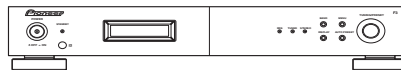


Service Manual



F-F3-J

ORDER NO.
RRV3688

FM/AM Tuner

F-F3-J

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
F-F3-J	WYXCN5	AC 220 V to 240 V	



For details, refer to "Important Check Points for good servicing".

SAFETY INFORMATION



A This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

B

LITHIUM BATTERY NOTICE

■

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

When replacing the lithium batteries, follow the note below. Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.
The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

C Note : The lithium battery installation position is inside the remote control unit.

D

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

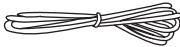
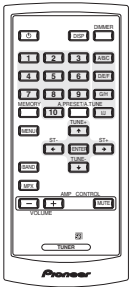
- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 ACCESSORIES

A

- Remote Control Unit
(8300751500010-IL)
- RCA/phono Stereo
Audio Cable
(L063152020020-IL)
- SR Control Cable
(L063152010040-IL)
- FM Antenna
(E605000030050-IL)



B

- Lithium Battery
(CR2025)
- Power Cord
(L068250160020-IL)
- AM Loop Antenna
(E605010130010-IL)



(Attached inside the
remote control)

- Warranty Card
- Operating Instructions
(5707000000920-IL)

C

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F

2.2 SPECIFICATIONS

FM tuner section

Frequency range	.87.5 MHz to 108 MHz
Usable sensitivity	
NORMAL	Mono: 11.3 dBf, IHF (1.0 μ V/75 Ω)
50 dB quieting sensitivity	
NORMAL	Mono: 21.3 dBf, IHF (3.2 μ V/75 Ω)
Signal-to-noise ratio	Mono: 76 dB (at 85 dBf) Stereo: 75 dB (at 85 dBf)
Distortion	Stereo: 0.3 % (1 kHz)
Alternate channel selectivity	
	.75 dB ($\pm$ 400 kHz)
Stereo separation	.45 dB (1 kHz)
Frequency response	$\pm$ 1 dB (30 Hz to 15 kHz)
Image response ratio	.90 dB
IF response ratio	.95 dB
Antenna Input	.75 Ω unbalanced

AM tuner section

Frequency range	.531 kHz to 1602 kHz
Sensitivity (IHF, loop antenna)	350 μ V/m
Selectivity	33 dB ($\pm$ 9 kHz)
Signal-to-noise ratio	.55 dB
Image response ratio	.35 dB
IF response ratio	.65 dB
Antenna	Loop Antenna

Audio section

Output (Level/Impedance)	
FM (100 % MOD)	.1000 mV/1 k Ω
AM (30 % MOD)	.224 mV/1 k Ω

Miscellaneous

Power requirements	
	AC 220 V to 240 V, 50 Hz/60 Hz
Power consumption	.8 W
Power consumption in standby mode	.0.5 W
Dimensions	
	420 mm (W) x 78 mm (H) x 344 mm (D)
Weight (without package)	4.3 kg

Accessories

Remote control unit	1
Lithium battery (CR2025)	1
Power cord	1
RCA/phono stereo audio cable	1
SR control cable	1
AM loop antenna	1
FM antenna	1
Warranty card	1
Operating instructions	

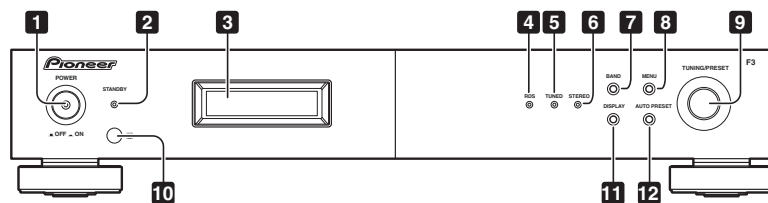


Note

- Specifications and design are subject to possible modifications without notice, due to improvements.

2.3 PANEL FACILITIES

◆ Front Panel



1 POWER OFF ON

2 STANDBY indicator

3 Display

4 RDS indicator

Lights when an RDS broadcast is received, and flashes during RDS search.

5 TUNED indicator

Lights when a station is properly tuned in.

6 STEREO indicator

Lights red when a stereo broadcast is received. Goes off when a monaural broadcast is received. Lights blue when the MPX mono mode is selected.

7 BAND

Selects FM or AM.

8 MENU

Use to enter/exit menu mode.

The unit times out if no operation is performed for about five seconds after the menu mode is set.



Tip

• Liquid Crystal Display

The LCD used in this unit has a tendency to change color in response to the surrounding temperature. The display's color tone may turn gray or its ability to switch between displayed information may slow down when the room is not at optimum temperature, or when the unit has been operating for a long period of time. However, these are only temporary symptoms and regular functionality will be restored once the unit returns to optimum temperature.

9 TUNING/PRESET dial

Press this dial to select an option or execute a command.

Turn this dial to select menu options, radio presets or stations.

In the tuning mode, the reception frequency can be tuned in an increasing or decreasing direction. Turn the dial clockwise to change the reception toward higher frequencies. Turn the dial counterclockwise to tune the reception toward lower frequencies.

In the preset mode, turning this dial moves the selected preset channel up or down. The auto tuning operation cannot be used when in this mode.

When inputting station names, use this dial to select desired characters.

10 Remote sensor

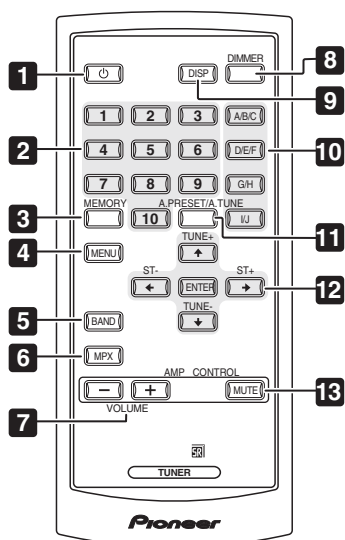
11 DISPLAY

Use to select the display mode.

12 AUTO PRESET

When pressed during FM or AM mode, receivable stations are automatically stored in the preset memory in order starting from preset channel A1.

◆ Remote Control Unit



1 ⏻

Switches the unit between standby and on.

2 Station call buttons (1 to 10)

Use these buttons to preset stations, and to recall previously preset stations.

3 MEMORY

Use to preset stations. This button is also used for manual station-name character selection for FM and AM broadcasts, and for Program Type search.

4 MENU

Use to enter/exit menu mode.

5 BAND

Selects FM or AM.

6 MPX

Use to switch between stereo and mono reception during FM broadcasts. If the signal is weak, switching to mono may improve the sound quality.

7 VOLUME

Use to adjust your Pioneer amplifier's sound volume.

8 DIMMER

Dims or brightens the display (or switches the backlight off).

9 DISP

Use to select the display mode.

10 Preset channel range buttons (A/B/C, D/E/F, G/H, I/J)

Use to tune in preset broadcast stations.

11 A.PRESET/A.TUNE

When pressed during FM or AM mode, receivable stations are automatically stored in the preset memory in order starting from preset channel A1.

12 Tuning buttons

ENTER

Selects an option or executes a command.

TUNE +/-

Use to change reception frequency.

ST +/-

Selects station preset when listening to the radio.

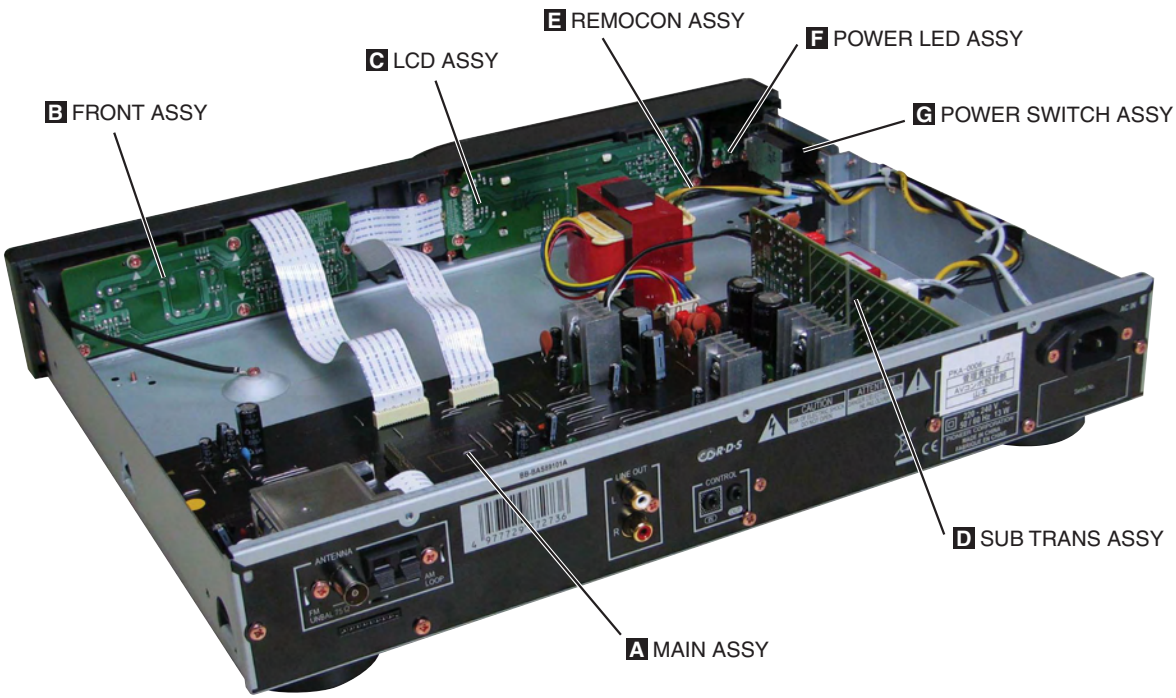
13 MUTE

Use to activate the mute function of your Pioneer amplifier.

1234

3. BASIC ITEMS FOR SERVICE

3.1 PCB LOCATIONS



NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
●The  mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

◆LIST OF ASSEMBLIES

D

Mark	No. Description	Part No.
NSP	1.. PCB TOTAL ASSY	7025HU0701020-IL
	2.. MAIN ASSY	7028066081020-IL
	2.. LCD ASSY	7028066082020-IL
	2.. FRONT ASSY	7028066083020-IL
	2.. REMOCON ASSY	7028066084020-IL
	2.. POWER LED ASSY	7028066085020-IL
NSP	1.. PCB TOTAL ASSY	7025HU0701021-IL
	2.. SUB TRANS ASSY	7028066091020-IL
	2.. POWER SWITCH ASSY	7028066092020-IL
	1.. FM/AM TUNER UNIT	AXX7248



5



6



7



8



A



B



C



D



E



F



5



6



7



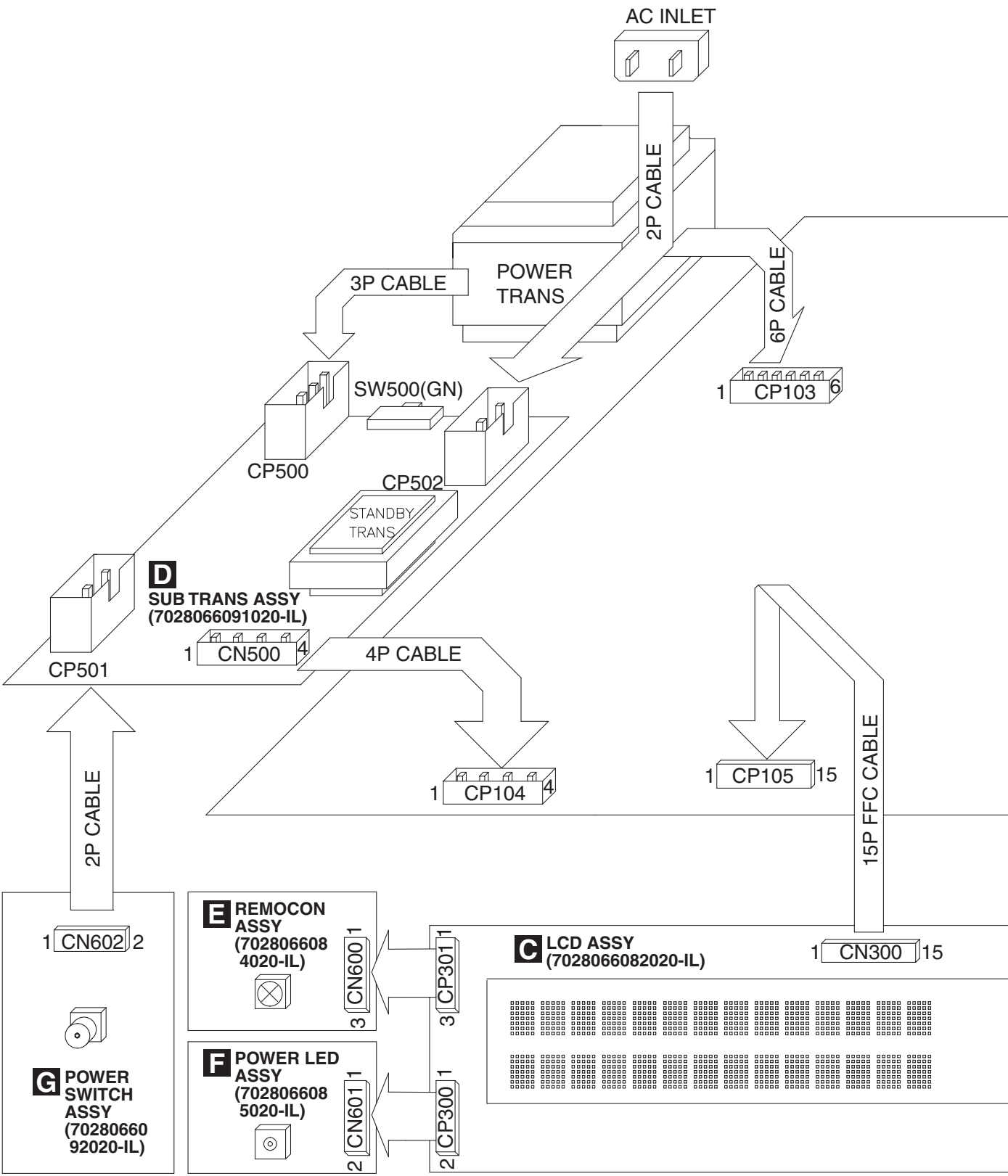
8

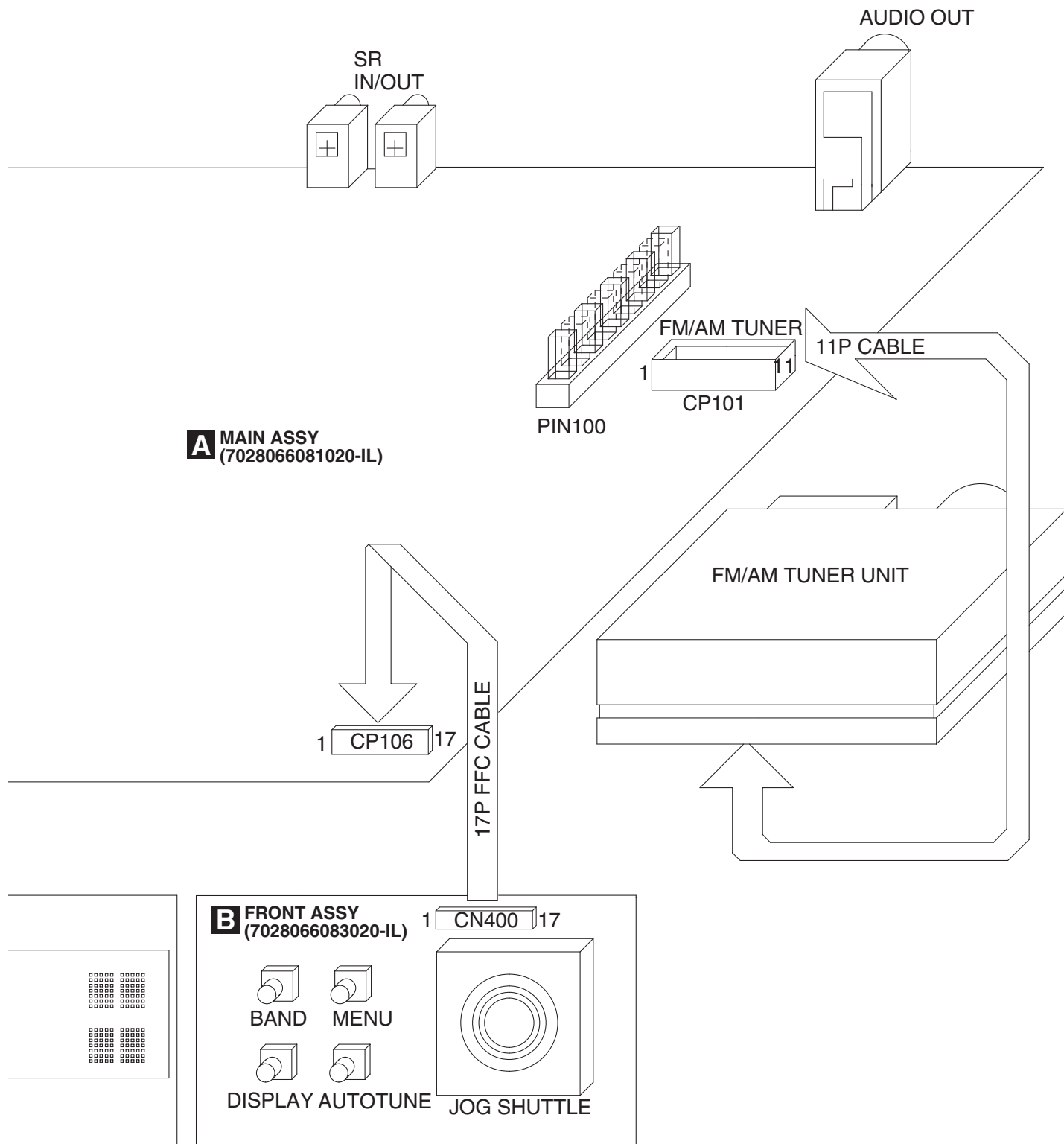


F-F3-J

4. BLOCK DIAGRAM

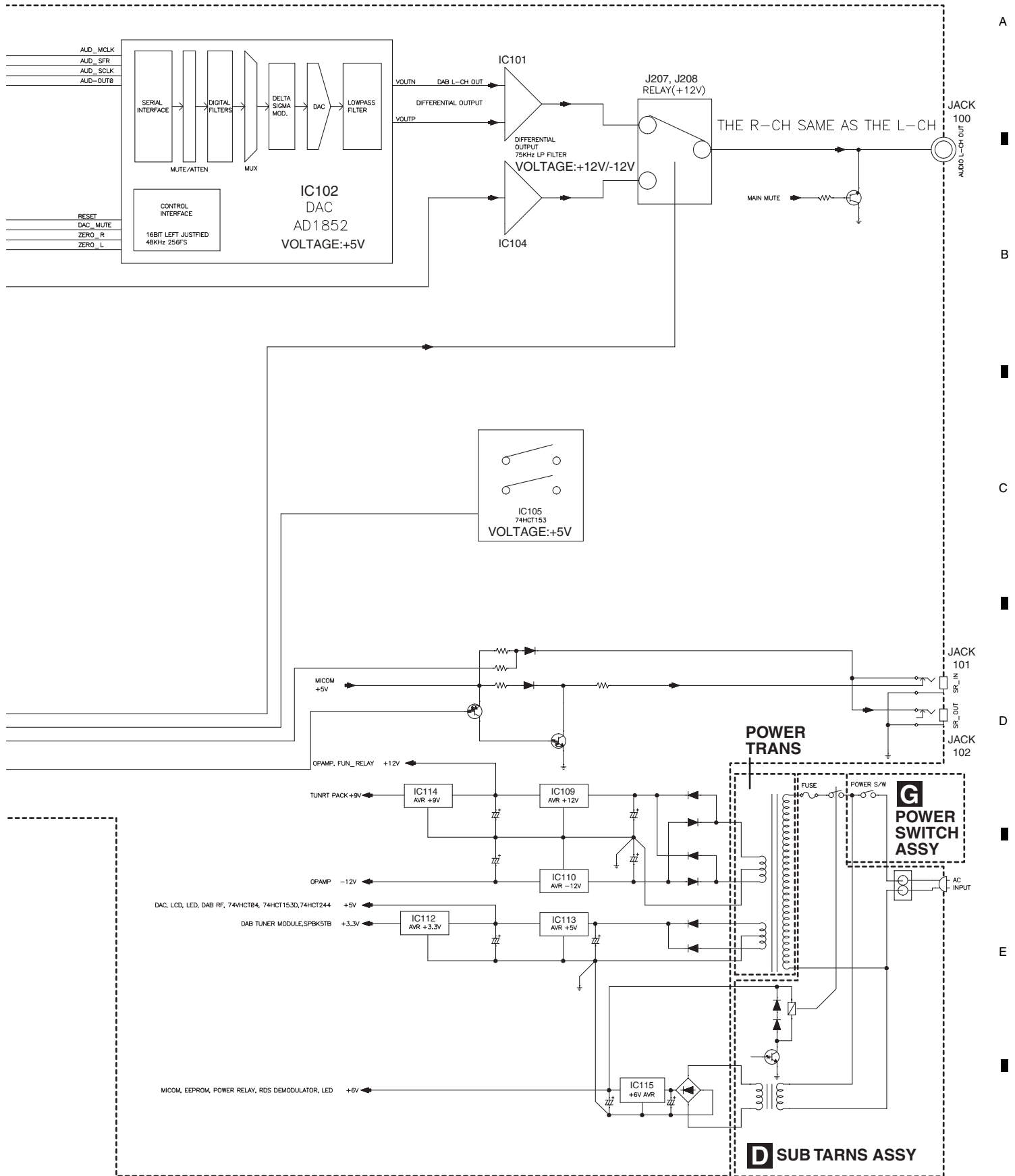
4.1 OVERALL WIRING DIAGRAM





△





5. DIAGNOSIS

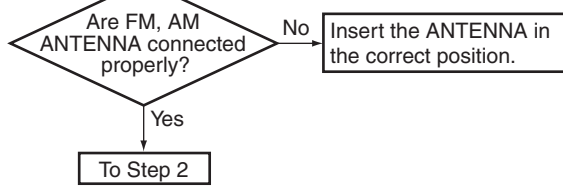
5.1 TROUBLESHOOTING

* Diagnostic method for no reception and no sound.

* For a signal flow, refer to block diagrams as well as circuit diagrams.

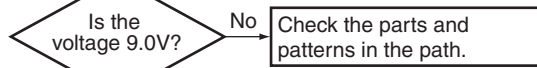
Step 1: ADVANCE CONNECTION CHECK

Confirm the following items before checking.

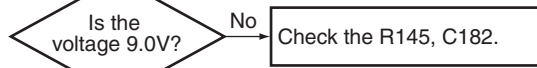


Step 2: TUNER POWER

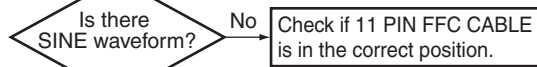
IC114. 3PIN(OUT) POWER IC-CONVERTER



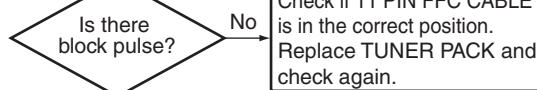
R145, C182 OPERATION CHECK



CP101. 4, 6PIN L/R OUTPUT

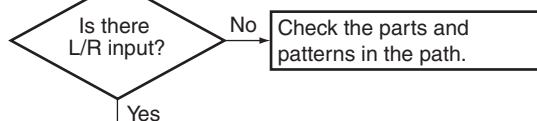


CP101. 8 - 10PIN TUNER DATA LINE

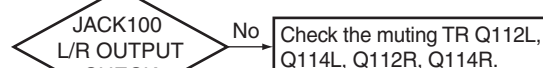
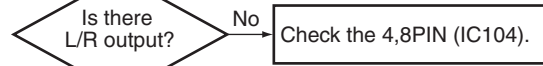


Step 3: TUNER L/R OUTPUT CHECK

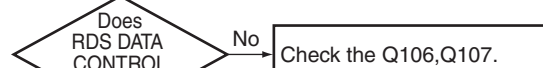
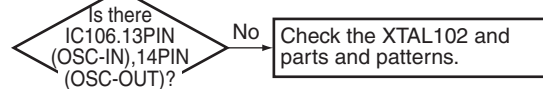
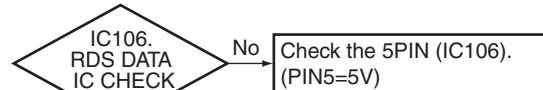
IC104. 2,3,5,6PIN INPUT CHECK



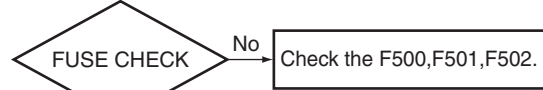
IC104. 1,7PIN OUTPUT CHECK



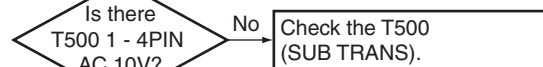
Step 4: RDS OUTPUT OPERATION CHECK



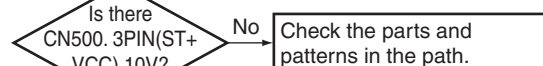
Step 5: POWER OPERATION CHECK

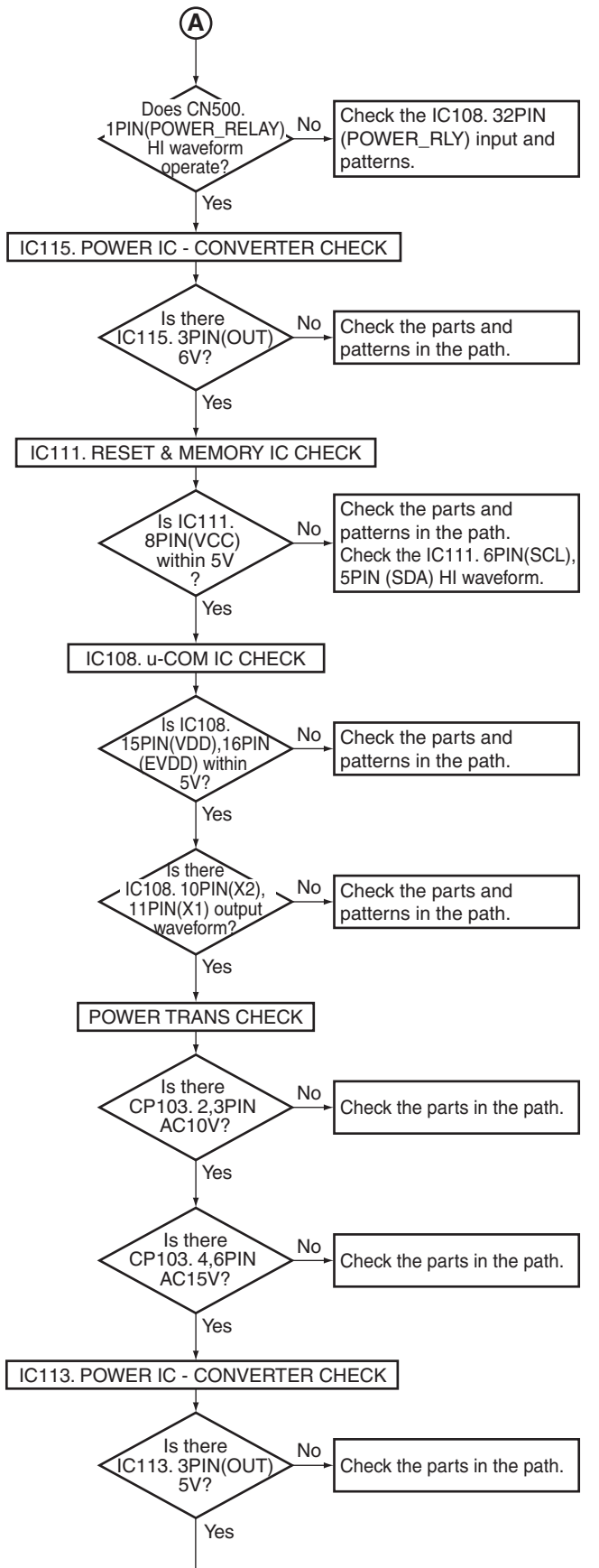


T500 AC POWER CHECK

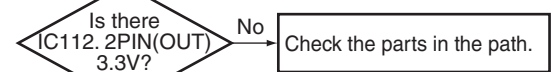


CN500 LINE CHECK

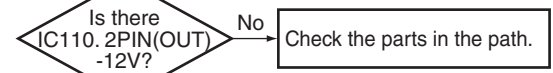




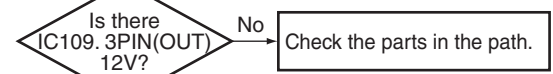
IC112. POWER IC - CONVERTER CHECK



IC110. POWER IC - CONVERTER CHECK

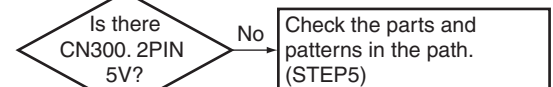
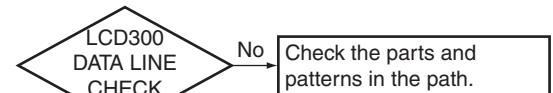


IC109. POWER IC - CONVERTER CHECK



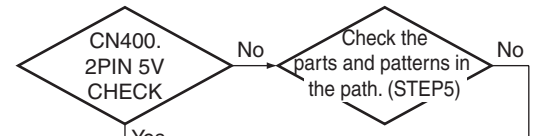
To Step 6

Step 6: LCD OPERATION CHECK



To Step 7

Step 7: FRONT OPERATION CHECK



Check if 17 PIN FFC CABLE
is in the correct position.

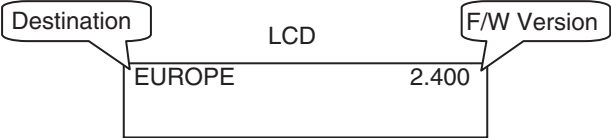
END

6. SERVICE MODE

6.1 TEST MODE

A

- 1 Press the "Power" button while holding the "DISPLAY" key on the main unit.
- 2 All LCDs will light up. Turn the Tuning knob by 1 click.
- 3 The following display will appear on the screen:



B

Destination	Display
F-F6-J/WYXCN5	DAB
F-F3-J/WYXCN5	EUROPE
F-F3/JJXCN	JAPAN
F-F3-S/RLFPWXCN	OTHER

- 4 Thereafter 2 and 3 will be displayed cyclically every time the Tuning knob is turned.

* The screen will go back to the STBY status if there is no operation for 60sec or longer.

C

D

E

F

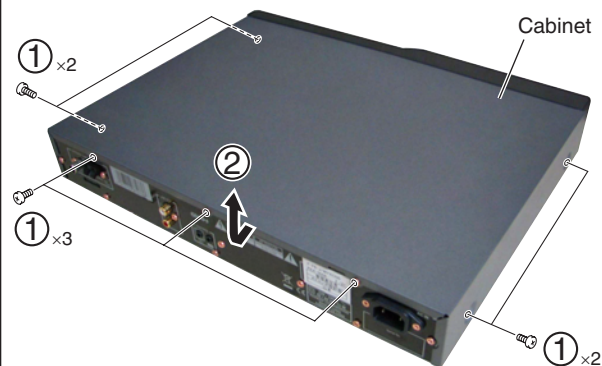
7. DISASSEMBLY

Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of PCB's

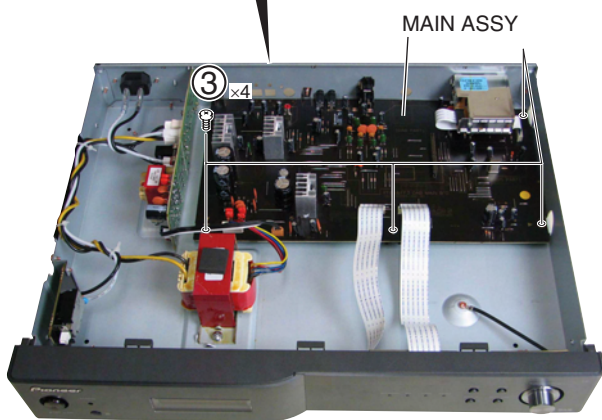
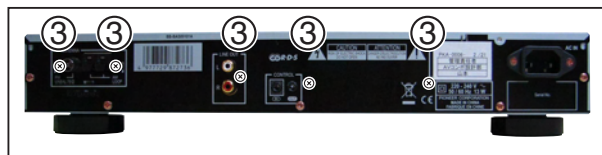
1 CABINET, MAIN ASSY

- ① Remove the seven screws.
- ② Remove the Cabinet.

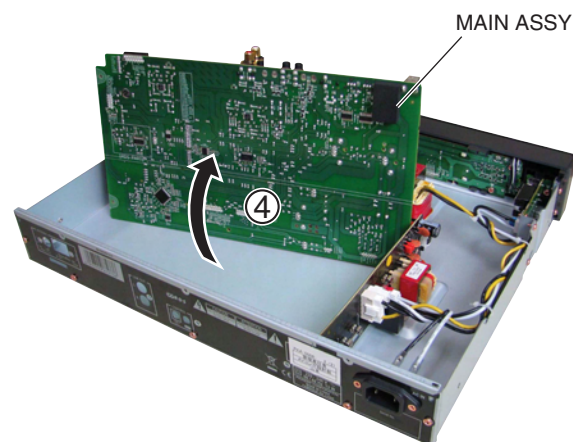


● Rear view

- ③ Remove the nine screws.



- ④ Raise the MAIN ASSY.



● Rear view

Diagnosis

8. EACH SETTING AND ADJUSTMENT

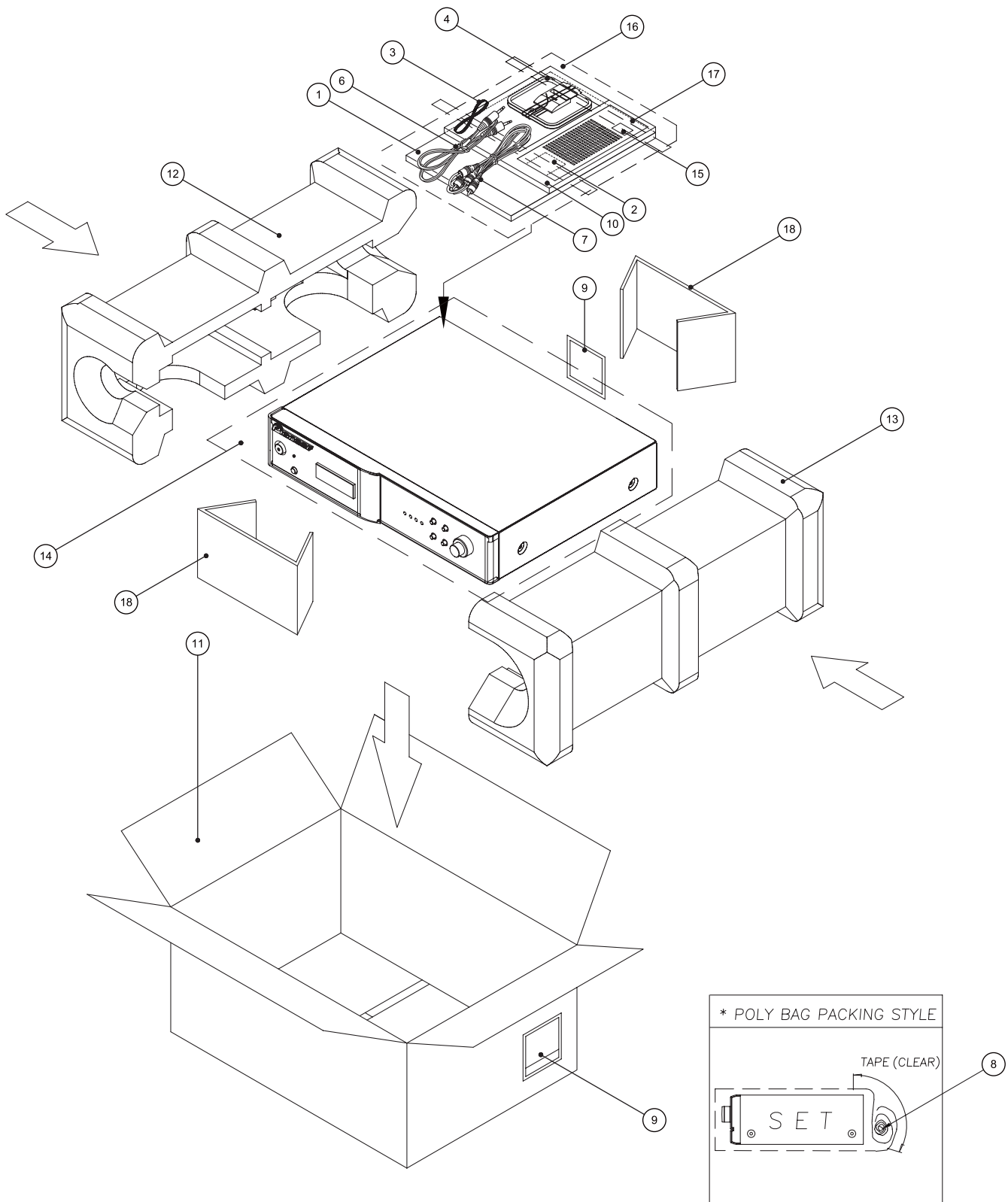
8.1 ADJUSTMENT

- There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
● Screws adjacent to ▼ mark on product are used for disassembly.
● For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING



(1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
NSP 1	Warranty Card	ARY7065
2	Battery Cover B	AZN8024
3	FM Antenna	E605000030050-IL
4	AM Loop Antenna	E605010130010-IL
5	• • • • •	
6	SR Control Cable	L063152010040-IL
7	RCA/phono Stereo Audio Cable	L063152020020-IL
⚠ 8	Power Cord	L068250160020-IL
NSP 9	Label	VRW1629
10	Operating Instructions (English/German/French/Italian/ Dutch/Spanish/Russian)	5707000000920-IL
11	Packing Case	6007211050010-IL
12	Cushion L	6230211994000-IL
13	Cushion R	6230212044000-IL
14	PE Sheet	6327040022012-IL
15	WEEE Label	ARW7322
NSP 16	Polyethylene Bag	6337000240010-IL
17	Remote Control Unit	8300751500010-IL
18	Pad	6240210560000-IL

1 2 3 4

9.2 EXTERIOR SECTION

A

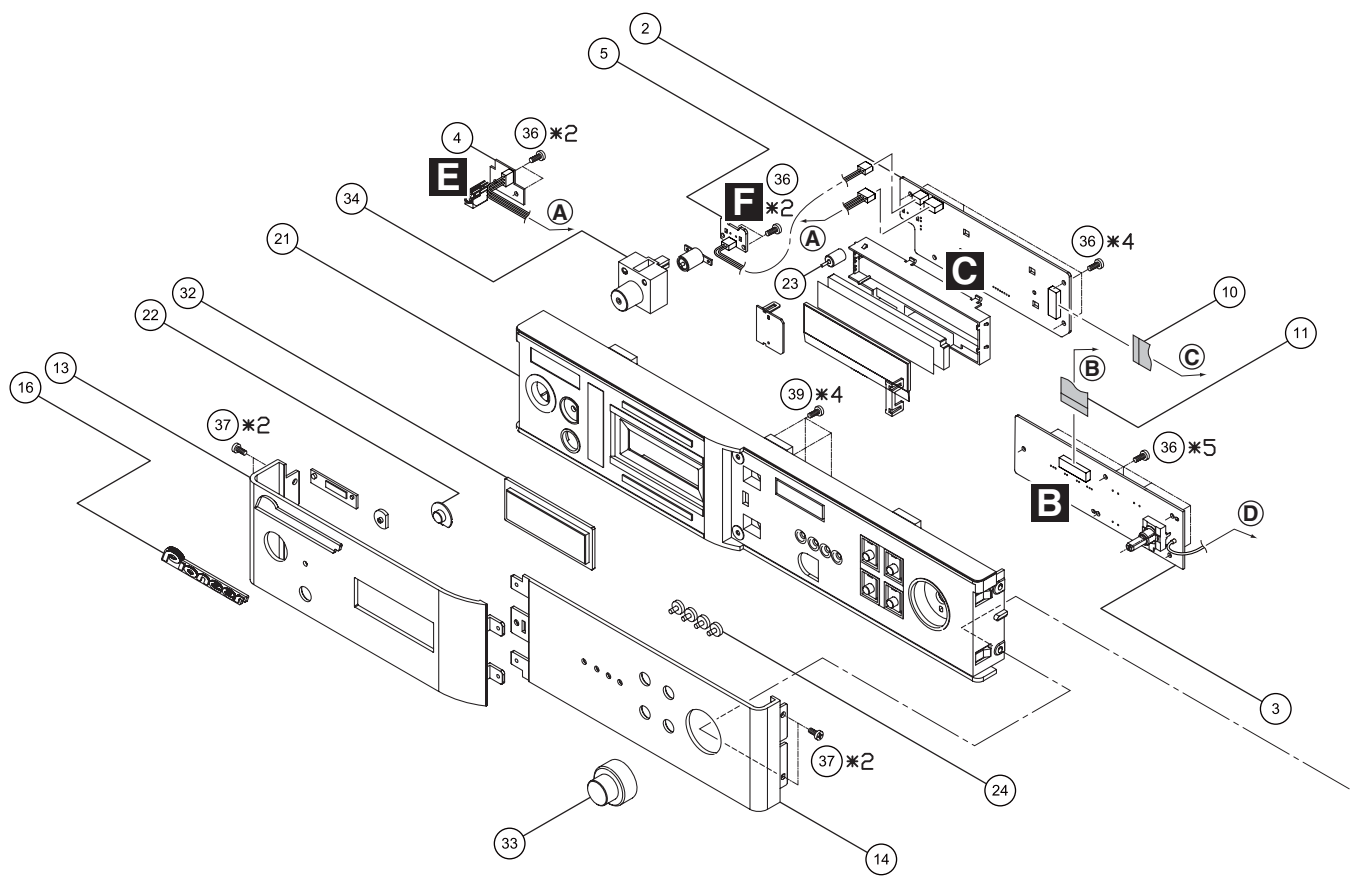
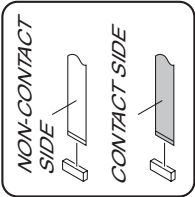
B

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(1) EXTERIOR SECTION PARTS LIST

	Mark No.	Description	Part No.
A	1	MAIN Assy	7028066081020-IL
	2	LCD Assy	7028066082020-IL
	3	FRONT Assy	7028066083020-IL
	4	REMOCON Assy	7028066084020-IL
	5	POWER LED Assy	7028066085020-IL
	6	SUB TRANS Assy	7028066091020-IL
	7	POWER SWITCH Assy	7028066092020-IL
	8	FM/AM Tuner Unit	AXX7248
	9	Flexible Cable (11P)	N712111243810-IL
	10	Flexible Cable (15P)	N712152643810-IL
B	11	Flexible Cable (17P)	N712172243810-IL
	⚠ 12	Power Transformer	8200570270040-IL
	13	Front Panel L F6 WY	ANB7453
	14	Front Panel R F3 WY	ANB7455
	⚠ 15	AC Inlet	G430000180010-IL
	16	PIONEER Badge	VAM1124
	NSP 17	Tape	1220210059000-IL
	18	Cabinet	3007210976000-IL
	NSP 19	Chassis	3200212176000-IL
	NSP 20	Chassis	3207212186100-IL
C	21	Frame	3217211561000-IL
	22	Lens	3710210683000-IL
	23	Lens	3710210693000-IL
	24	Lens	3710210763000-IL
	25	Insulator	4000210391000-IL
	26	Bracket	4010213226000-IL
	27	Cushion	4050210685030-IL
	28	Cushion	4050210725000-IL
	29	Cushion	4050211895000-IL
	30	Supporter	4070001601010-IL
D	31	Clamp (Binder)	4330040343010-IL
	32	Window	5070212303000-IL
	33	Knob Assy	5088211368000-IL
	34	Knob Assy	5088211391000-IL
	35	Screw	B020030066B10-IL
	36	Screw	B020030086B10-IL
	37	Screw	B020030086B11-IL
	38	Screw	B020030086F10-IL
	39	Screw	B020030106B10-IL
	40	Screw	B020030106B11-IL
E	41	Screw	B020030171B10-IL
	42	Screw	B028940081B10-IL
	43	Screw	1500040103P41-IL
	44	Cushion	4050211605000-IL
	⚠ 45	CN Wire	L000121020010-IL

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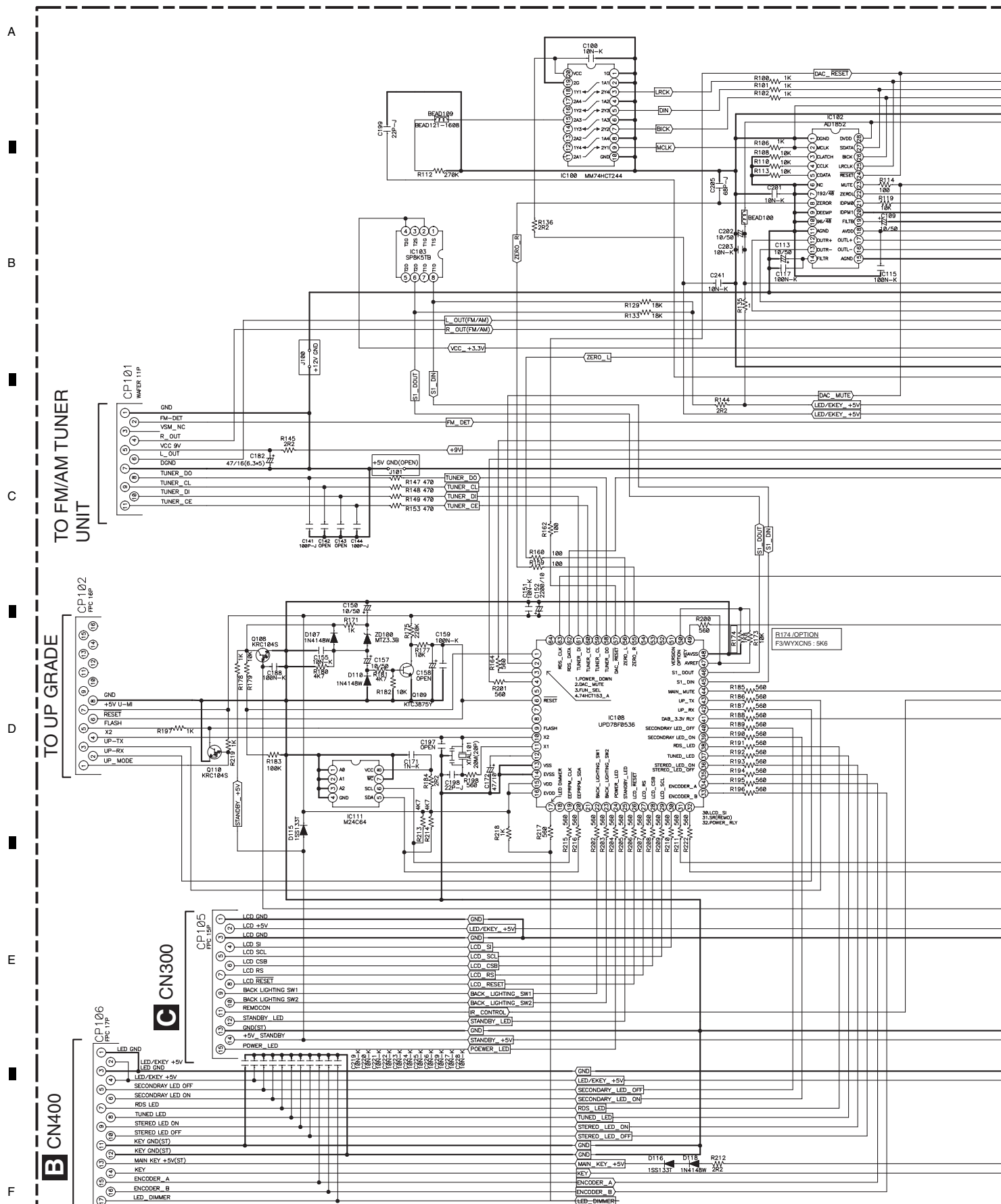
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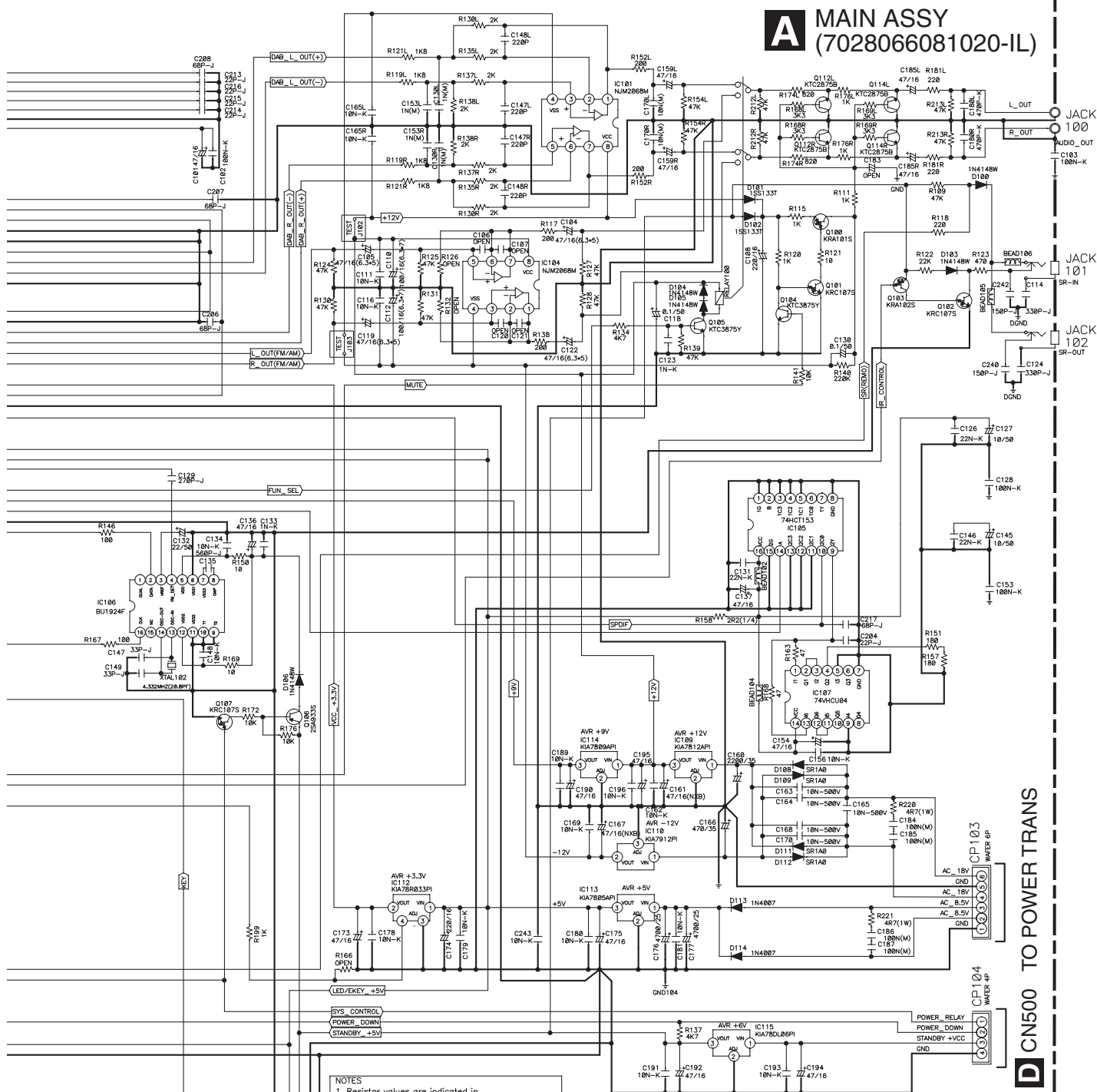
F-F3-J

10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY



A MAIN ASSY (7028066081020-IL)



NOTES

1. Resistor values are indicated in ohms unless otherwise specified
[k = 1,000 m = 1,000,000]
2. Capacitor values are indicated in microfarads unless otherwise specified.

[p = micro-microfarads]

3. : These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION

- Safety precaution to be followed during servicing
- 1) Since those parts marked with are critical parts for safety, use only the one described in the parts list
 - 2) Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

Schematic Diagram Parts List

J208	R105
BEAD106	L106
C180L	C1180
C180R	C2180
C185L	C1185
C185R	C2185
CP101	CN101
CP102	CN102
CP103	CN103
CP104	CN104
CP105	CN105
CP106	CN106
GND101	101
GND102	102
GND104	104
J203	R3203

Schematic Diagram Parts List

J208	R3208
JACK100	JA100
JACK101	JA101
JACK102	JA102
Q112L	Q1112
Q112R	Q2112
Q114L	Q1114
Q114R	Q2114
R168L	R1168
R168R	R2168
R169L	R1169
R169R	R2169
R174L	R1174
R174R	R2174
R176L	R1176
R176R	R2176

Schematic Diagram Parts List

R181L	R1181
R181R	R2181
R121L	R1212
R121R	R2212
R123L	R1123
R123R	R2123
XTAL101	X101
XTAL102	X102
ZD100	D1100

D CN500 TO POWER TRANS

A

B

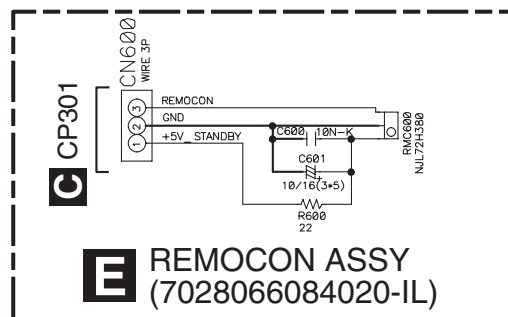
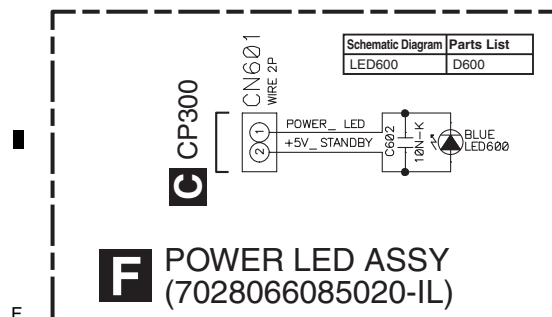
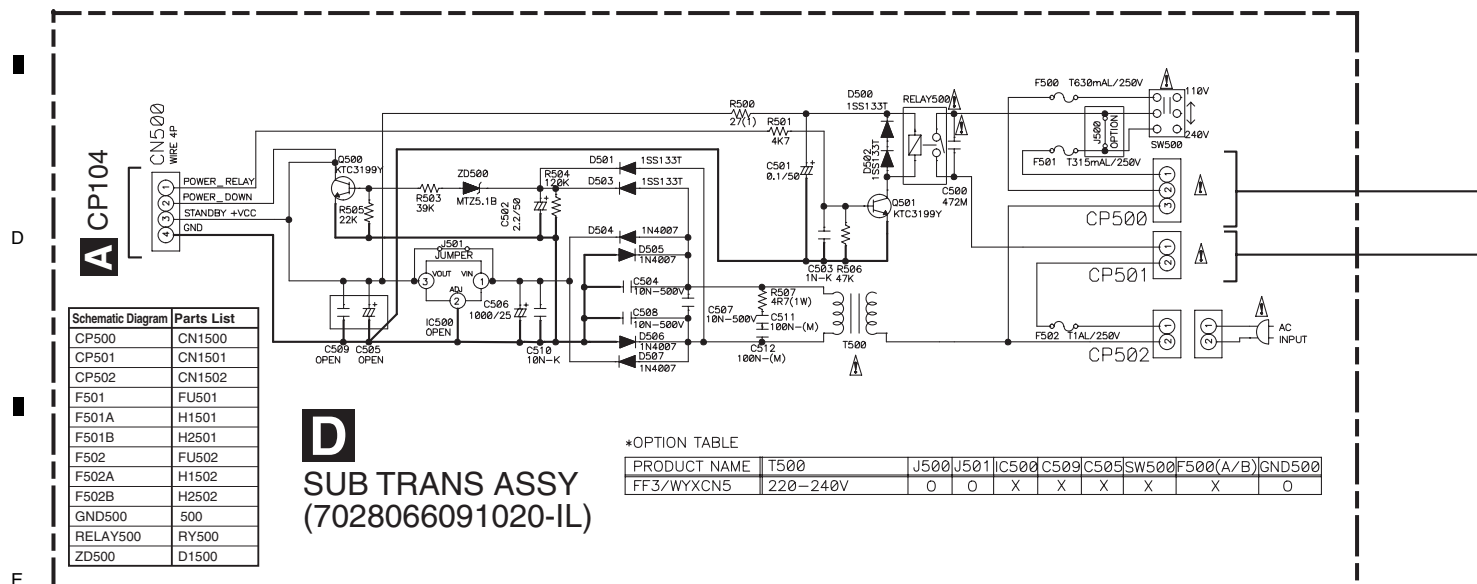
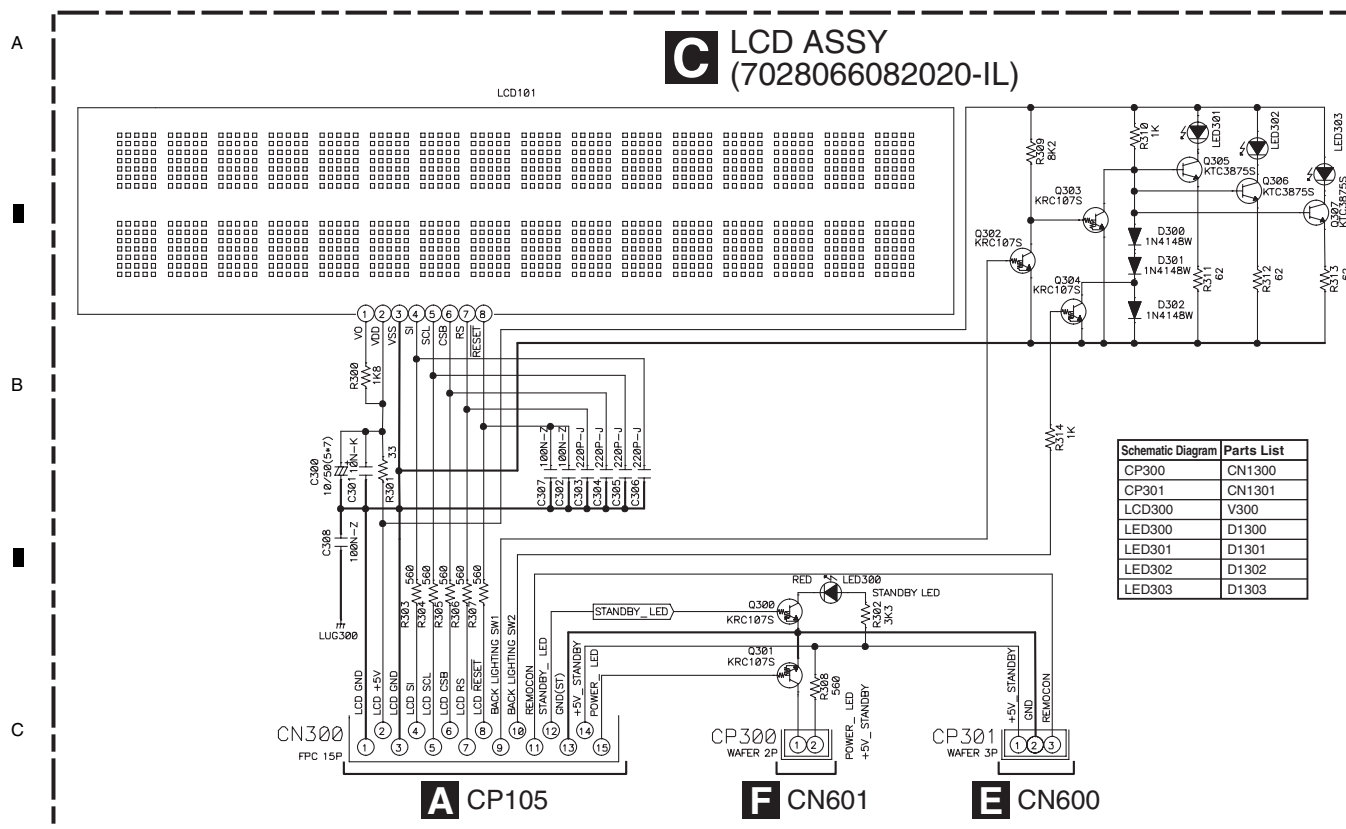
C

D

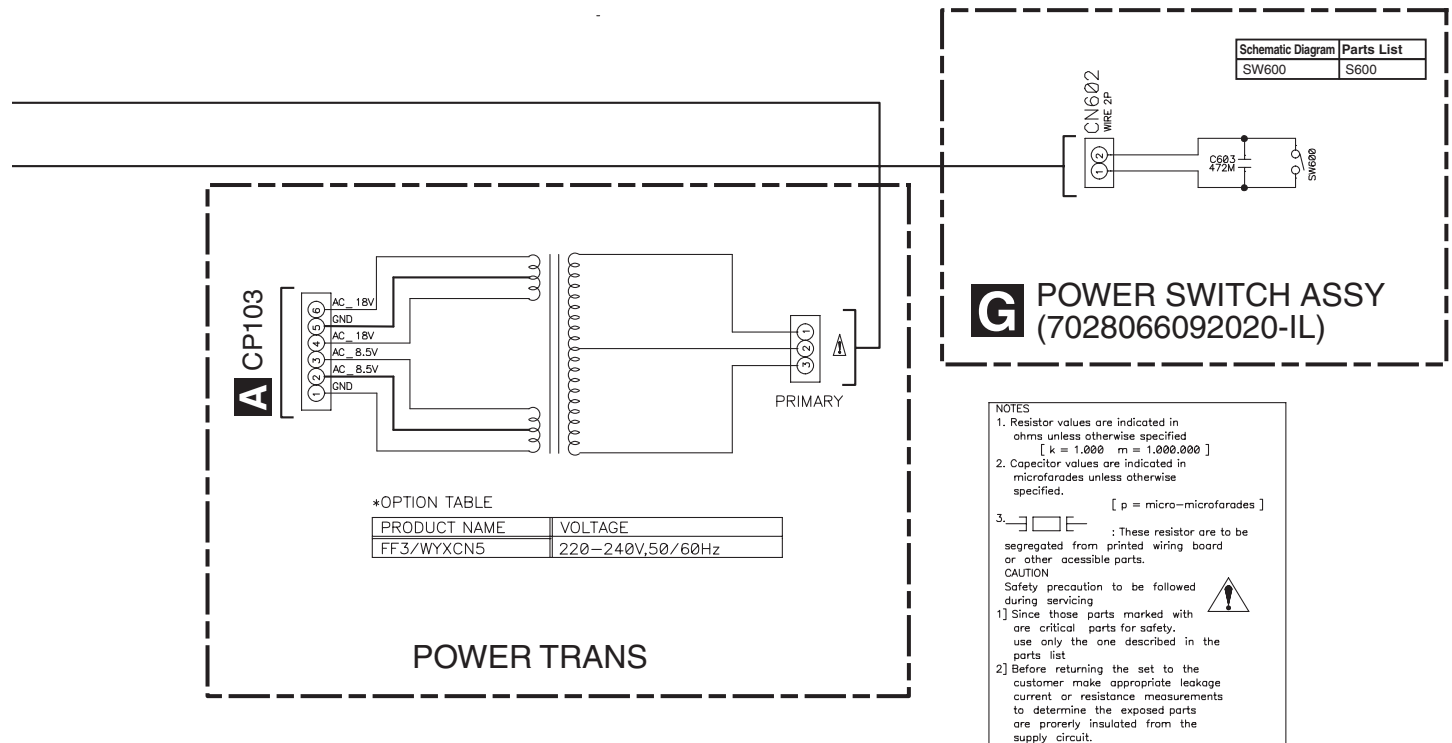
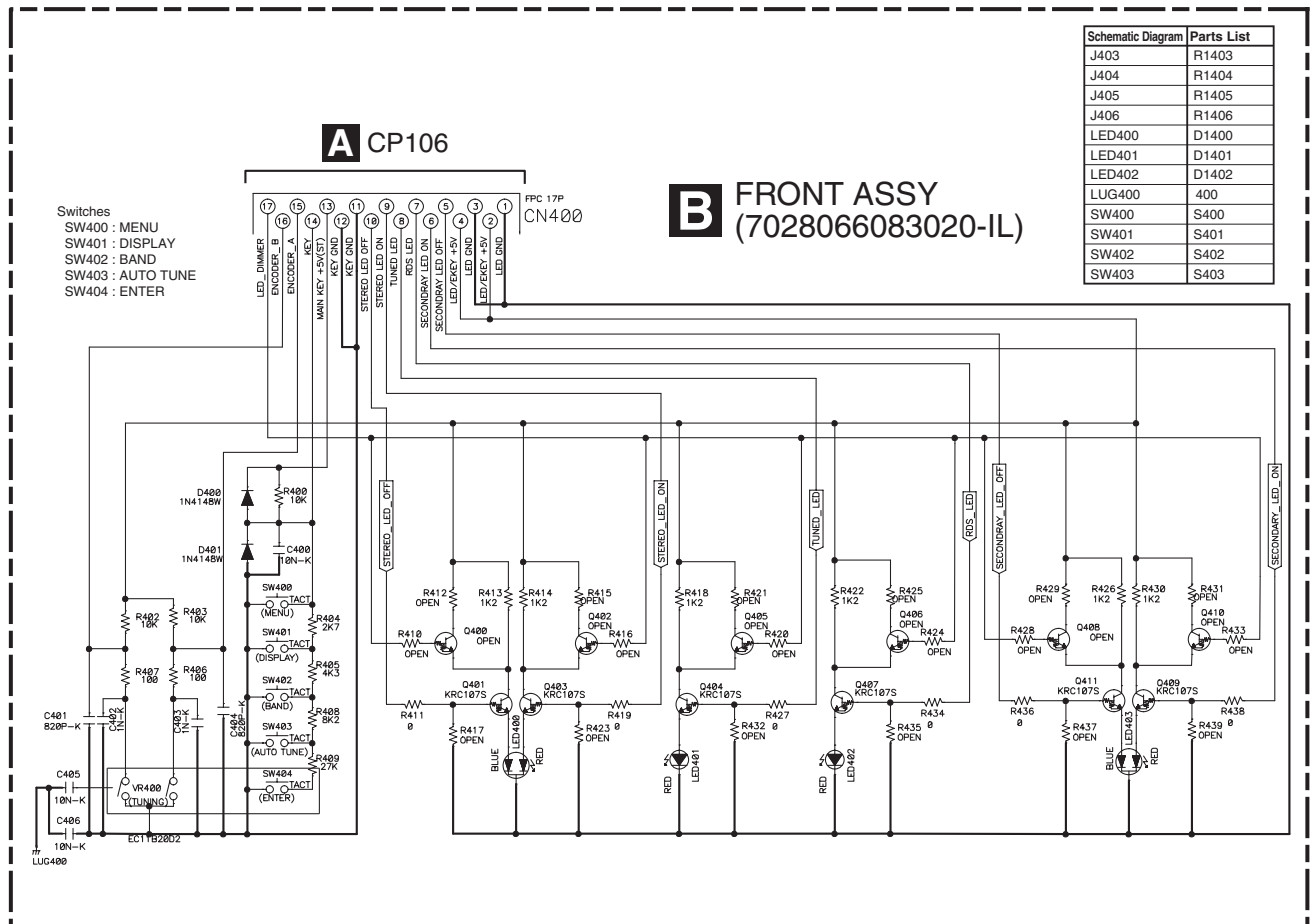
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F

10.2 LCD, FRONT, REMOCON, POWER LED, SUB TRANS and POWER SWITCH ASSYS



C D E F



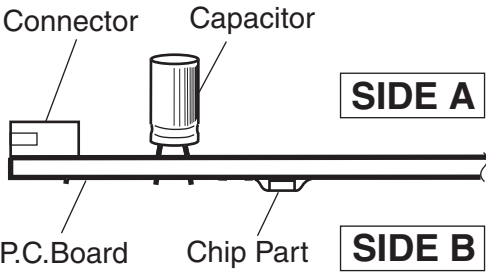
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



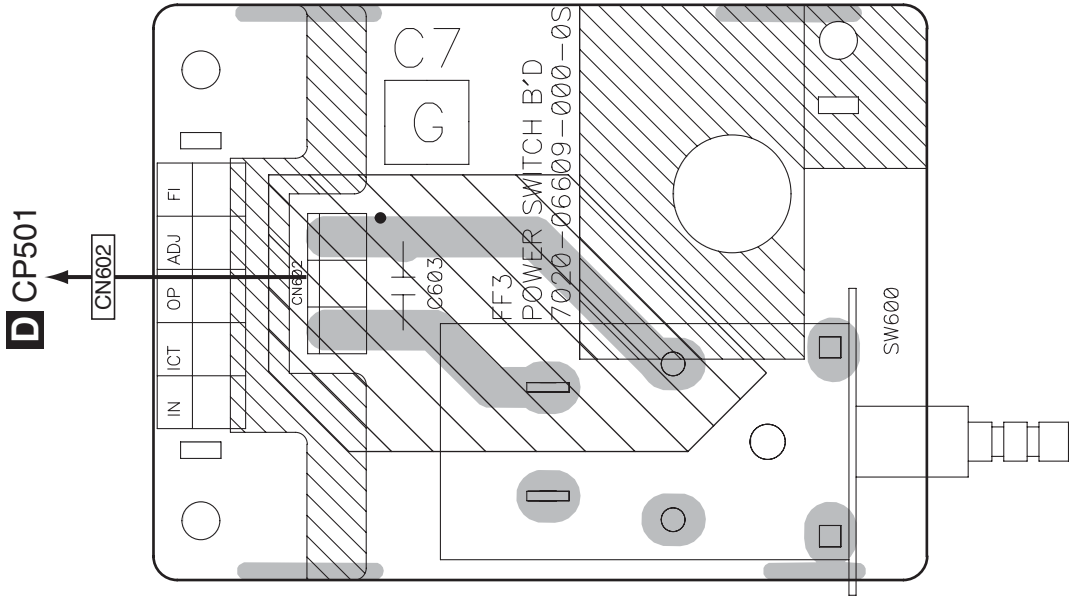
11.1 POWER SWITCH ASSY

SIDE A

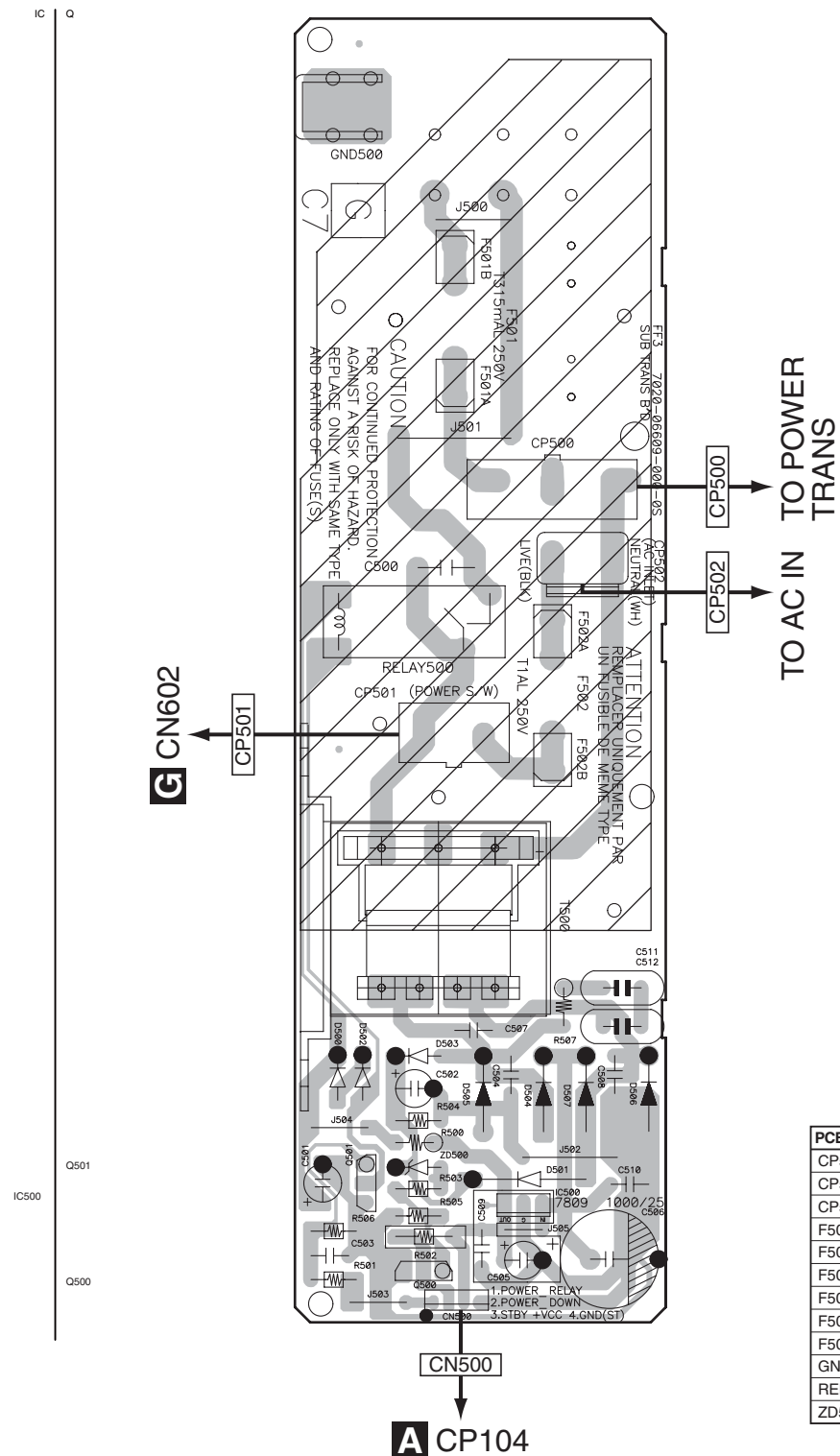
SIDE A

POWER SWITCH ASSY

PCB Diagram	Parts List
SW600	S600



D SUB TRANS ASSY



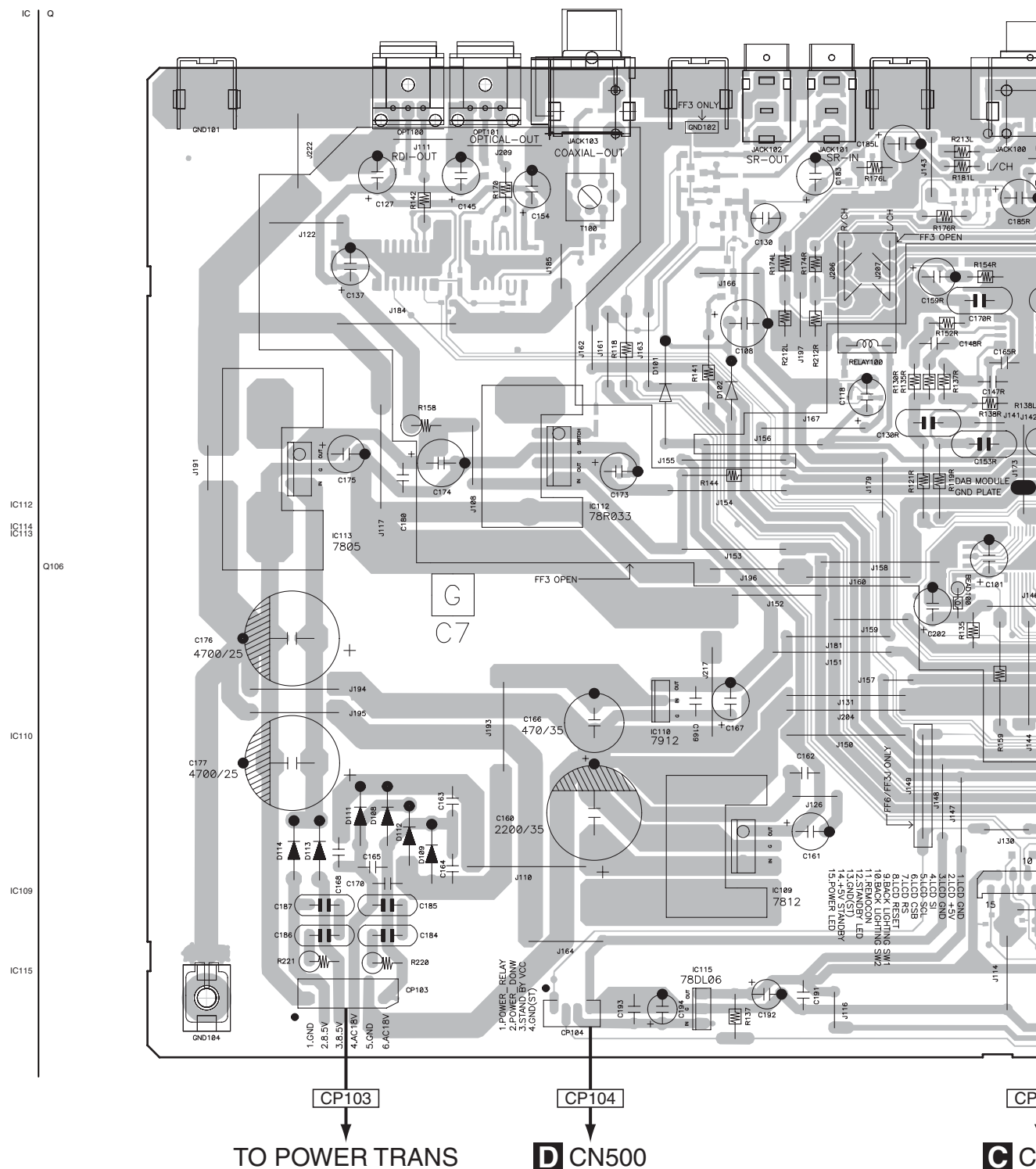
PCB Diagram	Parts List
CP500	CN1500
CP501	CN1501
CP502	CN1502
F501	FU501
F501A	H1501
F501B	H2501
F502	FU502
F502A	H1502
F502B	H2502
GND500	500
RELAY500	RY500
ZD500	D1500

SIDE A

A MAIN ASSY

PCB Diagram	Parts List
BEAD105	L105
BEAD106	L106
C180L	C1180
C180R	C2180
C185L	C1185
C185R	C2185
CP101	CN101
CP102	CN102
CP103	CN103

PCB Diagram	Parts List
CP104	CN104
CP105	CN105
CP106	CN106
GND101	101
GND102	102
GND104	104
J203	R3203
J208	R3208
JACK100	JA100



TO POWER TRANS

D CN500

C C

A

1

A

B

C

D

F

F



A

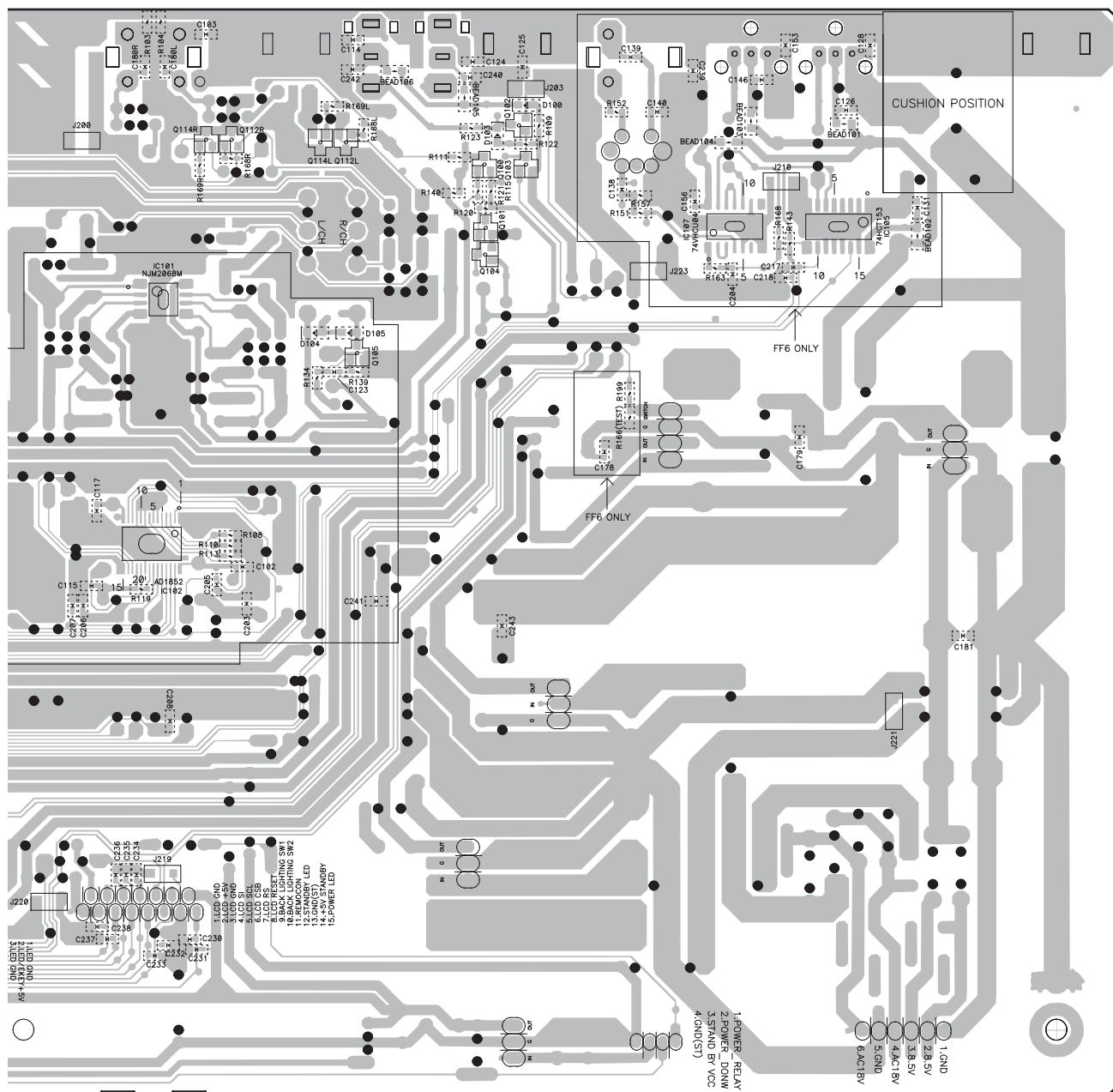
1

C

□

E

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CP103

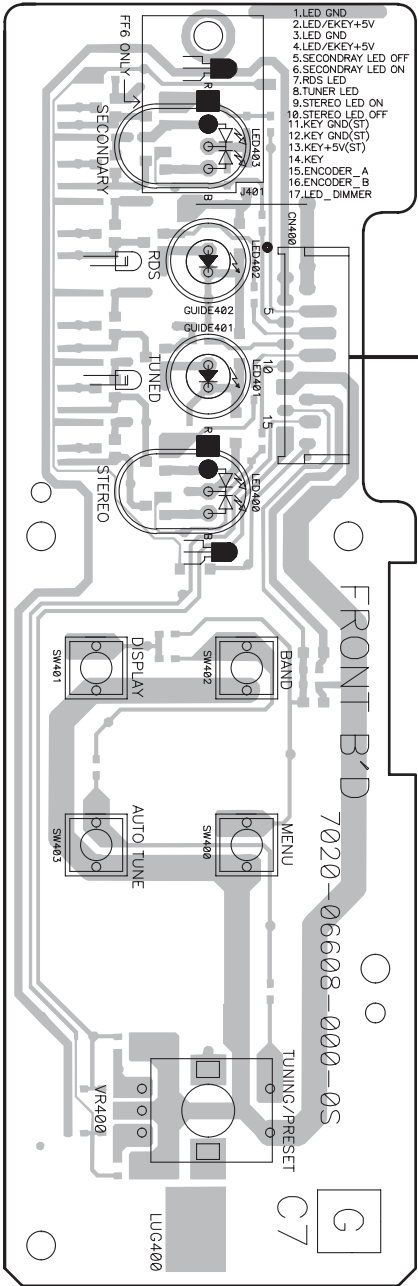
35

11.4 FRONT ASSY

SIDE A

SIDE A

B FRONT ASSY



PCB Diagram	Parts List
J403	R1403
J404	R1404
J405	R1405
J406	R1406
LED400	D1400
LED401	D1401
LED402	D1402
LUG400	400
SW400	S400
SW401	S401
SW402	S402
SW403	S403

SIDE B

SIDE B

A

B FRONT ASSY

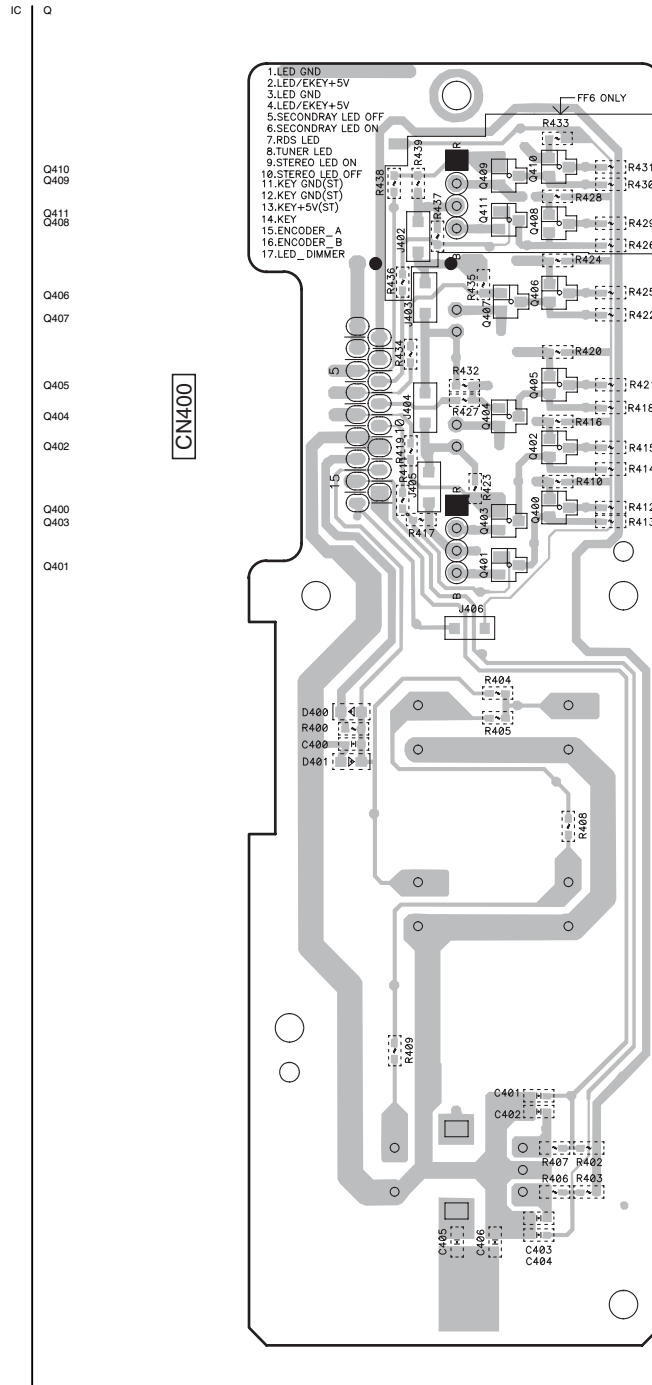
B

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F

**B****B**

37

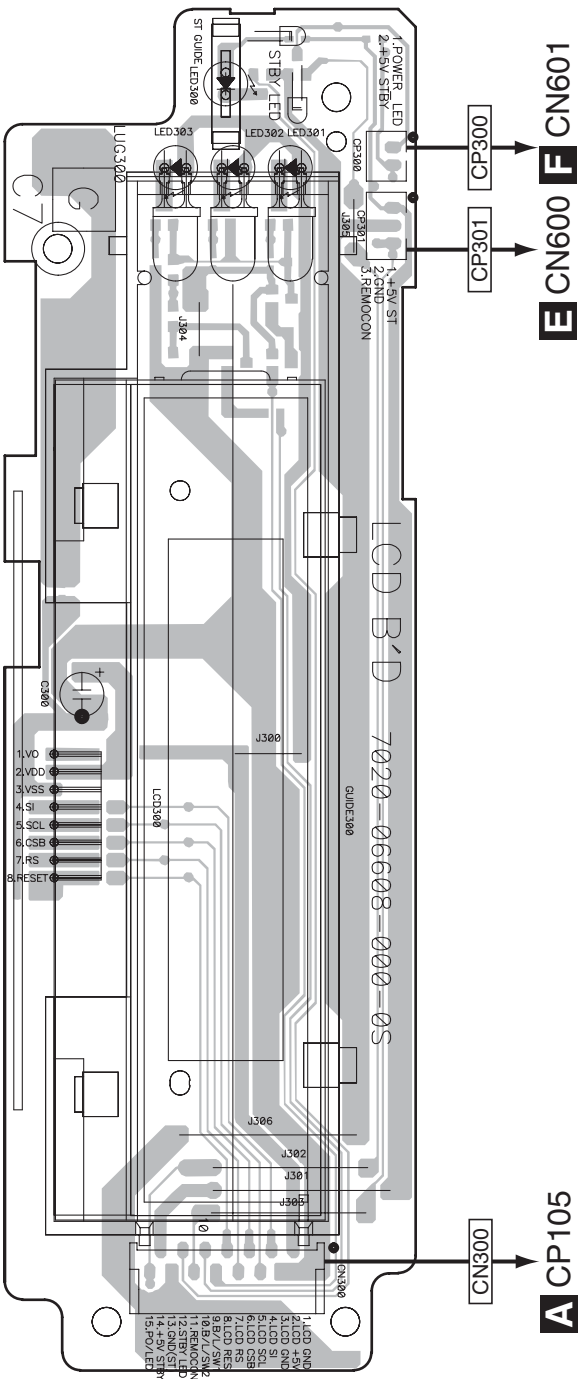
F-F3-J

11.5 LCD ASSY

SIDE A

SIDE A

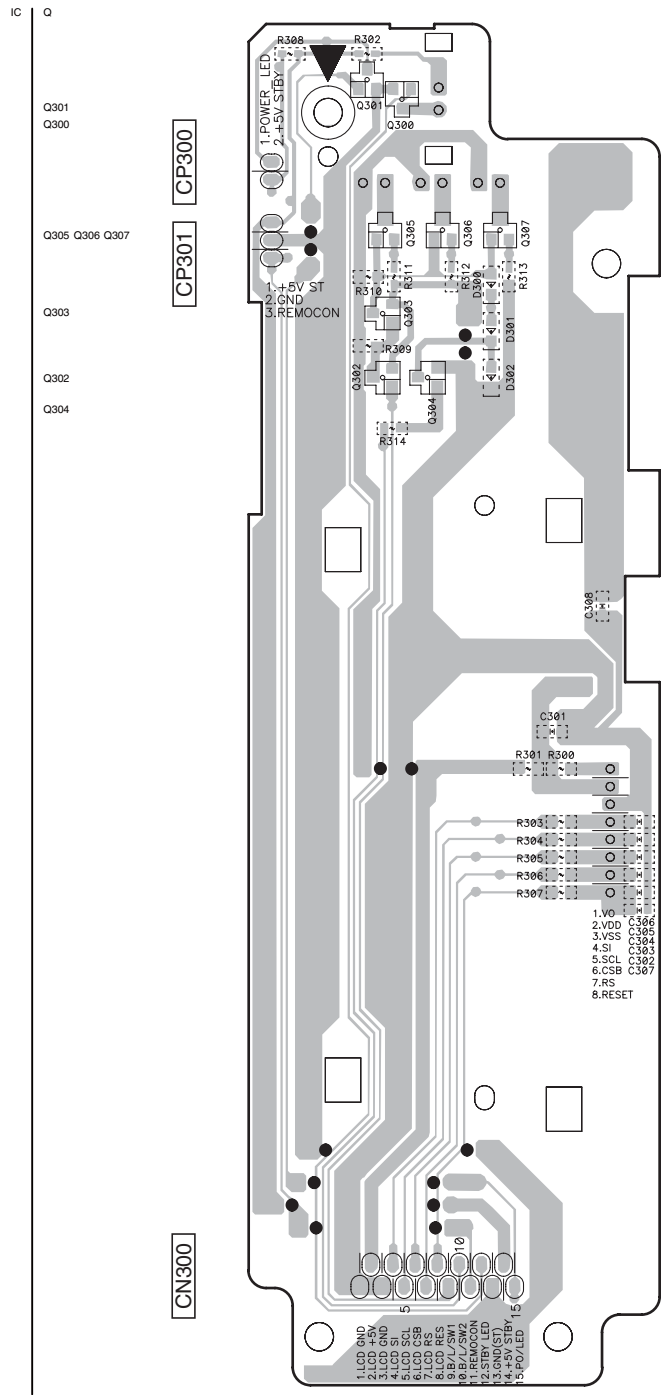
LCD ASSY



SIDE B

SIDE B

C LCD ASSY



C

C

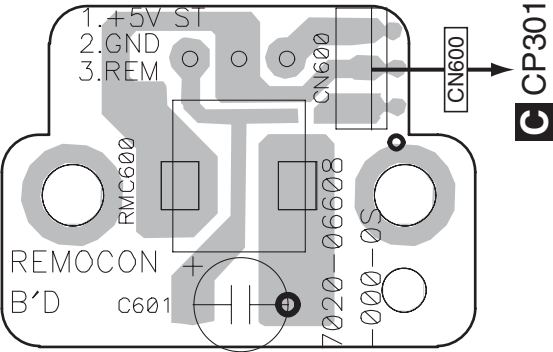
F-F3-J

11.6 REMOCON and POWER LED ASSYS

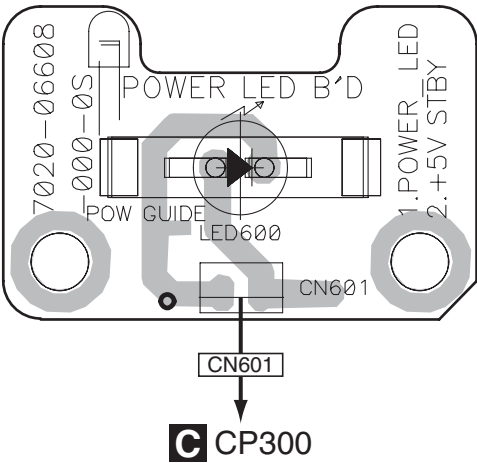
SIDE A

SIDE A

E REMOCON ASSY



F POWER LED ASSY

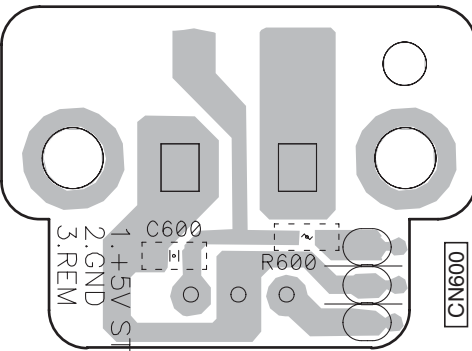


PCB Diagram	Parts List
LED600	D600

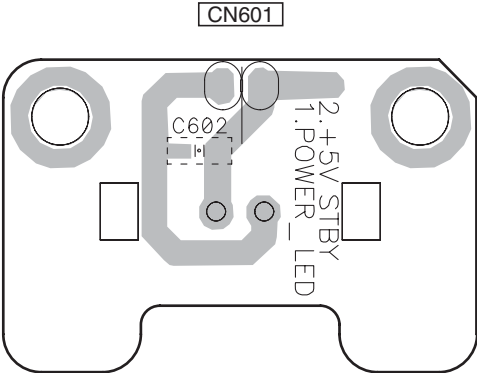
SIDE B

SIDE B

E REMOCON ASSY



F POWER LED ASSY



E F

E F

12. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

$560\ \Omega \rightarrow 56 \times 10^1 \rightarrow 561 \dots\dots\dots RD1/4PU\boxed{5}\boxed{6}\boxed{1}J$
 $47k\ \Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU\boxed{4}\boxed{7}\boxed{3}J$
 $0.5\ \Omega \rightarrow R50 \dots\dots\dots RN2H\boxed{R}\boxed{5}\boxed{0}K$
 $1\ \Omega \rightarrow 1R0 \dots\dots\dots RS1P\boxed{1}\boxed{R}\boxed{0}K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

$5.62k\ \Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC\boxed{5}\boxed{6}\boxed{2}\boxed{1}F$

Mark No. Description

Part No.

LIST OF ASSEMBLIES

NSP	1..PCB TOTAL ASSY	7025HU0701020-IL
	2..MAIN ASSY	7028066081020-IL
	2..LCD ASSY	7028066082020-IL
	2..FRONT ASSY	7028066083020-IL
	2..REMOCON ASSY	7028066084020-IL
	2..POWER LED ASSY	7028066085020-IL
NSP	1..PCB TOTAL ASSY	7025HU0701021-IL
	2..SUB TRANS ASSY	7028066091020-IL
	2..POWER SWITCH ASSY	7028066092020-IL
	1..FM/AM TUNER UNIT	AXX7248

Mark No. Description

Part No.

CN 101	CONNECTOR	L131111100010-IL
CN 102	CONNECTOR	L131837001610-IL
CN 103	CONNECTOR(6P)	L102526700600-IL
CN 104	CN.WAFER 2.0MM	L101220040000-IL
CN 105	CONNECTOR	L131111500010-IL
CN 106	CONNECTOR	L131111700010-IL
0	HEAT SINK	2120210318100-IL
0	HEAT SINK	2120044288010-IL
101,102	SHIELD	3070045526010-IL
104	TERMINAL	3790040886000-IL

Mark No. Description

Part No.

A MAIN ASSY SEMICONDUCTORS

IC 104	J121206800020-IL
IC 106	J124192400010-IL
IC 108	J020780536000-IL
IC 109	J126781200040-IL
IC 110	J126791200060-IL
IC 111	J000240640010-IL
IC 113	J126780500110-IL
IC 114	J126780900020-IL
IC 115	J126780600140-IL
Q 100	J520010100010-IL
Q 101,102,107	J522107S00210-IL
Q 103	J520010200210-IL
Q 104,109	J5223875Y0210-IL
Q 106	J5000933S0050-IL
Q 108,110	J522104S00210-IL
Q 1112,1114,2112,2114	J5222875B0010-IL
D 100,103,106,107	K005041480020-IL
D 101,102,115,116	K000013300520-IL
D 108,109,111,112	K120100400520-IL
D 110,118	K005041480020-IL
D 113,114	K000400700010-IL
D 1100	K06003R344520-IL

RESISTORS

R 117,138	RD1/4PU201J
R 118,1181,2181	RD1/4PU221J
R 124,125,127,128	RD1/4PU473J
R 130,131,1212,1213	RD1/4PU473J
R 137	RD1/4PU472J
R 141,177	RD1/4PU103J
R 145	RD1/4PU2R2J
R 150,169	RD1/4PU100J
R 175	RD1/4PU224J
R 219,1176,2176	RD1/4PU102J
R 220,221	C0604R7065050-IL
R 1174,2174	RD1/4PU821J
R 2212,2213	RD1/4PU473J
R 3203,3208	RS1/8S0R0J
Other Resistors	RS1/16S###J

CAPACITORS

C 103,114,188	D011104577160-IL
C 104,105,119,122	D040470083070-IL
C 108,174	D040221083090-IL
C 110,112	D040101083060-IL
C 111,116,191,193	D004103277050-IL
C 124,134,148,151	D011103777160-IL
C 125,171	D011102777160-IL
C 129	D010271167160-IL
C 130	D042R10087050-IL
C 132	D040220087060-IL
C 133	D004102277050-IL
C 135	D010561167160-IL
C 136,161,175,190	D040470083080-IL
C 141,144	D010101167160-IL
C 147,149	D010330167160-IL
C 150,157	D040100087070-IL

MISCELLANEOUS

L 105,106 COIL CHIP	7611010000020-IL
JA 100 TER,RCA 2PIN	G601207AEG02-IL
JA 101,102 JACK,D3.5	G401PJ3080100-IL
X 101 RESONATOR,CERAMIC(20MHz)	E830200010010-IL
X 102 CRYSTAL(4.332MHz)	E800433200100-IL

Mark No. Description**Part No.**

C 152
C 155,179,181,189
C 159
C 160

D040222082020-IL
D011103777160-IL
D005104597530-IL
D040222085020-IL

C 162,169,180
C 163-165,168,170
C 166
C 167
C 172

D020103167050-IL
D00410359D050-IL
D040471085020-IL
D040470083050-IL
D040470082060-IL

C 176,177
C 182
C 184-187
C 192,194,195,1185
C 196

D040472084020-IL
D040470083070-IL
D020104167060-IL
D040470083080-IL
D011103777160-IL

C 198
C 1180,2180
C 2185

D010220167160-IL
D011471767160-IL
D040470083080-IL

B FRONT ASSY SEMICONDUCTORS

Q 401,403,404,407
D 400,401
D 1400
D 1401,1402

J522107S00210-IL
K005041480020-IL
K500052600040-IL
K500052009010-IL

MISCELLANEOUS

VR 400 SW,ENCODER
S 400-403 SWITCH
CN 401 CN.FPC 1.25MM
400 RING,TER WIRE

G121112020010-IL
G180000270010-IL
L131101700010-IL
8410121010060-IL

RESISTORS

R 1403-1406
Other Resistors

RS1/8S0R0J
RS1/16S###J

CAPACITORS

C 400,405,406
C 401,404
C 402,403

D011103777160-IL
D011821777160-IL
D011102777160-IL

C LCD ASSY SEMICONDUCTORS

Q 300-304
Q 305-307
D 300-302
D 1300
D 1301-1303

J522107S00210-IL
J522038750210-IL
K005041480020-IL
K500032000090-IL
K500059000011-IL

MISCELLANEOUS

V 300 DISPLAY,LCD
CN 300 CN.FPC 1.25MM
CN 1300 CN.WAFER 2.0MM
CN 1301 CONNECTOR(3P)
O STOPPER

K550727700010-IL
L131101500010-IL
L101220020000-IL
L101220030000-IL
4380210081000-IL

RESISTORS

All Resistors

RS1/16S###J

Mark No. Description**Part No.****CAPACITORS**

C 300
C 301
C 302,307,308
C 303-306

D040100087080-IL
D011103777160-IL
D011104577160-IL
D010221167160-IL

D SUB TRANS ASSY SEMICONDUCTORS

Q 500,501
D 500-503
D 504-507
D 1500

J5023199Y0010-IL
K000013300520-IL
K000400700010-IL
K06005R144520-IL

MISCELLANEOUS

H 1501,1502,2501 HOLDER,FUSE CLIP
H 2502 HOLDER,FUSE CLIP
⚠ RY 500 RELAY
⚠ T 500 POWER TRANS
CN 500 CN,WIRE

G645000050010-IL
G645000050010-IL
G680090502010-IL
8200280150460-IL
L000121040110-IL

CN 1500 CONNECTOR
CN 1501 CONNECTOR
CN 1502 CONNECTOR
500 BRACKET

L108353280360-IL
L108353280280-IL
L108202000220-IL
4010210196000-IL
AEK1049

⚠ FU 501 FUSE(T315 mA)

⚠ FU 502 FUSE(T1 A)

AEK7073

RESISTORS

R 500
R 507
Other Resistors

C060027065050-IL
C0604R7065050-IL
RD1/4PU###J

CAPACITORS

C 500
C 501
C 502
C 503
C 504,507,508

D00847208H010-IL
D040R10087080-IL
D0402R2087160-IL
D004102277050-IL
D00410359D050-IL

C 506
C 510
C 511,512

D040102084070-IL
D004103277050-IL
D020104167060-IL

E REMOCON ASSY MISCELLANEOUS

CN 600 CN,WIRE

L000101032620-IL

RESISTORS

All Resistors

RS1/16S###J

CAPACITORS

C 600
C 601

D011103777160-IL
D040100083050-IL

F POWER LED ASSY SEMICONDUCTORS

D 600

K500036000080-IL

<u>Mark No.</u>	<u>Description</u>
-----------------	--------------------

Part No.

MISCELLANEOUS

CN 601 CN,WIRE
0 STOPPER

L000800022620-IL
4380210081000-IL

A

CAPACITORS

C 602

D011103777160-IL



POWER SWITCH ASSY

MISCELLANEOUS

S 600 SW,PUSH
CN 600 CN,WIRE

G000390130010-IL
L000281020030-IL

B

CAPACITORS

C 603

D00847208H010-IL

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.

C

D

E

F