

REISSUE '65 DELUXE REVERB

SERVICE MANUAL



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Reissue '65 Deluxe Reverb

(This is the model name for warranty claims)

SERVICE MANUAL

TYPE: PR 239

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IMPORTANT NOTICE:

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For warranty repair service, only Fender specified part numbers are to be used. It is recommended they also be used for post-warranty maintenance and repair.

Parts marked with an asterisk (*) indicate the required use of that specific part. This is necessary for RELIABILITY and SAFETY requirements. **DO NOT USE A SUBSTITUTE!**

A coded naming convention is used in the description of certain parts. The codes and what they mean are as follows:

CAPACITOR CODES

CAP AE = Aluminum Electrolytic
CAP CA = Ceramic Axial
CAP CD = Ceramic Disk
CAP MPF = Metalized Polyester Film
CAP MY = Mylar
CAP PFF = Polyester Film/Foil

RESISTOR CODES

RES CC = Carbon Comp
RES CF = Carbon Film
RES FP = Flame Proof
RES MF = Metal Film
RES WW = Wire Wound

HARDWARE CODES

BLX = Black Oxide
CR = Chrome Plated
HWH = Hex Washer Head
M = Machine Screw
NI = Nickel Plated
OHP = Oval Head Phillips
PB = Particle Board
PHP = Pan Head Phillips
PHPS = Pan Head Phillips Sems
SMA = Sheet Metal "A" Point
SMB = Sheet Metal "B" Point
SS = Stainless Steel
TF = Thread Forming
ZI = Zinc Plated

Reissue '65 Deluxe Reverb

PARTS LIST

PRINTED CIRCUIT BOARD ASSEMBLY

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	041289	PCB ASSY '65 DELUXE REVERB 120V	(STUFFED)
3	037805	CABLE RIBBON 6 CKT 2-1/4"	P21,22,23
1	038691	CAP AE AX 4.7uF 50V 20%	C19
7	009512	CAP AE AX 22uF 25V 20%	C1,6,11,15,16,23,24
3	024819	CAP AE AX 22uF 500V 20%	C33,34,35
1	041589	CAP AE AX 47uF 500V 20%	C32
1	036954	CAP AE RDL 22uF 63V 20%	C29
1	031040	CAP AE RDL 100uF 100V 20%	C36
1	041705	CAP AE RDL 220uF 100V 20%	C31
1	020883	CAP CD 10PF 1000V 10%	C13
1	020909	CAP CD 47PF 1000V 10%	C10
2	020917	CAP CD 250PF 1000V 10%	C2,7
1	020842	CAP CD 500PF 1000V 10%	C14
2	024823	CAP MPF RDL .01uF 400V 10%	C20,21
2	024833	CAP MPF RDL .022uF 400V 10%	C12,22
3	024845	CAP MPF RDL .047uF 400V 10%	C4,5,9
1	024853	CPA MPF RDL .1uF 250V 10%	C26
3	024854	CAP MPF RDL .1uF 400V 10%	C3,8,18
2	024855	CAP MPF RDL .1uF 630V 10%	C27,28
1	037040	CAP PFF .0033uF 400V 10%	C17
1	037666	CAP PFF .001uF 400V 10%	C25
2	037596	CONTROL SNAPIN 1 MEG 30A J TAPER	R10,22
2	037597	CONTROL SNAPIN 250K 30A J TAPER	R7,19
2	037599	CONTROL SNAPIN 250K 10A AUDIO	R8,20
1	037600	CONTROL SNAPIN 100K B	R31
1	037601	CONTROL SNAPIN 3 MEG 10C AUDIO	R42
1	037602	CONTROL SNAPIN 50K 30C REV AUDIO	R48
1	064089	DIODE 1N4003 200PRV 1 AMP	CR1
23	026000	FSTN TAB MALE PCB MT .187X.032	CP1-23
3	027413	HDR .1CTR 6 CKT SQ PIN	PX1A,22A,23A
4	037117	JACK PCB MONO CLOSED CKT	J1-4
1	025933	JACK PHONO DUAL PC MTG	J5
7	020888	JUMPER WIRE 22GA .5X.175	W1-7
1	037836	OPTOISOLATOR ASSY 65 TWIN	OP1
1	041288	PCB FAB 65 DELUXE REVERB	(RAW BOARD)
2	031901	PIN MALE PCB .093	SP1,2
1	024947	RES CF 1/4W 5% 47Ω	R53
1	024961	RES CF 1/4W 5% 470Ω	R51
3	024964	RES CF 1/4W 5% 820Ω	R24,30,64
4	024969	RES CF 1/4W 5% 1.5K	R5,17,60,61
1	024972	RES CF 1/4W 5% 2.7K	R44
2	024979	RES CF 1/4W 5% 6.8K	R9,21
1	024981	RES CF 1/4W 5% 10K	R36
4	024995	RES CF 1/4W 5% 68K	R1,2,13,14
3	024997	RES CF 1/4W 5% 100K	R6,18,41
6	025059	RES CF 1/4W 5% 220K	R12,28,33,35,56,57
1	025063	RES CF 1/4W 5% 390K	R37
1	025065	RES CF 1/4W 5% 470K	R32
7	025069	RES CF 1/4W 5% 1M	R3,15,26,39,40,49,52
1	025075	RES CF 1/4W 5% 2.2M	R38
1	025084	RES CF 1/4W 5% 10M	R45
2	026368	RES CF 1/2W 5% 100Ω	R70,71
1	025113	RES CF 1/2W 5% 10K	R59
1	025832	RES CF 1/2W 5% 22K	R50
9	025116	RES CF 1/2W 5% 100K	R4,11,16,23,29,34,46,4
1	025117	RES CF 1/2W 5% 220K	R43
1	037619	RES CF 1W 5% 82K	R54
1	041706	RES CF 1W 5% 470K	R66
1	027347	RES FILM 1W 5% 2.2K	R27
1	027353	RES FILM 1W 5% 100K	R55
1	027749*	RES MF FUSE 1/4W 5% 22Ω	R69

Reissue '65 Deluxe Reverb

PRINTED CIRCUIT BOARD ASSEMBLY (CONT)

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
2	036468*	RES MOX FP 1W 5% 470Ω	R62,63
2	036470*	RES MOX FP 1W 5% 10K	R67,68
1	025803*	THERMISTOR 10 OHM 5 AMP C60-11	TH1

CHASSIS ASSEMBLY

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	047043	CHS ASSY '65 DLX REVERB 120V	(COMPLETE CHASSIS)
4	018022	BUSHING SNAP 5-16X17-32 BLK	(@TRANSFORMER WIRES)
1	026038	BUSHING SR .625X.062X37/64 B;L	(@POWER CABLE 100/120V)
1	010401	BUSHING SR .625X.125X37/64 WHT	(@POWER CABLE 220/230/240V)
1	026541	CABLE ASSY PWR W/.250 TAB 120V	(POWER CABLE 100/120V)
1	033331	CABLE ASSY PWR W/.250 TAB 220/240V	(220/230/240V EXPORT)
1	038602	CABLE ASSY PWR W/.250 TAB AUST	(240V AUSTRALIA ONLY)
1	022707	CHOKE FILTER	L1
1	041293	CHS '65 DELUXE REVERB	(RAW CHASSIS)
1	032219	COLLAR-PILOT LIGHT	
1	037300	COVER CAPACITOR VIBROVERB	
1	048827	FUSE QA 1-1/4X1/4 250V 2 AMP	F1 (100/120V ONLY)
1	020789	FUSE QA 20mmX5mm 250V 1 AMP	F1 (220/230/240V ONLY)
1	036702	FUSEHOLDER 3AG FINGER GRIP	XF1
1	036703	FUSEHOLDER 5mm FINGER GRIP	XF1
1	021741	HOLDER DIAL LITE ASSEMBLY PILOT	(SOCKET ASSY W/OUT COLLAR)
1	021550	JACK PHONE TIP SHUNT 12A	(INTERNAL SPEAKER JACK)
1	021956	JACK PHONE OPEN CIRCUIT 11	(EXTERNAL SPEAKER JACK)
1	013043	JACK PHONE STEREO 12B	J6 (FOOTSWITCH JACK)
1	025718	JEWEL #20 PILOT LITE	(RED INDICATION)
9	024604	KNOB BLACK W/ WHITE STAMP 14000	
4	016352	NUT HEX 3/8-32X3/32 TK NI	(@ 1/4" JACKS)
1	031625	NUT HOLDER PILOT LIGHT 1/16-27	
4	022004	NUT KEPS #8-32 ZINC	(POWER XF MOUNT)
1	041391	PANEL FRONT '65 DLX REVERB	
1	041292	PANEL REAR '65 DLX REVERB 120V	
1	047060	PANEL REAR '65 DXL REV EXPORT	
1	021642	PILOT LIGHT #T47	(BULB)
1	026438	PLUG BUTTON .437" BLK	(@CAPACITOR COVER)
1	017502	POT 10KB 20% SCR ADJ	R58 (BIAS ADJUST)
1	030758	SCRW HI-LO 6X3/8 PHP ZI	(@ REVERB RCA JACKS)
29	038900	SCRW TF 6-32X1/4 PHP ZI	(@ TUBE SKT/XFMRS/CAP COV)
14	028937	SCRW TF 6-32X5/8 PHP ZI TAPTYT	(PCB MOUNTING)
6	023598	SHIELD TUBE	(@ PREAMP TUBES)
3	023580	SOCKET TUBE 8 PIN	(OUTPUT/RECTIFIER TUBES)
6	023606	SOCKET TUBE 9 PIN	(PREAMP TUBES)
14	025936	STAND OFF PCB PUSH ON NYL 3/8L	(PCB MOUNTING)
1	036570	(SWITCH TOGGLE DPST W/NUTS	S1 (POWER SWITCH)
1	036571	SWITCH TOGGLE SPDT W/NUTS	S2 (GROUND SWITCH 120V ONLY)
1	037039	SWITCH TOGGLE SPST W/NUTS	S3 (STANDBY SWITCH)
3	020424	TUBE RING UNIVERSAL (277H-2)	
2	023531	TUBE 12AT7	V3,6
1	041400	TUBE 5AR4 FULL WAVE RECTIFIER	V9
2	023564	TUBE 6V6GTA STR391A	V7,8
4	013341	TUBE VACUUM 7025/12AX7	V1,2,4,5
4	9904300100	WSHR LCK INTL 3/8X.681X.032ZI	(@ 1/4" JACKS/BIAS/ADJ)
1	41316	XFMR PWR DELUXE REVERB 120V	T3 (120V DOMESTIC)
1	041317	XFMR PWR EXPORT	T3 (100/230V EXPORT)
1	041318	XRMR OUTPUT '65 DELUXE REVERB	T2
1	037099	XFMR REVERB VIBROVERB	T1

Reissue '65 Deluxe Reverb CABINET ASSEMBLY

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	047073	CAB ASSY '65 DELUXE REVERB	(COMPLETE CABINET)
1	041565	BACK ASSY LOWER '65 DLX REV	
1	041567	BACK ASSY UPPER '65 DLX REV	
1	031849	BAG REVERB	(BAG ONLY)
1	025722	CABLE ASSY REVERB 1100MM	(FROM PAN TO CHASSIS)
1	038566	CABLE ASSY SPKR RT ANG 13-1/2	(SPEAKER WIRES)
2	022491	CLAMP CABLE NYL SCRW MNT 5/16	
1	041560	GRILLE ASSY '65 DLX REV	(COMPLETE GRILLE)
2	025395	HANDLE CAP CABINET NICKEL	
1	037790	HANDLE STRAP BLACK RIBBED	(WITHOUT INSERT)
1	032524	INSERT HANDLE	(SPRING STEEL)
1	023192	NAMEPLATE FENDER 65 TWIN (LOGO)	
8	022004	NUT KEPS #8-32 ZINC	(SPEAKER MOUNT)
2	021972	NUT T #10-32X3/4 STR 3 PRNG BLX	(HANDLE MOUNT)
1	028547	REVERB ASSY W/ BAG	(W/PAN, CABLE, BAG)
1	064063	REVERB UNIT 4 SPRING 4AB3C1B	(PAN ONLY)
3	037985	SCRW SMA #2X3/8 PHP BLX	(LOGO MOUNT)
8	037952	SCRW SMA #6X1 OHP NI	(BACKBOARD MOUNT)
4	011678	SCRW SMA #8X1-1/2 OHP BLX	(GRILLE MOUNT)
4	022236	SCRW M #10-32X1-1/8 OHP NI	(HANDLE MOUNT)
7	029828	SCRW PB #8X3/4 PHP ZI	(CHASSIS/REV BAG MOUNT)
1	037617	SPEAKER 12" 8 OHM 50 WATTS	
2	024745	STRAP CHASSIS 4" NICKEL	
8	037215	WSHR C'SNK #6 NI	(BACKBOARD MOUNT)
2	022327	WSHR FLAT #8X7/16 NI	(REVERB BAG MOUNT)
4	029527	WSHR FNSH #8-5/5 F;MGD B;X WX	(GRILLE MOUNT)

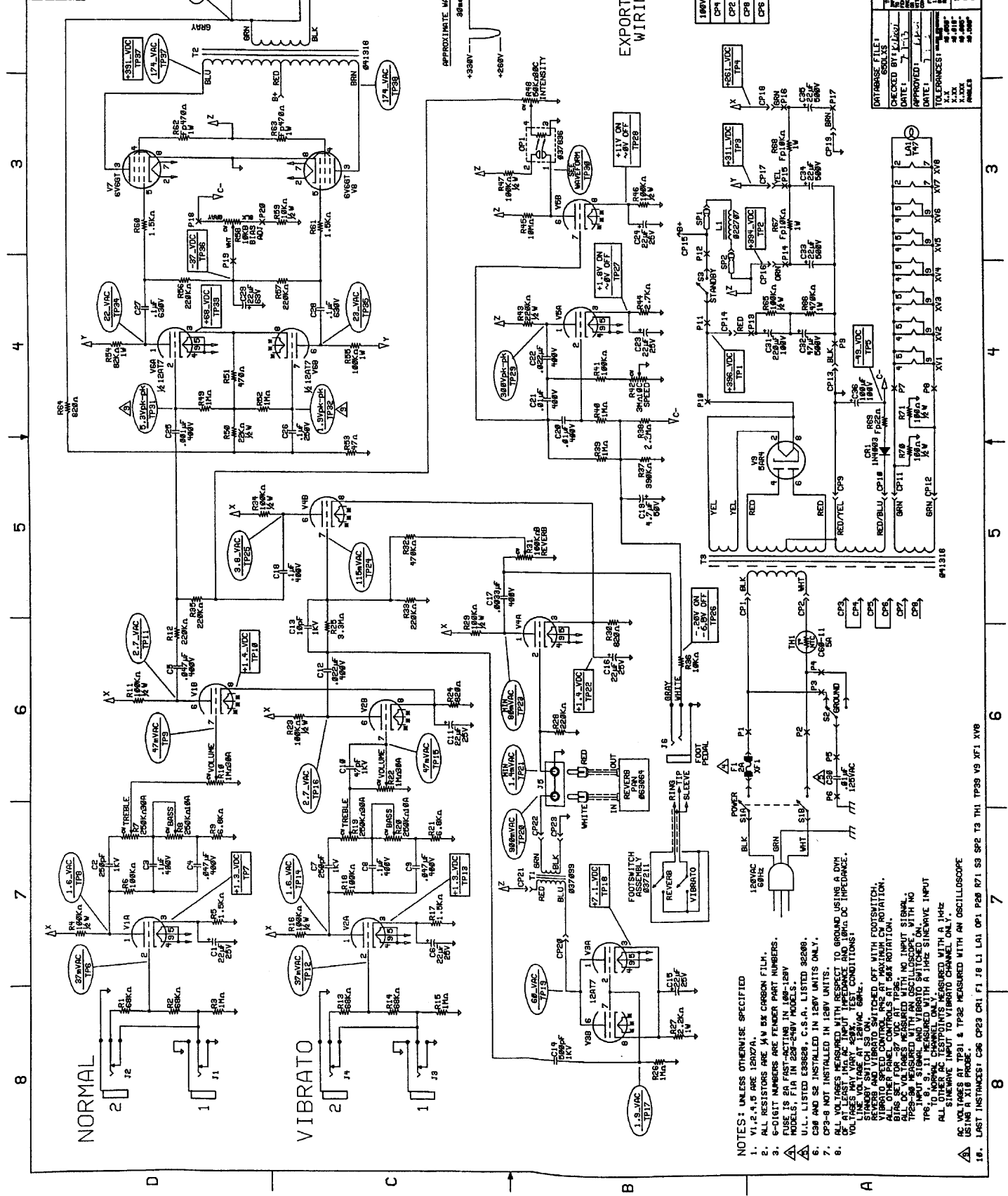
FOOTSWITCH ASSEMBLY

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	037211	FTSW ASSY VIBRO '65 TWIN	(COMPLETE FOOTSWITCH)
1	021691	BUSHING SR .500X.100X7/16 BLK	(STRAIN RELIEF)
1	022665	COVER CUP DUAL FTSW ASSY	(BOTTOM COVER)
1	016063	DECAL FOOTSWITCH VIBRATO + REV	
1	013172	PLUG PHONE 3 CONDUCTOR 238 RT ANGLE	
2	024042	SWITCH SPST PUSH BUTTON	

MISCELLANEOUS

QTY	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	047059	MANUAL OWNERS '65 DLX REVERB	
1	041286	SCHEM REDUCED '65 DLX REVERB	

ZONE	REV.	DESCRIPTION	DATE	APPROVED
A	PR-#239		7-2-93	BD
B	LO2732		11-4-93	BD



PROPRIETARY

MUSICAL INSTRUMENTS

1190 S. GARDEN ST. SUITE 100
 LOS ANGELES, CA 90024

65 DELUXE REVERB AMPLIFIER

DATE: 7-1-93
 APPROVED: [Signature]
 DATE: 11-4-93

U.S. PATENT NO. 4,811,111
 U.S. PATENT NO. 4,811,112
 U.S. PATENT NO. 4,811,113

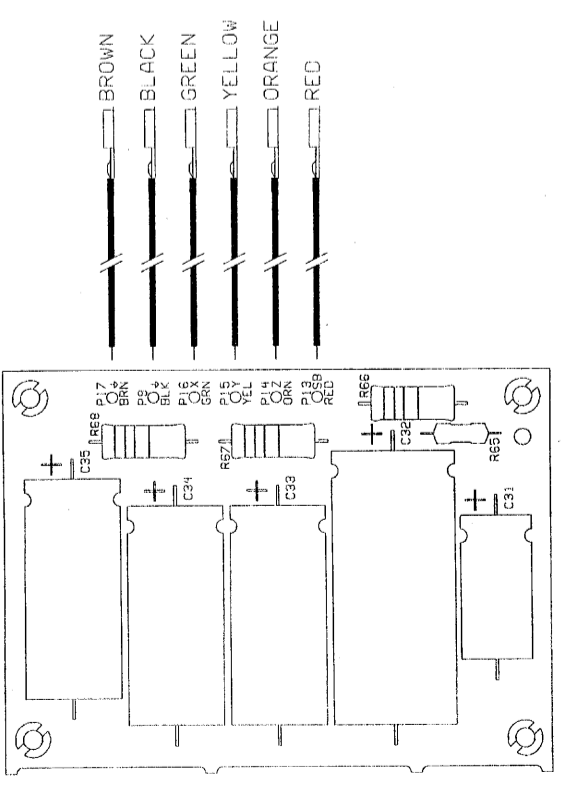
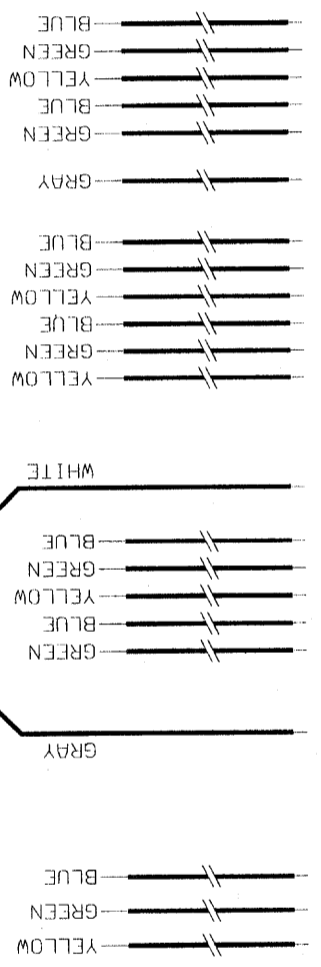
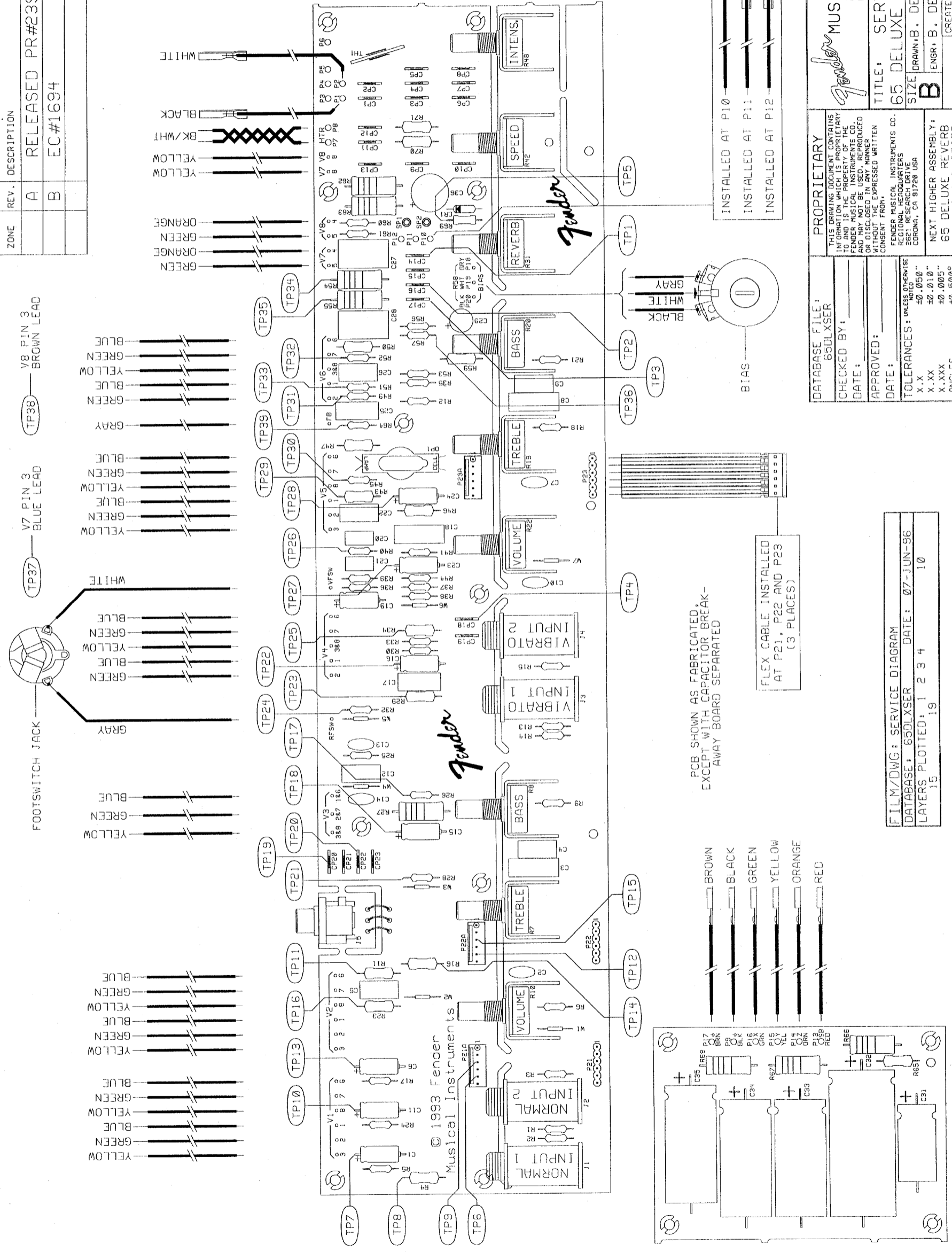
SCALE: 1 OF 1

041285

1 2 3 4 5 6 7 8

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED PR#239	7-2-93	
	B	EC#1694	5-13-96	



PCB SHOWN AS FABRICATED,
EXCEPT WITH CAPACITOR BREAK-
AWAY BOARD SEPARATED

FLEX CABLE INSTALLED
AT P21, P22 AND P23
(3 PLACES)



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TITLE: SERVICE DIAGRAM
65 DELUXE REVERB AMPLIFIER

SIZE: DRAWN: B, DESI: B
DRAWING NUMBER: 041287
ENGR: B, DESI: B

REV. B

SCALE: 1 OF 1
CREATED: 02-JUN-93
PLOTTED: 07-JUN-96

DATABASE FILE: 65DLXSR
CHECKED BY:
DATE:
APPROVED:
DATE:
TOLERANCES: UNLESS OTHERWISE
NOTED:
X.XX ±0.050"
X.XXX ±0.010"
X.XXX ±0.005"
ANGLES

FILM/DWG: SERVICE DIAGRAM
DATABASE: 65DLXSR DATE: 07-JUN-96
LAYERS PLOTTED: 1 2 3 4 10 15

1 2 3 4 5 6 7 8