

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	RELEASED PR186	88-MAR-91	
B	ECO L02271	88-JUL-91	
C	EC 784	11-SEP-91	
D	EC 1388 / ECO L02697	28-OCT-94	MDW
E	EC 1786	16-OCT-96	MDW

**MUSICAL INSTRUMENTS**  
2621 Research Dr. Ives  
Corona, CA 91728 USA

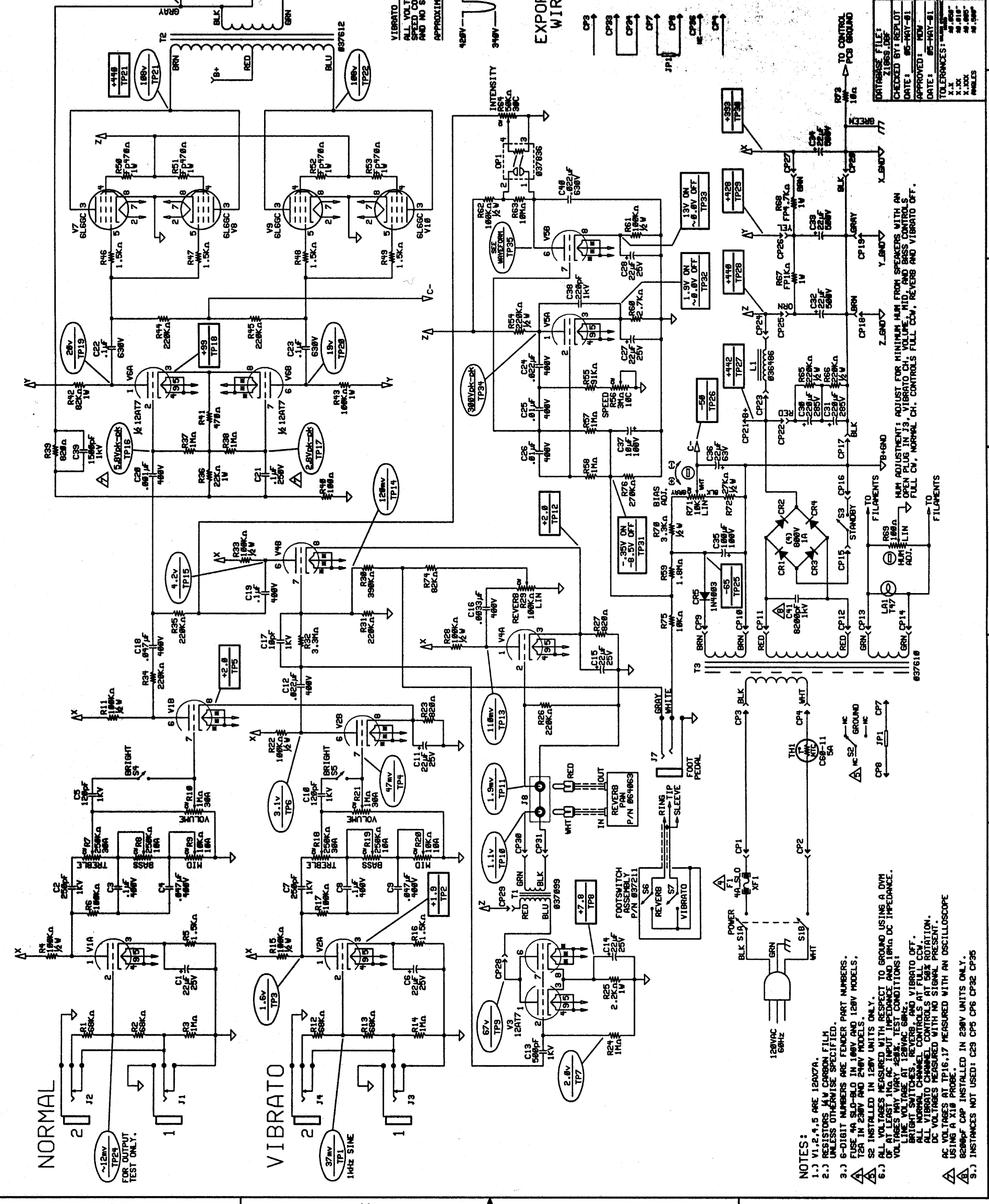
**SCHEMATIC**  
65 TWIN REVERB AMPLIFIER  
DRAWING NUMBER: 037627  
REV. E

PROPRIETARY  
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CHECKED BY: REPLIT  
DATE: 85-MAY-91  
APPROVED: MDW  
DATE: 85-MAY-91

TOLERANCES: ±0.1%  
±0.5%  
±1.0%  
±2.0%  
±5.0%  
±10%

SIZE: D  
NEXT HIGHER ASSEMBLY: 65 TWIN REVERB GUITAR AMPLIFIER  
SCALE: 1:1

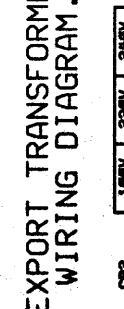
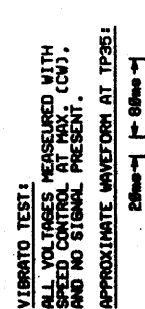
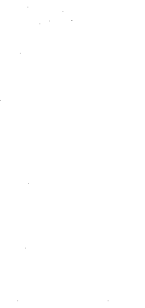


**NOTES:**

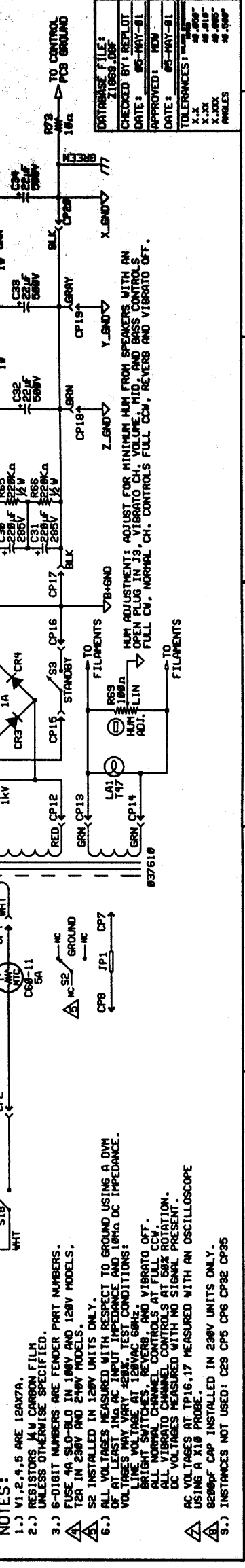
- V1, 2, 4, 5 ARE 12AX7A.
- RESISTORS 1/4W CARBON FILM UNLESS OTHERWISE SPECIFIED.
- 6-DIGIT NUMBERS ARE FENDER PART NUMBERS.
- FUSE 4A SLO-BLO IN 100V AND 120V MODELS. T2R IN 230V AND 240V MODELS.
- S2 INSTALLED IN 120V UNITS ONLY. DC VOLTAGES MEASURED WITH RESPECT TO GROUND USING A DVM OR AT LEAST 1MΩ AC INPUT IMPEDANCE AND 500Ω DC IMPEDANCE. VOLTAGE MAY VARY ±20% TEST CONDITIONS! BRIGHT SWITCHES, REVERB, AND VIBRATO OFF. ALL NORMAL CHANNEL CONTROLS AT FULL CCW. ALL VIBRATO CHANNEL CONTROLS AT 50% ROTATION. DC VOLTAGES MEASURED WITH NO SIGNAL PRESENT.
- AC VOLTAGES AT TP16, 17 MEASURED WITH AN OSCILLOSCOPE USING A X10 PROBE.
- 8200pF CAP INSTALLED IN 230V UNITS ONLY.
- INSTANCES NOT USED: C29 CP5 CP6 CP22 CP26

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8



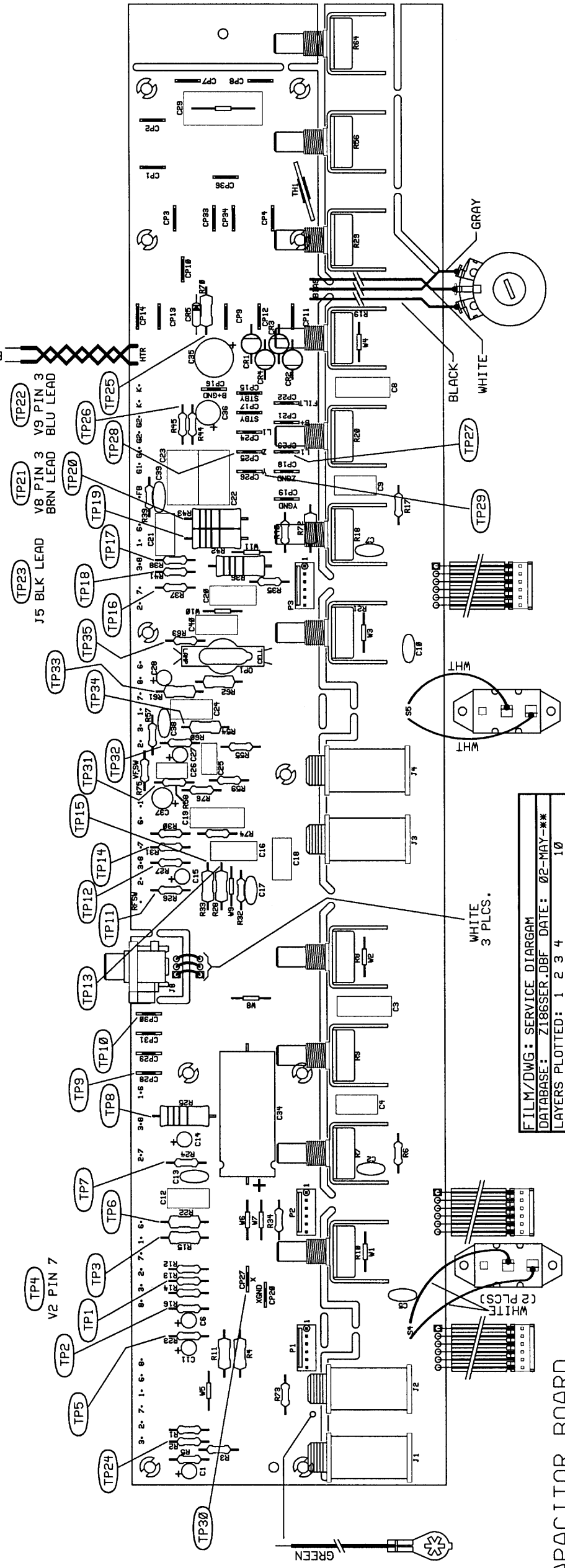
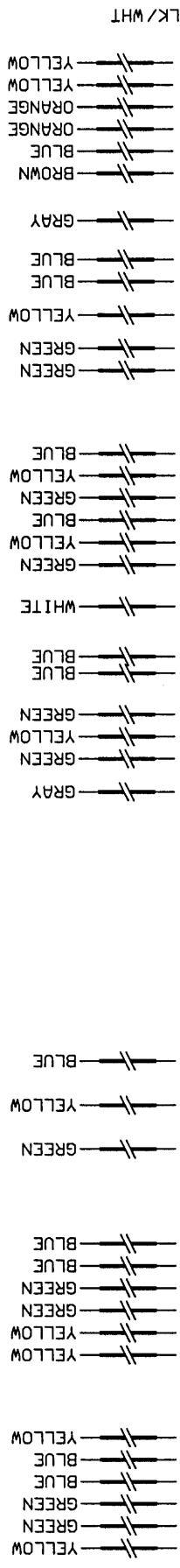
100V	230V	240V
CP9	CP9	CP9
CP28	CP7	CP7
CP7	CP28	CP28
CP29	CP29	CP29
CP4	CP26	CP26
CP26	CP4	CP4
CP8	TIE UP	CP4



1 2 3 4 5 6

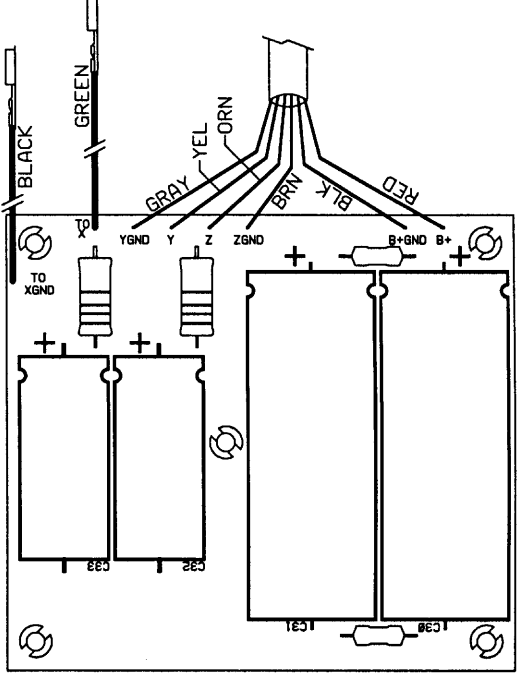
REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED PR 186	3/8/91	
	B	ECO L02271	09-JUL-91	
	C	EC 784	11-SEP-91	
△	D	EC 1388 / ECO L02839	24-JAN-95	<i>WLN</i>



FILM/DWG: SERVICE DIAGRAM  
 DATABASE: Z186SER.DBF DATE: 02-MAY-95  
 LAYERS PLOTTED: 1 2 3 4 10 15 18

CAPACITOR BOARD



NOTES:  
 1.) PCB SHOWN AS FABRICATED, EXCEPT WITH CAPACITOR BREAK-AWAY BOARD SEPARATED. REV. D REFLECTS THE REMOVAL OF SECONDARY FUSING IN EXPORT UNITS THAT USE POWER TRANSFORMER P/N 049181, AND THE REMOVAL OF THE LINE BYPASS CAPACITOR IN DOMESTIC UNITS.

DATABASE FILE: Z186SER.DBF	PROPRIETARY THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF FENDER MUSICAL INSTRUMENTS CO.
CHECKED BY: REPLST	FENDER MUSICAL INSTRUMENTS CO. REGIONAL HEADQUARTERS 2621 RESEARCH DRIVE CORONA, CA 91728 USA STILL BELONGING...
DATE: 02-MAY-01	REV. D
APPROVED: <i>WLN</i>	SIZE: B
DATE: 02-MAY-01	DRAWN: WILKENS
TOLERANCES: UNLESS OTHERWISE SPECIFIED: X.XX X.XXX X.XXX	DRAWING NUMBER: 037632
	REV. D
	SCALE: NONE
	CREATED: 01-NOV-90
	PLOTTED: 02-MAY-95
	SHEET 1 OF 1

C B A

C B A