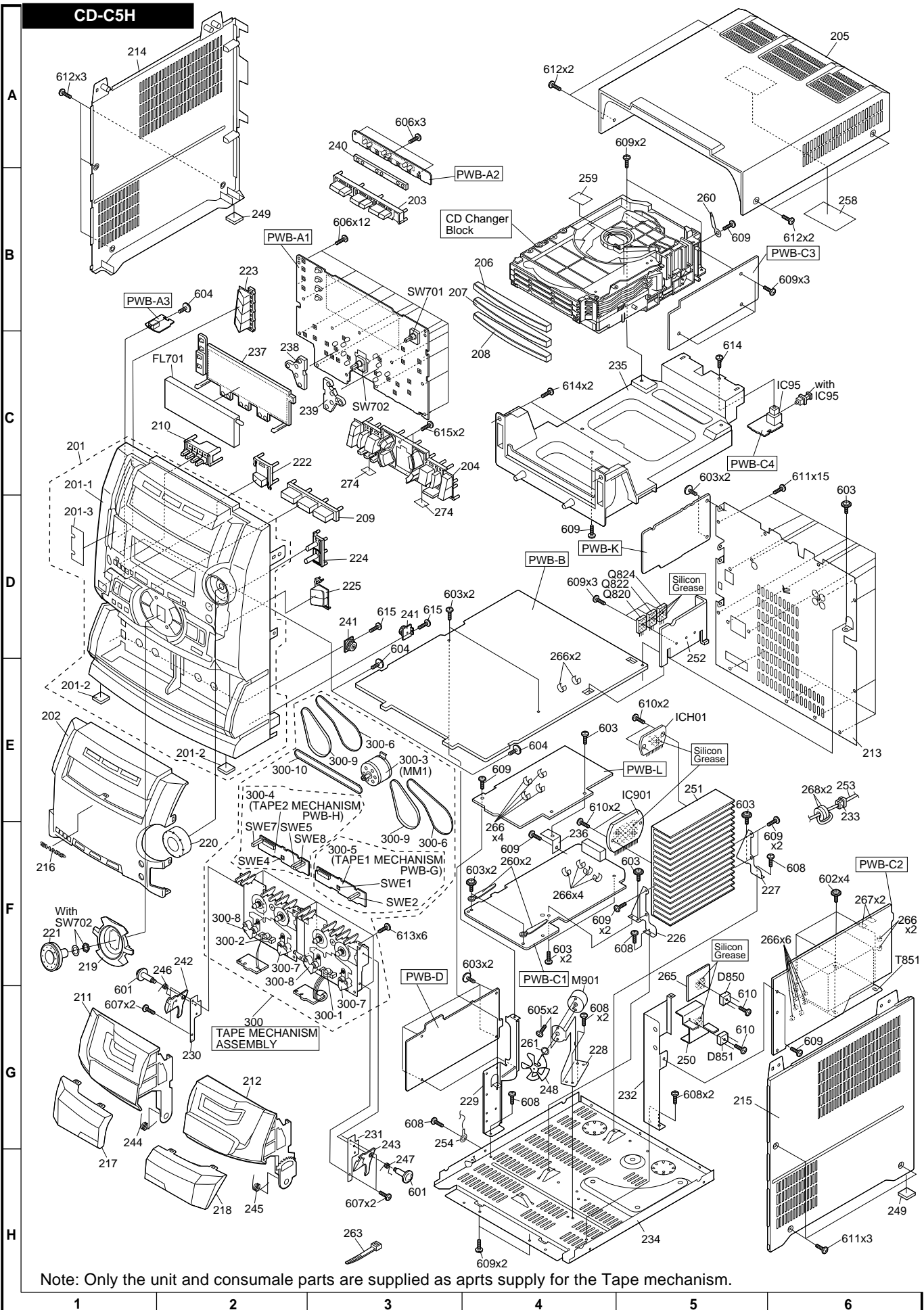


Figure 14 CABINET EXPLODED VIEW

CD-C5H,CP-C5H

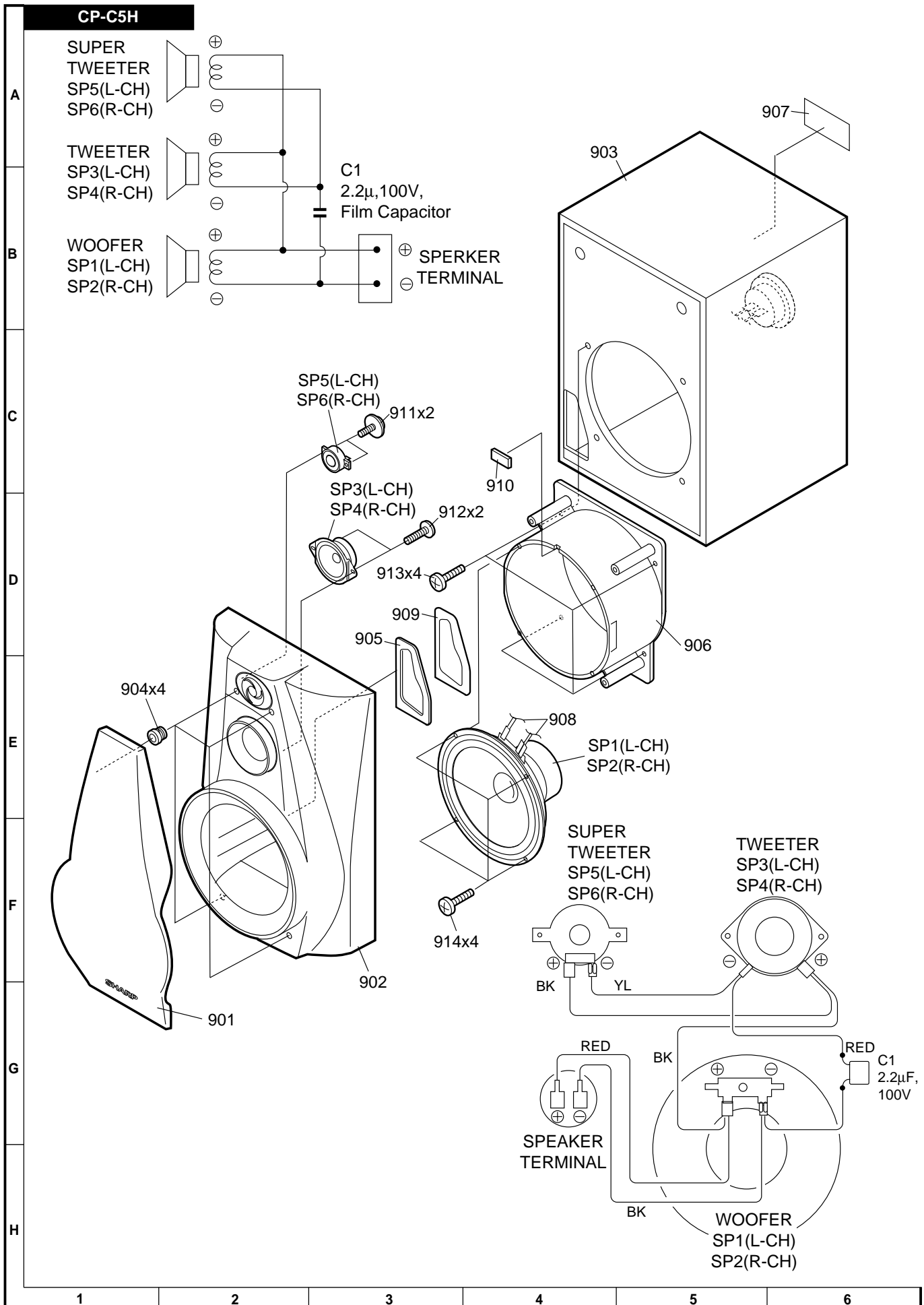


Figure 15 FRONT SPEAKER EXPLODED VIEW

GBOXS0008AWM2

A
B
C
D
E
F
G
H

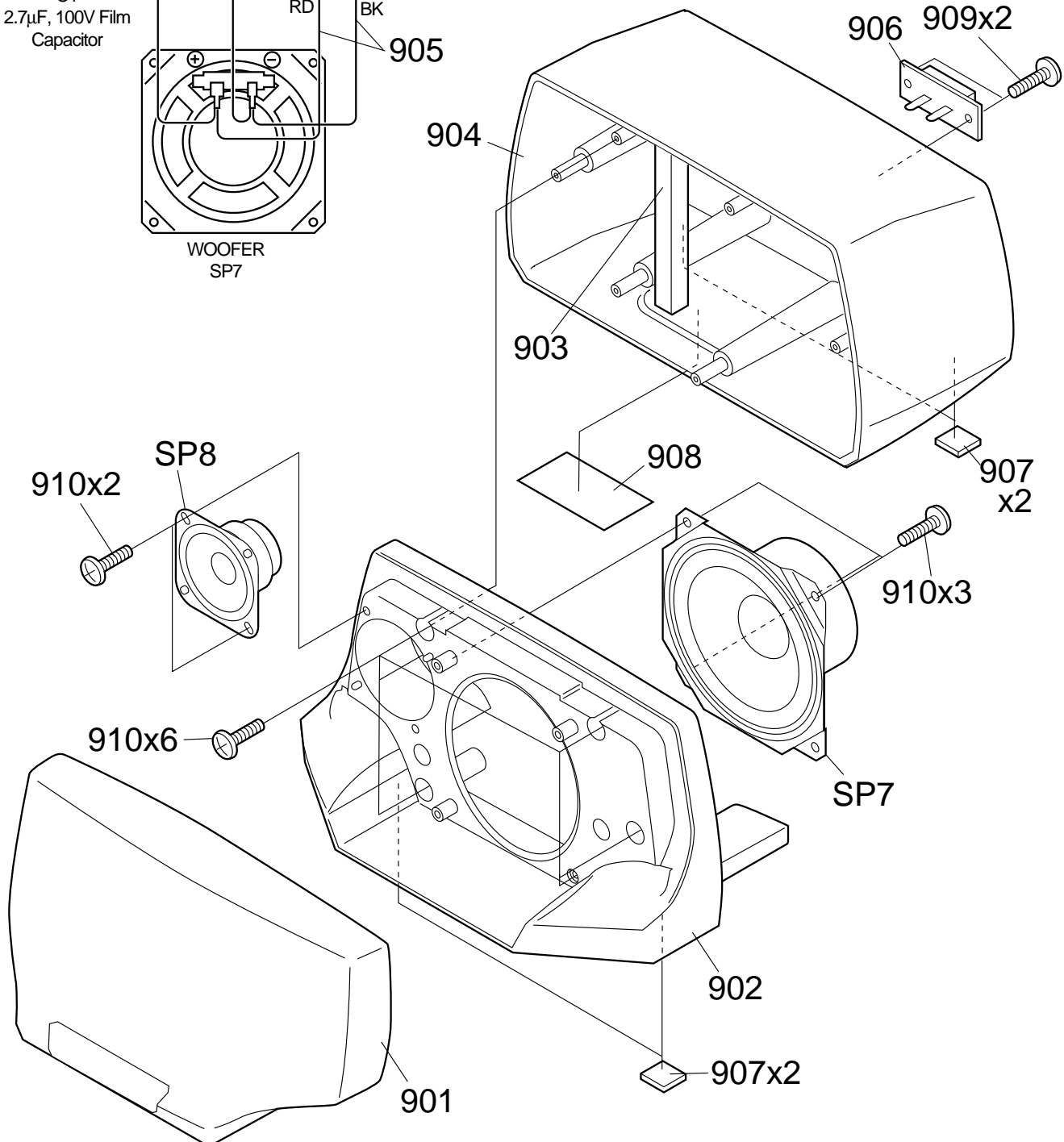
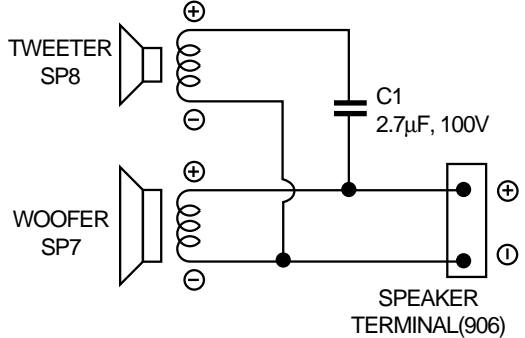
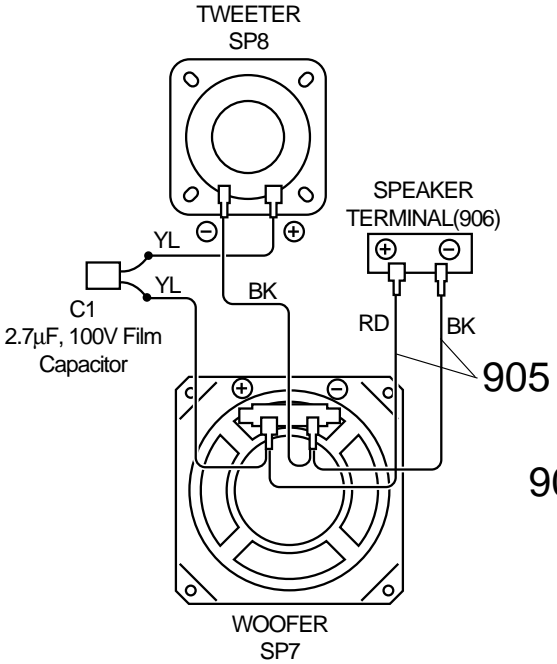


Figure 16 CENTER SPEAKER EXPLODED VIEW

CD-C5H,CP-C5H

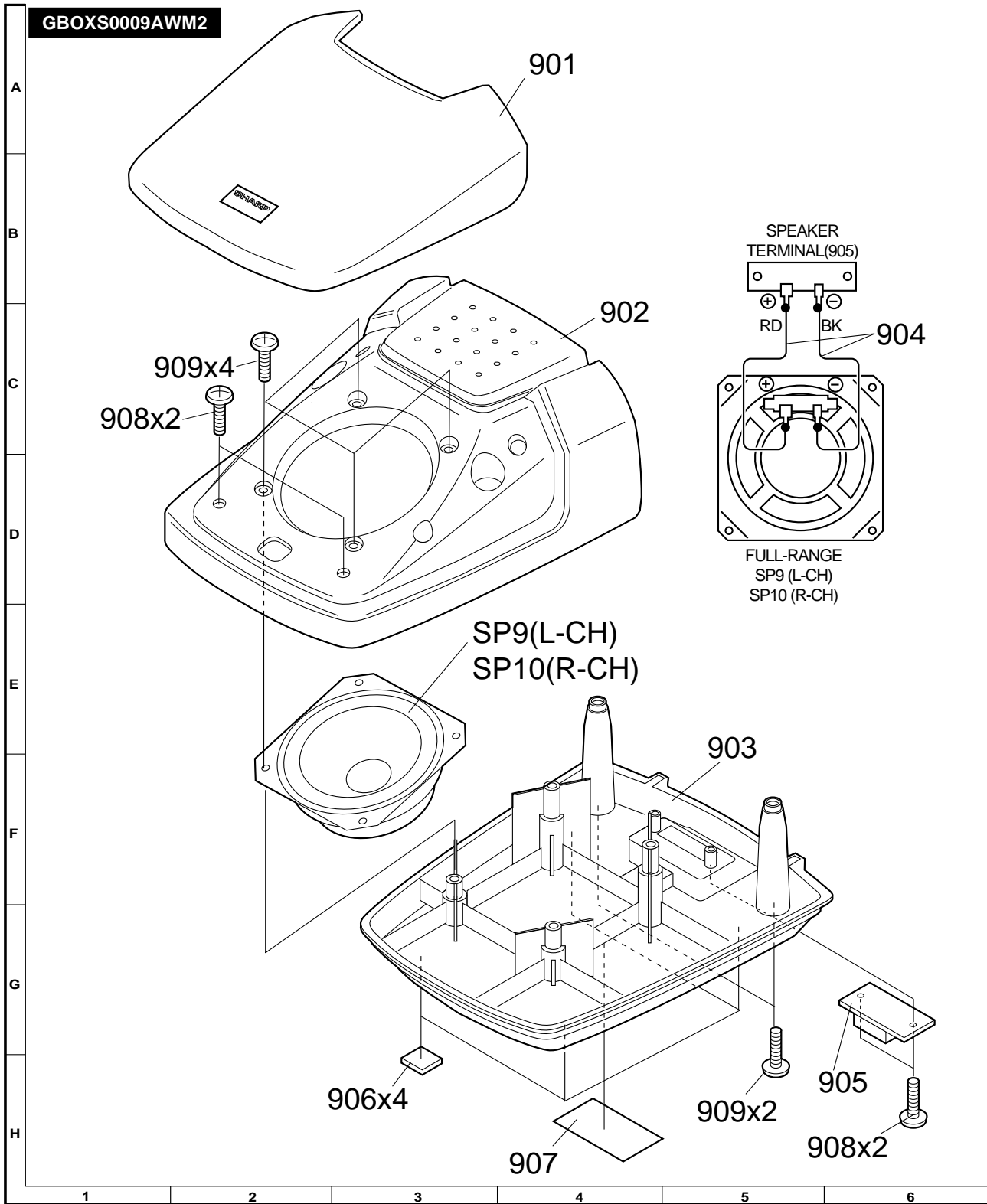


Figure 17 SURROUND SPEAKER EXPLODED VIEW

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