

SUPPLEMENT TO: **BLUES JUNIOR**

p/n 021-3105-000 (120V)

SERVICE MANUAL

Reason for supplement: Reverb improvements and improved manufacturability require changes to the PCB and to the BOM. This supplement contains parts lists and schematics of the new circuitry. Please file it with your original service manual.



CONTENTS:

Parts lists:
PCB assembly
Schematics/diagrams

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PARTS LIST

NOTE: SHADED ITEMS ARE FOR REFERENCE ONLY

PRINTED CIRCUIT BOARD ASSEMBLY

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
3	0029533000	CABLE JMPR 22GA 4 CKT 3.2"	PW2 PW4 PW5
2	0050687000	CABLE JMPR 6 CKT .156 ROUND	PW1 PW3
1	0028577000	CABLE REVERB 30"	@ WJ1-4
1	0038689001	CAP AE AX .47uF 100V 20%	C20
2	0009512001	CAP AE AX 22uF 25V 20%	C4 C18
3	0051720000	CAP AE AX 22uF 450V 20%	C26-28
1	0038693001	CAP AE AX 47uF 16V 20%	C1
1	0051719000	CAP AE AX 47uF 450V 20%	C25
1	0028474003	CAP AE RDL 100uF 25V 20%	C33
2	0028479003	CAP AE RDL 220uF 25V 20%	C31 C34
2	0028489000	CAP AE RDL 470uF 50V 20%	C30 C32
1	0038698001	CAP CA 47pF 100V	C21
1	0039265001	CAP CA 2200pF 100V	C19
1	0051457003	CAP CD 100pF 500V 5%	C3
1	0051458003	CAP CD 470pF 500V 10%	C17
1	0020909000	CAP CD 47pF 1000V 10%	C14
1	0020917000	CAP CD 250pF 1000V 10%	C5
1	0017620000	CAP CD 1500PF 1000V 10%	C9
2	0024823000	CAP MPF RDL .01uF 400V 10%	C11 C29
4	0024833000	CAP MPF RDL .022uF 400V 10%	C6-7 C15-16
1	0024839000	CAP MPF RDL .033uF 400V 10%	C10
2	0024853000	CAP MPF RDL .1uF 250V 10%	C12-13
1	0024855000	CAP MPF RDL .1uF 630V 10%	C24
2	0026202002	CAP PFF .0022uF 400V 10%	C2 C8
1	0033581003	CAP PFF RDL .0033uF 100V 10%	C23
1	0033588003	CAP PFF RDL .01uF 100V 10%	C35
1	0036234003	CAP PFF RDL .015uF 100V 10%	C22
1	0049402000	CONTROL SNAPIN 25k B	R14 <i>Middle</i>
2	0034719000	CONTROL SNAPIN 50k B	R19 R45 <i>Master, Reverb</i>
1	0041913000	CONTROL SNAPIN 250k 10A	R13 <i>Bass</i>
1	0040985000	CONTROL SNAPIN 250k B	R12 <i>Treble</i>
1	0049401000	CONTROL SNAPIN 1M 10A	R5 <i>Volume</i>
2	0064089001	DIODE 1N4003	D5-6
4	0026730001	DIODE 1N4006 800V 1A	D1-4
3	0006260001	DIODE 1N4448 SIGNAL	D9 D13-14
2	0029690001	DIODE HV 3kV 200mA	D11-12
2	0009165001	DIODE ZEN 1N4744A 15V 1W 5%	D7-8
16	0025802000	FSTN TAB MALE .250x.032 PCB MT	P1-16
2	0031041000	FSTN TAB ML RTANG PCB .25x.032	P17-18
2	0025996000	FUSE CLIP PCB 1/4" & 5mm DUAL	F1
1	0031611000	IC OP-AMP DUAL PC4560	U1
1	0030771000	JACK 1/4 PCB 2/CD SCC	J3 <i>Speaker</i>
1	0027674000	JACK 1/4 PCB 2/CD SCC INSL	J2 <i>Footswitch</i>
1	0037036000	JACK PHONE PCB MONO PREM	J1 <i>Input</i>

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PRINTED CIRCUIT BOARD ASSEMBLY (CONT)

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	0056975000	LED RED PNL MT 7"	D10
1	0024947001	RES CF 1/4W 5% 47ohm LL	R39
1	0024964001	RES CF 1/4W 5% 820ohm LL	R24
5	0024969001	RES CF 1/4W 5% 1.5k LL	R4 R10 R17 R33-34
1	0029005001	RES CF 1/4W 5% 2k LL	R43
2	0024977001	RES CF 1/4W 5% 4.7k LL	R26 R40
1	0025942001	RES CF 1/4W 5% 7.5k LL	R25
1	0026510001	RES CF 1/4W 5% 9.1k LL	R29
4	0024981001	RES CF 1/4W 5% 10k LL	R2 R7 R15 R42
3	0024987001	RES CF 1/4W 5% 22k LL	R52 R57-58
2	0024989001	RES CF 1/4W 5% 33k LL	R21 R51
1	0024995001	RES CF 1/4W 5% 68k LL	R38
1	0028153001	RES CF 1/4W 5% 75k LL	R27
3	0024997001	RES CF 1/4W 5% 100k LL	R9 R11 R46
1	0028955001	RES CF 1/4W 5% 130k LL	R6
5	0025059001	RES CF 1/4W 5% 220k LL	R20 R31-32 R41 R44
1	0025828001	RES CF 1/4W 5% 430k LL	R18
5	0025069001	RES CF 1/4W 5% 1M LL	R1 R22-23 R37 R59
1	0025829001	RES CF 1/2W 5% 150ohm LL	R56
1	0031065001	RES CF 1/2W 5% 91k LL	R28
4	0025116001	RES CF 1/2W 5% 100k LL	R3 R8 R16 R30
2	0041741001	RES MOX FP 1/2W 5% 47ohm LL	R54-55
2	0028580001	RES MOX FP 1/2W 5% 100ohm LL	R35-36
2	0031067001	RES FILM 1W 5% 750ohm LL	R50 R53
2	0027349001	RES FILM 1W 5% 10k LL	R48-49
1	0041258001	RES MOX 2W 5% 2.2k LL	R47
1	0028091000	SWITCH PUSH SLFLK	S1
1	0028104000	BUTTON PUSH SWITCH BLACK	AT S1
5	0029167000	TUBE SOCKET 9 PIN PCB MOUNT	V1-5
REF	0038519000	STANDOFF M/F 4-40 x 1/4L	
REF	0097360000	NUT HEX 4-40 EX LOCK	
REF	0047040000	STANDOFF NYL PCB SNAP 1/2" BLK	
1	0014689003	XSTR N-CH JFET J111 TO-92	Q1
1	0057276000	PCB FAB BLUES JUNIOR	
REF	0057275000	SERVICE DIAGRAM	

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	EC 2630	21-MAR-01	gBL

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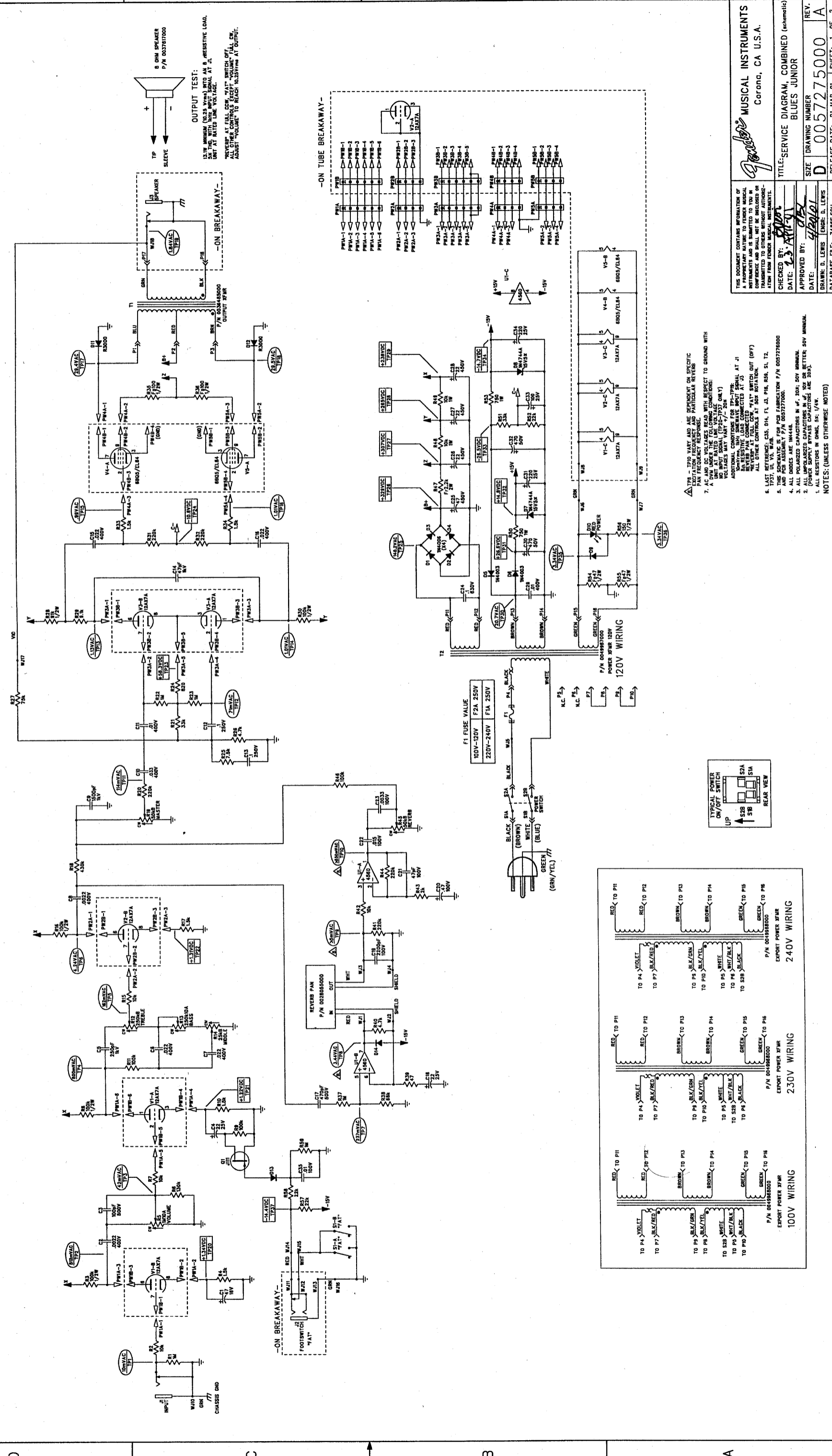
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D C B A

TITLE: SERVICE DIAGRAM, COMBINED
 BLUES JUNIOR
 Corcoran, CA U.S.A.

CHECKED BY: [Signature]
 DATE: 12-APR-01
 APPROVED BY: [Signature]
 DATE: 12-APR-01
 DRAWN: D. LEWIS (ENGR: D. LEWIS)
 DATABASE FILE: Z4865.SCH

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NOTES: (UNLESS OTHERWISE NOTED)
 1. ALL RESISTORS IN OHMS, 5% 1/4W.
 2. (POWER SUPPLY BYPASS CAPACITORS ARE 20µF).
 3. ALL DIODES ARE 1N4148.
 4. THIS SCHEMATIC IS FOR PCB FABRICATION P/N 0057276000 AND P/N ASSEMBLY P/N 0057277000.
 5. PARTS LIST: SEE P/N 0057276000 AND P/N 0057277000.
 6. ALL PARTS LISTED ARE 100% TESTED.
 7. ALL PARTS LISTED ARE 100% TESTED.
 8. ALL PARTS LISTED ARE 100% TESTED.

REVERSE PAN P/N 003855000
 FOOTSWITCH "FAT"
 SPEAKER S1 P/N 0037817000
 8 OHM SPEAKER
 TIP SLEEVE

OUTPUT TEST:
 13.5W MINIMUM (0.25 Vrms) INTO AN 8 Ω RESISTIVE LOAD.
 MEASURED WITH THE SIGNAL AT J.
 REVERSE AT FULL C.W. "FAT" SWITCH OFF.
 ADJUST VOLUME TO REACH 0.25VRMS AT OUTPUT.

120V WIRING
 230V WIRING
 240V WIRING

100V WIRING
 230V WIRING
 240V WIRING

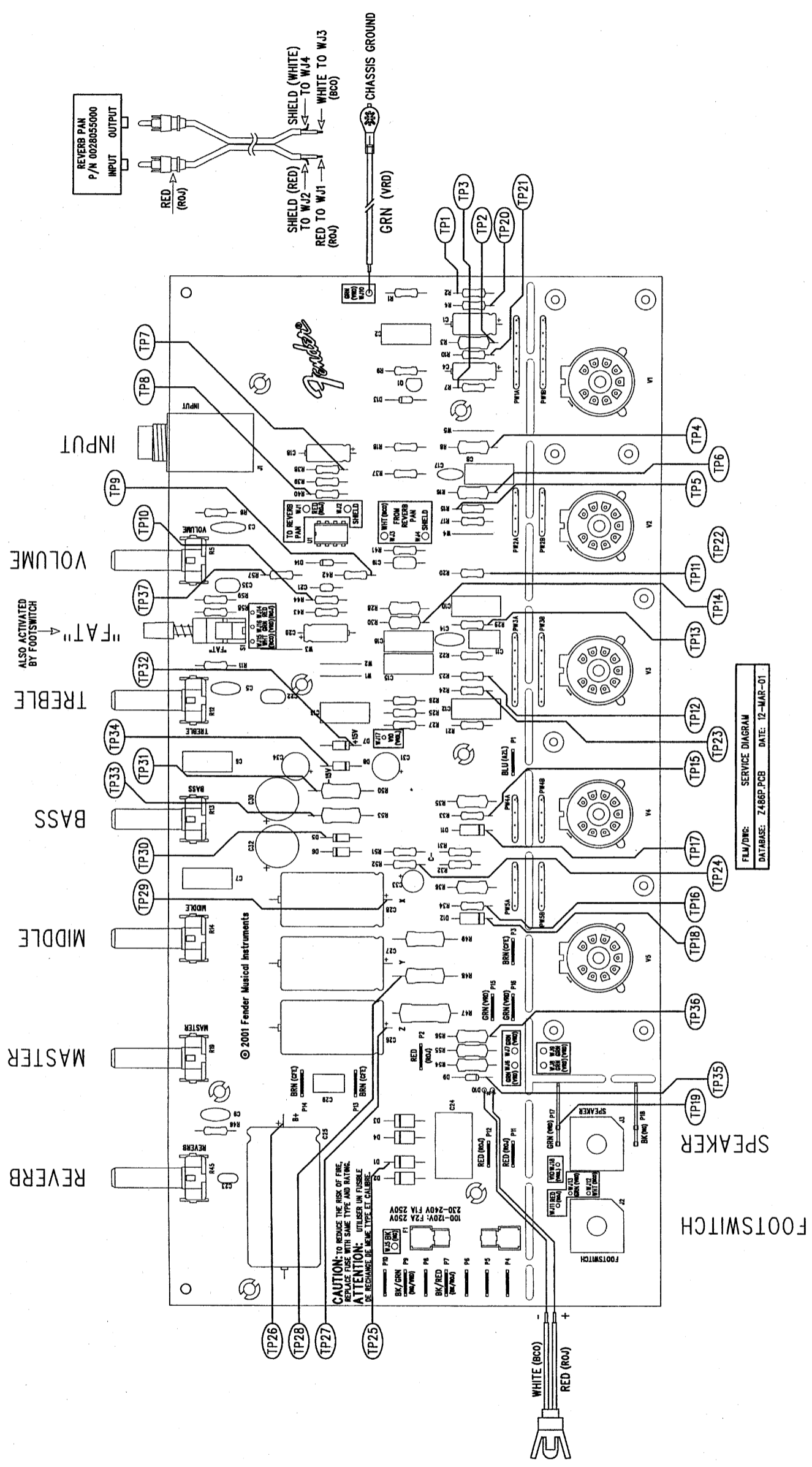
100V WIRING
 230V WIRING
 240V WIRING

100V WIRING
 230V WIRING
 240V WIRING

100V WIRING
 230V WIRING
 240V WIRING

1 2 3 4 5 6 7 8

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	EC 2630	21-MAR-01	dbl



Fender MUSICAL INSTRUMENTS
Corona, CA U.S.A.

TITLE: SERVICE DIAGRAM, COMBINED (PCB Assy)
BLUES JUNIOR

CHECKED BY: *[Signature]*
DATE: 26-APR-01

APPROVED BY: *[Signature]*
DATE: 4/30/01

DRAWN: D. LEWIS ENGR: D. LEWIS
DATABASE FILE: Z486P.PCB

SIZE: C DRAWING NUMBER: 0057275000
RELEASE DATE: 21-MAR-01 SHEET 2 OF 2

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1. SEE SHEET 1 FOR PRIMARY WIRING, TEST CONDITIONS, AND SHEET POINT VALUES.
NOTES: (UNLESS OTHERWISE NOTED)

1 2 3 4 5 6 7 8