

TABLE OF CONTENTS

1. SPECIFICATIONS	3
2. OVERALL EXPLODED VIEW	4
3. PCB ASSY AND PARTS LIST	6
4. PATTERN DRAWING	8
5. CIRCUIT DIAGRAMS	9

NOTES

- Adjustment procedures, parts list, pattern drawing and circuit diagrams are given in this manual to assist the service technician in maintaining the 6301B.
- For your information, this service manual complies to the 6301B with the followings are the serial number of 6301B.

USA/CND	: 0260001 and onwards
EUR	: 0660001 and onwards
UK	: 0760001 and onwards
JPN	: 1060001 and onwards

1. SPECIFICATIONS

SPEAKER (Internal)

Type	10cm Full Range Single Cone
Impedance	4 Ω
Efficiency	84 dB/W (1m)

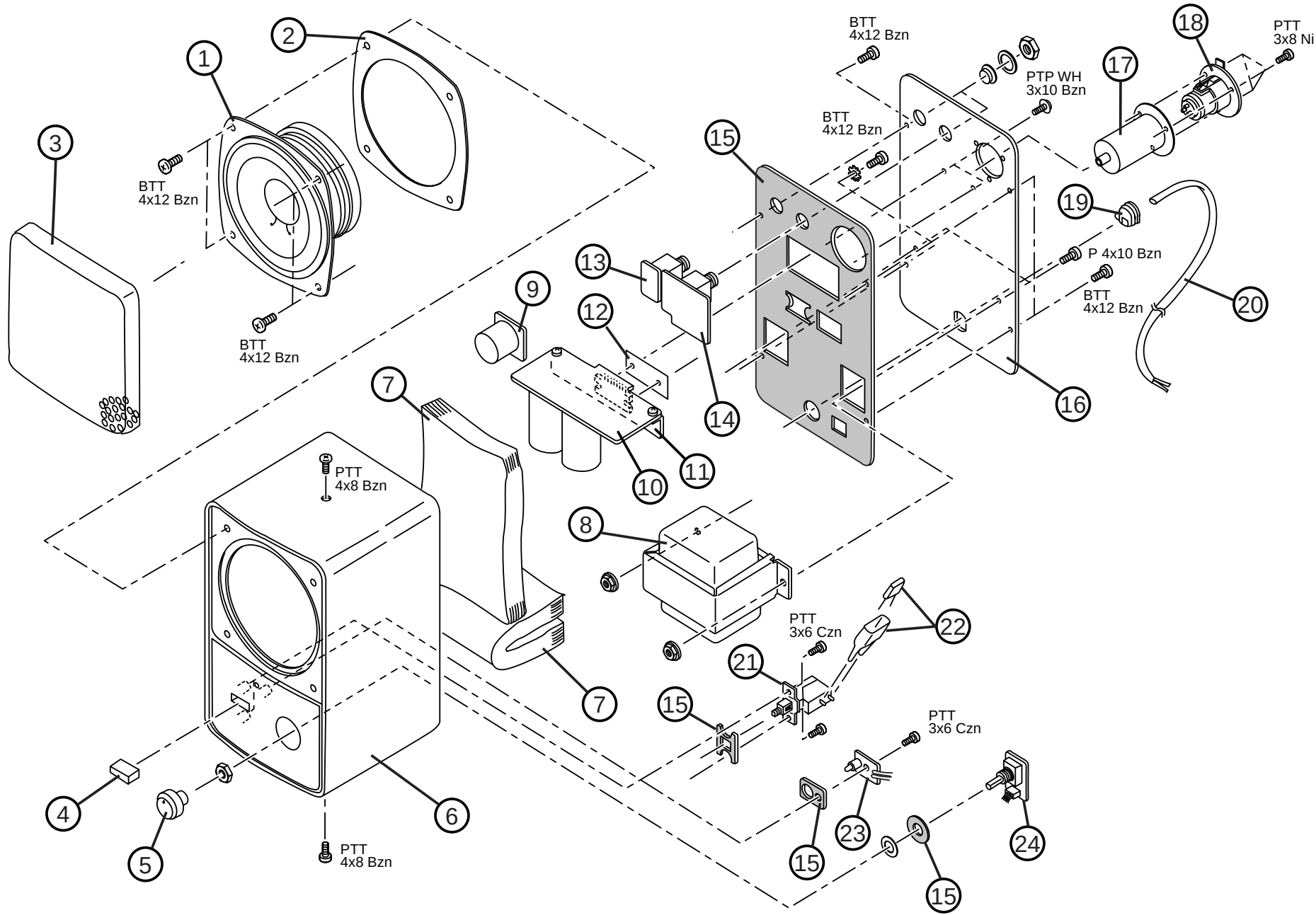
AMPLIFIER

Normal Input Level	-10dBV
Output	more than 10Wrms (8 Ω load)
Frequency Response	20 ~ 50 kHz +0dB-3dB
Distortion	0.05 % or less (at 1W output)
Residual Noise	-70dBV (0.3mV)
Input Sensitivity	Unbalanced type : -6dBV (0.5Vrms) Balanced type : +4dBm (1.2Vrms)
Input Impedance	Unbalanced type : Higher than 20k Ω Balanced type : Higher than 10k Ω

GENERAL

Dimensions	120 (W) $\times$ 188 (H) $\times$ 118 (D) mm
Weight	3.0 kg
Power supply	
JPN	100 VAC, 50/60 Hz
USA/CND	120 VAC, 60 Hz
EUR/UK	230 VAC, 50/60 Hz
Power consumption	33 W

2. OVERALL EXPLODED VIEW



<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>
1	8278001000	Speaker, 10F05AV
2	8216034000	Packing, Speaker
3	8220462100	Cover, Speaker, B3/X/E
4	8226050000	Button, Push, Power, B3/X/E
5	8226067000	Knob, Pot, B3/X/E
6	8210020100	Box, Speaker, B3/X/E (192631)
7	8216213002	Sound Absorbent, B3/X/E
8	8242041200	Trans, Power, 120V, B3/X/E
	8242042001	Trans, Power, 220V/240V, B3/X/E
	8242040200	Trans, Power, 100V, B3/X/E
9	8274209000	PCB Assy, Trans, B3X
10	8274216000	PCB Assy, PowerAmp, B3/X/E
11	8220464000	Bracket, PCB, B3/X/E
12	8239002000	Insulator, IC, B3/X/E
13	8274210000	PCB Assy, JK2, B3/X/E
14	8274211000	PCB Assy, LineAmp, B3
	8274212000	PCB Assy, LineAmp, B3X
	8274213000	PCB Assy, LineAmp, B3E
15	8216198100	Gasket, Rear, B3/X/E
16	8220463201	Panel, Rear, B3 (192630)
	8220463202	Panel, Rear, B3X/E (192629)
17	8216196000	Cover, XLR, B3X/E
18	8245392000	Conn, XLR, B3X/E
19	8207000209	Bushing, B3/X/E
20	8276217000	Cord, Power, B3/X/E, CSA
	8276215000	Cord, Power, B3/X/E, CND
	8276216000	Cord, Power, B3/X/E, EUR
	8276879000	Cord, Power, B3/X/E, UK
	8276003000	Cord, Power, B3/X/E, JPN
21	8253014008	SW, Power, B3/X/E
22	8256075005	Spark-Killer, 0.0047μF
23	8274214000	PCB Assy, LED, B3/X/E
24	8274215000	PCB Assy, VR, B3/X/E

3. PCB ASSY AND PARTS LIST

PCB Assy PowerAmp 8274216000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
C001	8232050471	CAP, CER, 50V, 470pF, 5%	*	*	*
C002	8232098105	CAP, ALU, 50V, 1μF, 20%	*	*	*
C003, 004	8232097227	CAP, ALU, 35V, 220μF, 20%	*	*	*
C005	8232095476	CAP, ALU, 16V, 47μF, 20%	*	*	*
C006	8232026123	CAP, PES, 50V, 0.012μF, 5%	*	*	*
C007	8232026104	CAP, PES, 50V, 0.1μF, 5%	*	*	*
C008, 009	8232074000	CAP, CER, 50V, 0.1μF, 20%	*	*	*
C010	8232026103	CAP, PES, 50V, 0.01μF, 5%	*	*	*
C011, 012	8232133478	CAP, ALU, 35V, 4700μF, 20%	*	*	*
D001	8234001607	D, STACK, 2W02G	*	*	*
R001	8230004102	RES, CARBON, 1/4W, 1K, 5%	*	*	*
R002	8230004563	RES, CARBON, 1/4W, 56K, 5%	*	*	*
R004	8230004122	RES, CARBON, 1/4W, 1.2K, 5%	*	*	*
R005	8230004563	RES, CARBON, 1/4W, 56K, 5%	*	*	*
R006	8230004153	RES, CARBON, 1/4W, 15K, 5%	*	*	*
R007	8230004102	RES, CARBON, 1/4W, 1K, 5%	*	*	*
R008	8230004100	RES, CARBON, 1/4W, 10, 5%	*	*	*
R010	8230004222	RES, CARBON, 1/4W, 2.2K, 5%	*	*	*
U001	8234045600	IC, PowerAmp, TDA2050	*	*	*

PCB Assy LineAmp 8274211000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
C021, 022	8232095106	CAP, ALU, 16V, 10μF, 20%			*
C021, 022		Jumper		*	
C023	8232095106	CAP, ALU, 16V, 10μF, 20%		*	*
C024, 025	8232096476	CAP, ALU, 25V, 47μF, 20%		*	*
R021	8230004103	RES, CARBON, 1/4W, 10K, 5%			*
R022	8230004103	RES, CARBON, 1/4W, 10K, 5%			*
R022	8230004102	RES, CARBON, 1/4W, 1K, 5%		*	
R023	8230004392	RES, CARBON, 1/4W, 3.9K, 5%		*	*
R024	8230004103	RES, CARBON, 1/4W, 10K, 5%		*	
R024		Jumper			*
R025	8230004392	RES, CARBON, 1/4W, 3.9K, 5%		*	*
R026	8230004103	RES, CARBON, 1/4W, 10K, 5%			*
R027	8230004392	RES, CARBON, 1/4W, 3.9K, 5%		*	*
R028, 029	8230004102	RES, CARBON, 1/4W, 1K, 5%		*	*
U002	82360212000	IC, Analog, NJM4560DX		*	*
DZ001, 002	8234503959	D, ZENER, MTZ J 15C		*	*
CN002	8245053003	Conn, JACK, 8263, 3P, WHT		*	*
JK001	8245103000	Conn, Phone, B/BX/BE		*	
JP006, 007		Jumper		*	

PCB Assy JK2 8274210000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
JK002	8245103000	Conn, Phone, B/BX/BE	*	*	*

PCB Assy VR 8274215000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
VR001	8240212002	POT, 50KA, B/BX/BE	*	*	*

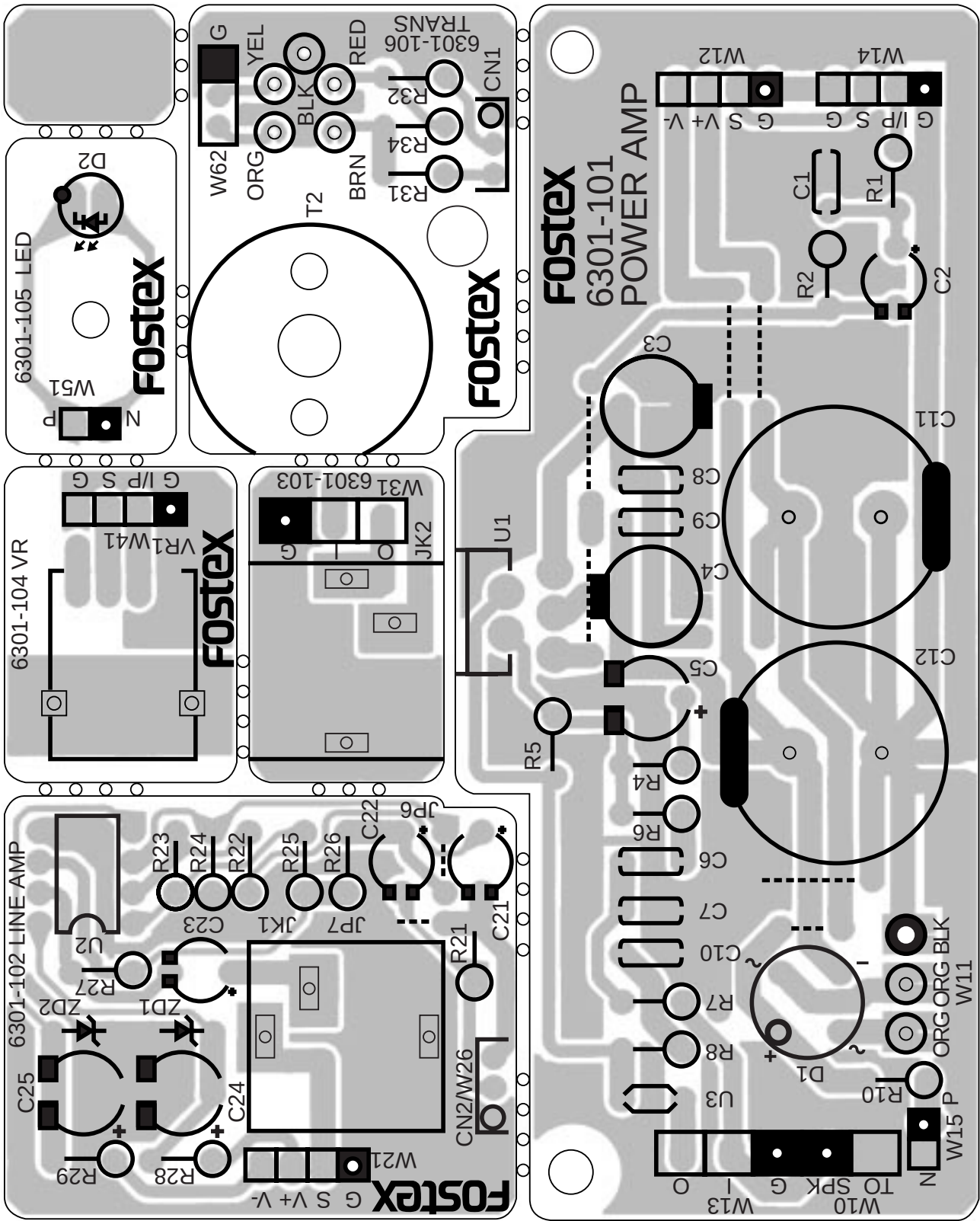
PCB Assy LED 8274214000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
D002	8234006400	OPT, LED, RED, GL-3PR8	*	*	*

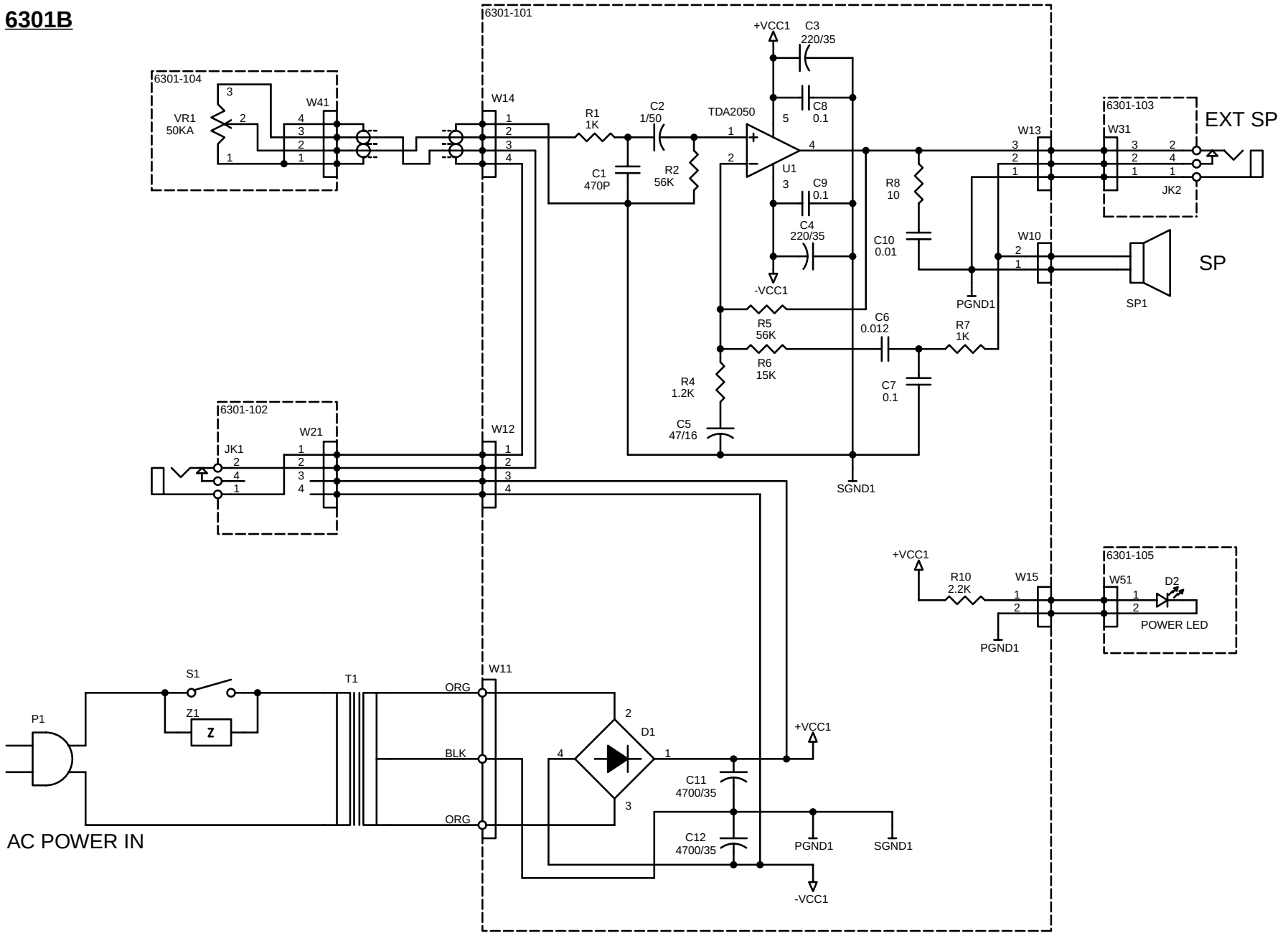
PCB Assy TRANS 8274209000

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>B</i>	<i>BX</i>	<i>BE</i>
R031, 032	8230004512	RES, CARBON, 1/4W, 5.1K, 5%		*	
R034	8230004102	RES, CARBON, 1/4W, 1K, 5%		*	
T002	8242099000	TRANS, LINE, BX		*	
CN002	8245053003	Conn, JACK, 8263, 3P, WHT		*	

4. PATTERN DRAWING

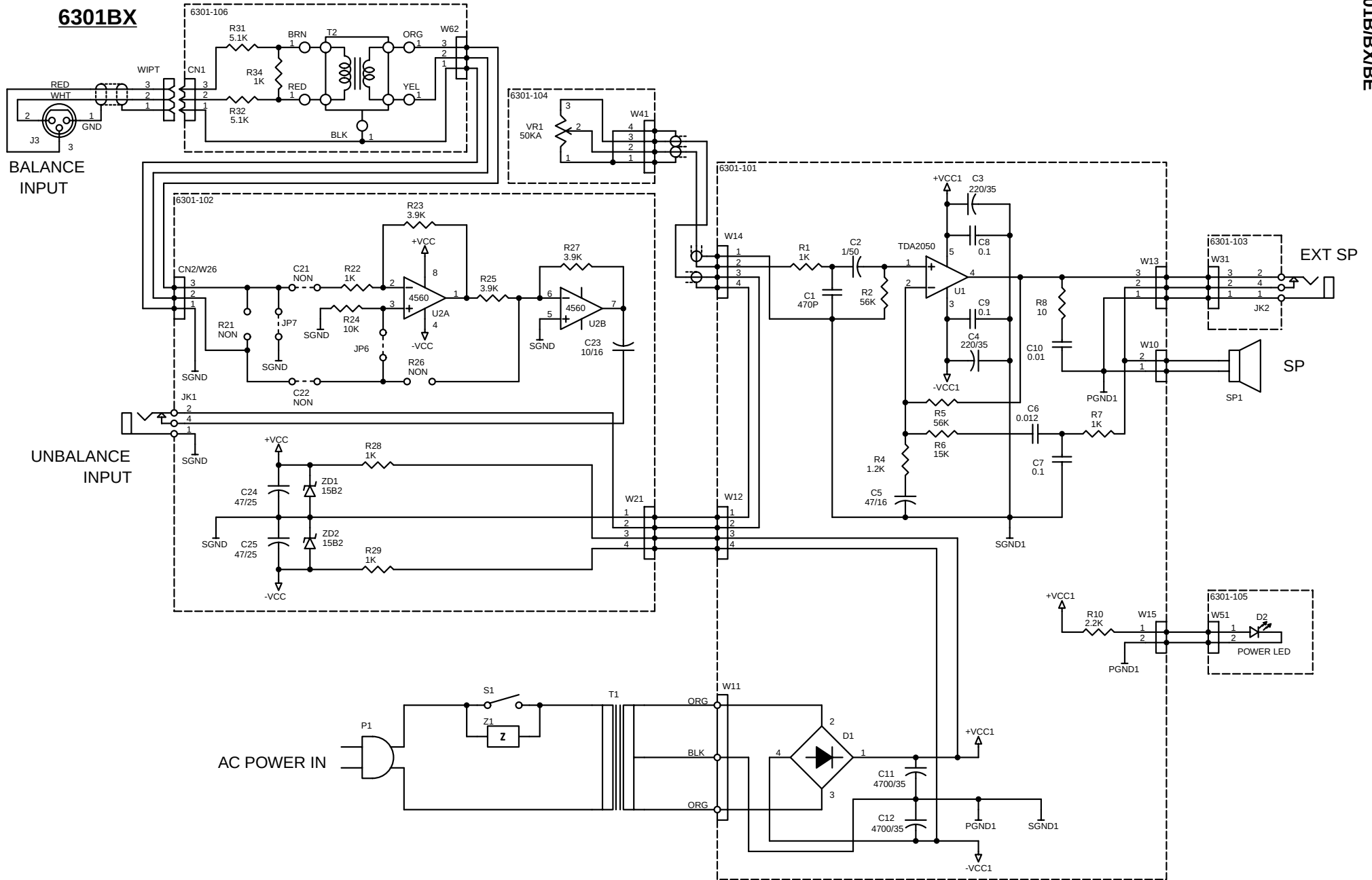


6301B



5. CIRCUIT DIAGRAMS

6301BX



6301BE

