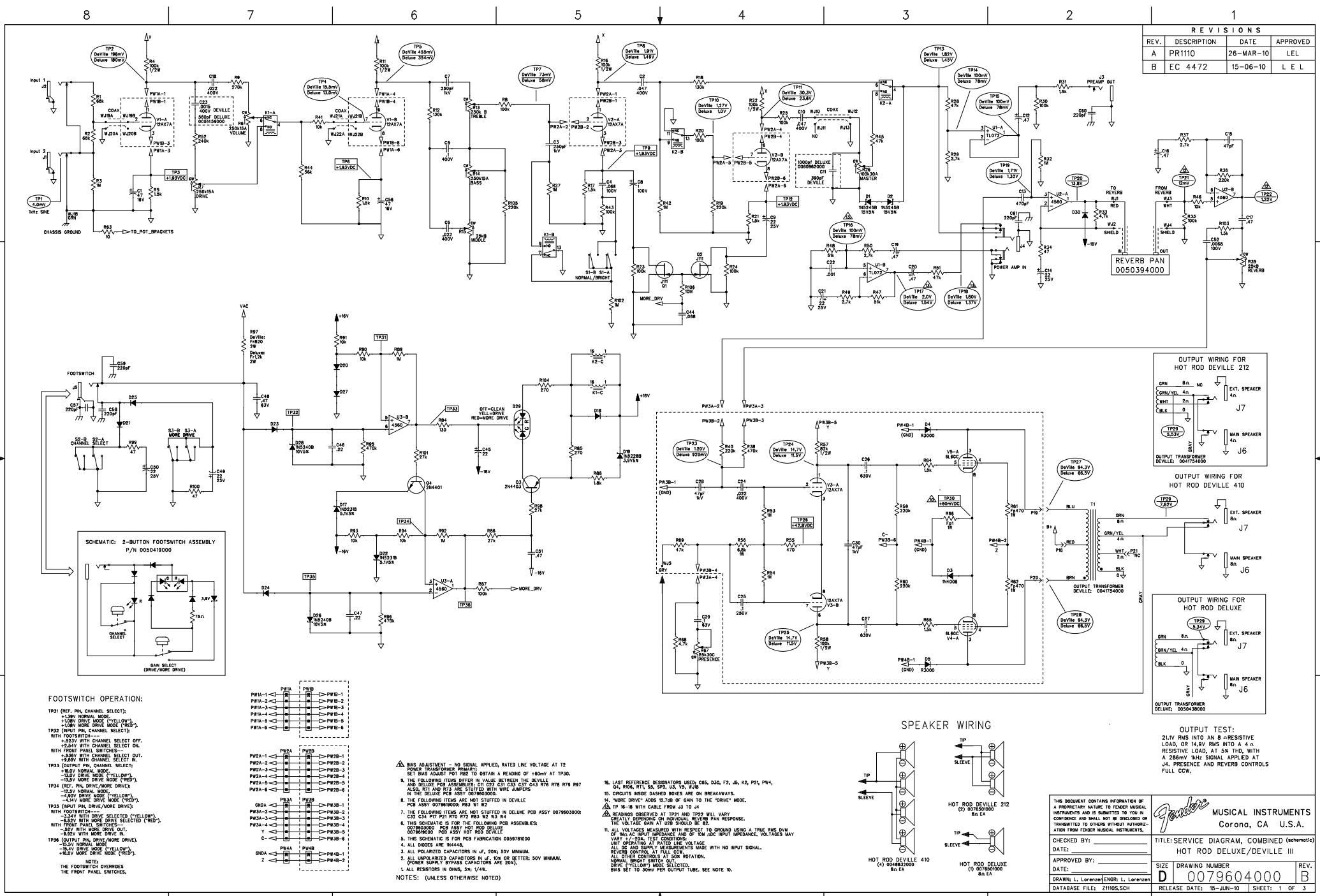


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR1110	26-MAR-10	LEL
B	EC 4472	15-06-10	L E L



FOOTSWITCH OPERATION:

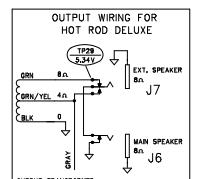
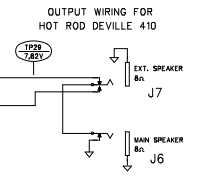
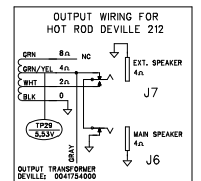
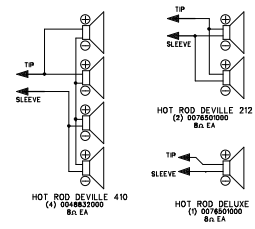
TP33 (REF. PNL CHANNEL SELECT):
 +1.80V NORMAL MODE,
 +1.80V DRIVE MODE (YELLOW),
 +1.80V MORE DRIVE MODE (RED),
 TP33 (OUTPUT PNL CHANNEL SELECT):
 WITH FOOTSWITCH: -2.25V WITH CHANNEL SELECT OFF,
 -2.25V WITH CHANNEL SELECT ON,
 WITH FRONT PANEL SWITCHES:
 TP33 (OUTPUT PNL CHANNEL SELECT):
 -2.25V WITH CHANNEL SELECT OFF,
 -2.25V WITH CHANNEL SELECT ON,
 TP33 (REF. PNL DRIVE/MORE DRIVE):
 +3.5V NORMAL MODE,
 +3.5V DRIVE MODE (YELLOW),
 +3.5V MORE DRIVE MODE (RED),
 TP34 (REF. PNL DRIVE/MORE DRIVE):
 +3.5V NORMAL MODE,
 +3.5V DRIVE MODE (YELLOW),
 +3.5V MORE DRIVE MODE (RED),
 TP34 (OUTPUT PNL DRIVE/MORE DRIVE):
 +3.5V NORMAL MODE,
 +3.5V DRIVE MODE (YELLOW),
 +3.5V MORE DRIVE MODE (RED),
 THE FOOTSWITCH OVERRIDES THE FRONT PANEL SWITCHES.

PNL1-1	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-1	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-2	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-3	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-4	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-5	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-6	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-7	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-8	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-9	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-10	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-11	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-12	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-13	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-14	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-15	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-16	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-17	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-18	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-19	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-20	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-21	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-22	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-23	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-24	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-25	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-26	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-27	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-28	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-29	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-30	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-31	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-32	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-33	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-34	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-35	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-36	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-37	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-38	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-39	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-40	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-41	PNL2	PNL3	PNL4	PNL5	PNL6
PNL1-42	PNL2	PNL3	PNL4	PNL5	PNL6

1. BAG ADJUSTMENT - NO SIGNAL APPLIED, RATED LINE VOLTAGE AT T2 POWER TRANSFORMER PRIMARY. SET BAG ADJUST POT R87 TO OBTAIN A READING OF +50mv AT TP30.
2. THE FOLLOWING ITEMS DIFFER IN VALUE BETWEEN THE DEVILLE AND DELUXE PCB ASSEMBLIES: C17 C31 C33 C37 C43 R76 R78 R79 R87 ALSO, R71 AND R73 ARE STUFFED WITH WIRE JUMPS IN THE DELUXE PCB ASSY 007960000.
3. THE FOLLOWING ITEMS ARE NOT STUFFED IN DEVILLE PCB ASSY 007960000: R83 R11 R87
4. ALL DIODES ARE 1N4148.
5. THIS SCHEMATIC IS FOR PCB FABRICATION 000978000
6. THIS SCHEMATIC IS FOR THE FOLLOWING PCB ASSEMBLIES: 007960000 PCB ASSY HOT ROD DELUXE 007960000 PCB ASSY HOT ROD DEVILLE
7. ALL POLARIZED CAPACITORS IN μ F, 50% OR BETTER; 50V MINIMUM.
8. ALL UNPOLARIZED CAPACITORS IN μ F, 10% OR BETTER; 50V MINIMUM.
9. ALL RESISTORS IN OHMS, Ω ; 1/4W.

10. LAST REFERENCE DESIGNATORS USED: C66, C30, F2, J6, K2, P21, PW4, Q4, R04, R11, S6, SP2, U5, V5, W26
11. CIRCUITS WIDE DAMPER BOXES ARE ON BREAKAWAYS.
12. "MORE DRIVE" ADDS 12.7dB OF GAIN TO THE "DRIVE" MODE.
13. TP 18-B WITH CABLE FROM J3 TO J4
14. RESPONSE OBSERVED AT TP31 AND TP32 WILL VARY GREATLY DEPENDING ON INDIVIDUAL REVERB PAN RESPONSE. THE VOLTAGE GAIN AT J28 SHOULD BE 8:1.
15. ALL VOLTAGES MEASURED WITH RESPECT TO GROUND USING A TRUE RMS DVM OF 100 K Ω INPUT IMPEDANCE AND OF 100 μ C INPUT MECHANICAL VOLTAGE MAY VARY +/- 20% TEST CONDITIONS
16. ALL SUPPLY MEASUREMENTS MADE WITH NO INPUT SIGNAL.
17. ALL OTHER CONTROLS AT 50% ROTATION.
18. NORMAL BRIGHT SWITCH OUT.
19. DRIVE (YELLOW) MODE SELECTED.
20. BAG SET TO 30mv PER OUTPUT TUBE. SEE NOTE 10.

SPEAKER WIRING



OUTPUT TEST:
 21V RMS INTO AN 8 Ω RESISTIVE LOAD, OR 14.5V RMS INTO A 4 Ω RESISTIVE LOAD, AT 5K THD, WITH A 286mV 1kHz SIGNAL APPLIED AT J4. PRESENCE AND REVERB CONTROLS FULL CCW.

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CHECKED BY: _____
 DATE: _____

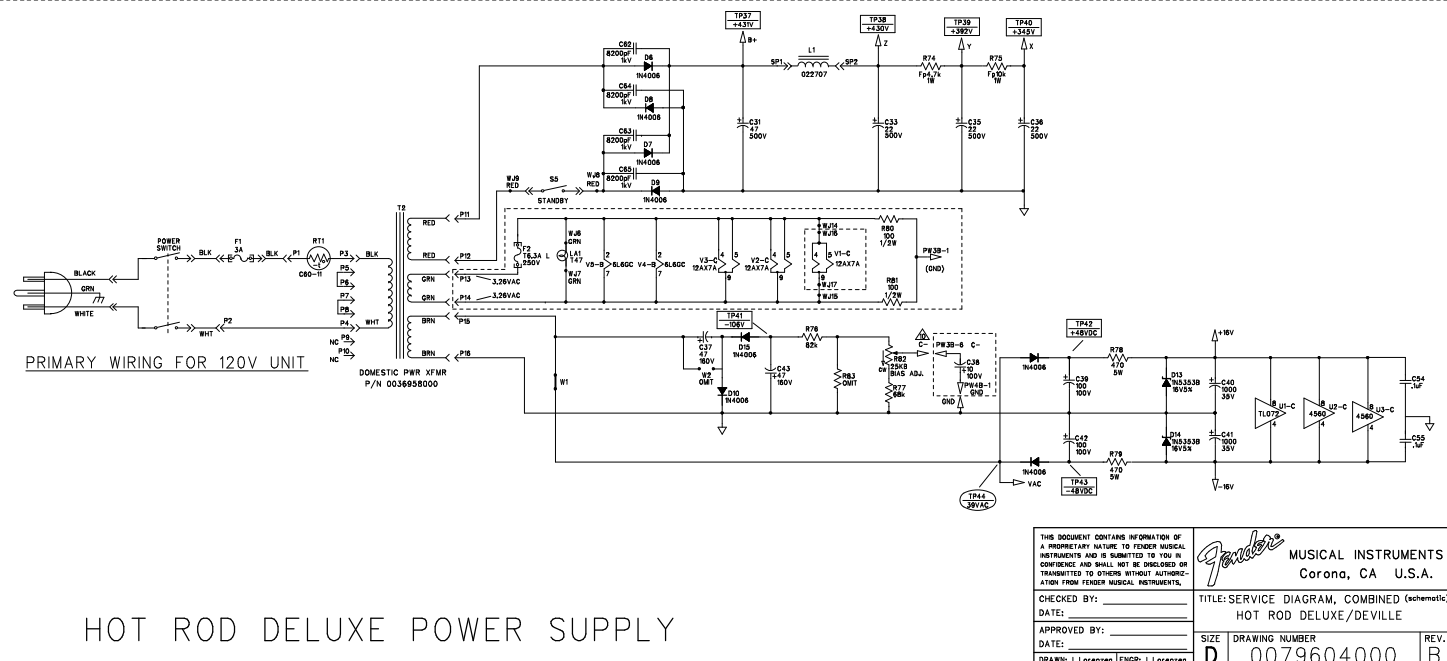
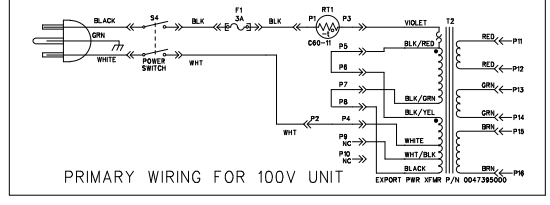
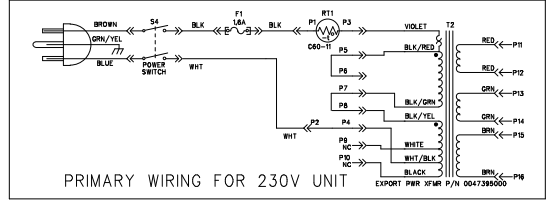
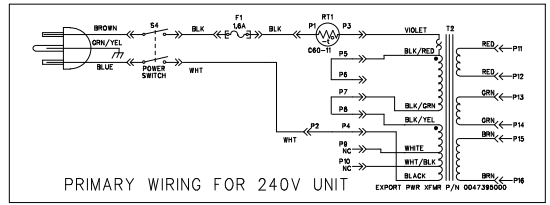
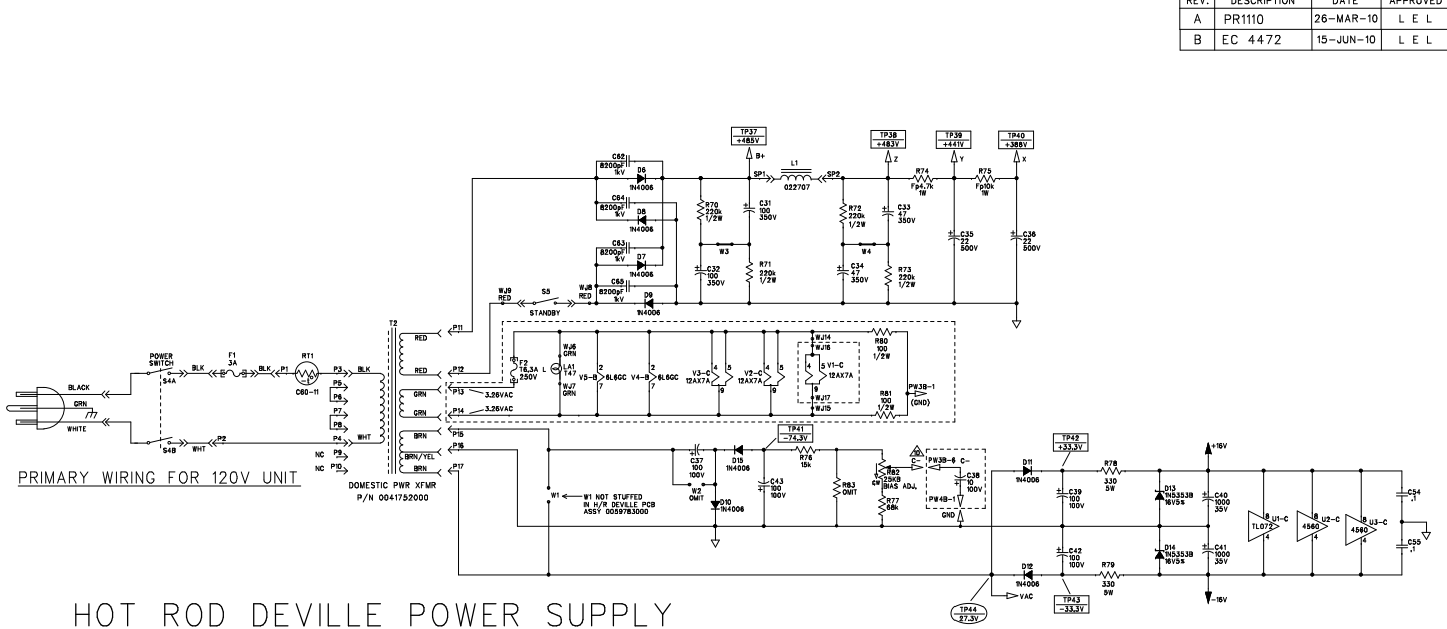
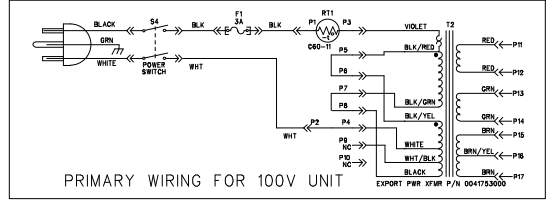
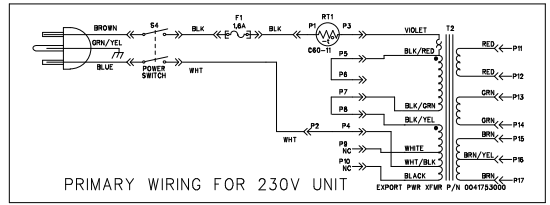
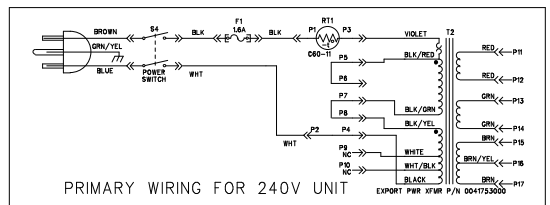
TITLE: SERVICE DIAGRAM, COMBINED (schematic)
 HOT ROD DELUXE/DEVILLE III

APPROVED BY: _____
 DATE: _____

DRAWN: L. Lorenzen/ENGR L. Lorenzen
 DATABASE FILE: 21105.SCH

SIZE: DRAWING NUMBER: **D 0079604000** REV: **B**
 RELEASE DATE: 10-JUN-10 SHEET: 1 OF 3

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR1110	26-MAR-10	L E L
B	EC 4472	15-JUN-10	L E L



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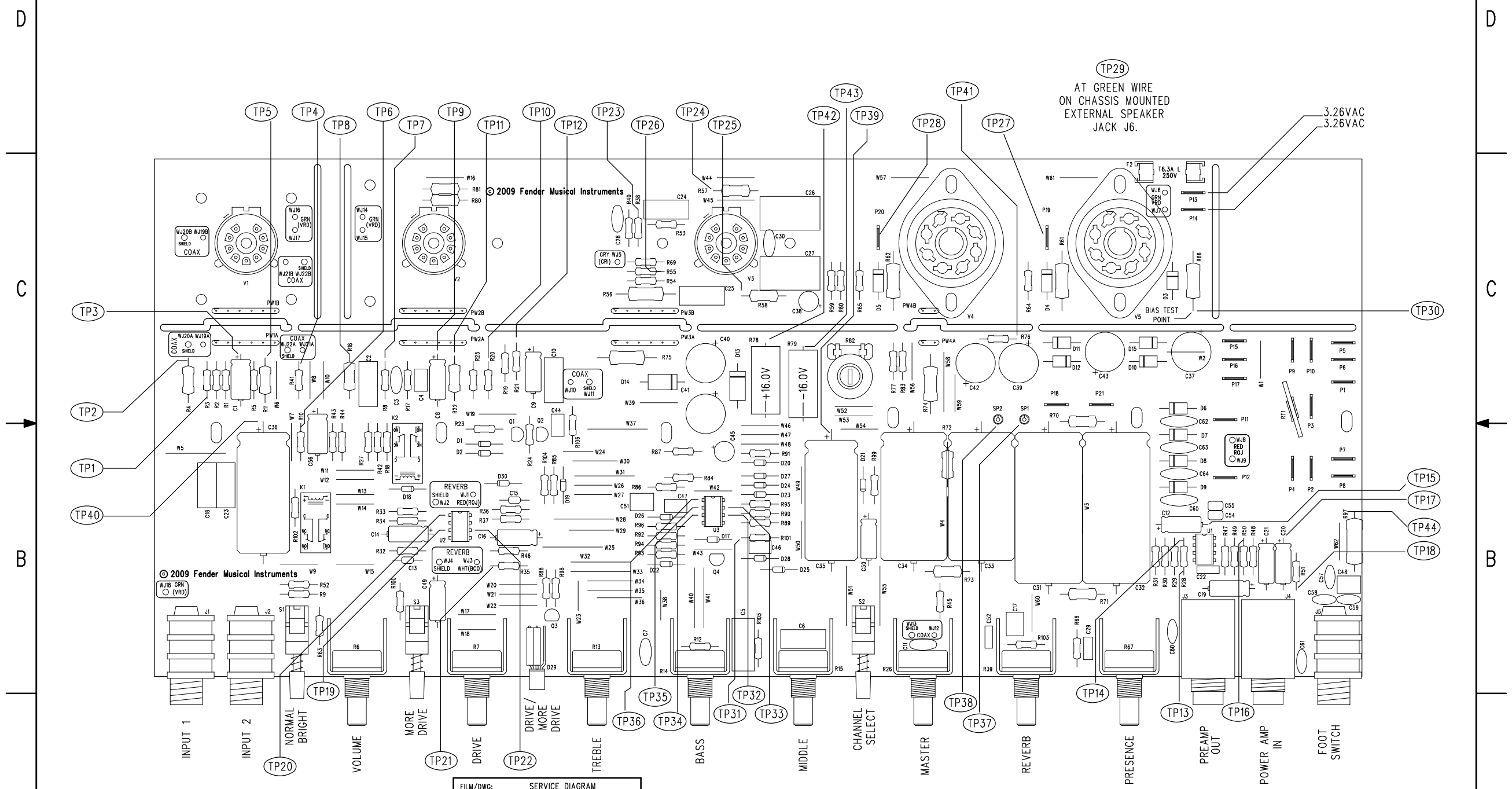
CHECKED BY: _____
DATE: _____
APPROVED BY: _____
DATE: _____
DRAWN: L.Lorenzen ENGR: L.Lorenzen
DATABASE FILE: Z1105.SCH

TITLE: SERVICE DIAGRAM, COMBINED (schematic)
HOT ROD DELUXE/DEVILLE

SIZE: D DRAWING NUMBER: 0079604000 REV: B
RELEASE DATE: 15-JUN-10 SHEET: 2 OF 3

NOTES: SEE SHEET 1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR1110	26-MAR-10	LEL
B	EC 4472	15-JUN-10	LEL



FILM/DWG: SERVICE DIAGRAM
 DATABASE: Z485P.PCB DATE: 18-MAR-09

3. SEE PAGE 1 FOR NOTES AND TEST CONDITIONS
2. WIRES NOT SHOWN FOR CLARITY
1. PCB SHOWN BEFORE POWER AMP BREAKAWAY IS INSTALLED IN CHASSIS

NOTES: (UNLESS OTHERWISE NOTED)

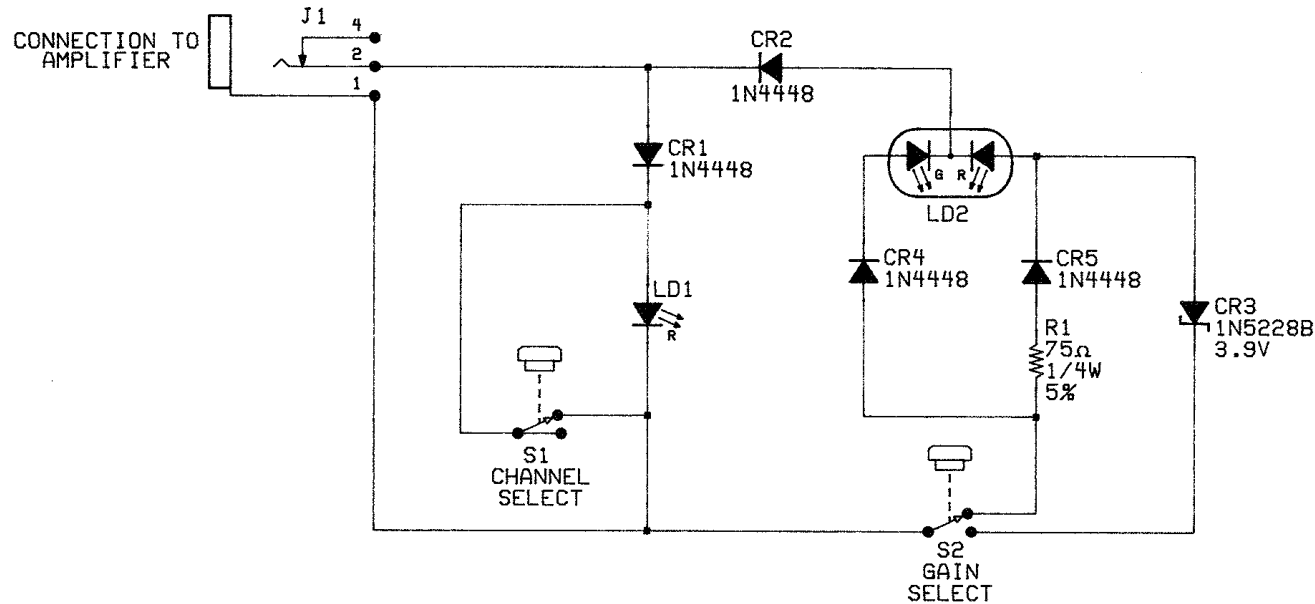
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DATE: _____	HOT ROD DELUXE/DEVILLE III		
APPROVED BY: _____	SIZE	DRAWING NUMBER	REV.
DATE: _____	C	0079604000	B
DRAWN: L. LORENZEN	ENGR: L. LORENZEN	RELEASE DATE: 18-SEP-02	SHEET 3 OF 3
DATABASE FILE: Z1110-P.PCB			

SERVICE MANUAL DOCUMENT

JUNE 25, 2010



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DATE:		TITLE: SCHEMATIC DIAGRAM, FOOTSWITCH, CH/GA.		SIZE	REV.
APPROVED:		DRAWN		DRAWING NUMBER 050415	A
DATE		ENGR:			
TOLERANCES: UNLESS OTHERWISE NOTED		NEXT HIGHER ASSEMBLY: P/N 050417 PCB ASSY FTSW CH/GA		CREATED:	SHEET 1 OF 1
X.X	±0.050"	SCALE: NONE.		PLOTTED:	
X.XX	±0.010"				
X.XXX	±0.005"				
ANGLES	±0.500°				