

MAINTENANCE

“ CAUTION – THESE SERVICE INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.”

INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

- ★ Parts marked with * require longer delivery time.
- ★ All resistors are 1/4 watt, 5 % unless marked otherwise. Resistor values are in ohms (K=1,000 ohms, M=1,000,000 ohms).
- ★ All capacitor values are in microfarads (p=pico-farads)
- ★ \triangle Parts marked with this sign are safety critical components. They must always be replaced with identical components – refer to the TEAC Parts List and ensure exact replacement.
- ★ 0 dB is referenced to 1 V in this manual unless otherwise specified.
- ★ PC boards shown viewed from electro-parts side.

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1. LEVEL SETTINGS AND OPERATION CHECKS

1-1. MIC Trim (MIC IN → INSERT : Fig. 1)

Apply a nominal signal of 1 kHz, -57 dBm to the MIC IN jacks, and adjust the MIC Trims until the channel INSERT Send level reads -10 dBV

1-2. Mic Preamp Frequency Response (MIC IN → INSERT : Fig. 1)

When the MIC Trim is set for a -10 dBV INSERT Send level as in 1-1, the mic preamp should provide the following frequency response:

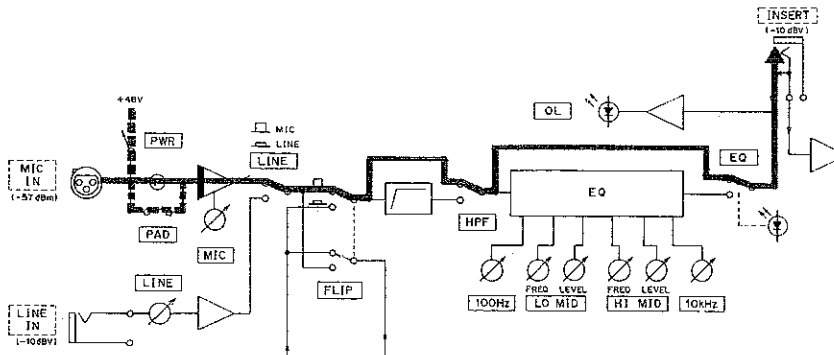
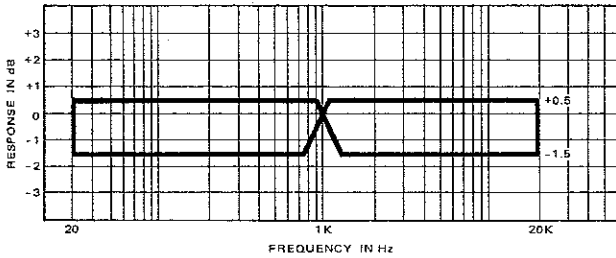


FIG. 1

1-3. PAD Function Check (Fig. 1)

With the same conditions as in 1-1, press PAD and check that the INSERT Send level drops 30 dB

1-4. Phantom Power Supply Check (Fig. 1)

Press the PWR switch, and check for +48 V DC between the following pins of the XLR MIC IN jacks:

- High (Hot) (Pin 3) and Shield (GND) (Pin 1)
- Low (Cold) (Pin 2) and Shield (GND) (Pin 1)

1-5. LINE Trim (LINE IN → INSERT : Fig. 2)

1. Press the LINE switch to connect the channel to the LINE IN jack.

2. Apply a nominal input level of 1 kHz, -10 dBV to the LINE IN jack, and adjust the LINE Trim for a -10 dBV INSERT Send level.

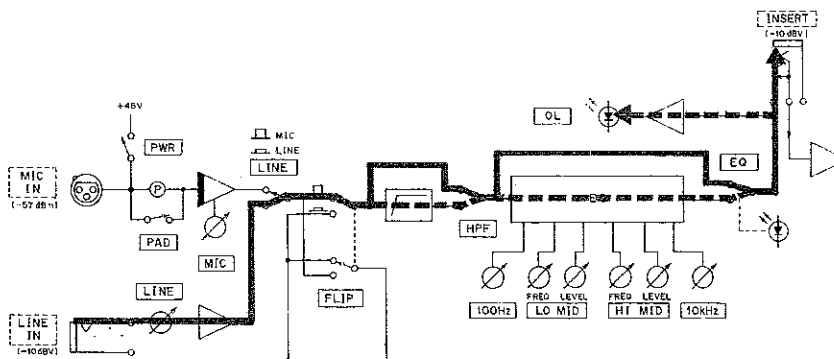
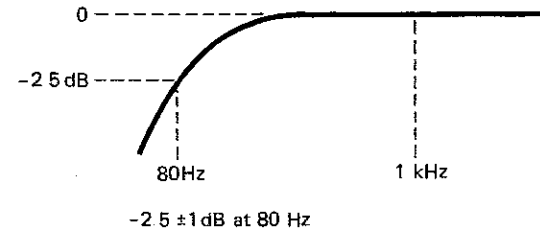


FIG. 2

1-6. HPF Effect Check (Fig. 2)

With the same conditions as in 1-5, press the HPF switch and check for the following:



1-7. Equalizer Characteristics (Fig. 2)

1. With the same conditions as in 1-5, press the EQ switch. The adjacent LED should light.
2. Switch the input signal frequency and turn the EQ controls fully left and right, to check that the INSERT Send level varies by the values indicated below with reference to the level at 1 kHz input.

Shelving type EQs
 10 kHz (HI)/100 Hz (LO): $\pm 13 \text{ dB}^{+1.5}_{-1.0} \text{ dB}$

Parametric EQs
 420 Hz - 13 kHz (LO MID)/
 42 Hz - 1.3 kHz (HI MID): $\pm 16 \text{ dB}^{+2.5}_{-2.0} \text{ dB}$

1-8. OL Lighting Level (Fig. 2)

Check that the OL indicator lights when a signal of 25 dB above nominal level (i.e., a +15 dBV signal) is applied to the LINE IN jack.

1-9. Input Fader (Channel INSERT → D OUT: Fig. 3)

1. Apply a nominal input signal of 1 kHz, -10 dBV to the INSERT jack, and adjust the input fader until the channel's D OUT level reads -10 dBV. Repeat the procedure for every input fader.
2. MUTE (Main) function check: Press the MUTE switch just above the channel fader, to check that the adjacent LED lights and the D OUT signal is cut off.

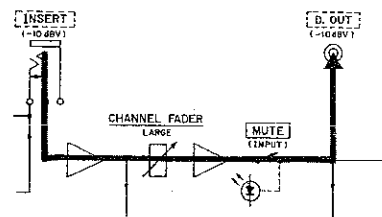


FIG. 3

1-10. Group Master Faders 1-8 (Channel INSERT → Group INSERT: Fig. 4)

1. With the same conditions as in 1-9, turn PAN fully left to ODD (L) and press the 1-2 assign switch to feed Group 1.
2. Adjust the Group 1 fader until the Group's INSERT Send level is -10 dBV

3. In a similar way, set the Group 2-8 faders.
4. When all the eight group master faders are correctly set, apply a nominal input signal of 1 kHz, -10 dBV to the INSERT jack of each channel, and check for a -10 dBV signal at the GRP OUT 1 jack.

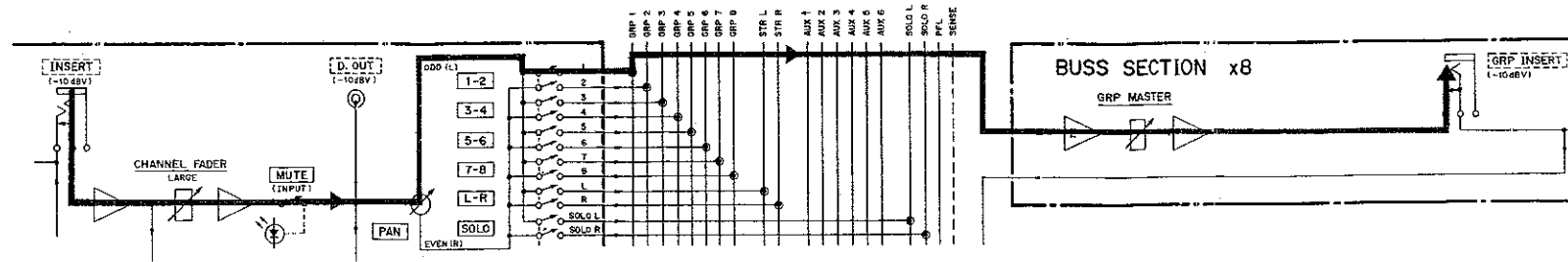
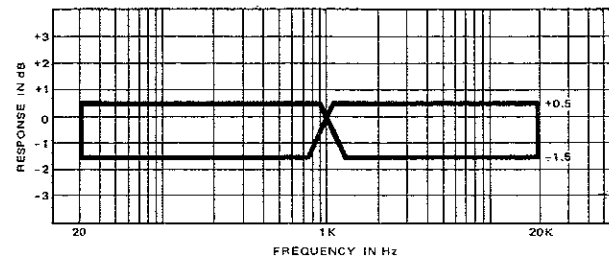


FIG. 4

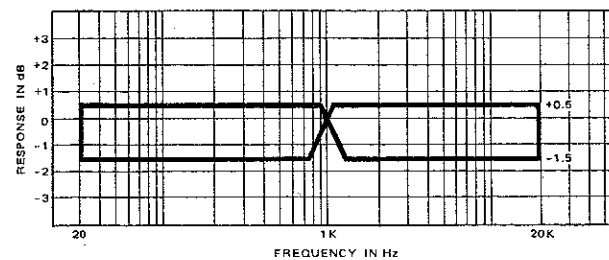
1-11. LINE IN to GROUP OUT Frequency Response

Specifications are as follows:

1. LINE IN 1 → GRP OUTS 1-8:



2. LINE IN 1 → GRP OUT 1:



1-12. STEREO Master Fader (Channel INSERT → STEREO INSERT: Fig. 5)

1. With the channel faders set to nominal position, turn the channel PAN fully left to ODD (L) and press the L-R assign switch to feed the stereo Left buss.
2. Apply a nominal signal of 1 kHz, -10 dBV to the channel INSERT jack, and adjust the STEREO master fader for a -10 dBV send level at the STEREO INSERT Left jack.
3. Then, turn the channel PAN fully right to EVEN (R), and check that the STEREO INSERT Right send out level is -10 dB ±2 dB.

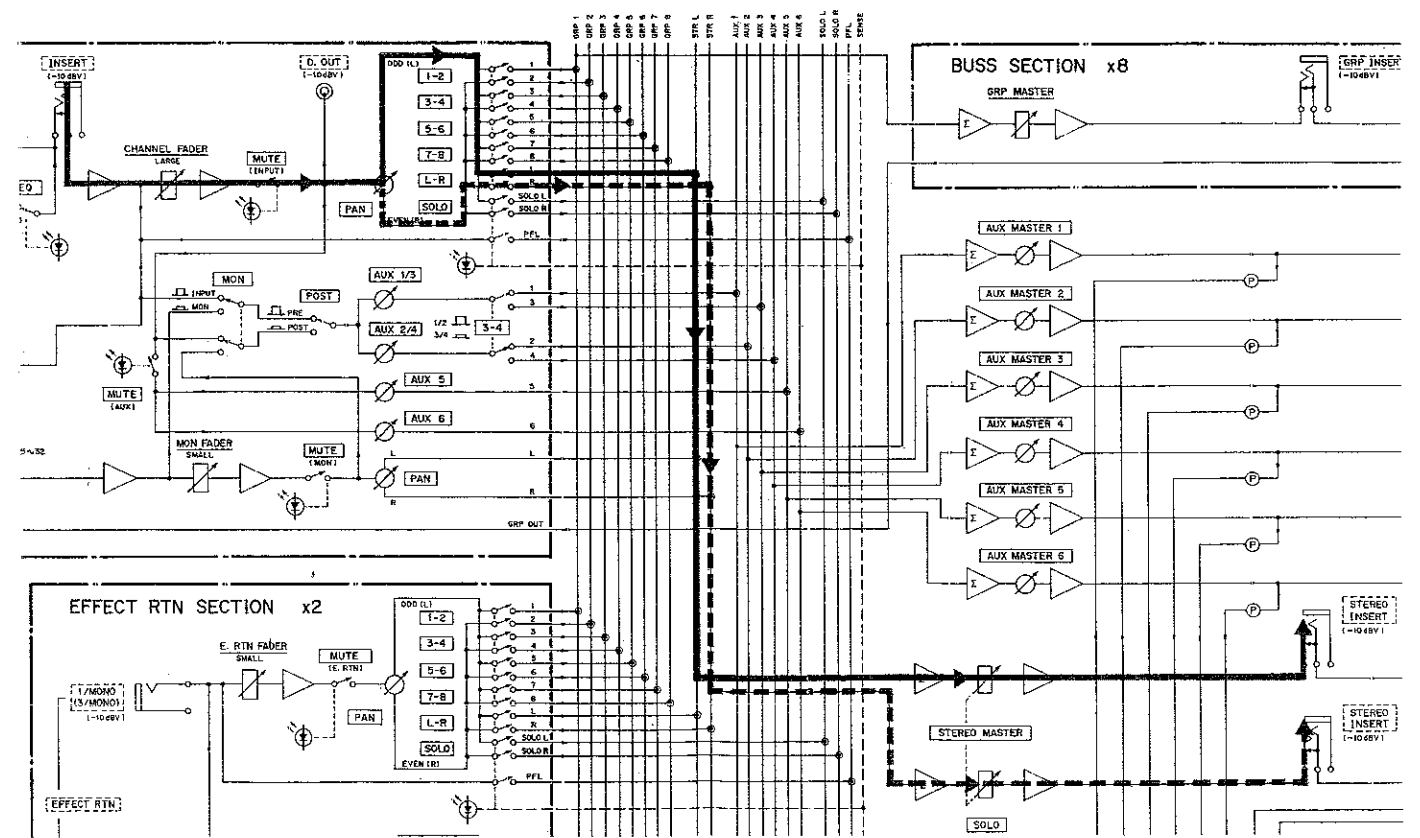
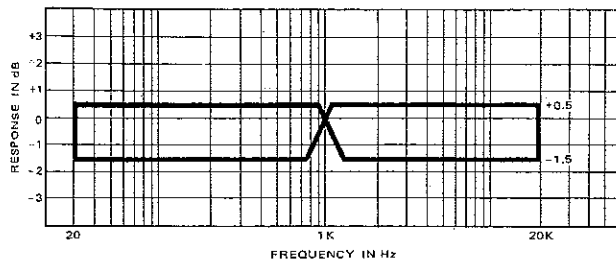


FIG. 5

1-13. LINE IN to STEREO OUT Frequency Response

Specifications are as follows:



1-14. Monitor Fader Function Check (LINE IN → STEREO INSERT Left: Fig. 6)

1. Press the INP switch to connect the input channel to the monitor section.
2. Press LINE and FLIP, and apply a nominal signal of 1 kHz, -10 dBV to the LINE IN jack.
3. Turn the Monitor PAN fully left to L, and the monitor (short) fader for a -10 dBV send level at the STEREO INSERT Left jack. (The LINE Trim and the STEREO master fader must be in their nominal position.)

4. Check for the following:

- 1) PRE "ON"
Release FLIP, apply a nominal input signal to TAPE IN and check for -10 dBV at the STEREO INSERT Left jack
- 2) GRP "ON"
Apply a nominal input signal to the Group 1 buss INSERT and check for -10 dBV at the STEREO INSERT Left jack.

5. Monitor MUTE Check: With the same conditions as in step 3 above, press MUTE to check that the adjacent LED lights and the send signal from the STEREO INSERT Left jack is out off

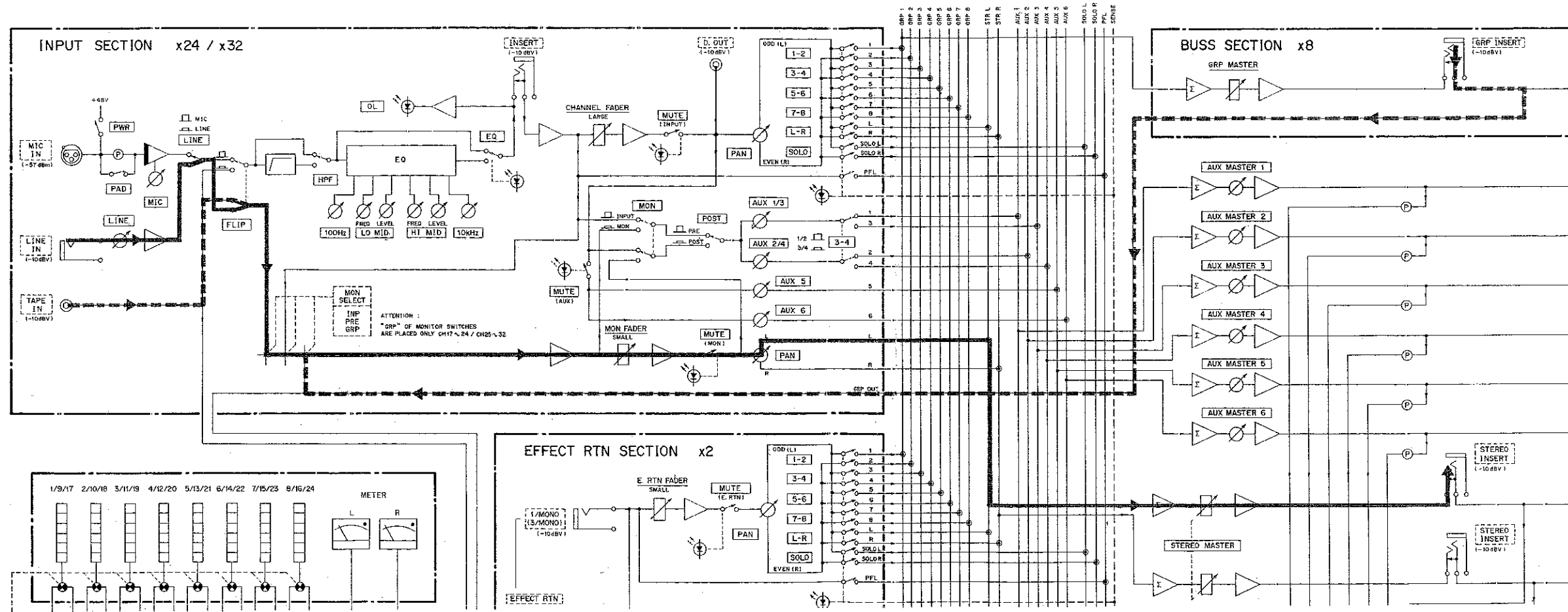


FIG. 6

1-15. AUX MASTER Controls (Channel INSERT → AUX OUT: Fig. 7)

1. Turn the AUX 1/3 and 2/4 level controls fully right.
2. Apply a nominal input signal (1 kHz, -10 dBV) to the channel INSERT jack, and adjust AUX MASTER 1 and 2 controls until AUX OUT 1 and 2 read 0 dBu.
3. Turn on the AUX 3-4 switch, and adjust AUX MASTER 3 and 4 controls until AUX OUT 3 and 4 read 0 dBu.
4. With the channel faders set to nominal position, turn the AUX 5 and 6 send level controls fully right, and adjust AUX MASTER 5 and 6 controls until AUX OUT 5 and 6 read 0 dBu.
5. Then, apply a nominal input signal to LINE IN, to check for nominal output level from AUX OUT 1.

6. In a similar way, check for AUX OUTs 2-6.
7. **AUX MUTE Check:**
With the same conditions as in step 4 above, turn on the AUX MUTE switch to check that the adjacent LED lights and AUX OUTs 5 and 6 are out off.
8. **MON Switch Function Check:**
With the same conditions as in step 2 above, apply a nominal input signal (1 kHz, -10 dBV) to TAPE IN, and turn on the MON switch to check for 0 dBu at AUX OUT 1.
9. **POST Switch Function Check:**
With the same conditions as in step 8 above, turn on the POST switch, then turn on the MUTE switch in the monitor section, to check that AUX OUT 1 is cut off.

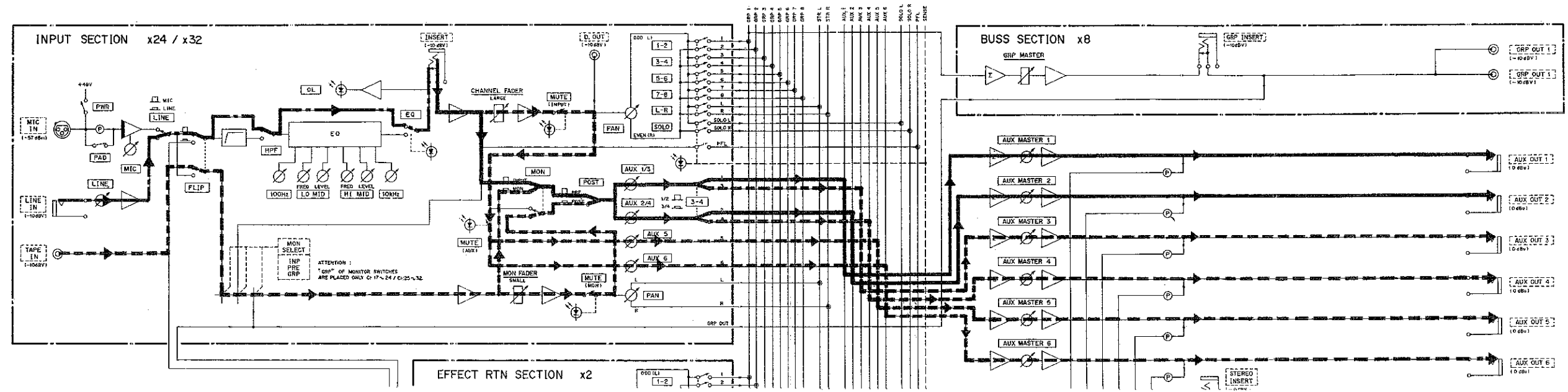


FIG 7

1-16. CR Level Control (2TR IN (L) → CR OUT A: Fig. 8)

1. Press the 2TR switch in the Control Room section, then press the A switch.
2. Apply a nominal input signal to the 2TR IN (L) jack, and adjust the CR level control for 0 dBu at the CR OUT A (L) jack
3. Press MONO to check that the Left and Right outputs from CR OUT A are mixed into mono. (The level will drop about 6 dB.)
4. Press DIM to check that the CR OUT A level lowers by 30 dB

1-17. STUDIO Level Control (Stereo Left buss INSERT → STUDIO OUT L: Fig. 9)

1. Apply a nominal input signal (1 kHz, -10 dBV) to the STEREO INSERT "L" jack, and press the STUDIO ON switch. The LED next to the ON switch should turn on, then adjust the STUDIO level control for 0 dBu at the STUDIO OUT "L" jack
2. Press STUDIO MONO, to check that the STUDIO OUT "L" and "R" signals are mixed into mono. (The level will drop about 6 dB.)

1-18. PHONES Level Control (Fig. 9)

With the same conditions as in 1-17, adjust the PHONES control for a 100 mW PHONES OUT (under 600 ohms).

1-19. Phones Frequency Response

Specifications (LINE IN to PHONES OUT) are as follows:

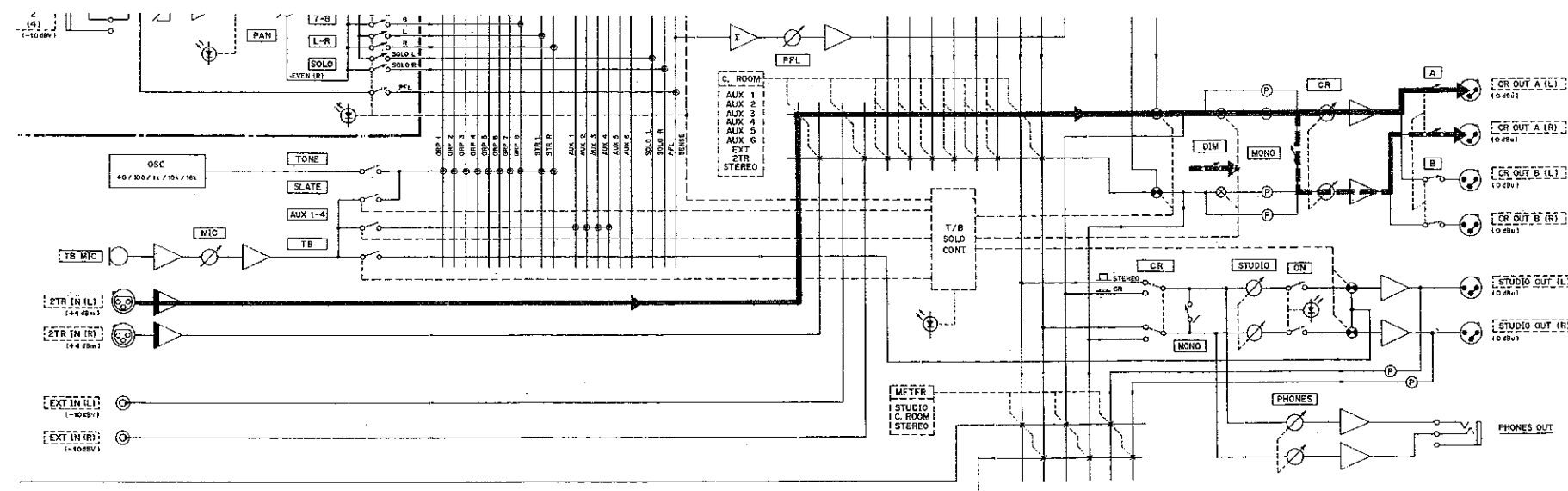
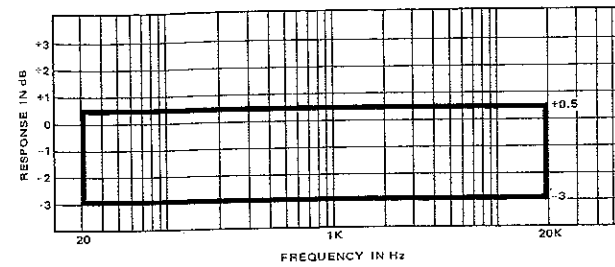


FIG. 8

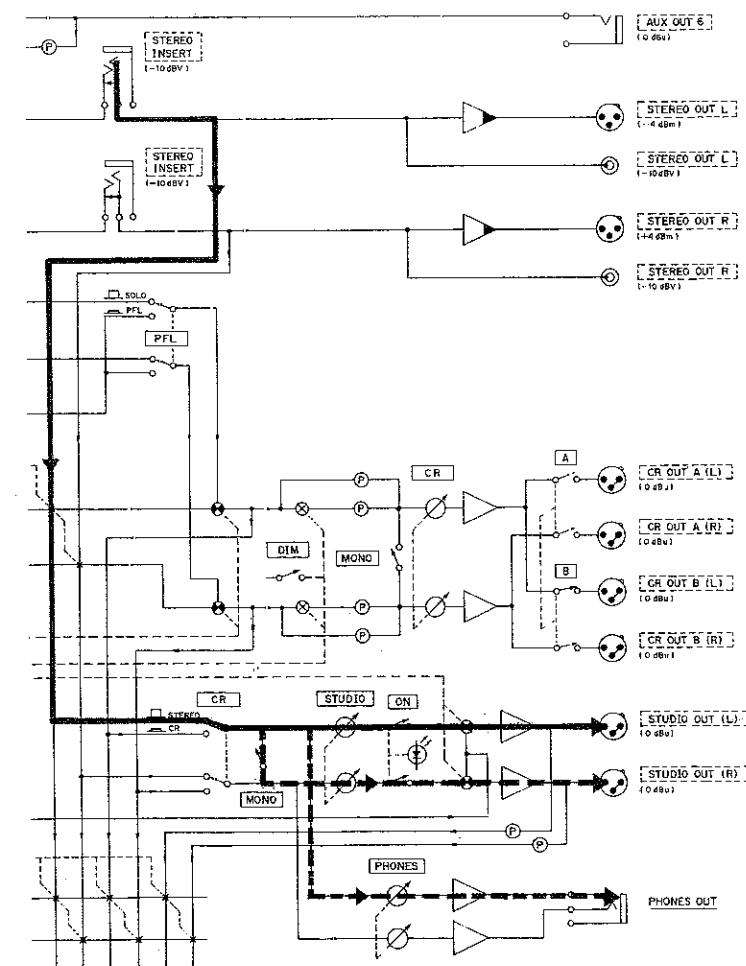


FIG. 9

1-20. SOLO Level Control (Channel INSERT → CR OUT A "L": Fig. 10)

1. Turn the channel PAN fully left and press the channel's SOLO switch. (The LED next to the switch as well as the Control Room SOLO LED should both light.)
 2. Apply a nominal input signal (1 kHz, -10 dBV) to the channel INSERT jack, and adjust the SOLO level control for 0 dBu at the CR OUT A "L" jack. (The channel fader and the CR level control should have been set to nominal position.)
 3. Apply a nominal input signal to the channel LINE IN jack, to check that the CR OUT A "L" jack still provides a 0 dBu signal.
- Repeat procedure for the CR "R" output.

1-21. PFL Level Control (Channel INSERT → CR OUT A "L": Fig. 10)

1. With the same conditions as in step 2 under paragraph 1-20, press PFL in the control room section, and adjust the PFL level control for 0 dBu at the CR OUT A "L" jack.
2. Apply a nominal input signal to the channel LINE IN, to check that the CR OUT A "L" jack still provides a 0 dBu signal

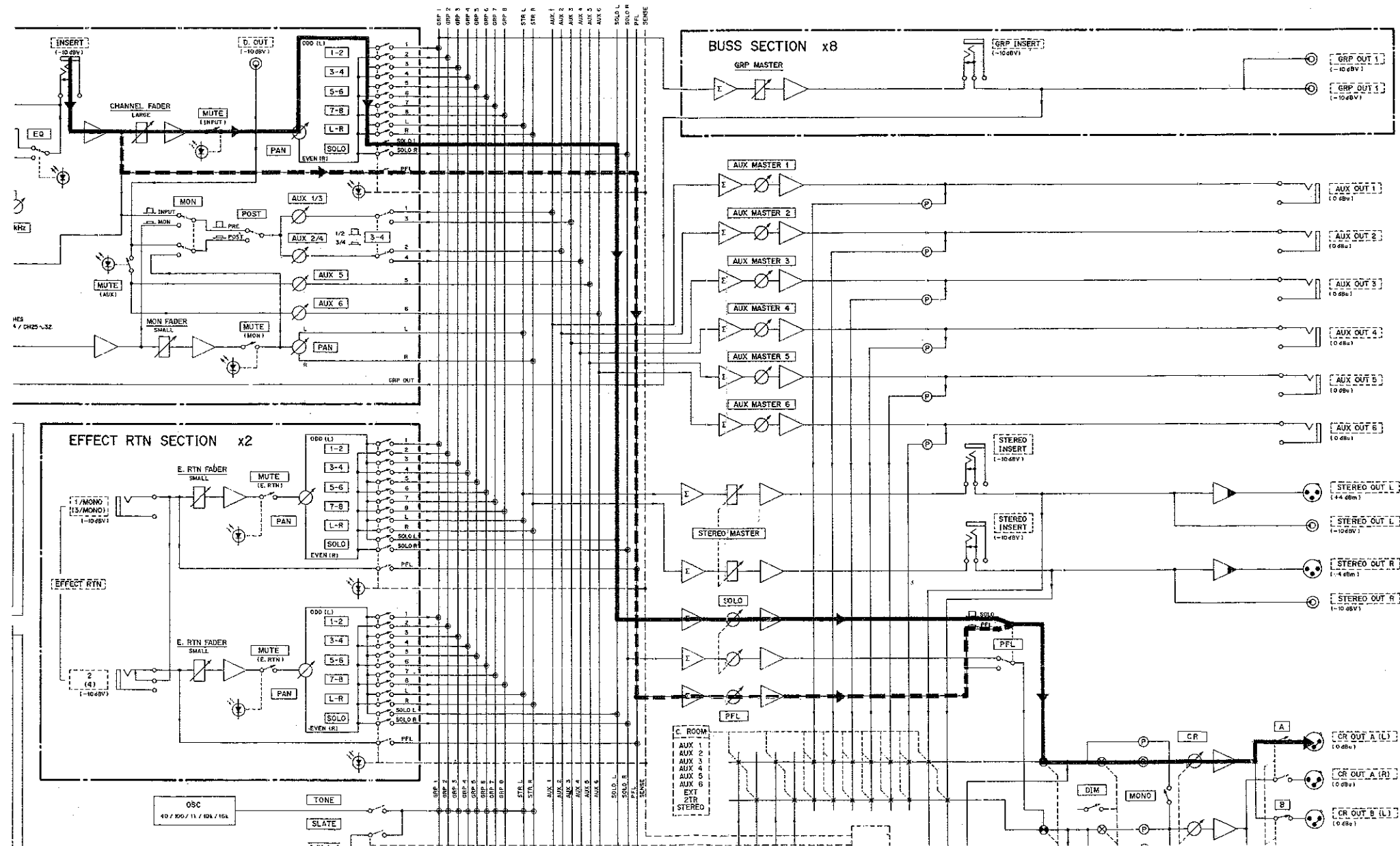


FIG. 10

1-22. EFFECT RETURN Faders (EFT RTN → GRP INSERT : Fig. 11)

1. Turn the effects return PAN fully left, to the ODD (L) position and turn on the assign 1-2 switch to feed the Group 1 buss.
2. With the Group Master fader set to nominal position, apply a nominal input signal (1 kHz, -10 dBV) to the EFT RTN 1 jack, and adjust EFFECT RETURN fader 1 for -10 dBV at the GRP INSERT 1 jack.

NOTE: Turn on the MUTE switch of all channels other than the channel under test.

3. In a similar way, set the remaining EFFECT RETURN faders, 2-4.
4. With the same conditions as in step 2, assign a nominal input signal to groups 2-8, one after another, to check that the corresponding GRP OUT jacks provide a nominal level signal. Repeat procedure for EFT RTN 2-4.
5. Turn on the Effects Return L-R assign switch, and turn the Effects Return 1 PAN to ODD (L) and EVEN (R) alternately, to read the STEREO OUT L and R levels. (The STEREO master fader must be set to nominal.)

+4 dBm at the balanced out
-10 dBV at the unbalanced out

Repeat procedure for Effects Returns 2-4.

6. With the same conditions as in step 2, turn on the Effects Return SOLO switch, and turn the Effects Return 1 PAN full left (to ODD, L) and full right (to EVEN, R) alternately, to check for nominal level output at the CR OUT A L and R jacks. (The SOLO and CR level controls in the CONTROL ROOM section should be turned up.)

Repeat procedure for Effects Returns 2-4.

7. With the same conditions as in step 2, turn on the PFL switch in the CONTROL ROOM section, and check for nominal output level at the CR OUT A L and R jacks. (The PFL and CR level controls should be turned up.)

Repeat procedure for Effects Returns 2-4.

8. Effects Return MUTE Function Check: With the same conditions as in step 2, turn on the Effects Return 1 MUTE switch, and check that its LED lights and the GRP 1 OUT is muted.

Repeat procedure for Effects Returns 2-4

1-23. Test Tone Checks

Press the TONE switch, and set the OSC frequency select switch to 40, 100, 1 kHz, 10 kHz, then to 16 kHz, to check the output frequency at the GRP 1 OUT jack

Output Frequency reading should be within 5 % of each OSC frequency.

1-24. TB (Talkback) Check

Speaking into the built-in talkback mic, turn on the talkback assign switches in sequence (AUX 1-4, SLATE, and TB), to check that the mic signal is available at the corresponding output jacks:

Assignment Switch	Output Jack
AUX 1-4	AUX 1-4
SLATE	GRP 1-8, STEREO L and R
TB	STUDIO OUT L and R

Check also the following:

- For as long as the TB assign switch is pressed, the talkback mic signal is sent to the STUDIO OUT jacks.
- As you rotate the MIC level control, the output level at each jack above varies

1-25. Signal-To-Noise Ratio

Check that S/N of each of the following In-Out paths is within the limits:

- 1 LINE IN → GRP OUT : 82 dB
- 1 LINE IN → AUX OUT : 70 dB
- 1 LINE IN → CR OUT : 83 dB
- 1 LINE IN → STUDIO OUT : 83 dB
- HEADPHONES : 72 dB
- 24 MIC INS → GRP OUT (150 ohm input load) : 52 dB
- 32 MIC INS → GRP OUT (150 ohm input load) : 50 dB
- 24 LINE INS → GRP OUT : 62 dB
- 32 LINE INS → AUX OUT : 70 dB
- 24 LINE INS (Monitor) → STEREO OUT : 63 dB
- 32 LINE INS (Monitor) → STEREO OUT : 62 dB

1-26. Distortion

Check distortion of the following In-Out paths is within the limits:

- 1 MIC IN → GRP OUT
20 Hz to 20 kHz : 0.08 %
1 kHz : 0.018 %
- 1 LINE IN → GRP OUT
20 Hz to 20 kHz : 0.06 %
1 kHz : 0.018 %

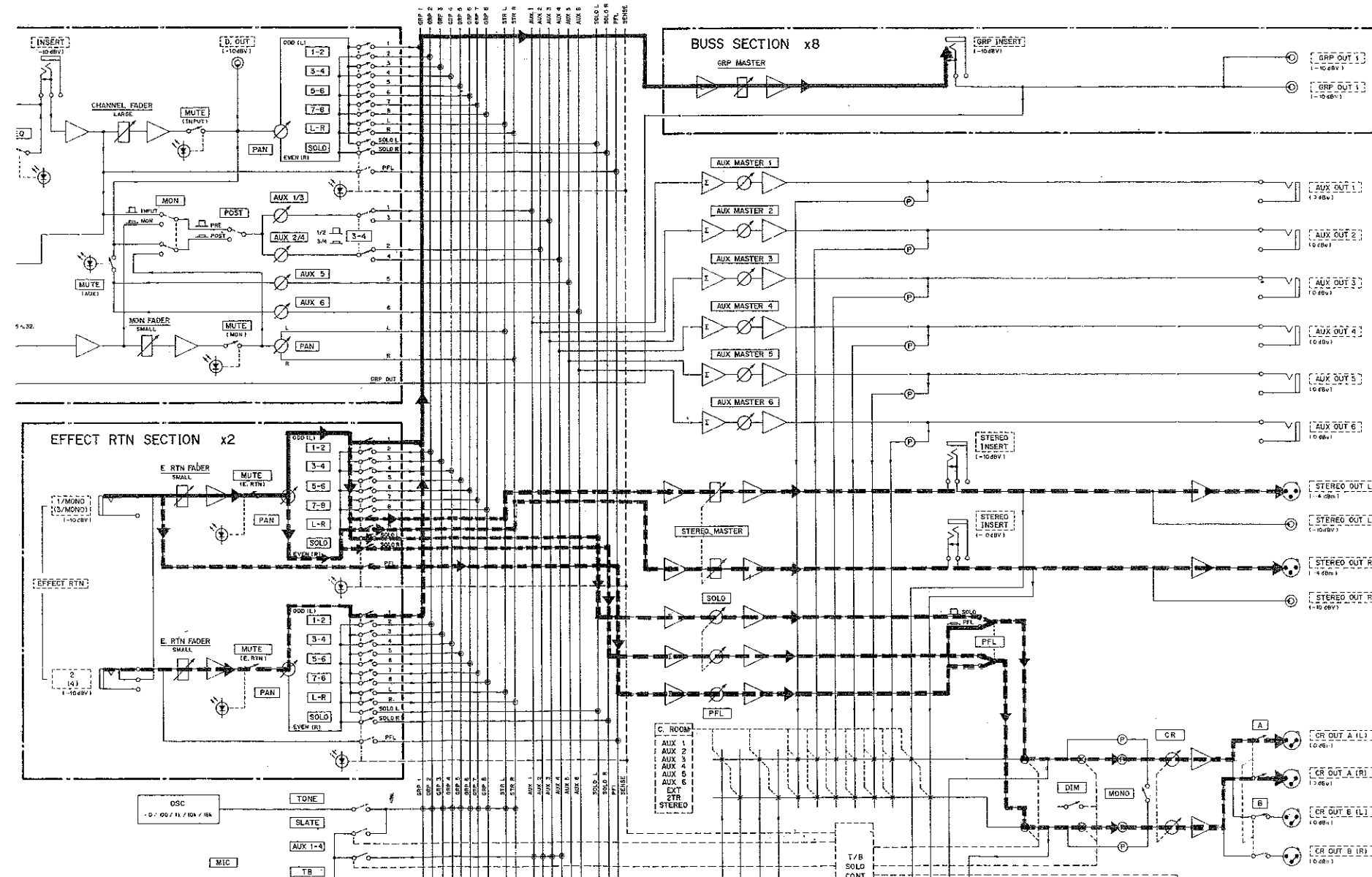


FIG. 11

2. METER CHECKS AND ADJUSTMENTS

2-1. VU Meter Adjustment

Press the METER SELECT "STEREO" switch, apply a nominal signal (1 kHz, -10 dBV) to the STEREO INSERT jacks, and adjust semi-fixed resistors R117 (for Left channel) and R118 (for Right channel) on the METER PCB (See Figure 12) until the VU meters read 0 VU.

2-2. LED Meter Adjustment

Press the METER SELECT "GRP OUT" switch, and adjust eight semi-fixed resistors R115, R215 (..) R715, and R815 on the METER PCB (see Figure 12) until the meters read -2 dB when applying an 8 dB above nominal level signal (1 kHz, -2 dBV) to the GRP INSERT jacks, and 0 dB when applying a -1.9 dBV signal.

2-3. VU Meter Switching Checks

1 CR (Control Room)

Press the METER SELECT "CR", press "EXT" in the control room source switches, and apply a nominal input signal to the EXT IN L and R jacks, to check that the VU meters read 0 VU.

2 STUDIO

Press METER SELECT "STUDIO", press STUDIO "ON", and apply a nominal input signal to the STEREO INSERT jacks, to check that the VU meters read 0 VU

3 STEREO

Press METER SELECT "STEREO", and apply a nominal signal to the STEREO INSERT jacks to check for 0 VU on the VU meters.

2-4. LED Meter Switching Checks

1. TAPE 1-8

Press TAPE IN 1-8 in the meter bridge select switches, and check for -2 dB reading on every LED meter when applying a -2 dBV signal (8 dB above nominal level) to the TAPE IN jacks 1-8, and for 0 dB reading when applying a -1.9 dBV signal.

2. TAPE 9-16

Press TAPE IN 9-16 in the meter bridge select switches, and check for -2 dB reading on every LED meter when applying a -2 dBV signal (8 dB above nominal level) to the TAPE IN jacks 1-8, and for 0 dB reading when applying a -1.9 dBV signal.

3. TAPE 17-24

Press TAPE IN 17-24 in the meter bridge select switches, and check for -2 dB reading on every LED meter when applying a -2 dBV signal (8 dB above nominal level) to the TAPE IN jacks 1-8, and for 0 dB reading when applying a -1.9 dBV signal.

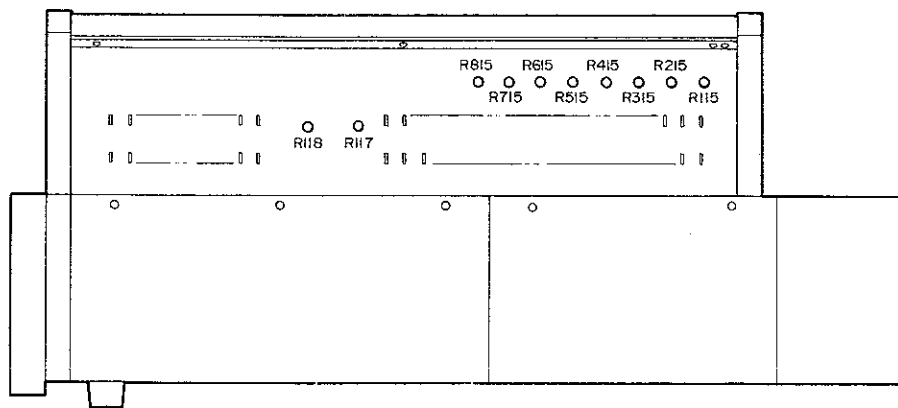
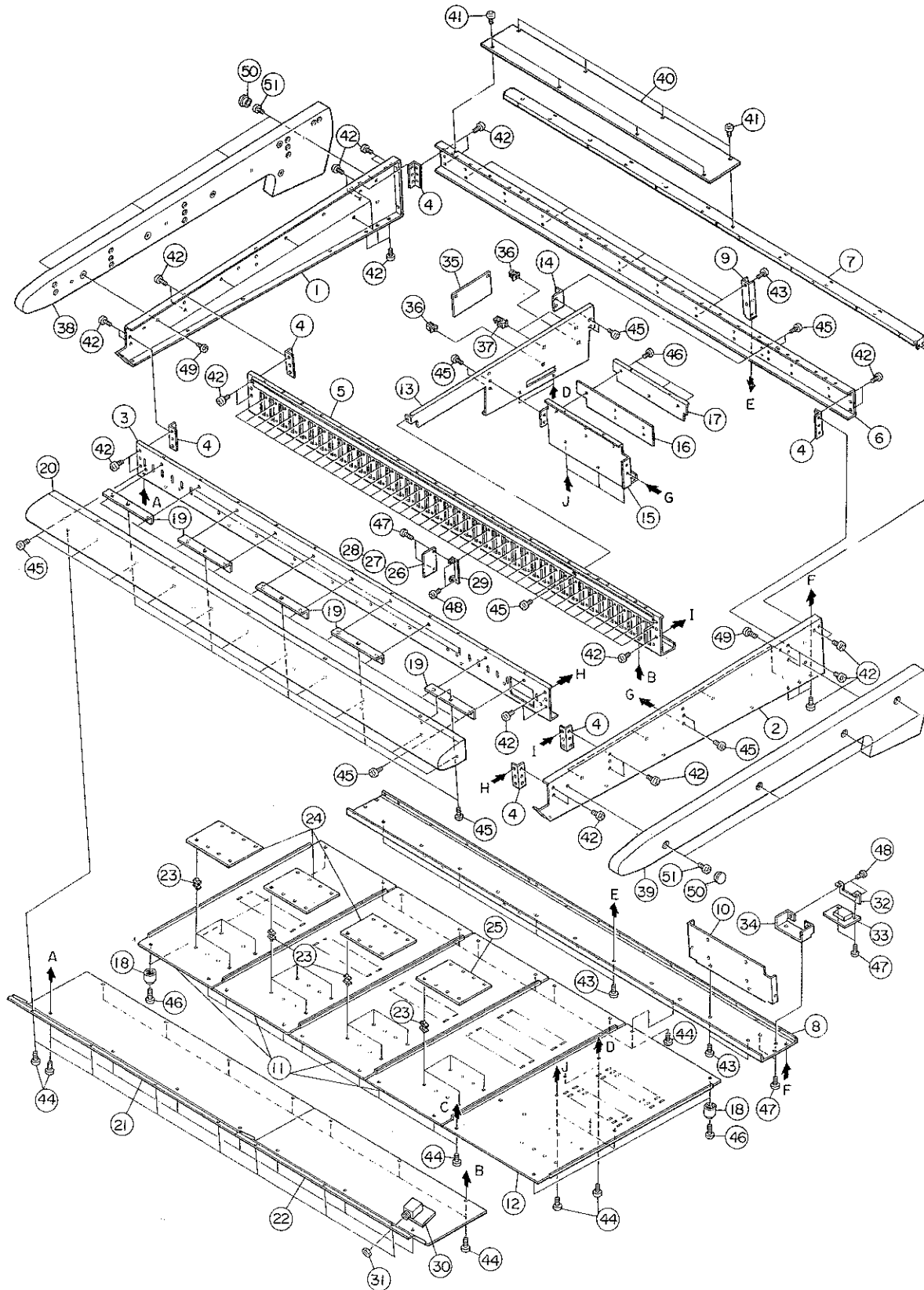


FIG 12

3. PARTS LISTS

3-1. Mechanics

Exploded View-1

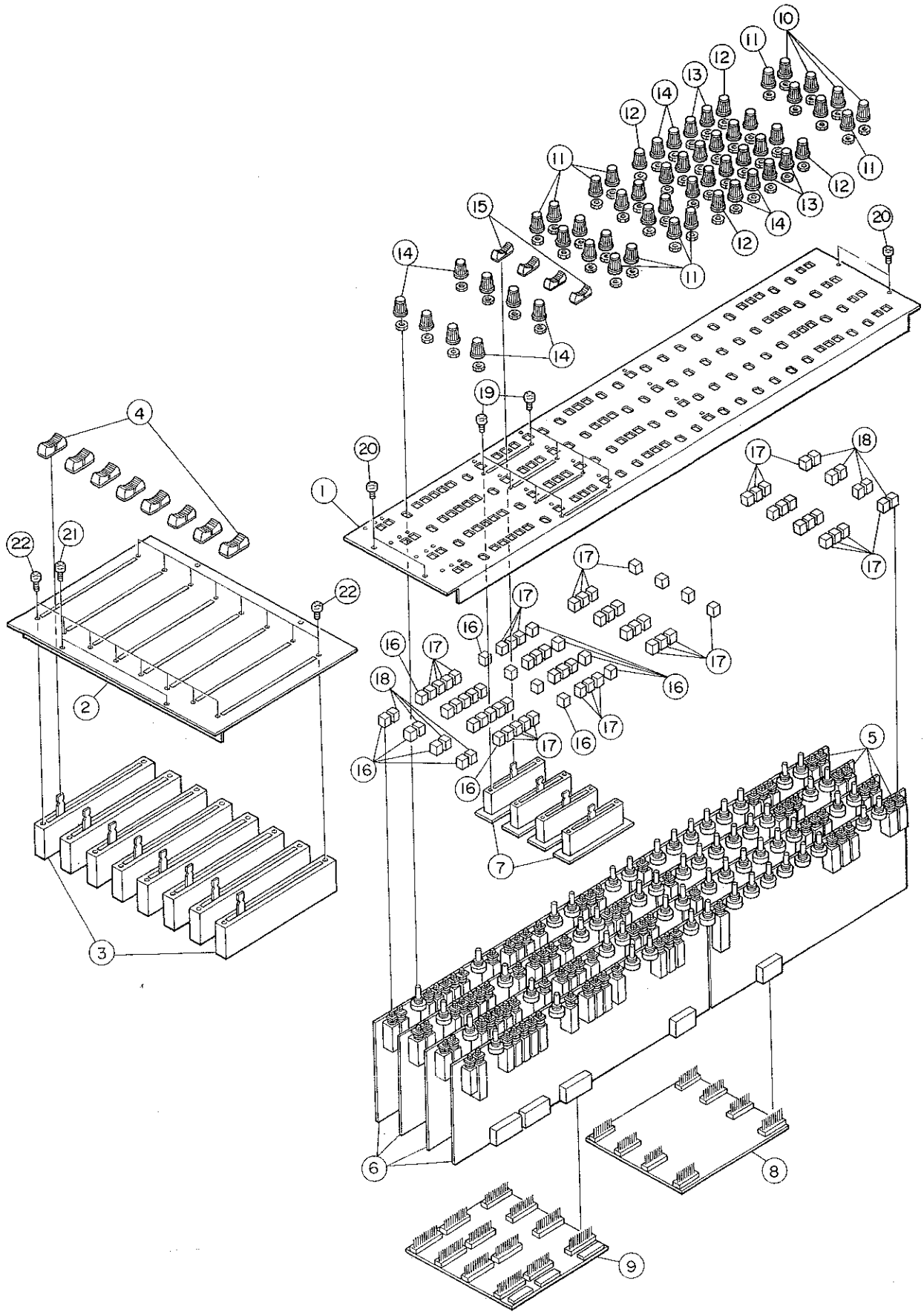


EXPLODED VIEW-I

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	5801327400	CHASSIS(L),SIDE	
1- 2	5801327500	CHASSIS(R),SIDE	
1- 3	*5801327700	FRAME(A)(32)	[M-3500-32]
	*5801327600	FRAME(A)(24)	[M-3500-24]
1- 4	*5800922200	HOLDER,FLAME	
1- 5	*5801327900	FRAME(B)(32)	[M-3500-32]
	*5801327800	FRAME(B)(24)	[M-3500-24]
1- 6	*5801328100	FRAME(C)(32)	[M-3500-32]
	*5801328000	FRAME(C)(24)	[M-3500-24]
1- 7	*5801328300	FRAME(D)(32)	[M-3500-32]
	*5801328200	FRAME(D)(24)	[M-3500-24]
1- 8	*5801328500	FRAME(E)(32)	[M-3500-32]
	*5801328400	FRAME(E)(24)	[M-3500-24]
1- 9	*5801328700	FRAME(G)	
1-10	*5801329300	PLATE,SHIELD(R)	
1-11	*5801329000	PLATE(I),BOTTOM	
1-12	*5801329100	PLATE(M),BOTTOM	
1-13	*5801329200	PLATE(M),SHIELD	
1-14	*5801335700	CHASSIS ANGLE(A)	
1-15	*5801328600	FRAME(F)	
1-16	*5801329400	SPACER	
1-17	*5801329500	MASTER ANGLE	
1-18	*5730019600	FOOT TL-033	
1-19	*5801335800	CHASSIS ANGLE(B)	
1-20	*5801354500	PAD ASSY(32)	[M-3500-32]
	*5801354400	PAD ASSY(24)	[M-3500-24]
1-21	*5801328800	PLATE,BOTTOM(F-L)(32)	[M-3500-32]
	*5801328700	PLATE,BOTTOM(F-L)(24)	[M-3500-24]
1-22	*5801328900	PLATE,BOTTOM(F-R)	
1-23	*5787032600	PCB SUPORT KGLS-6R	
1-24	*5200301900	MAIN BUSS PCB ASSY [INPUT]	REF. PAGES 42 & 49
1-25	*5200301910	MAIN BUSS PCB ASSY [INPUT,MASTER]	REF. PAGES 42 & 49
1-26	*5200299400	CON PCB ASSY [INPUT,GRP 2,4,6,8]	REF. PAGES 45 & 51
1-27	*5200299420	CON PCB ASSY [GRP 1,3,5]	REF. PAGES 45 & 51
1-28	*5200299430	CON PCB ASSY [GRP 7,MASTER]	REF. PAGES 45 & 51
1-29	*5801333200	CON PCB ANGLE	
1-30	*5200300800	HP PCB ASSY	REF. PAGES 45 & 51
1-31	*5317003300	NUT	
1-32	*5801330700	PWR PCB ANGLE	
1-33	*5200302300	CN(B) PCB ASSY	REF. PAGES 44 & 49
1-34	*5801337500	PWR PCB ANGLE (B)	
1-35	*5200300400	BAL PCB ASSY	REF. PAGES 44 & 50
1-36	*5730037500	SPACER,CARD EDGE KGES-8	
1-37	*5730037600	POST,CORNER KGCP-8	
1-38	*5801333000	WOOD(L),SIDE	
1-39	*5801333100	WOOD(R),SIDE	
1-40	*5801332600	FILLER(32),METER	[M-3500-32]
	*5801332500	FILLER(24),METER	[M-3500-24]
1-41	*5783533008	SCREW,BIND M3X8 (BLK NI)	
1-42	*5781075010	SCREW,PAN;TAP M5X10 (BLN I)	
1-43	*5783533008	SCREW,PAN;M3X8 (BLK NI)	
1-44	*5781504008	SCREW,TAP M4X8 (BLK)	
1-45	*5783534008	SCREW,PAN BT M4X8 NI BLK	
1-46	*5783534015	SCREW,PAN;B TITE (BLK NI)	
1-47	*5780003006	SCREW,B M3X6	
1-48	*5783533008	SCREW,PAN;B TITE M3X8 (BLK NI)	
1-49	*5780005015	SCREW,BIND M5X15	
1-50	*5730037900	PLUG,LOCKING HOLE	
1-51	*5782003003	SCREW,HEX;M3X3	

Parts marked with *require longer delivery time.

Exploded View-2



EXPLODED VIEW-2

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*5801326500	PANEL (1PG), INPUT [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]	
	*5801326600	PANEL (1P), INPUT [M-3500-32:Ch 1-24] [M-3500-24:Ch 1-16]	
2- 2	*5801327200	PANEL (1), FADER	
2 -3	5284015700	SLIDE VR 100K 1U 10K(D)	
2- 4	5801333300	KNOB(A), L.FADER	
2- 5	*5200299000	INPUT(A) PCB ASSY	REF. PAGES 32 & 46
2- 6	*5200299100	INPUT(B) PCB ASSY [M-3500-32:Ch 1-24] [M-3500-24:Ch 1-16]	REF. PAGES 31 & 46
	*5200299110	INPUT(B) PCB ASSY [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]	REF. PAGES 31 & 46
2- 7	*5200299300	FDR PCB ASSY	REF. PAGES 45 & 51
2- 8	*5200301700	JOINT PCB ASSY	REF. PAGES 41 & 49
2- 9	*5200301600	SUB BUSS PCB ASSY	REF. PAGES 42 & 49
2-10	5801194700	KNOB ASSY, VR 3C	
2-11	5801194600	KNOB ASSY, VR 3B	
2-12	5801195000	KNOB ASSY, VR 3F	
2-13	5801194900	KNOB ASSY, VR 3E	
2-14	5801194800	KNOB ASSY, VR 3D	
2-15	5801333600	KNOB(A), S.FADER	
2-16	5801333900	BUTTON(B)	
2-17	5801333800	BUTTON(A)	
2-18	5801334000	BUTTON(C)	
2-20	*5801347100	SCREW, BIND M3X6(T-N27)	
2-21	*5801147700	SCREW, BIND M3X6(T-N24)	
2-22	*5800935300	SCREW, BIND M3X6 (BLK)	

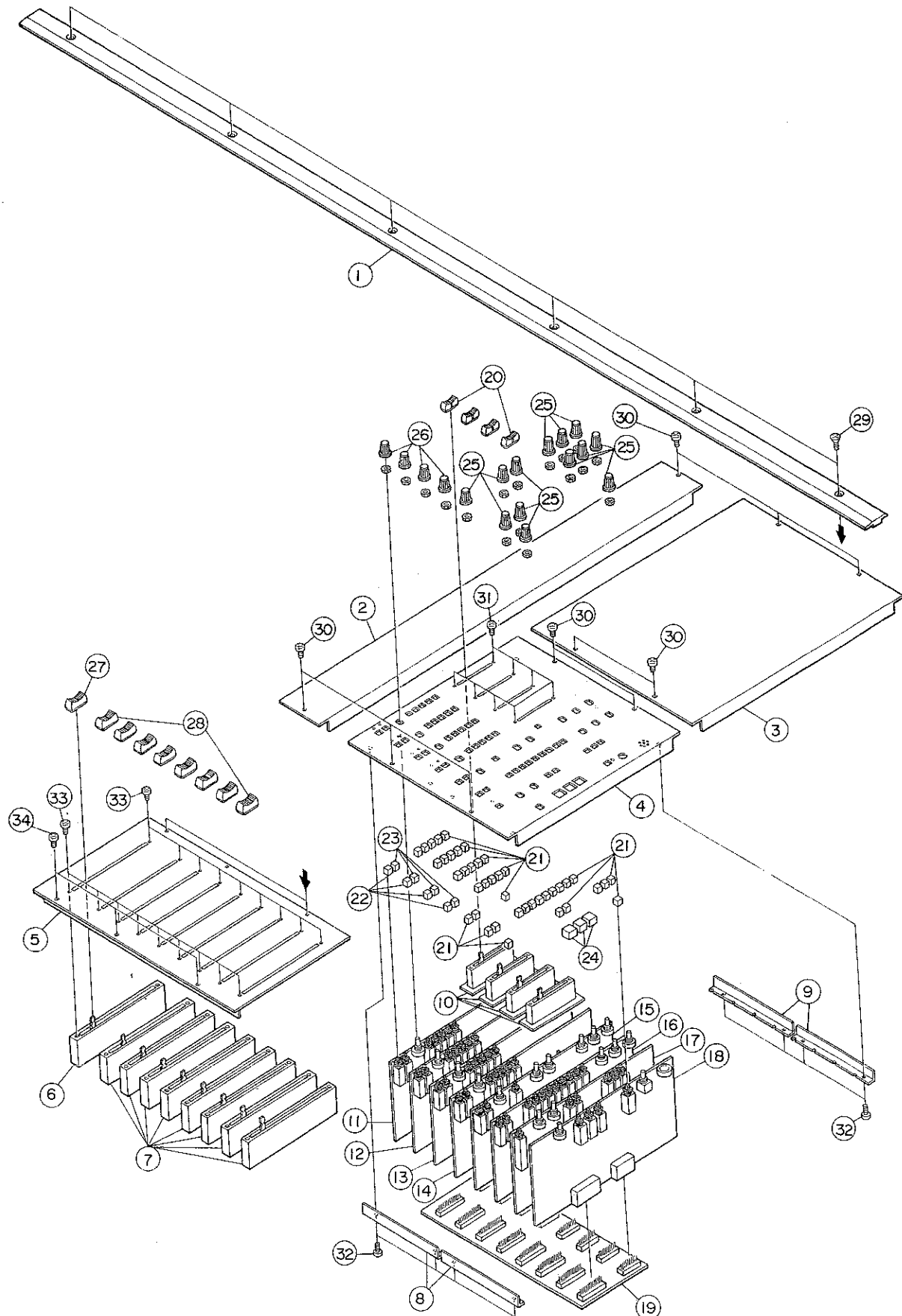
INCLUDE ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	*5740004100	SCREW, KIT; MOUNT	
	*5780315015	SCREW, OVAL COUN. M5X15 NI	
	*5544995000	WASHER	
	*5785225000	WASHER, F. 5X10X0.5T BLK	
	*5700119800	OWNER'S MANUAL [J]	
	*5700119900	OWNER'S MANUAL [EXCEPT J]	

[J]: JAPAN [US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

Parts marked with *require longer delivery time.

Exploded View-3

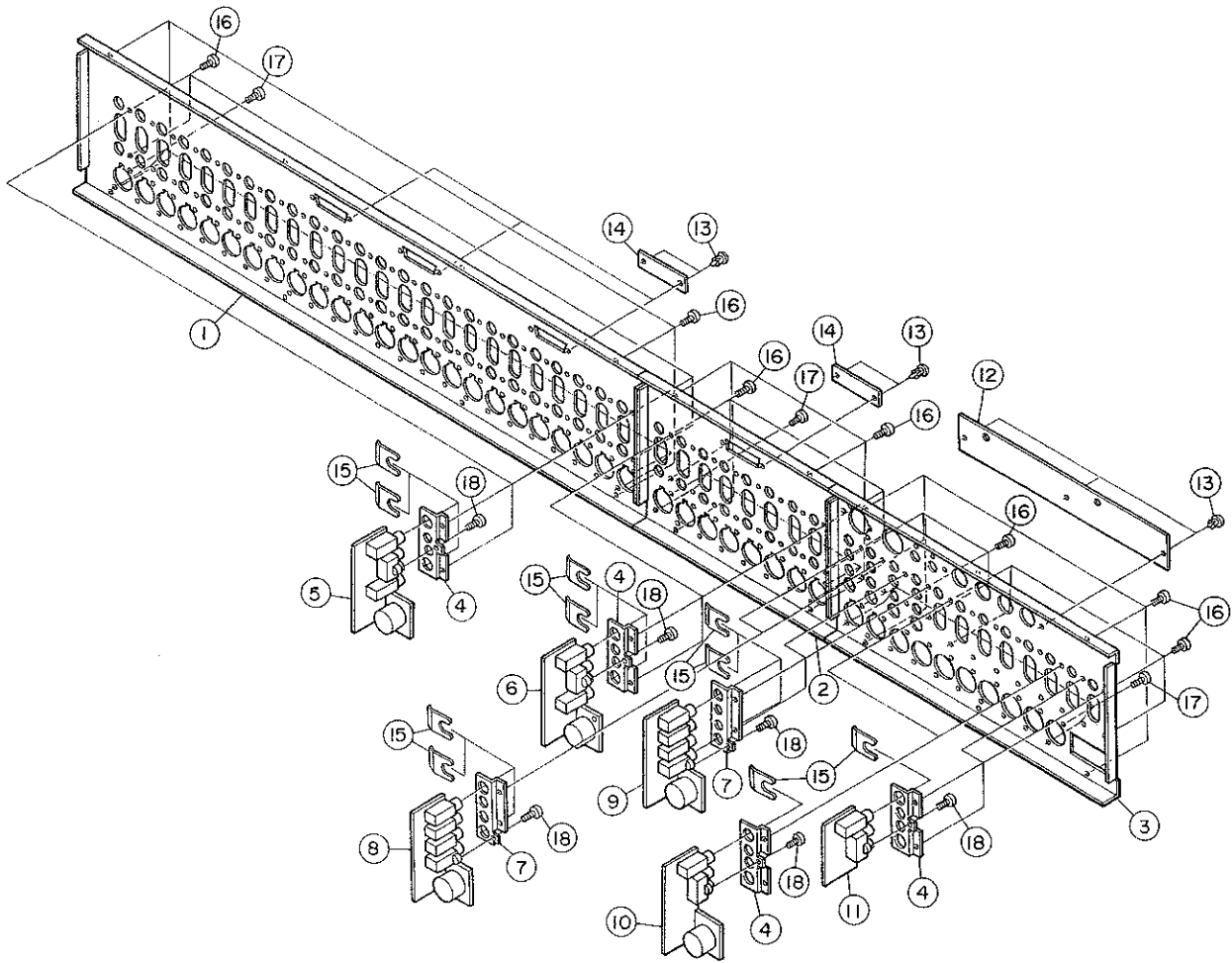


EXPLODED VIEW-3

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5801331100	NO. PLATE(32) [M-3500-32]	
	*5801331000	NO. PLATE(24) [M-3500-24]	
3- 2	*5801330800	PANEL(M),FILLER	
3- 3	*5801330900	PANEL(AT),FILLER	
3- 4	*5801326900	PANEL,MASTER	
3- 5	*5801327300	PANEL(M) FADER	
3- 6	*5284016300	SLIDE VR 100K 2U 10K(D)	
3- 7	*5284015700	SLIDE VR 100K 1U 10K(D)	
3- 8	*5801327000	MASTER PCB SUPPORT(F)	
3- 9	*5801327100	MASTER PCB SUPPORT(R)	
3-10	*5200299300	FDR PCB ASSY	REF. PAGES 45 & 51
3-11	*5200299600	RTN(A) PCB ASSY	REF. PAGES 37 & 48
3-12	*5200299610	RTN(A) PCB ASSY	REF. PAGES 37 & 48
3-13	*5200299700	RTN(B) PCB ASSY	REF. PAGES 38 & 48
3-14	*5200299710	RTN(B) PCB ASSY	REF. PAGES 38 & 48
3-15	*5200300200	MASTER(A) PCB ASSY	REF. PAGES 33 & 47
3-16	*5200300300	MASTER(B) PCB ASSY	REF. PAGES 34 & 47
3-17	*5200300600	MASTER(C) PCB ASSY	REF. PAGES 35 & 47
3-18	*5200300700	MASTER(D) PCB ASSY	REF. PAGES 36 & 47
3-19	*5200301800	MASTER BUSS PCB ASSY	REF. PAGES 43 & 49
3-20	5801333700	KNOB(B),S.FADER	
3-21	5801333800	BUTTON(A)	
3-22	5801333900	BUTTON(B)	
3-23	5801334000	BUTTON(C)	
3-24	5801362000	BUTTON P	
3-25	5801194600	KNOB ASSY, VR 3B	
3-26	5801194800	KNOB ASSY, VR 3D	
3-27	5801365900	KNOB(D),L.FADER	
3-28	5801333500	KNOB(B),L.FADER	
3-29	*5780213012	SCREW,FLAT M3X12 (N1)	
3-30	*5801347100	SCREW,BIND M3X6(T-N27)	
3-31	*5801335900	M2X3(CNL-F)	
3-32	*5780003006	SCREW,B M3X6	
3-33	*5800935300	SCREW M3X6 (BLK)	
3-34	*5801147700	SXREW,BIND M3X6(T-N24)	

Parts marked with *require longer delivery time.

Exploded View-4



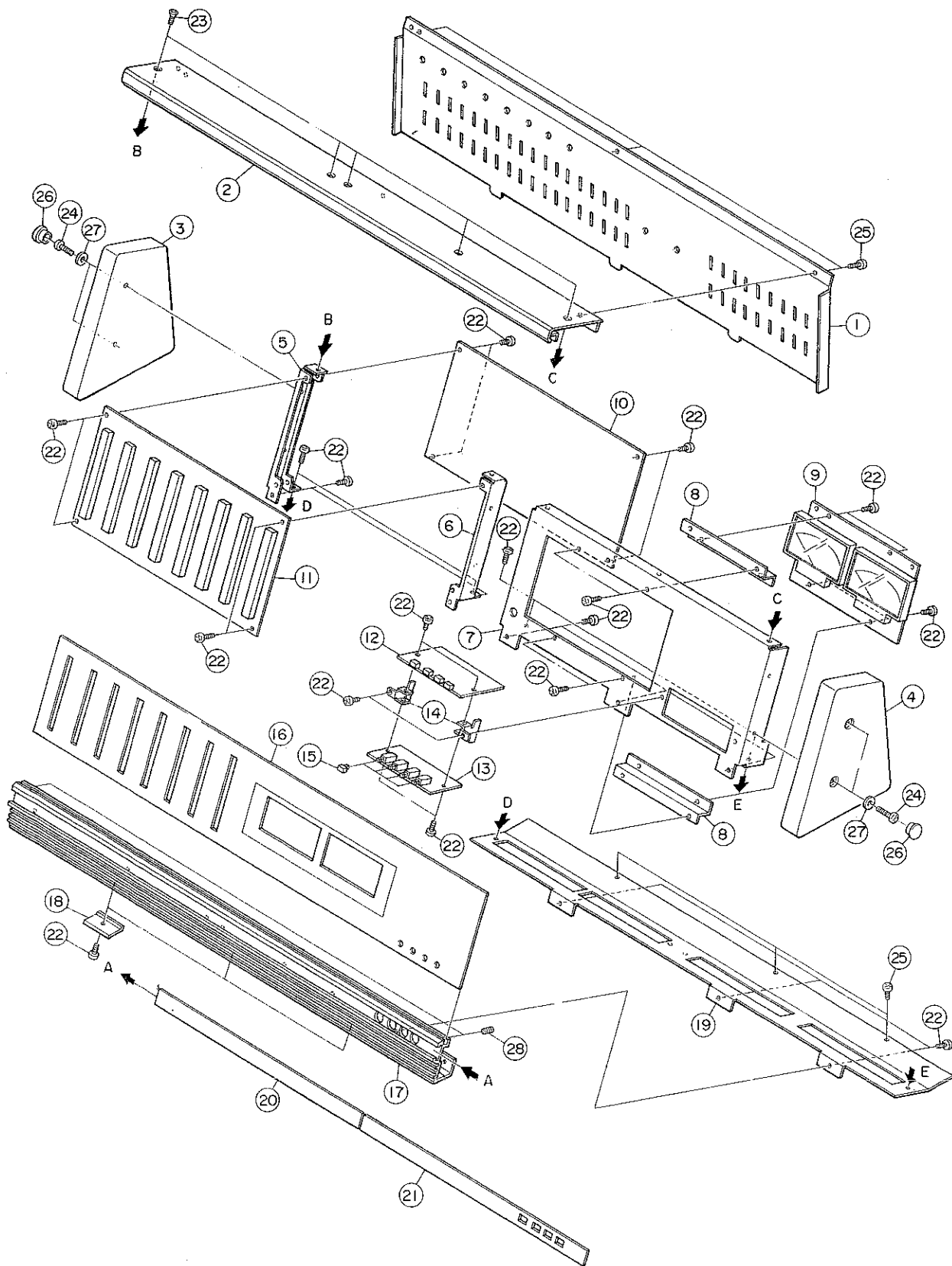
EXPLODED VIEW-4

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4- 1	*5801329700	PANEL, REAR; R24 (32)	[M-3500-32:US,C]
	*5801329600	PANEL, REAR; R16 (24)	[M-3500-24:US,C]
	*5801330100	PANEL, REAR; P24 (32)	[M-3500-32:Except US,C]
	*5801330000	PANEL, REAR; P16 (24)	[M-3500-24:Except US,C]
4- 2	*5801329900	PANEL, REAR; R8 (32)	[M-3500-32:US,C]
	*5801329800	PANEL, REAR; R8 (24)	[M-3500-24:US,C]
	*5801330300	PANEL, REAR; P8 (32)	[M-3500-32:Except US,C]
	*5801330200	PANEL, REAR; P8 (24)	[M-3500-24:Except US,C]
4- 3	*5801335300	PANEL, REAR; R-M	[US,C]
	*5801335400	PANEL, REAR; P-M	[US,C]
4- 4	*5801330400	HOLDER(A), JACK	[US,C]
	*5801330600	HOLDER(A), JACK	[Except US,C]
4- 5	*5200299210	INPUT JACK PCB ASSY	[US,C] REF. PAGES 44 & 49
	*5200299230	INPUT JACK PCB ASSY	[Except US,C] REF. PAGES 44 & 49
4- 6	*5200299200	INPUT JACK PCB ASSY	[US,C] REF. PAGES 44 & 49
	*5200299220	INPUT JACK PCB ASSY	[Except US,C] REF. PAGES 44 & 49
4- 7	*5801330500	HOLDER(B), JACK	
4- 8	*5200299800	JACK(A) PCB ASSY	[US,C] REF. PAGES 45 & 50
	*5200299810	JACK(A) PCB ASSY	[Except US,C] REF. PAGES 45 & 50
4- 9	*5200299900	JACK(B) PCB ASSY	[US,C] REF. PAGES 45 & 50
	*5200299910	JACK(B) PCB ASSY	[Except US,C] REF. PAGES 45 & 50
4-10	*5200300000	JACK(C) PCB ASSY	[US,C] REF. PAGES 45 & 51
	*5200300010	JACK(C) PCB ASSY	[Except US,C] REF. PAGES 45 & 51
4-11	*5200301400	JACK(D) PCB ASSY	[US,C] REF. PAGES 45 & 50
	*5200301410	JACK(D) PCB ASSY	[Except US,C] REF. PAGES 45 & 50
4-12	*5801337800	PLATE(B), BRIND	
4-13	*5786610200	RIVET, PUSH RP-3045-NB	
4-14	*5801193300	PLATE, BLIND	
4-15	*5317005800	PLATE S, MOUNT	
4-16	*5783533008	SCREW, BIND; B TITE M3X8 (BLK NI)	
4-17	*5780122608	SCREW, PAN M2.6X8 (BLK NI)	
4-18	*5783603008	SCREW, BIND P-TITE M3X8	

[J]: JAPAN [US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

Parts marked with *require longer delivery time.

Exploded View-5

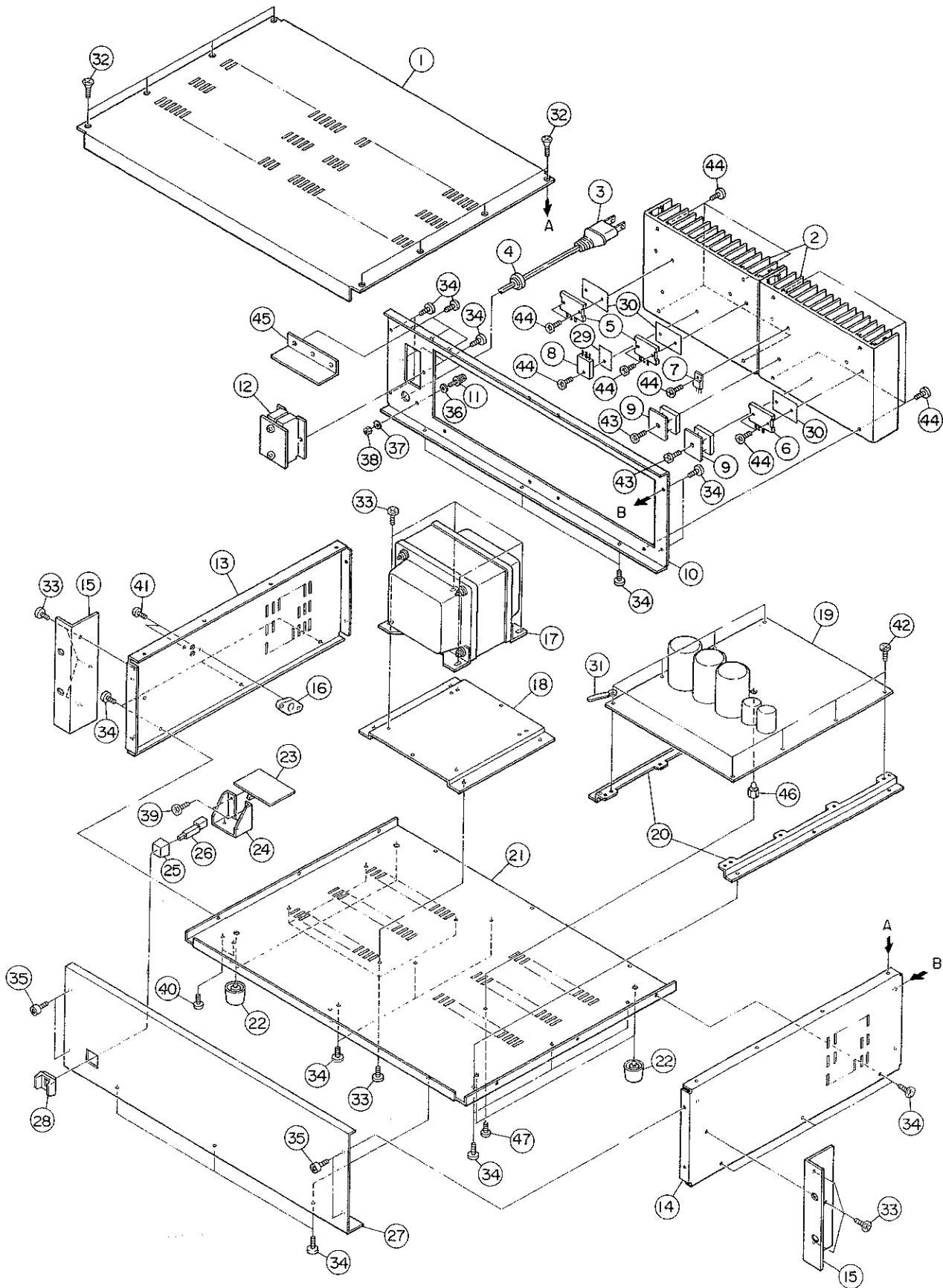


EXPLODED VIEW-5

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5- 1	*5801332400	COVER, REAR; METER	
5- 2	*5801331700	METER SUSH(A)	
5- 3	*5801362700	COVER B (L), SIDE, METER	
5- 4	*5801362800	COVER B (R), SIDE, METER	
5- 5	*5801331200	METER PCB SUPPORT(L)	
5- 6	*5801331300	METER PCB SUPPORT(R)	
5- 7	*5801331400	VU PCB SUPPORT	
5- 8	*5801331500	VU ANGLE	
5- 9	*5200210200	METER PCB ASSY	REF. PAGES 41 & 49
5-10	*5200301000	METER(A) PCB ASSY	REF. PAGES 39 & 47
5-11	*5200301100	METER(B) PCB ASSY	REF. PAGES 40 & 48
5-12	*5200301200	SW(A) PCB ASSY	REF. PAGES 44 & 50
5-13	*5200301300	SW(B) PCB ASSY	REF. PAGES 44 & 50
5-14	*5801331600	METER SW ANGLE	
5-15	5800828300	BUTTON, PUSH A SMALL IVORY	
5-16	*5801332100	PANEL, METER	
5-17	*5801331800	METER SUSH(B)	
5-18	*5801335500	BRACKET, METER	
5-19	*5801332300	BASE, SUPPORT, METER	
5-20	*5801332900	PLATE, METER	
5-21	*5801354600	PLATE(SW), METER	
5-22	*5780003006	SCREW, B M3X6	
5-23	*5780223006	SCREW, FLAT M3X6 NI BLK	
5-24	*5780004015	SCREW, BIND M4X15	
5-25	*5780023006	SCREW, B M3X6 NI BLK	
5-26	*5730037900	PLUG, LOCKING HOLE	
5-27	*5785024200	WASHER, 4X12X0.85	
5-28	*5782003003	SCREW, HEX; M3X3	

Parts marked with *require longer delivery time.

Exploded View-6



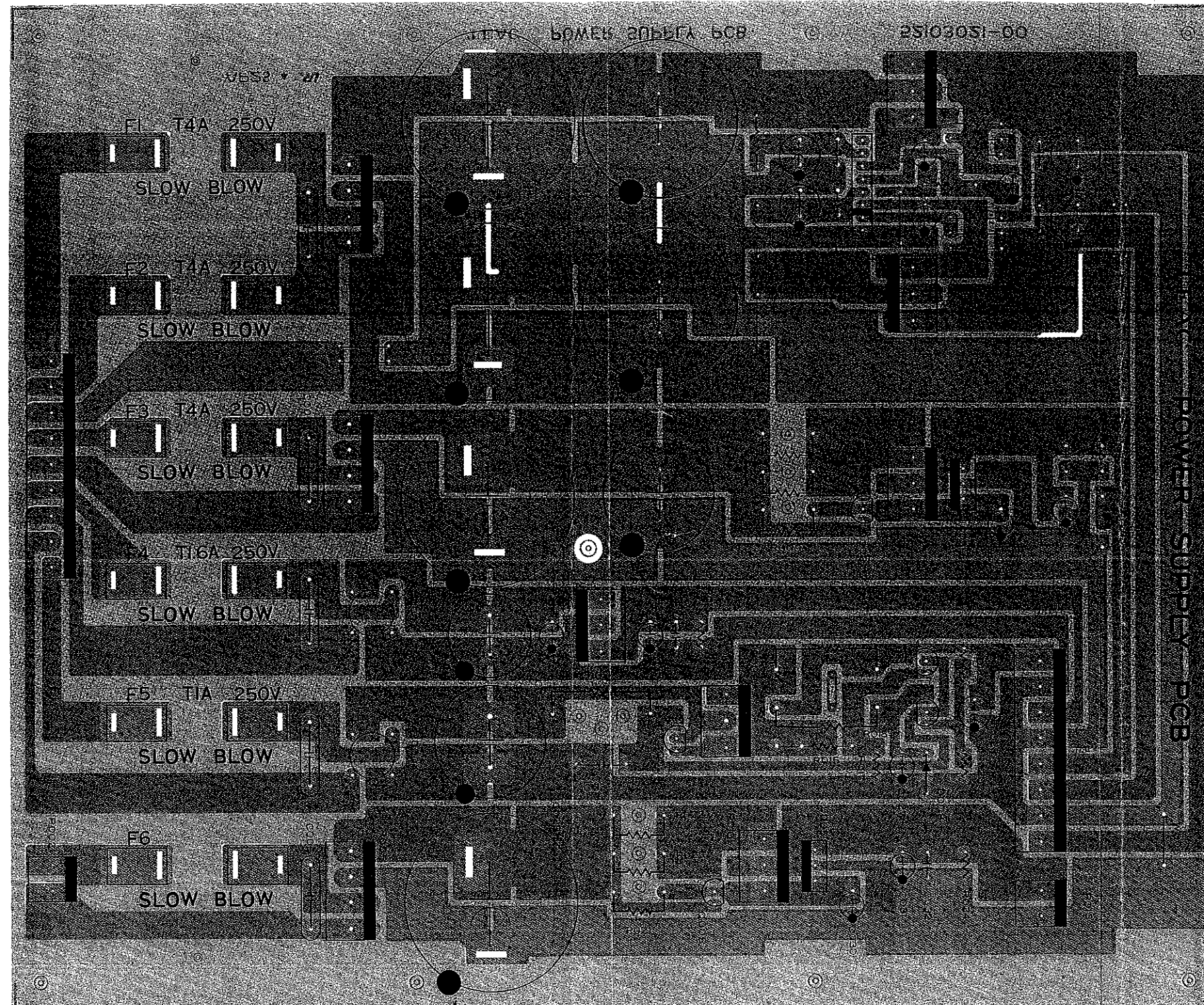
EXPLODED VIEW-6

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
6- 1	*5801334800	PANEL (PS), TOP	
6- 2	*5801335200	HEAT SINK	
6- 3	△ *5350012200	AC CORD [C]	
	△ *5350012500	AC CORD [J]	
	△ *5350010700	AC CORD [US,GE]	
	△ *5128089000	AC CORD [E]	
	△ *5128047000	AC CORD [UK]	
	△ *5350008300	AC CORD [A]	
6- 4	△ *5534660000	BUSHING 4N-4 [A]	
	△ *5534663000	BUSHING 6W-1 [C,E]	
	△ *5317001700	BUSHING 4N-5 [J,US,GE,UK]	
6- 5	△ 5230506400	TRANSISTOR, 2SB755-0	[Q008, Q010]
6- 6	△ 5231758400	TRANSISTOR, 2SD845-0	[Q009]
6- 7	△ 5230781300	TRANSISTOR, 2SC3181N(O)	[Q011]
6- 8	△ 13447954	IC NJM7808FA	[U004]
6- 9	*5200302400	D.PCB ASSY	REF. PAGES 45 & 51
6-10	*5801334700	PANEL (PS), REAR	
6-11	*5045407100	TERMINAL, GND	
6-12	*5200302200	CN(A) PCB ASSY	REF. PAGES 44 & 50
6-13		CHASSIS(L) (PS), SIDE	
6-14		CHASSIS(R) (PS), SIDE	
6-15	*5801335100	3U ANGLE (PS)	
6-16	△ 5302101700	SW., VOLTAGE SELECT FS907G	
6-17	△ 5320058400	TRANSFORMER, POWER [J,US,C]	
	△ 5320058600	TRANSFORMER, POWER [GE]	
	△ 5320058500	TRANSFORMER, POWER [E,UK,A]	
6-18	*5801335600	BRACKET, TRANSFORMER	
6-19	*5200302100	POWER SUPPLY PCB ASSY [J,US,C,GE]	REF. PAGES 30 & 46
	*5200302110	POWER SUPPLY PCB ASSY [E,UK,A]	REF. PAGES 30 & 46
6-20	*5801334900	PCB SUPPORT (PS)	
6-21	*5801334300	CHASSIS (PS), MAIN	
6-22	*5730002900	FOOT, FF-001	
6-23	*5200302500	P. SW PCB ASSY [J]	REF. PAGES 45 & 51
	*5200302510	P. SW PCB ASSY [US]	REF. PAGES 45 & 51
	*5200302520	P. SW PCB ASSY [C]	REF. PAGES 45 & 51
	*5200302530	P. SW PCB ASSY [GE]	REF. PAGES 45 & 51
	*5200302540	P. SW PCB ASSY [UK]	REF. PAGES 45 & 51
	*5200302550	P. SW PCB ASSY [E]	REF. PAGES 45 & 51
	*5200302560	P. SW PCB ASSY [A]	REF. PAGES 45 & 51
6-24	*5800663100	BRACKET, SWITCH	
6-25	5800173100	BUTTON, POWER	
6-26	*5800116200	ROD, A	
6-27	*5801334600	PANEL (PS), FRONT	
6-28	*5800535700	PROTECTOR, BUTTON	
6-29	*5317004400	SHEET, RADIATOR; M-30 D-3	
6-30	*5317004500	SHEET, RADIATOR; M-30 E-1	
6-31	*5786714000	CLIP, HARNESS 4.2X9.1X50	
6-32	*5780223006	SCREW, FLAT; M3X6 (BLK NI)	6-40 *5783533006 SCREW, BIND M3X6 (BLK NI)
6-33	*5780024008	SCREW, B M4X8 NI BLK	6-41 *5783543006 SCREW, BIND M3X6 (BLK NI)
6-34	*5783533008	SCREW, BIND M3X8 (BLK NI)	6-42 *5780003006 SCREW, B M3X6
6-35	*5781713006	BOLT, HEX M3X6 (BLK NI)	6-43 *5780023015 SCREW, BIND M3X15 (BLK NI)
6-36	*5785024200	WASHER, PLAIN 4X12X0.8T	6-44 *5780023008 SCREW, B M3X8 NI BLK
6-37	*5785124000	WASHER LOCK 4.0MM	6-45 *5801365600 PLATE, REAR; REINFORCEMENT
6-38	*5781814000	NUT M4	6-46 *5787042600 PCB SUPPORT, KGTS-6T
6-39	*5780003008	SCREW, B M3X8	6-47 *5783644008 SCREW, PAN; P-TITE M4X8

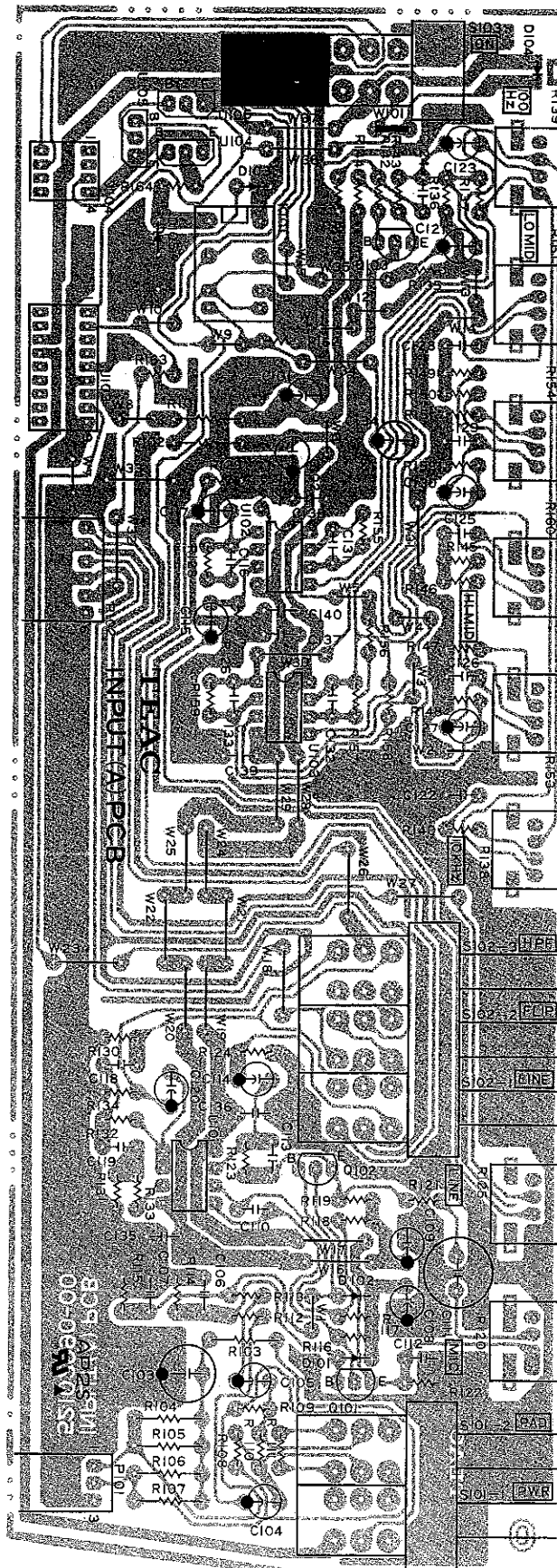
[J]: JAPAN [US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
[E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

Parts marked with *require longer delivery time.

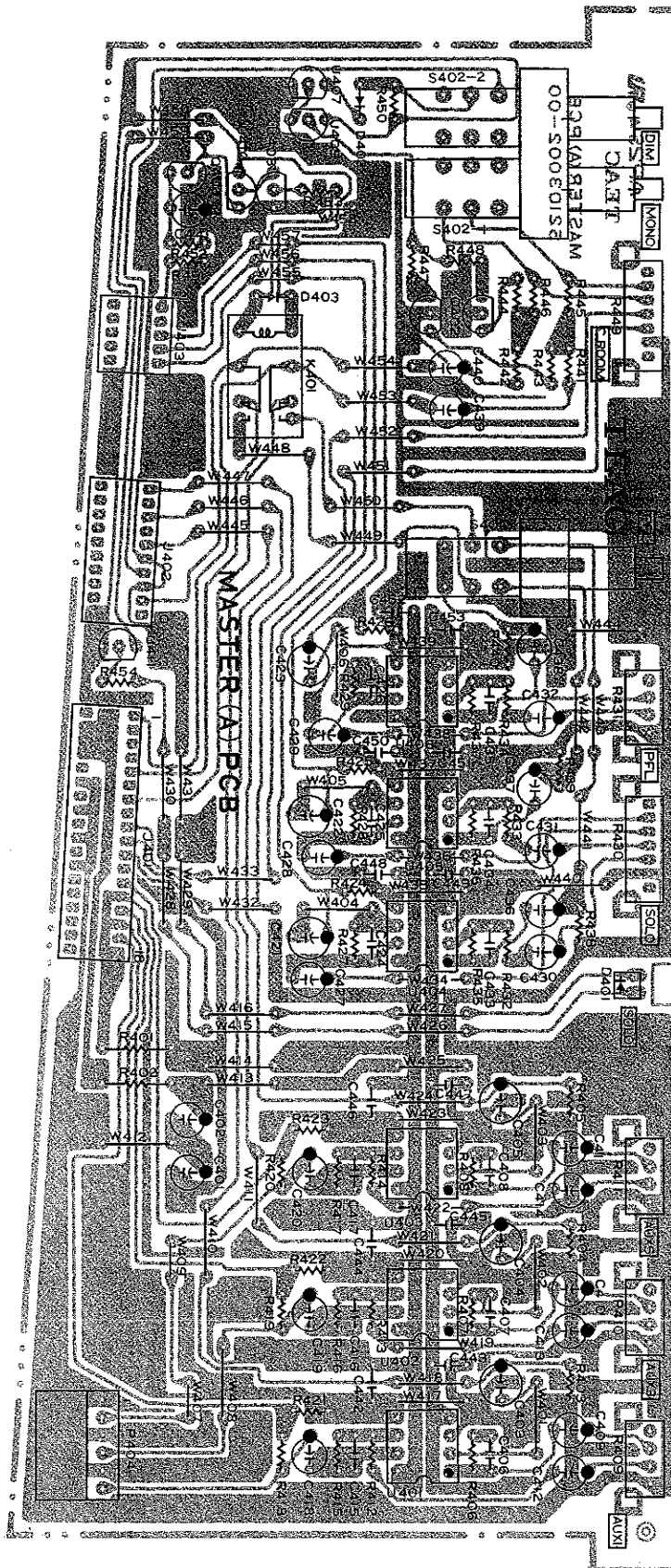
Power Supply PCB Ass'y



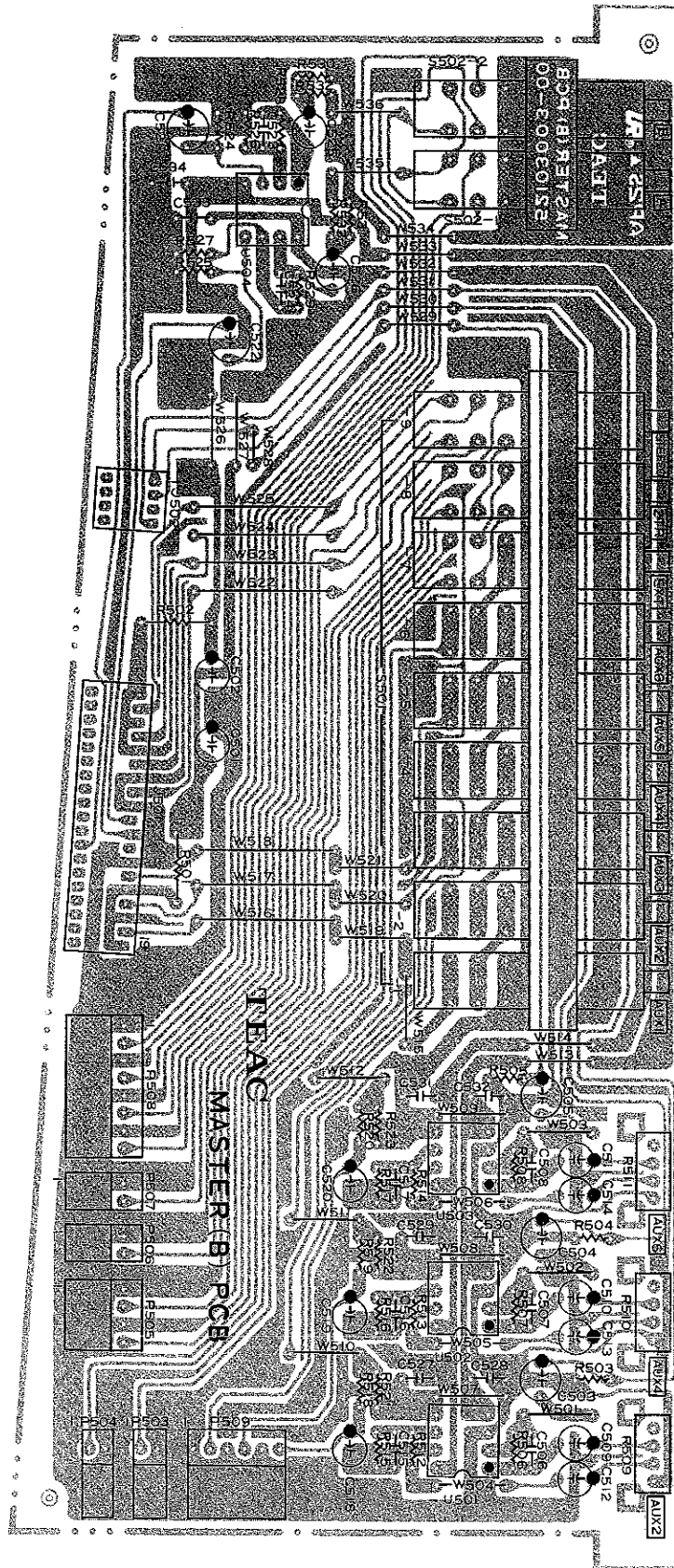
Input (A) PCB Ass'y



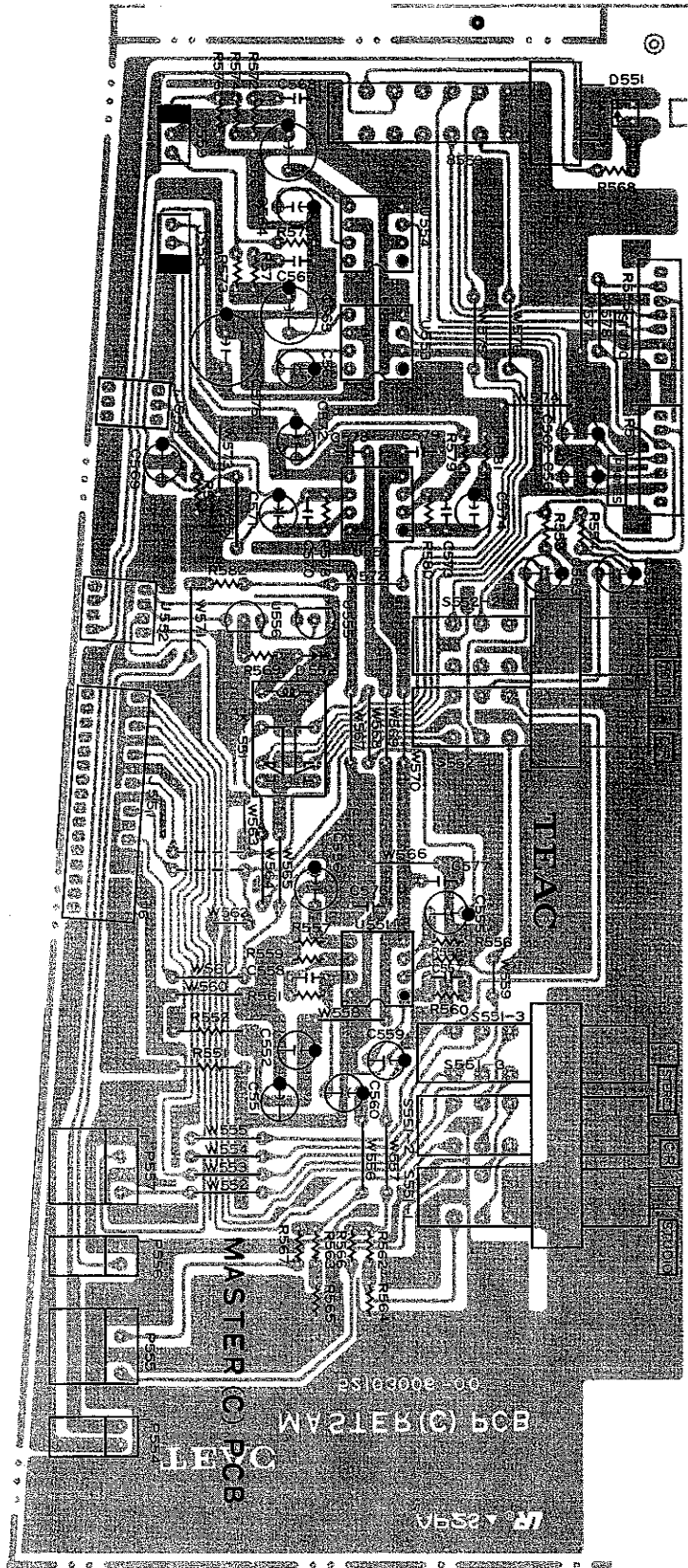
Master (A) PCB Ass'y



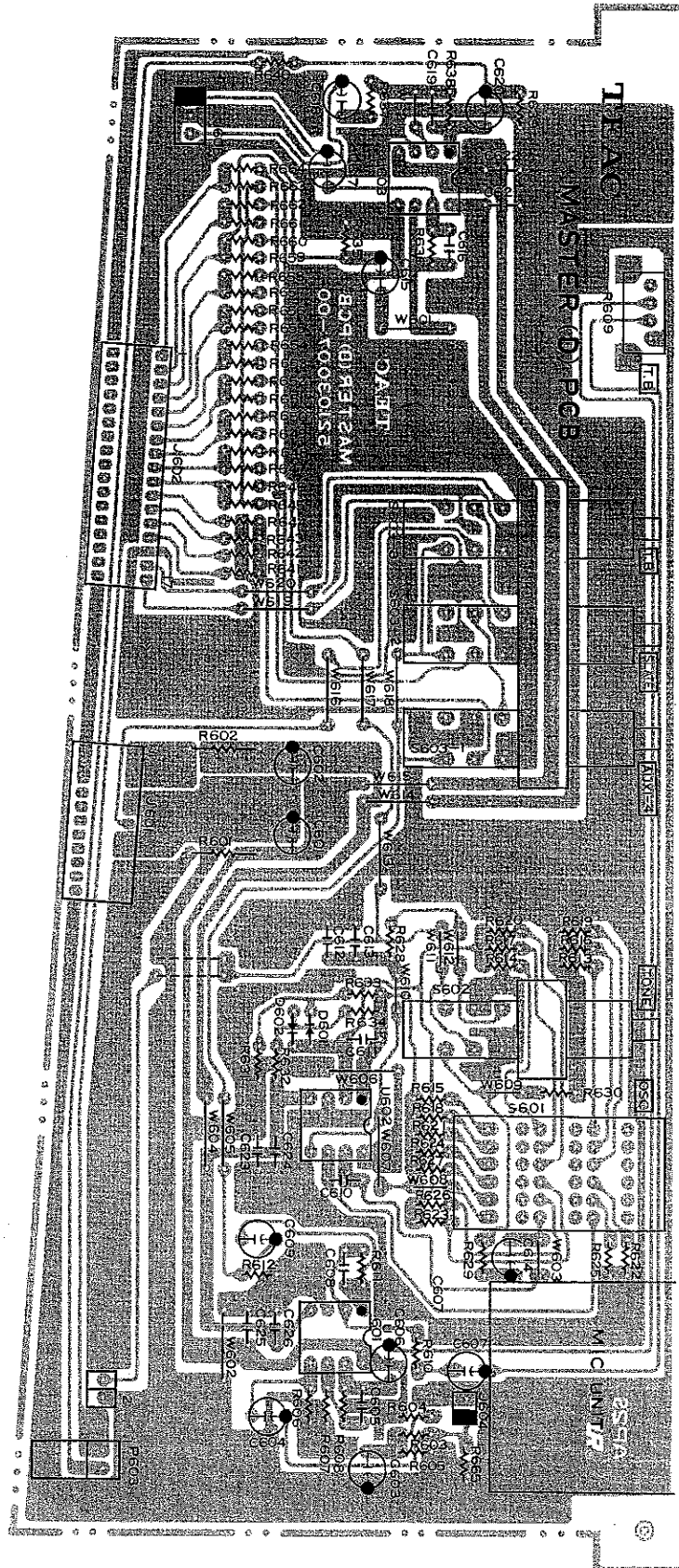
Master (B) PCB Ass'y



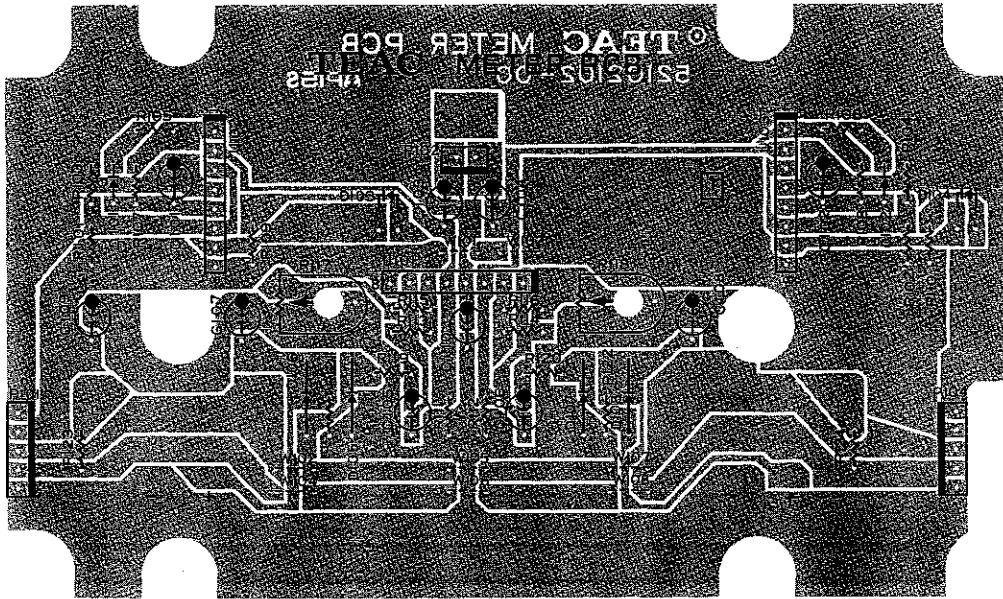
Master (C) PCB Ass'y



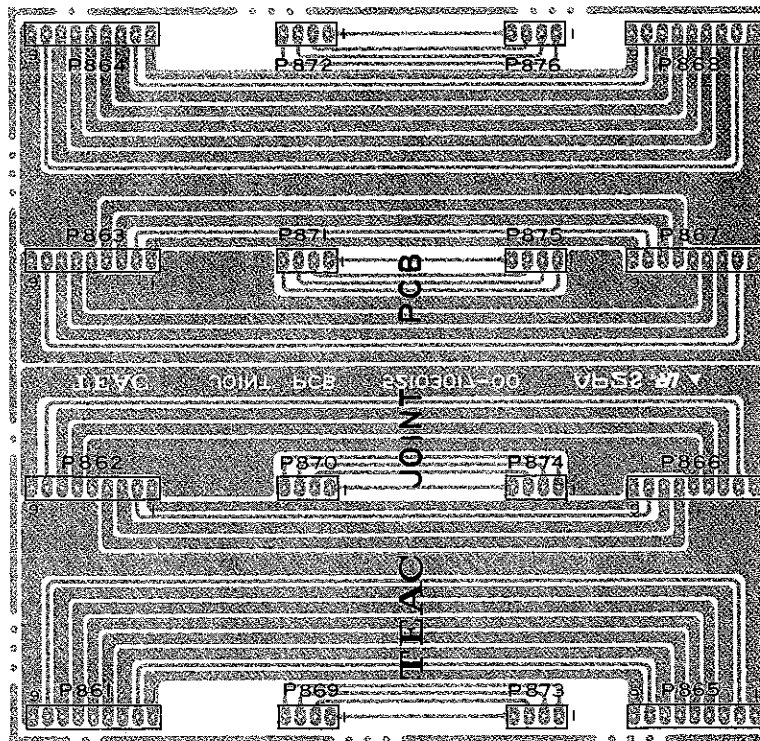
Master (D) PCB Ass'y



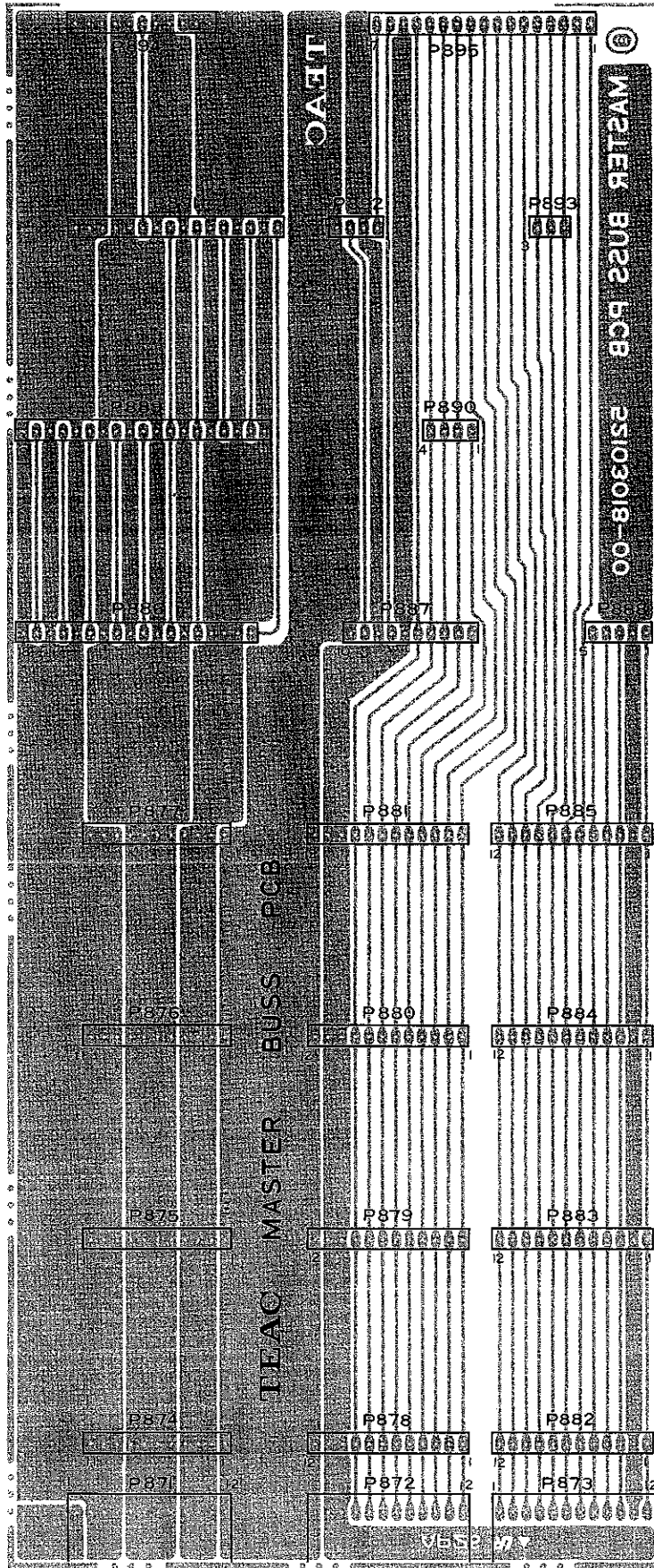
Meter PCB Ass'y



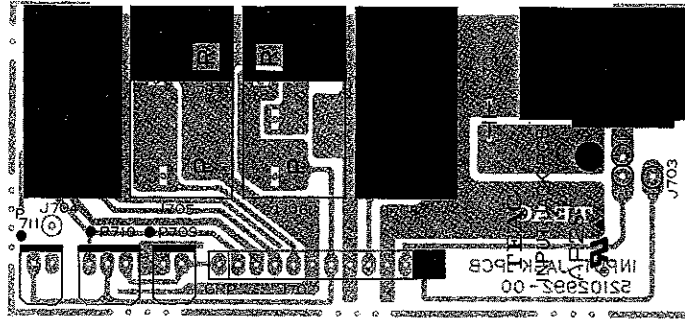
Joint PCB Ass'y



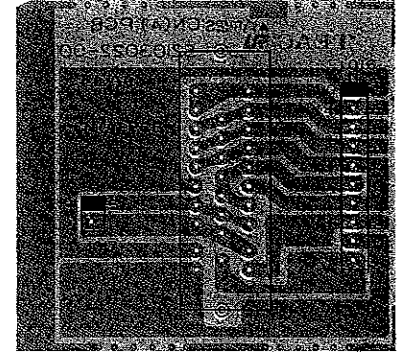
Master BUSS PCB Ass'y



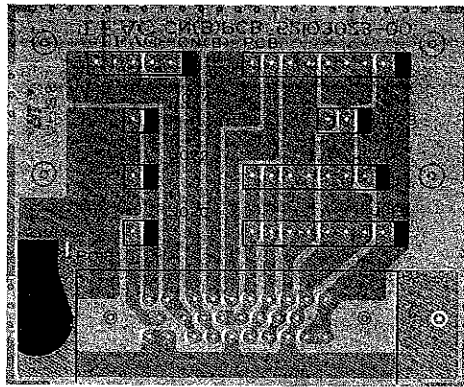
Input Jack PCB Ass'y



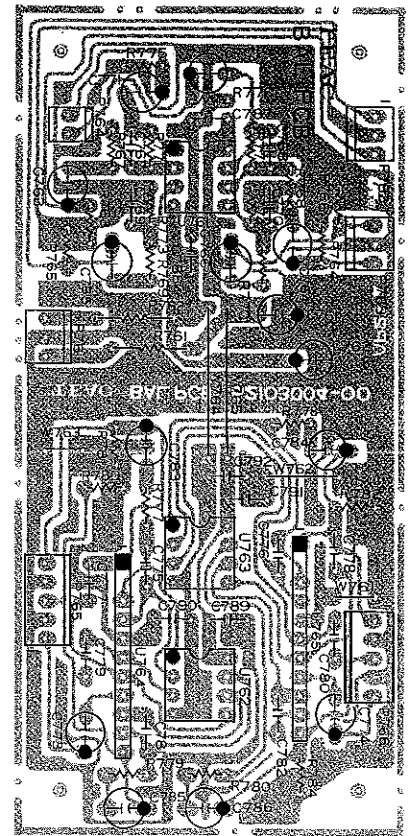
CN (A) PCB Ass'y



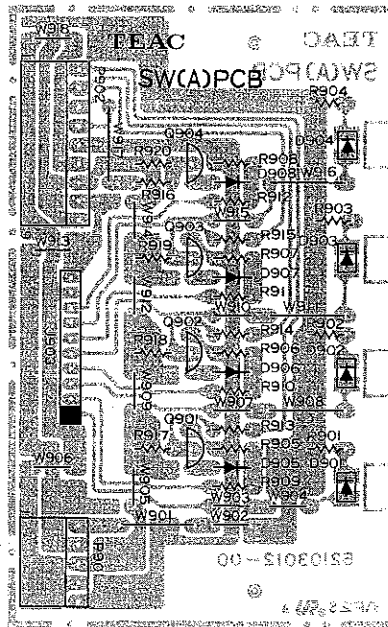
CN (B) PCB Ass'y



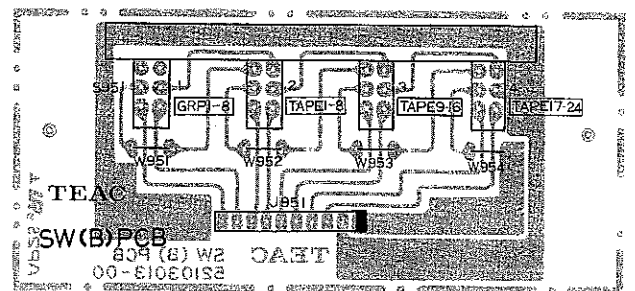
BAL PCB Ass'y



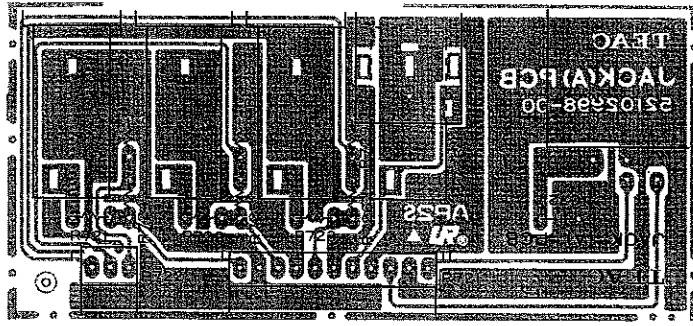
SW (A) PCB Ass'y



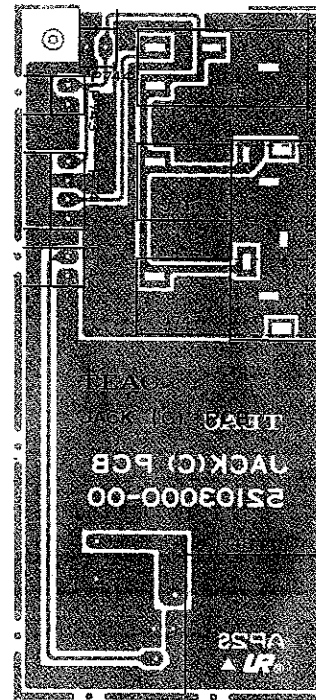
SW (B) PCB Ass'y



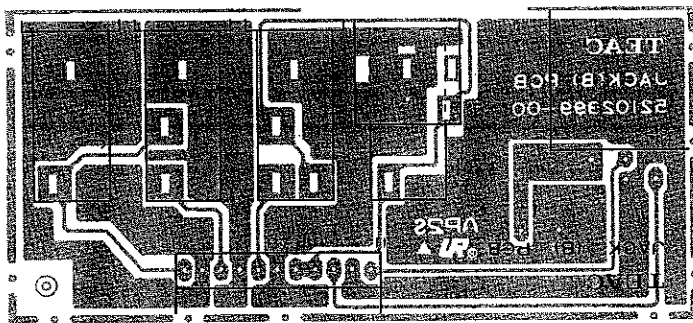
Jack (A) PCB Ass'y



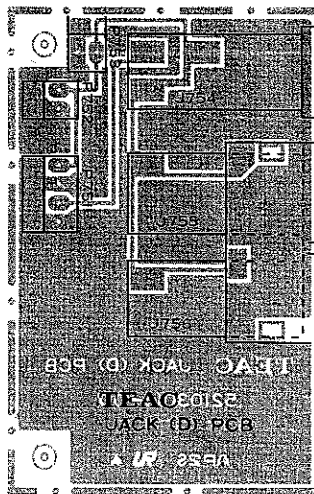
Jack (C) PCB Ass'y



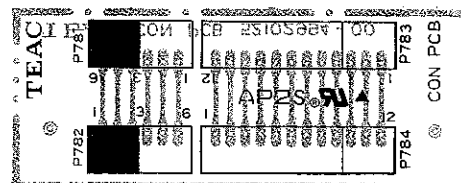
Jack (B) PCB Ass'y



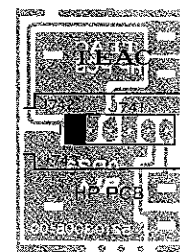
Jack (D) PCB Ass'y



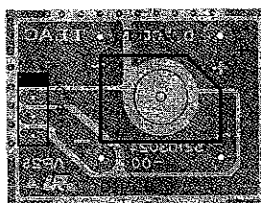
CON PCB Ass'y



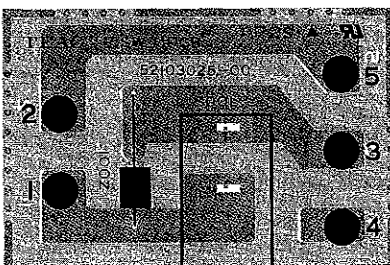
HP PCB Ass'y



D. PCB Ass'y



P. SW PCB Ass'y



FDR PCB Ass'y



POWER SUPPLY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200302100	POWER SUPPLY PCB ASSY [J,US,C,GE]
	*5200302110	POWER SUPPLY PCB ASSY [E,UK,A]
	*5210302100	POWER SUPPLY PCB
	△*5041237000	HOLDER,FUSE [J,US,C,GE]
	△*5332014200	HOLDER,FUSE [E,UK,A]
C001-004	5263164500	C.,POLYST 0.047UF 250V
C006 C008	△5262015000	C.,ELEC. 2200UF 35V SMH
C016	△5262015000	C.,ELEC. 2200UF 35V SMH
C021	△5260271610	C.,ELEC. 220UF 25V M SME
C025	△5262010900	C.,ELEC. 100UF:100V M VR
D003 D004	△5228005000	SILICON STACK,W02
D006 D007	5143089000	DIODE,W03C
D008	5224545501	DIODE,ZENER RD24EB3 FR
F001-003	△5307021600	FUSE,4A-250V [J,US,C,GE]
F001-003	△5142194000	FUSE,6.3A-250V [E,UK,A]
F004	△5307020800	FUSE 1.6A250V [J,US,C,GE]
F004	△5142188000	FUSE,1.6A-250V [E,UK,A]
F005	△5307020400	FUSE,1A-250V [J,US,C,GE]
F005	△5041140000	FUSE,1A-250V [E,UK,A]
P001	5336090900	CON.,PLUG 5281-09A
P003 P004	5336090400	CON.,PLUG 5281-04A
P006-009	5336090300	CON.,PLUG 5281-03A
P011	5336090300	CON.,PLUG 5281-03A
P012	5336090800	CON.,PLUG 5281-08A
Q001 Q003	5230014000	TRANSISTOR,2SA1020-Y
Q002 Q004	5230773800	TRANSISTOR,2SC2655-Y
Q006 Q007	5230773800	TRANSISTOR,2SC2655-Y
R001 R002	△5184247000	R.,INCOMBUSTIBLE 82 OHM
R003-006	5185190000	R.,METAL PLATE 0.22 2W
R009	△5184247000	R.,INCOMBUSTIBLE 82 OHM
R010 R011	△5185190000	R.,METAL PLATE 0.22 2W
R014	△5184341000	R.,CEMENT 2W 6.8K 10%
R015	5180086000	R.,CARBON R50 1.5K J
R016	△5052810000	R.,INCOMBUSTIBLE 10 J
R018	△5184337000	R.,CEMENT 2W 3.3K 10%
U001	△13447957	IC NJM7815FA
U002	△13447974	IC NJM7915FA
U003	△13447956	IC NJM7812FA

INPUT(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299100	INPUT(B) PCB ASSY [M-3500-32:Ch 1-24] [M-3500-24:Ch 1-16]
	*5200299110	INPUT(B) PCB ASSY [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]
	*5210299100	INPUT(B) PCB
D201 D202	5225018500	LED,SLR-34DU3F
D203 D205	5225013500	LED SLR-34VR3F (RED)
D204	5225018500	LED,SLR-34DU3F

INPUT(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
J201	5336281900	SOCKET,CONNECTOR 9P
J207-209	5336282200	CONNECTOR,SOCKET 12P
P203	5336141600	CONNECTOR,PLUG 8263-0611 [M-3500-32:Ch 1-24] [M-3500-24:Ch 1-16]
P203	5336141400	CONNECTOR,PLUG 8263-0411 [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]
P205	5336128300	CONNECTOR,PLUG 3P WHT
Q201 Q203	5230779520	TRANSISTOR,2SC1815GR
Q202	5230012920	TRANSISTOR,2SA1015GR
R201 R202	△5183562000	R.,INCOMBUSTIBLE 22 1/4W
R207-210	5282022200	IS1UVR 11 50K(D)
R231 R232	5282416200	IS2UVR 14 5K(AC)
S201	5300053900	SWICH,PUSH 3-2 SN SPUN
S202 S204	5300054400	SWITCH,PUSH 1-2 SN SPUN
S203	5300053800	SWITCH,PUSH 3-2 LN SPUN [M-3500-32:Ch 1-24] [M-3500-24:Ch 1-16]
S203	5300054100	SWITCH,PUSH 2-2 LN SPUN [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]
S205	5300053600	SWITCH,PUSH 5-2 SN SPUN
S206	5300054000	SWITCH,PUSH,2GANG SN SPUN
U201 U202	5220443200	IC NJM4580D

INPUT(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299000	INPUT(A) PCB ASSY
	*5210299000	INPUT(A) PCB
D101 D102	5224015020	DIODE,ISS133T-77
D104	5225013600	LED SLR-34MG3F (BRN)
J103	5336281900	SOCKET,CONNECTOR 9P
P101	5336128300	CONNECTOR,PLUG 3P WHT
P102	5336128600	CON.,PLUG 8263-0611 WHT
Q101 Q102	5145119000	TRANSISTOR,2SC-1844F
Q103	5230780500	TRANSISTOR,2SC3112B
R101 R102	△5183562000	R.,INCOMBUSTIBLE 22 1/4W
R103	△5183570000	R.,INCOMBUSTIBLE 47 1/4W
R104-107	5241067320	R.,METAL FILM 13K F Z
R116 R117	5241459420	R.,METAL FILM 3.3K F FT
R118 R119	5241460220	R.,METAL FILM 6.8K F FT
R120	5282021800	IS1UVR 11 5K(RD)
R122 R123	5241460920	R.,METAL FILM 13K F
R125	5282022300	IS1UVR 11 20K(A)
R138 R139	5282022000	IS1UVR 11 100K(W)
R153 R154	5282416400	IS2UVR 11 100K(CC)
R160 R161	5282021900	IS1UVR 11 10K(B)
S101	5300054200	SWITCH,PUSH 2-2 SN SPUN
S102	5300053900	SWITCH,PUSH 3-2 SN SPUN
S103	5300054300	SWITCH,PUSH 1-4 SN SPUN
U101-103	5220443200	IC NJM4580D

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Parts marked with *require longer delivery time.

MASTER(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300200	MASTER(A) PCB ASSY
	*5210300200	MASTER(A) PCB
D401	13419406	PHOTO-ELEMENT LD-101VR
D402 D403	5224015020	DIODE,ISSI33T-77
J401	5336282800	CON.,SOCKET 18P 1L-SDA-S
J402	5336282000	CON.,SOCKET 10P 1L-SDA-S
J403	5336281500	CON.,SOCKET 5P 1L-SDA-S
K401	5290012700	RELAY,12V G5A-237PL
P404	5336128600	CON.,PLUG 8263-0611 WHT
Q401 Q402	5231762520	TRANSISTOR,2SD1915T,A
Q403	5230779520	TRANSISTOR,2SC1815GR
R401 R402 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R409-411	5282022100	1S1UVR 11 10K(A)
R430	5282416100	1S2UVR 14 10KAX2
R431	5282022100	1S1UVR 11 10K(A)
R449	5282416100	1S2UVR 14 10KAX2
S401	5300054400	SWITCH,PUSH 1-2 SN SPUN
S402	5300054200	SWITCH,PUSH 2-2 SN SPUN
U401-406	5220443200	IC NJM4580D
U407 U408	5232252520	TRANSISTOR,DIG.RTIN24IS
U409-411	5232252620	TRANSISTOR,DIG.RTIP24IS

MASTER(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300300	MASTER(B) PCB ASSY
	*5210300300	MASTER(B) PCB
J501	5336282900	CON.,SOCKET 19P 1L-SDA-S
J502	5336281400	CON.,SOCKET 4P
P503	5336128200	CON.,PLUG 8263-0211 WHT
P504	5336141200	CON.,PLUG 8263-0211 BLK
P505	5336128400	CON.,PLUG WHITE
P506	5336139200	CON.,PLUG 8263-0211 RED
P507	5336147200	CON.,PLUG 8263-0211 YEL
P508	5336128800	CON.,PLUG WHITE
P509	5336128600	CON.,PLUG 8263-0611 WHT
R501 R502 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R509-511	5282022100	1S1UVR 11 10K(A)
S501	5300053500	SWITCH,PUSH 9-2 LN SPUN
S502	5300054100	SWITCH,PUSH 2-2 LN SPUN
U501-504	5220443200	IC NJM4580D

MASTER(C) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300600	MASTER(C) PCB ASSY
	*5210300600	MASTER(C) PCB
C565 C566	5260425720	C.,ELEC 470UF 10V M AS
C567 C568	5263167523	C.,METAL 0.047UF/50V J
C575	5260426310	C.,EREC.1000UF 10V
D551	5225013600	LED SLR-34MG3F (GRN)
D552	5224015020	DIODE,ISSI33T-77
J551	5336282600	CON.,SOCKET 16P 1L-SDA-S
J552	5336281400	CON.,SOCKET 4P
J553	5336281300	CON.,SOCKET 3P 1L-SDA-S
K551	5290012700	RELAY,12V G5A-237PL
P554	5336128200	CON.,PLUG 8263-0211 WHT
P555	5336128400	CON.,PLUG WHITE
P556	5336141200	CON.,PLUG 8263-0211 BLK
P557	5336141400	CON.,PLUG 8263-0411 BLK
R551 R552 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R555	5282416100	1S2UVR 14 10KAX2
R570	5282416100	1S2UVR 14 10KAX2
S551	5300053800	SWITCH,PUSH 3-2 LN SPUN
S552	5300054200	SWITCH,PUSH 2-2 SN SPUN
S553	5300054300	SWITCH,PUSH 1-4 SN SPUN
U551 U552	5220443200	IC NJM4580D
U553 U554	6048649000	IC NJM386D
U555	5232252620	TRANSISTOR,DIG. RTIP24IS
U556	5232252520	TRANSISTOR,DIG. RTIN24IS

MASTER(D) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300700	MASTER(D) PCB ASSY
	*5210300700	MASTER(D) PCB
D601 D602	5224015020	DIODE,ISSI33T-77
J601	5336282100	CON.,SOCKET 11P 1L-SDA-S
J602	5336282500	CON.,SOCKET 15P 1L-SDA-S
M601	5347007700	MIC.,CONDENSER WM-034CY
P603	5336128200	CON.,PLUG 8263-0211 WHT
R601 R602 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R609	5282022100	1S1UVR 11 10K(A)
S601	5301206600	SWITCH,ROTARY SRBU36
S602	5300054400	SWITCH,PUSH 1-2 SN SPUN
S603	5300053700	SWITCH,PUSH 3-2 NN SPUN
U601-603	5220443200	IC NJM4580D

Parts marked with *require longer delivery time.

RTN(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299600	RTN(A) PCB ASSY [EFF 1]
	*5200299610	RTN(A) PCB ASSY [EFF 3]
	*5210299600	RTN(A) PCB
D301	5225013500	LED SLR-34VR3F (RED)
D302	5225018500	LED,SLR-34DU3F
J301	5336282100	CON.,SOCKET 11P 1L-SDA-S
J302 J303	5336282200	CON.,SOCKET 12P 1L-SDA-S
P305	5336128300	CON.,PLUG 3P WHT
P308	5336139200	CON.,SOCKET 8263-0211 RED
P309	5336128200	CON.,PLUG 8263-0211 WHT
P310	5336141200	CON.,SOCKET 8263-0211 BLK
R301 R302 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R316	5282416200	1S2UVR 14 5K(AC)
S301	5300053600	SWITCH,PUSH 5-2 SN SPUN
S302	5300054000	SWITCH,PUSH 2 GANG SPUN
U301-303	5220443200	IC NJM4580D

RTN(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299700	RTN(B) PCB ASSY [EFF 2]
	*5200299710	RTN(B) PCB ASSY [EFF 4]
	*5210299700	RTN(B) PCB
D351	5225013500	LED SLR-34VR3F (RED)
D352	5225018500	LED,SLR-34DU3F
J351	5336282100	CON.,SOCKET 11P 1L-SDA-S
J352 J353	5336282200	CON.,SOCKET 12P 1L-SDA-S
P354	5336141300	CON.,PLUG 8263-0311 BLK
P355	5336128300	CON.,PLUG 3P WHT
P358	5336141200	CON.,PLUG 8263-0211 BLK
P359	5336139200	CON.,PLUG 8263-0211 RED
P360	5336147200	CON.,PLUG 8263-0211 YEL
R351 R352 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R366	5282416200	1S2UVR 14 5K(AC)
S351	5300053600	SWITCH,PUSH 5-2 SN SPUN
S352	5300054000	SWITCH,PUSH 2 GANG SPUN
U351 U352	5220443200	IC NJM4580D

METER(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301000	METER(A) PCB ASSY
	*5210301000	METER(A) PCB
P101 P501	5336128800	CON.,PLUG WHITE
P103	5336126900	CON.,PLUG 8263-0912 WHT
P201 P601	5336141800	CON.,PLUG 8263-0811 BLK
P301 P701	5336139800	CON.,PLUG 8263-0811 RED
P401 P801	5336147800	CON.,PLUG 8263-0811 YEL
R115 R215	5280020500	R.,SEMI-FIXED; 470(B)
R315 R415	5280020500	R.,SEMI-FIXED; 470(B)
R515 R615	5280020500	R.,SEMI-FIXED; 470(B)
R715 R815	5280020500	R.,SEMI-FIXED; 470(B)
R118 R119	5183562000	R.,INCOMBUSTIBLE 22 1/4W
U101 U201	5220418800	IC M5218P
U102 U202	5220418800	IC M5218P
U103 U203	5220036200	IC LC4966
U104 U304	5220436500	IC TA7318P-1(-2)
U301 U401	5220418800	IC M5218P
U302 U402	5220418800	IC M5218P
U303 U403	5220036200	IC LC4966
U501 U601	5220418800	IC M5218P
U502 U602	5220418800	IC M5218P
U503 U603	5220036200	IC LC4966
U504 U704	5220436500	IC TA7318P-1(-2)
U701 U801	5220418800	IC M5218P
U702 U802	5220418800	IC M5218P
U703 U803	5220036200	IC LC4966

METER(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301100	METER(B) PCB ASSY
	*5210301100	METER(B) PCB
	*5332017600	IC SOCKET 20P (DD)
C153 C253	5263167923	C.,METAL 0.1UF 50V J
C353 C453	5263167923	C.,METAL 0.1UF 50V J
C553 C653	5263167923	C.,METAL 0.1UF 50V J
C753 C853	5263167923	C.,METAL 0.1UF 50V J
D151 D152	5225019500	LED ARRAY SLA-4651
D153 D253	5225019400	LED ARRAY SLA-1651 (RED)
D251 D252	5225019500	LED ARRAY SLA-4651
D351 D352	5225019500	LED ARRAY SLA-4651
D353 D453	5225019400	LED ARRAY SLA-1651 (RED)
D451 D452	5225019500	LED ARRAY SLA-4651
D551 D552	5225019500	LED ARRAY SLA-4651
D553 D653	5225019400	LED ARRAY SLA-1651 (RED)
D651 D652	5225019500	LED ARRAY SLA-4651
D751 D752	5225019500	LED ARRAY SLA-4651
D753 D853	5225019400	LED ARRAY SLA-1651 (RED)
D851 D852	5225019500	LED ARRAY SLA-4651
U151 U251	5220059100	IC IR2E03
U351 U451	5220059100	IC IR2E03
U551 U651	5220059100	IC IR2E03
U751 U851	5220059100	IC IR2E03

Parts marked with *require longer delivery time.

METER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200210200	METER PCB ASSY
	*5210210200	METER PCB
	*5800385100	LED SPACER
D101D102	5224015020	DIODE,ISS133T-77
D103D104	5225017400	LED,BR3638S(RED)
D105D106	5224015400	DIODE,1K60
D107D108	5224015400	DIODE,1K60
M101M102	5296006101	METER,VU
P101	5336210500	CON.,PLUG 5129-5A
P102	5336210200	CON.,PLUG 5129-2A
R117R118	5280002902	R.,SEMI-FIXED;2K(B)
U101U102	5220416200	IC M5218L
U103	5220416200	IC M5218L

JOINT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301700	JOINT PCB ASSY
	*5210301700	JOINT PCB
P861-868	5336279900	PLUG,CONN.,9P

MAIN BUSS PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301900	MAIN BUSS PCB ASSY [INPUT]
	*5200301910	MAIN BUSS PCB ASSY [INPUT,MASTER]
	*5210301900	MAIN BUSS PCB
P801-803	5336288200	CON.,PLUG S12B-PH-K-S WHT
P810-812	5336288200	CON.,PLUG S12B-PH-K-S WHT [INPUT,MASTER]
P813	5336288100	CON.,PLUG S11B-PH-K-S WHT [INPUT,MASTER]
P814	5336287200	CON.,PLUG S2B-PH-K-S WHT [INPUT,MASTER]

SUB BUSS PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301600	SUB BUSS PCB ASSY
	*5210301600	SUB BUSS PCB
P841-852	5336280200	CONN.PLUG,1L-SDA-P
P853-855	5336288200	CON.,PLUG S12B-PH-K-S WHT

MASTER BUSS PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301800	MASTER BUSS PCB ASSY
	*5210301800	MASTER BUSS PCB
P871-873	5336288200	CON.,PLUG S12B-PH-K-S WHT
P874-877	5336280100	CON.,PLUG 11P 1L-SDA-P
P878-885	5336280200	CONN.PLUG,1L-SDA-P
P886	5336280800	CON.,PLUG 18P 1L-SDA-P
P887	5336280000	CON.,PLUG 10P 1L-SDA-P
P888	5336279500	CON.,PLUG 5P 1L-SDA-P
P889	5336280900	CON.,PLUG 19P 1L-SDA-P
P890 P892	5336279400	PLUG,CONNECT.4P
P891	5336280600	CON.,PLUG 16P 1L-SDA-P
P893	5336279300	CON.,PLUG 3P 1L-SDA-P
P894	5336280100	CON.,PLUG 11P 1L-SDA-P
P895	5336280500	CON.,PLUG 15P 1L-SDA-P

INPUT JACK PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299200	INPUT JACK PCB ASSY [M-3500-32:Ch 25-32/ US,C]
	*5200299210	INPUT JACK PCB ASSY [M-3500-32:Ch 1-24/ US,C]
	*5200299220	INPUT JACK PCB ASSY [M-3500-24:Ch 17-24/ Except US,C]
	*5200299230	INPUT JACK PCB ASSY [M-3500-24:Ch 1-16/ Except US,C]
	*5210299200	INPUT JACK PCB
J703	5334066400	SOCKET,CANNON HA16PRM-3SA
J704	5330015600	JACK 3 POLE W/SWITCH
J705 J706	5330011500	JACK,B11-5013 [Except US,C]
J707	5330513200	JACK PIN 2P [US,C]
J708	5330011500	JACK,B11-5013 SINGLE
P709	5336128200	CON.,PLUG 8263-0211 WHT [M-3500-32:Ch 25-32] [M-3500-24:Ch 17-24]
P710	5336141200	CON.,PLUG 8263-0211 BLK
P711	5336139200	CON.,PLUG 8263-0211 RED

CN(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200302300	CN(B) PCB ASSY
	*5210302300	CN(B) PCB
	5334072600	CON.,PLUG PR-1628BA-STA
	*5555590000	PLATE,GND A

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Parts marked with *require longer delivery time.

SW(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301200	SW(A) PCB ASSY
	*5210301200	SW(A) PCB
D901-904	13419406	PHOTO-ELEMENT LD-101VR
D905-908	5224015020	DIODE,ISSI33T-77
P901	5336128500	CONNECTOR,PLUG 0511 WHT
P902	5336128900	CON.,PLUG 8263-0911 WHT
Q901-904	5230012920	TRANSISTOR,2SA1015GR

CN(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200302200	CN(A) PCB ASSY
	*5210302200	CN(A) PCB
	5336217400	CON.,SOCKET SD-1628A-STA
	*5801335000	CON. ANGLE(PS)

BAL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300400	BAL PCB ASSY
	*5210300400	BAL PCB
P761	5336126300	CON.,PLUG 3P
P762	5336137300	CON.,PLUG 8263-0312 BLK
P763	5336135300	CON.,PLUG 8263-0312 RED
P764	5336126200	CON.,PLUG 2P
P765	5336126500	CON.,PLUG 5P
P766	5336137500	CON.,PLUG 8263-0512 RED
R761 R762 Δ	5183562000	R.,INCOMBUSTIBLE 22 1/4W
R767-770	5241461420	R.,METAL FILM 22K F
R771-774	5241460020	R.,METAL FILM 5.6K F
U761-763	5220431800	1C NE5532AN
U764 U765	5242127300	R.ARRAY RMNZB 628

SW(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301300	SW(B) PCB ASSY
	*5210301300	SW(B) PCB
S001	5300030900	SW.,POWER SDLAIP

JACK(A) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299800	JACK(A) PCB ASSY [US,C]
	*5200299810	JACK(A) PCB ASSY [Except US,C]
	*5210299800	JACK(A) PCB
J723-725	5330011500	JACK,B11-5013 SINGLE
J726	5330513000	JACK,PIN IP YKB11-0250B [US,C]
J726	5330011500	JACK,B11-5013 [Except US,C]
J727	5334066400	SOCKET,CANNON HA16PRM-3SA
P721	5336129100	CON.,PLUG 8263-1111 WHT
P722	5336128300	CON.,PLUG 3P WHT

JACK(B) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299900	JACK(B) PCB ASSY [US,C]
	*5200299910	JACK(B) PCB ASSY [Except US,C]
	*5210299900	JACK(B) PCB
J732	5330011500	JACK,B11-5013 SINGLE
J733	5330010800	JACK,SINGLE
J734	5330015600	JACK,3 POLE;W/SWITCH
J735	5330513000	JACK,PIN IP YKB11-0250B [US,C]
J735	5330011500	JACK,B11-5013 [Except US,C]
J736	5334072500	SOCKET,CANNON HA16RM-3PA
P731	5336129100	CON.,PLUG 8263-1111 WHT

JACK(D) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200301400	JACK(D) PCB ASSY [US,C]
	*5200301410	JACK(D) PCB ASSY [Except US,C]
	*5210301400	JACK(D) PCB
J754	5330015600	JACK,3 POLE;W/SWITCH
J755	5330513200	JACK,PIN 2P [US,C]
J755 J756	5330011500	JACK,B11-5013 [Except US,C]
P751	5336128400	CON.,PLUG 8263-0411 WHT
P752	5336141200	CON.,PLUG 8263-0211 BLK
P753	5336139200	CON.,PLUG 8263-0211 RED

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Parts marked with *require longer delivery time.

P.SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200302500	P.SW PCB ASSY [J]
	*5200302510	P.SW PCB ASSY [US]
	*5200302520	P.SW PCB ASSY [C]
	*5200302530	P.SW PCB ASSY [GE]
	*5200302540	P.SW PCB ASSY [UK]
	*5200302550	P.SW PCB ASSY [E]
	*5200302560	P.SW PCB ASSY [A]
	*5210302500	P.SW PCB
S951	△ *5327007200	TERMINAL, 2P [E, UK, A]
	△ 5300053400	SWITCH, PUSH 4-2 LN SPUJ
Z001	△ 5052907000	CR., 0.01+300 400V [J, GE]
Z001	△ 5052910000	CR., 0.033+120 [US]
Z001	△ 5292002600	CR., 0.033+120 125V [C]
Z001	△ 5267703800	SPARK KIL., 4700PF [E, UK, A]

JACK(C) PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200300000	JACK(C) PCB ASSY [US, C]
	*5200300010	JACK(C) PCB ASSY [Except US, C]
J745	*5210300000	JACK(C) PCB
	5330015600	JACK, 3 POLE; W/SWITCH
J746	5330513200	JACK, PIN 2P [US, C]
J746 J747	5330011500	JACK, B11-5013 SINGLE [Except US, C]
J748	5334072500	SOCKET, CANNON HA16RM-3PA
P741	5336128400	CON., PLUG WHITE
P742	5336128200	CON., PLUG 8263-0211 WHT
P743	5336141200	CON., PLUG 8263-0211 BLK
P744	5336139200	CON., PLUG 8263-0211 RED

CON PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200299400	CON PCB ASSY [INPUT, GRP 2, 4, 6, 8]
P781 P782	*5210299400	CON PCB
	5336287300	CON., PLUG S3B-PH-K-S WHT
	*5200299420	CON PCB ASSY [GRP 1, 3, 5]
P781	*5210299400	CON PCB
P782	5336291300	CON., PLUG S3B-PH-K-R RED
	5336287300	CON., PLUG S3B-PH-K-S WHT
	*5200299430	CON PCB ASSY [GRP 7, MASTER]
P781 P782	*5210299400	CON PCB
P783 P784	5336287300	CON., PLUG S3B-PH-K-S WHT
	5336291300	CON., PLUG S3B-PH-K-R RED

[J]: JAPAN [US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT
 [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

Parts marked with *require longer delivery time.

D.PCB ASSY

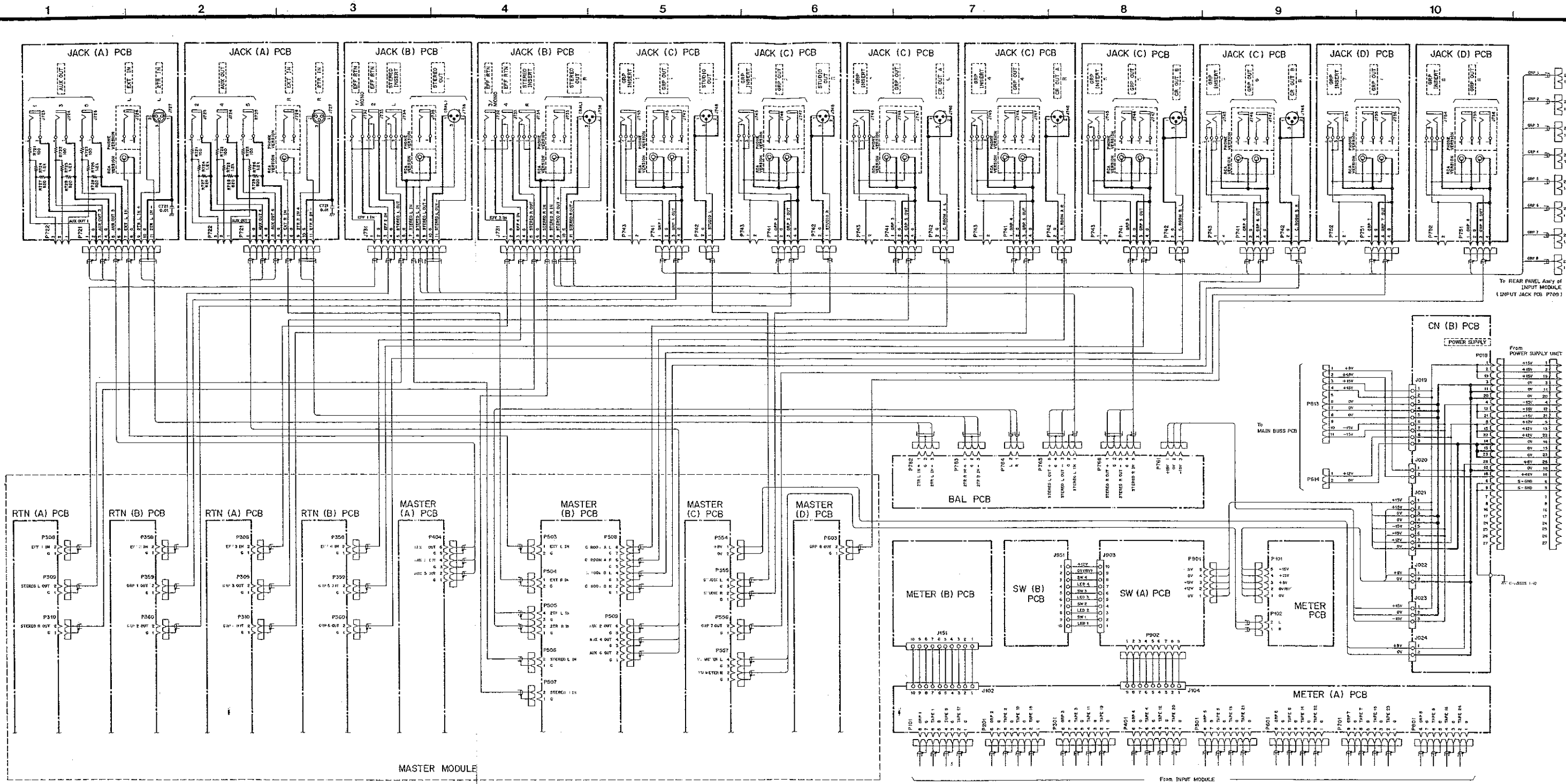
REF. NO.	PARTS NO.	DESCRIPTION
	*5200302400	D.PCB ASSY
	*5210302400	D.PCB
D001	5228013900	SILICON STACK, 10D4B41

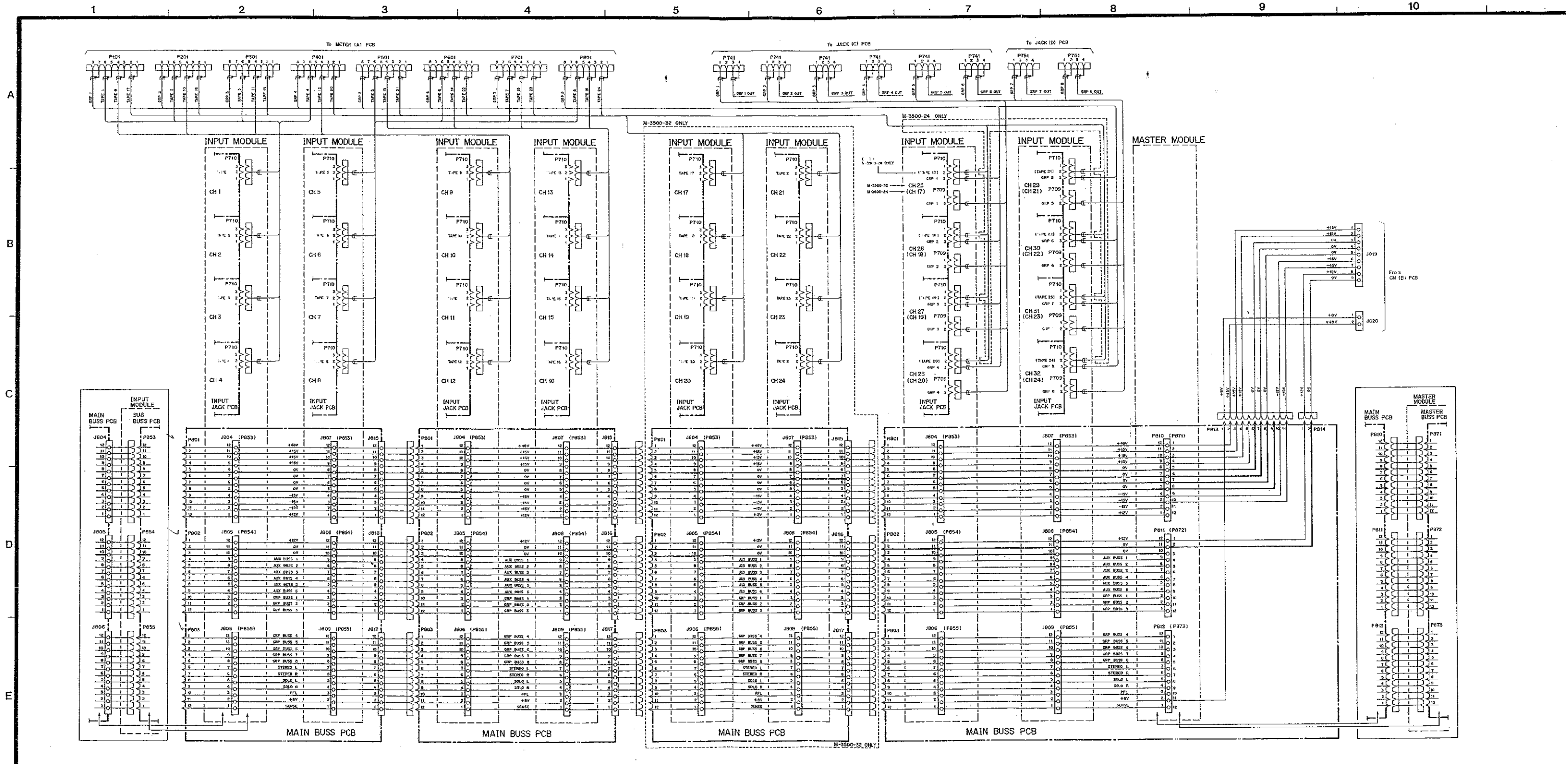
HP PCB ASSY

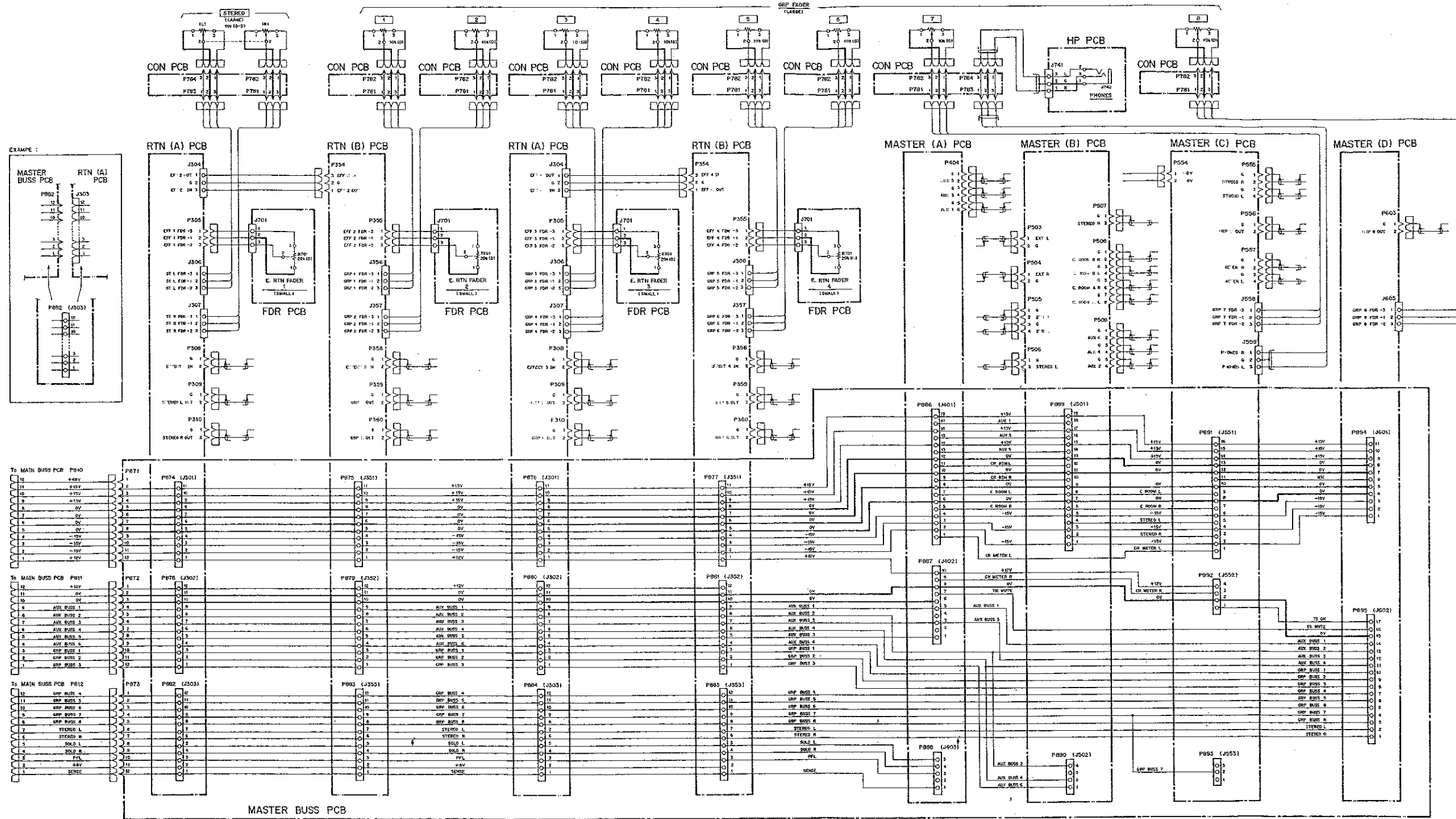
REF. NO.	PARTS NO.	DESCRIPTION
	*5200300800	HP PCB ASSY
	*5210300800	HP PCB
J742	5330009000	JACK, PIN 3P PHONE

FDA PCB ASSY

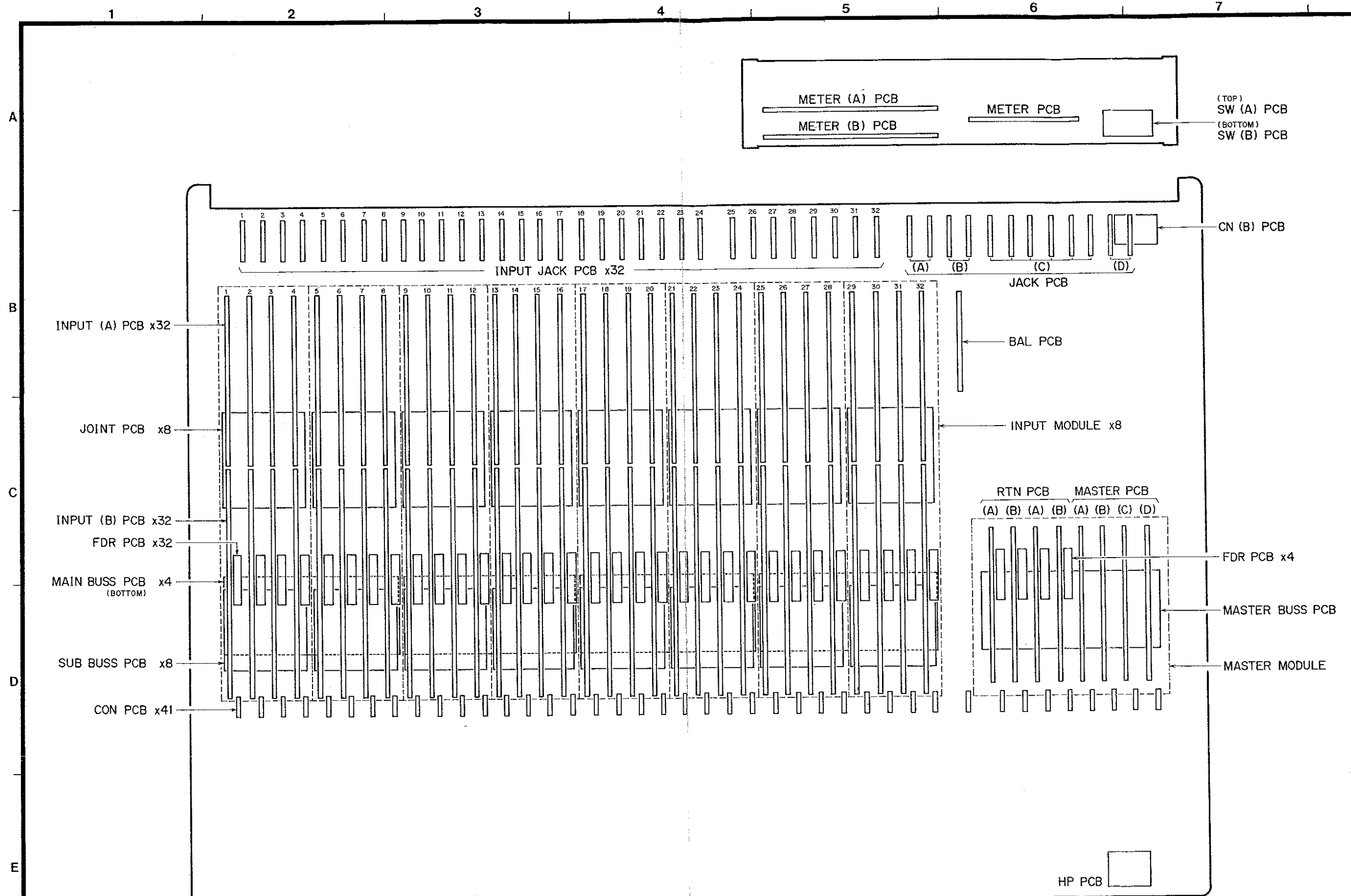
REF. NO.	PARTS NO.	DESCRIPTION
	*5200299300	FDR PCB ASSY
	*5210299300	FDR PCB
	5284015900	SLIDE VR 45 1U 10K(D)
	*5801326800	SPRING, GND





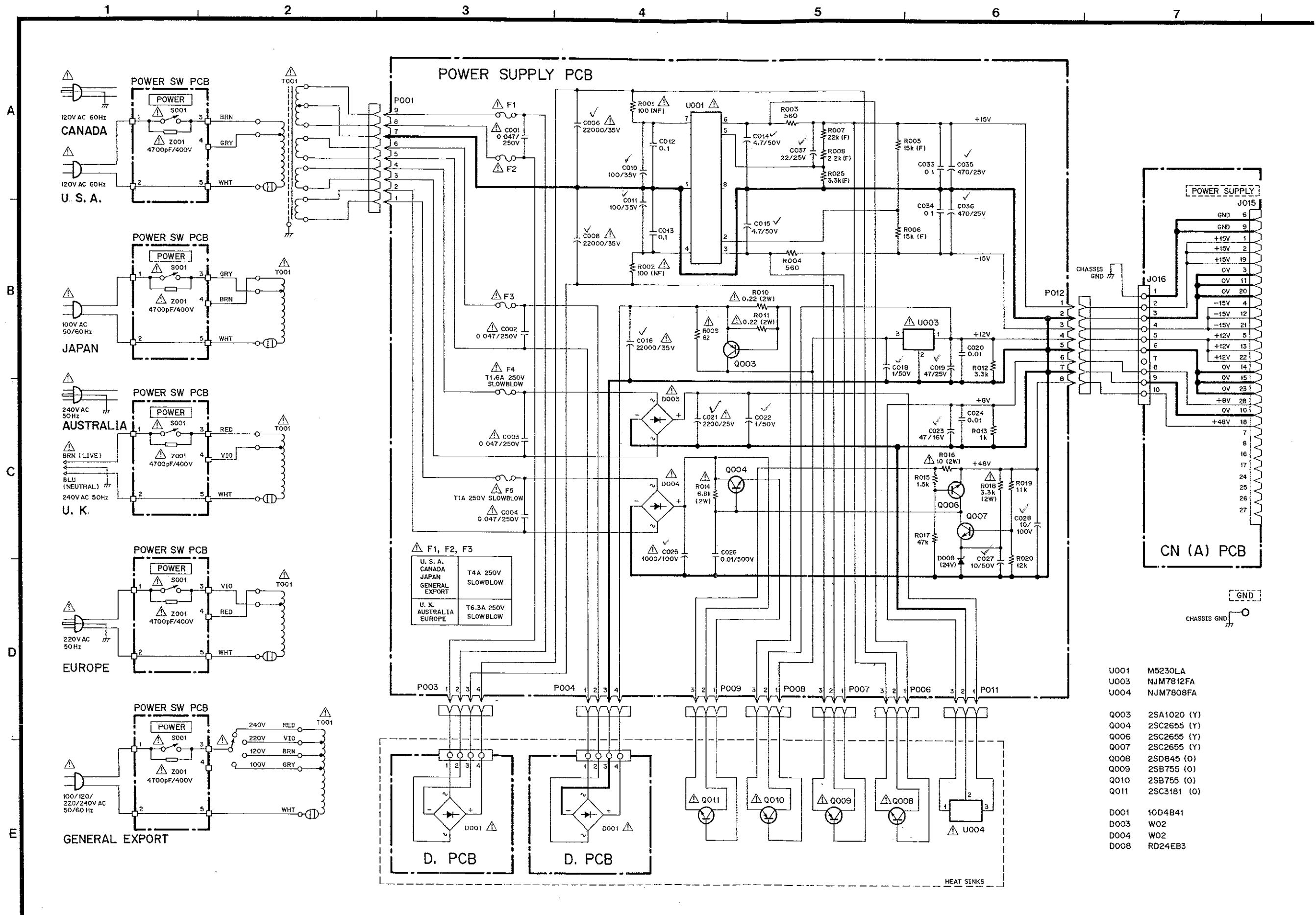


PC Boards Layout



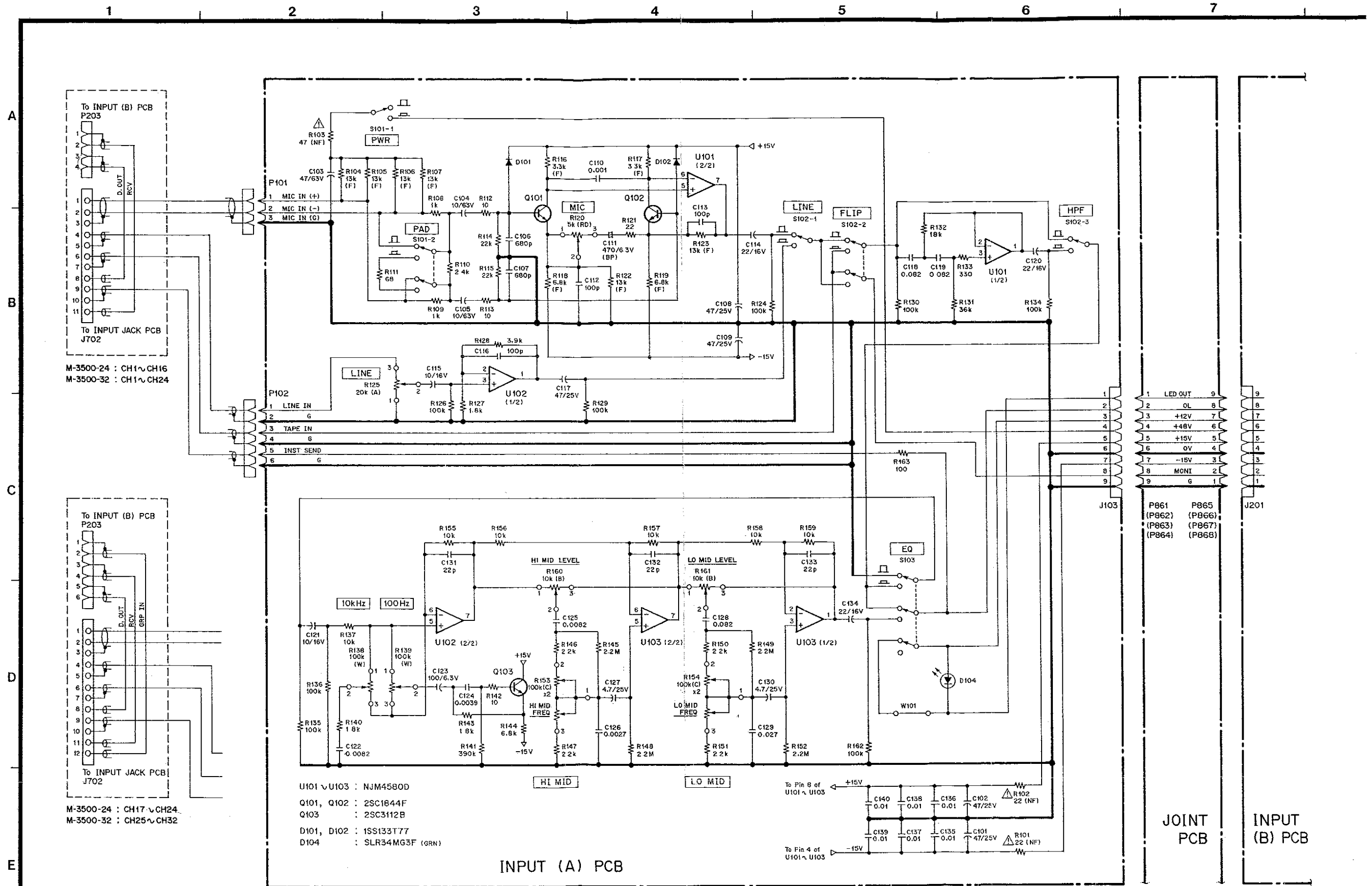
M-3500-32 (TOP VIEW)

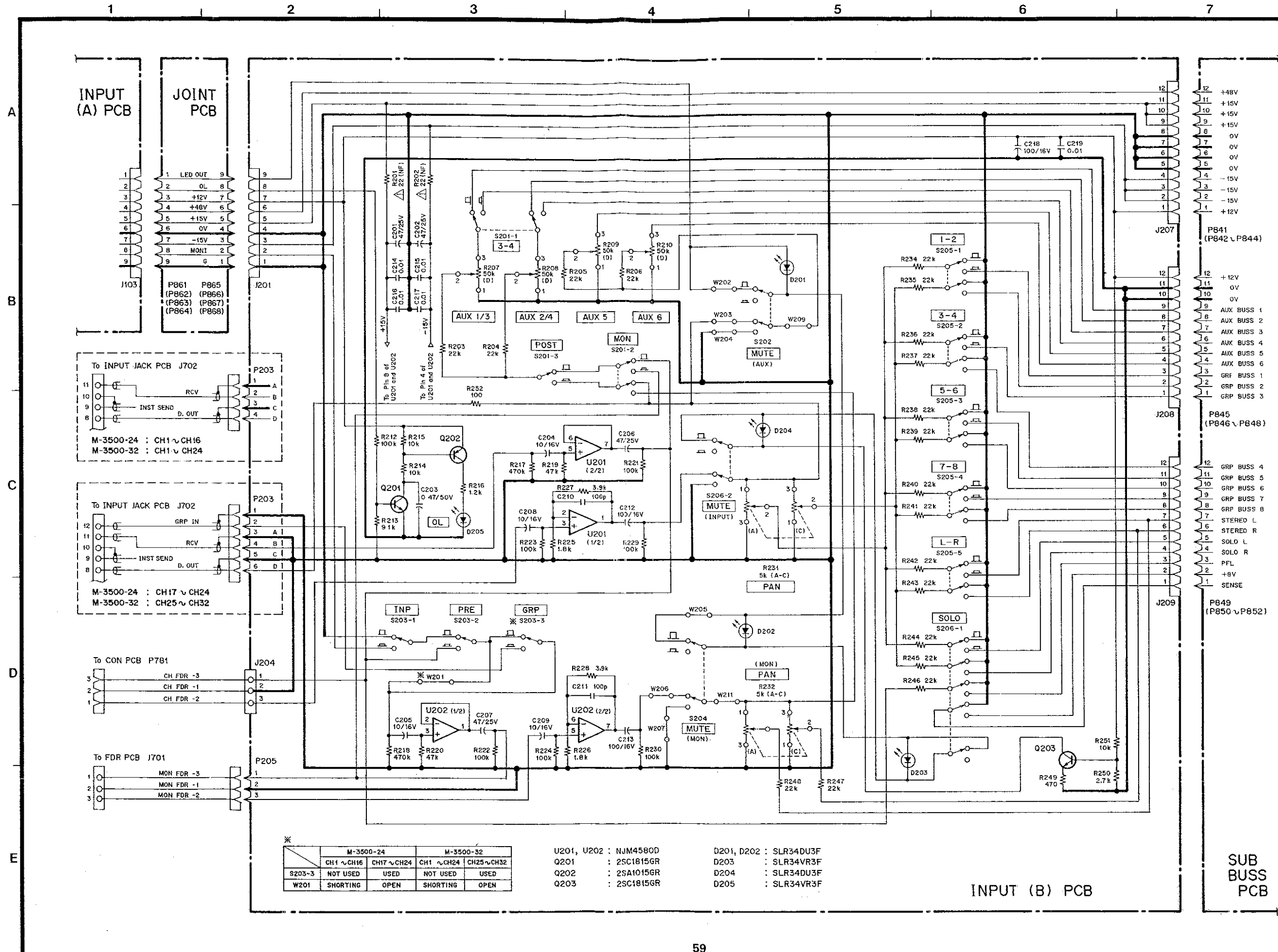
Power Supply PCB Ass'y

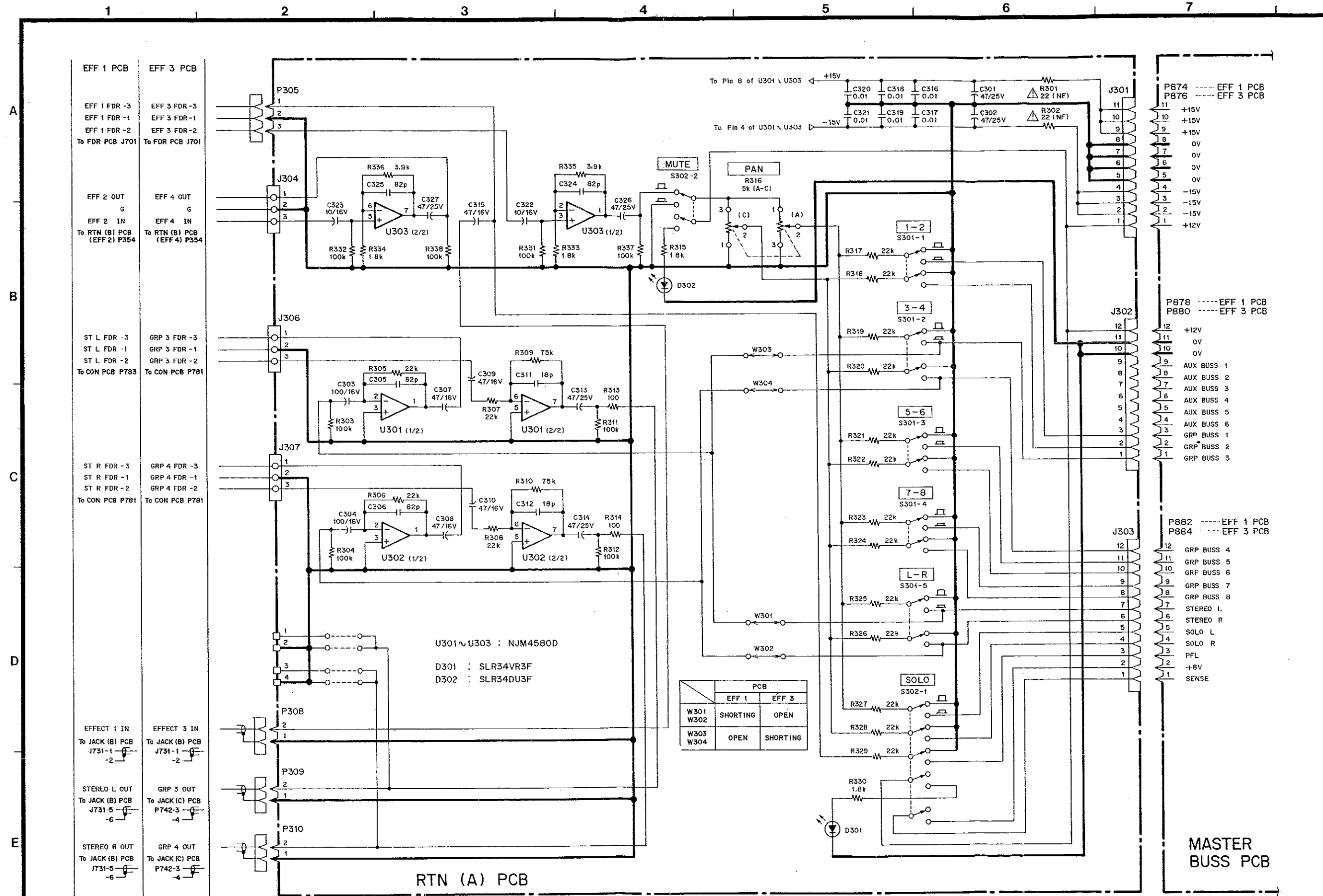


- | | |
|------|-------------|
| U001 | M5230LA |
| U003 | NJM7812FA |
| U004 | NJM7808FA |
| Q003 | 2SA1020 (Y) |
| Q004 | 2SC2655 (Y) |
| Q006 | 2SC2655 (Y) |
| Q007 | 2SC2655 (Y) |
| Q008 | 2SD845 (O) |
| Q009 | 2SB755 (O) |
| Q010 | 2SB755 (O) |
| Q011 | 2SC3181 (O) |
| D001 | 10D4B41 |
| D003 | W02 |
| D004 | W02 |
| D008 | RD24EB3 |

Input (A) PCB Ass'y







EFF 1 PCB	EFF 3 PCB
EFF 1 FDR -3	EFF 3 FDR -3
EFF 1 FDR -1	EFF 3 FDR -1
EFF 1 FDR -2	EFF 3 FDR -2
To FDR PCB J701	To FDR PCB J701
EFF 2 OUT	EFF 4 OUT
G	G
EFF 2 IN	EFF 4 IN
To RTN (B) PCB (EFF 2) P354	To RTN (B) PCB (EFF 4) P354
ST L FDR -3	GRP 3 FDR -3
ST L FDR -1	GRP 3 FDR -1
ST L FDR -2	GRP 3 FDR -2
To CON PCB P783	To CON PCB P781
ST R FDR -3	GRP 4 FDR -3
ST R FDR -1	GRP 4 FDR -1
ST R FDR -2	GRP 4 FDR -2
To CON PCB P781	To CON PCB P781
EFFECT 1 IN	EFFECT 3 IN
To JACK (B) PCB J731-1	To JACK (B) PCB J731-1
-2	-2
STEREO L OUT	GRP 3 OUT
To JACK (B) PCB J731-5	To JACK (C) PCB P742-3
-6	-4
STEREO R OUT	GRP 4 OUT
To JACK (B) PCB J731-5	To JACK (C) PCB P742-3
-6	-4

P874	EFF 1 PCB
P876	EFF 3 PCB
11	+15V
10	+15V
9	+15V
8	0V
7	0V
6	0V
5	0V
4	-15V
3	-15V
2	-15V
1	+12V
P878	EFF 1 PCB
P880	EFF 3 PCB
12	+12V
11	0V
10	0V
9	AUX BUSS 1
8	AUX BUSS 2
7	AUX BUSS 3
6	AUX BUSS 4
5	AUX BUSS 5
4	AUX BUSS 6
3	GRP BUSS 1
2	GRP BUSS 2
1	GRP BUSS 3
P882	EFF 1 PCB
P884	EFF 3 PCB
12	GRP BUSS 4
11	GRP BUSS 5
10	GRP BUSS 6
9	GRP BUSS 7
8	GRP BUSS 8
7	STEREO L
6	STEREO R
5	SOLO L
4	SOLO R
3	PFL
2	+8V
1	SENSE

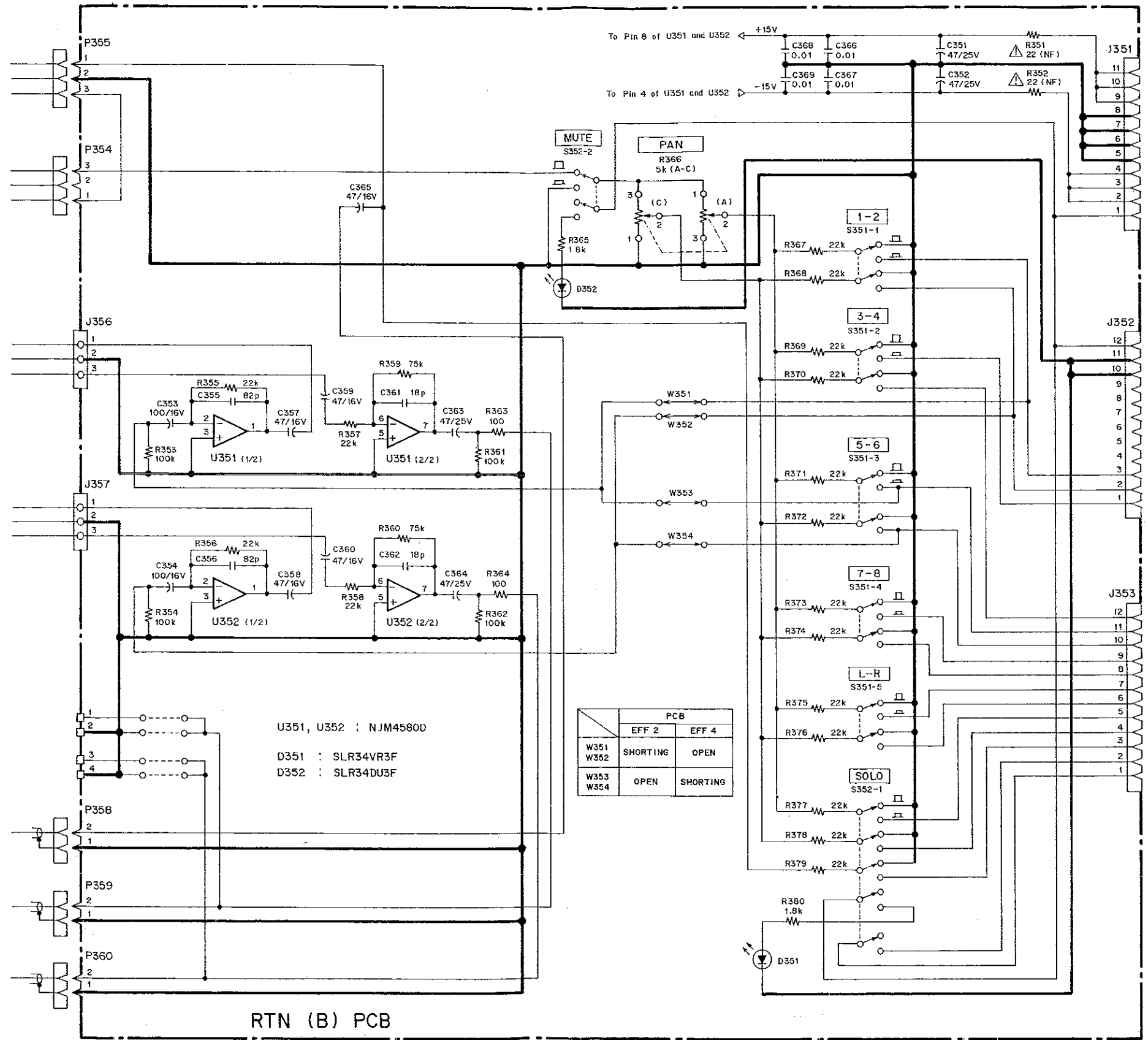
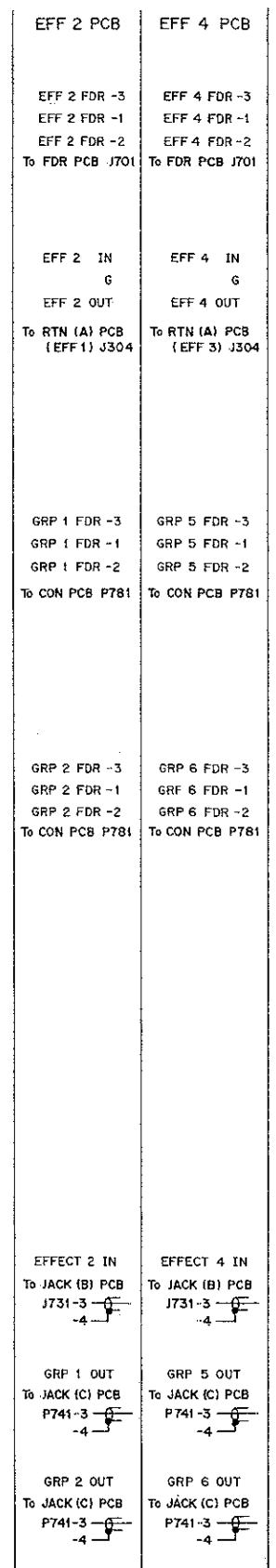
PCB	EFF 1	EFF 3
W301	SHORTING	OPEN
W302	OPEN	SHORTING

RTN (A) PCB

MASTER BUSS PCB

1 2 3 4 5 6 7

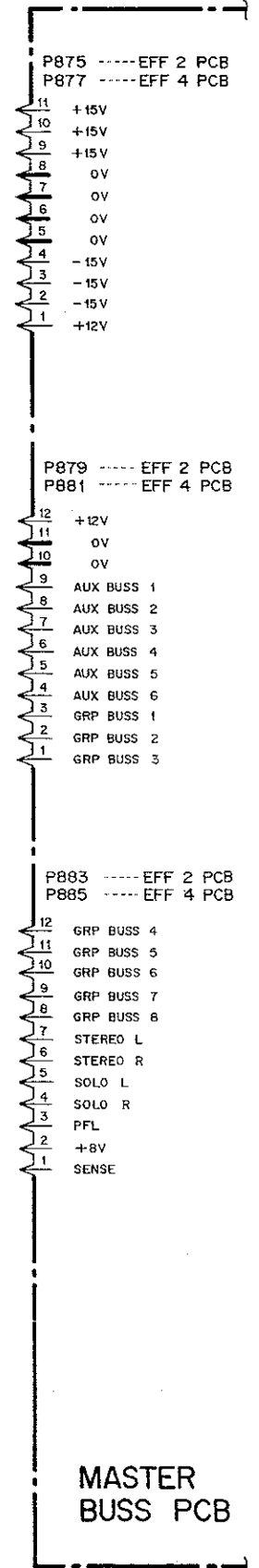
A
B
C
D
E



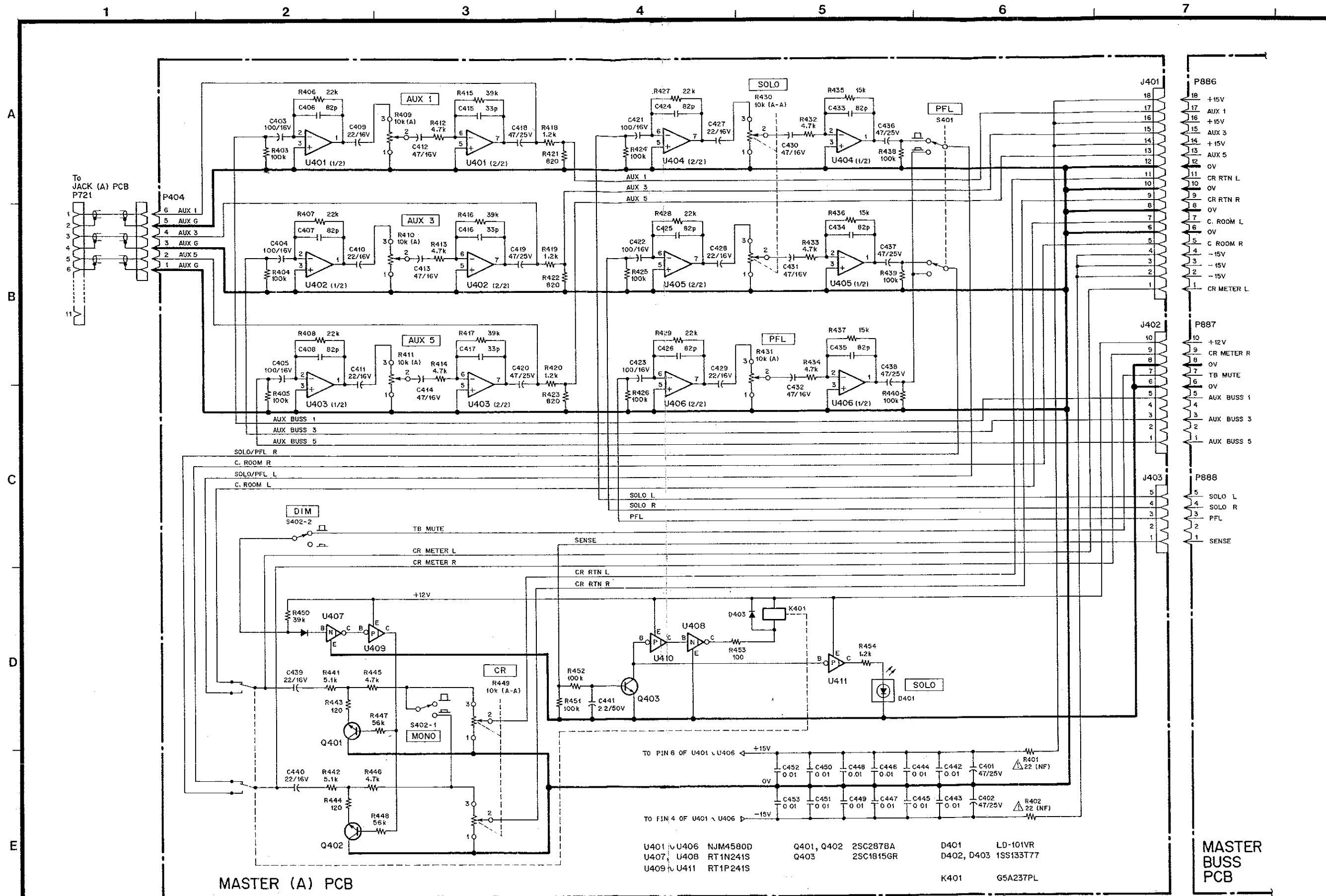
RTN (B) PCB

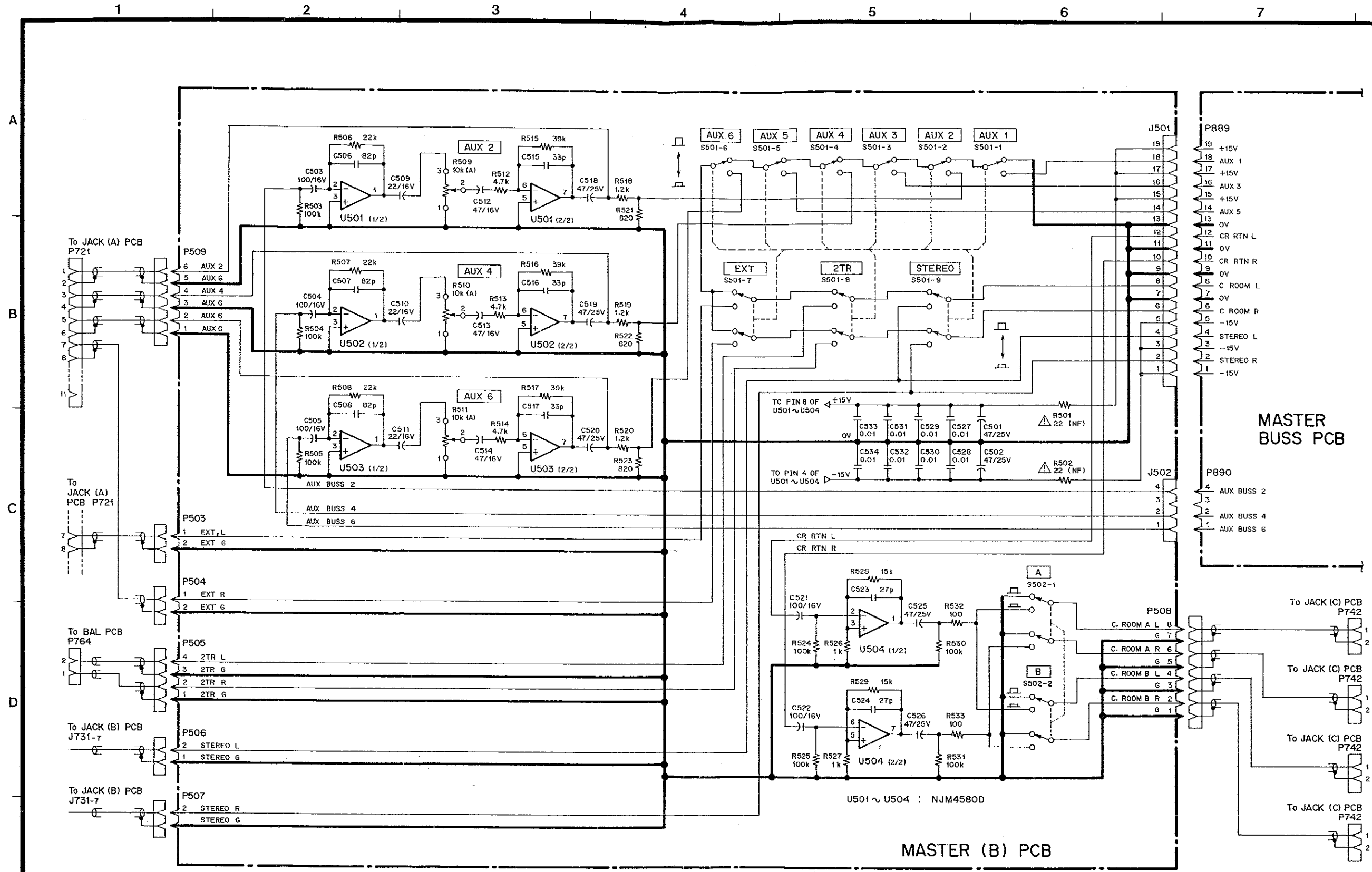
U351, U352 : NJM4580D
D351 : SLR34VR3F
D352 : SLR34DU3F

	PCB	
	EFF 2	EFF 4
W351	SHORTING	OPEN
W352	SHORTING	OPEN
W353	OPEN	SHORTING
W354	OPEN	SHORTING

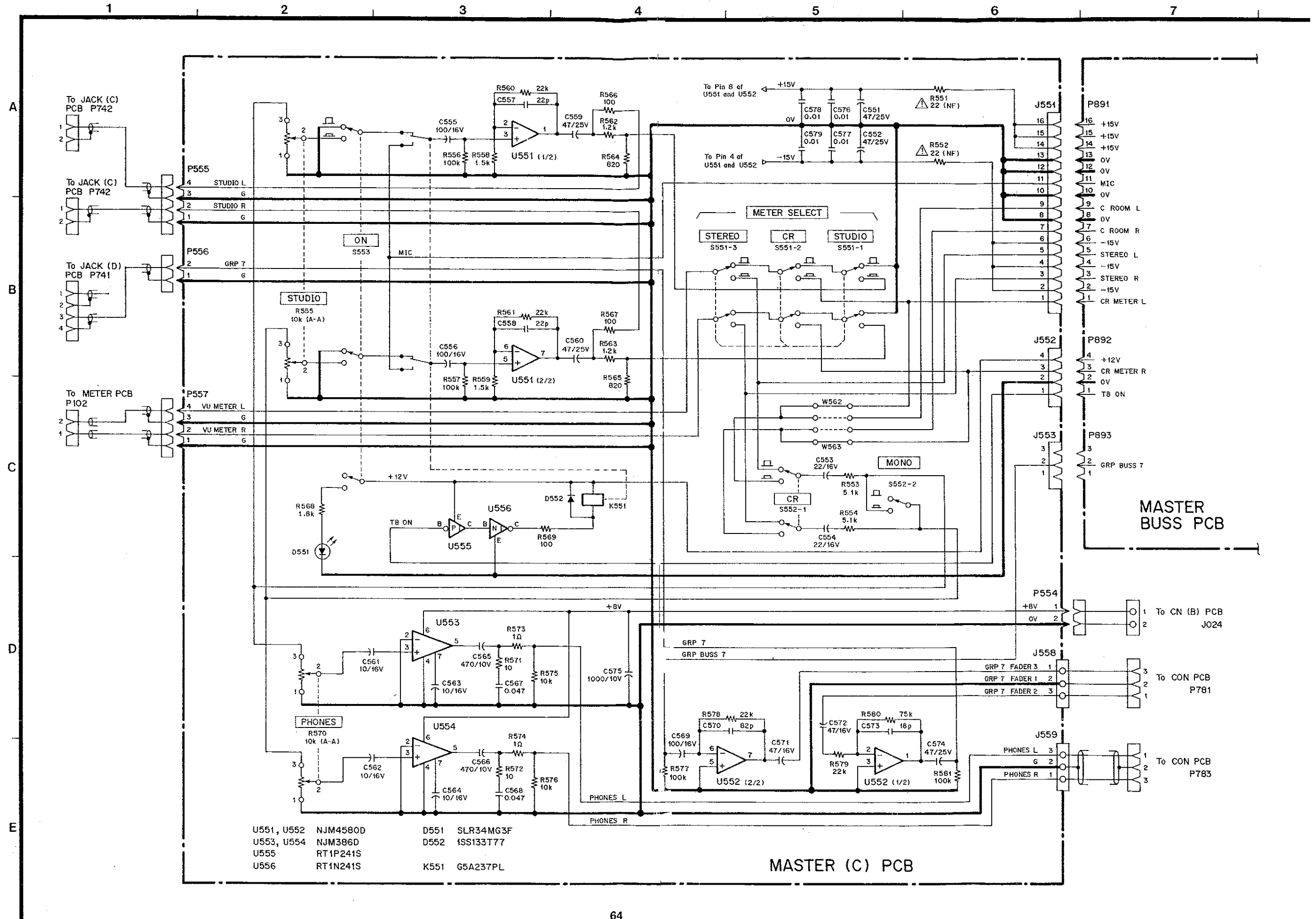


MASTER BUSS PCB





Master (C) PCB Ass'y



Master (D) PCB Ass'y

