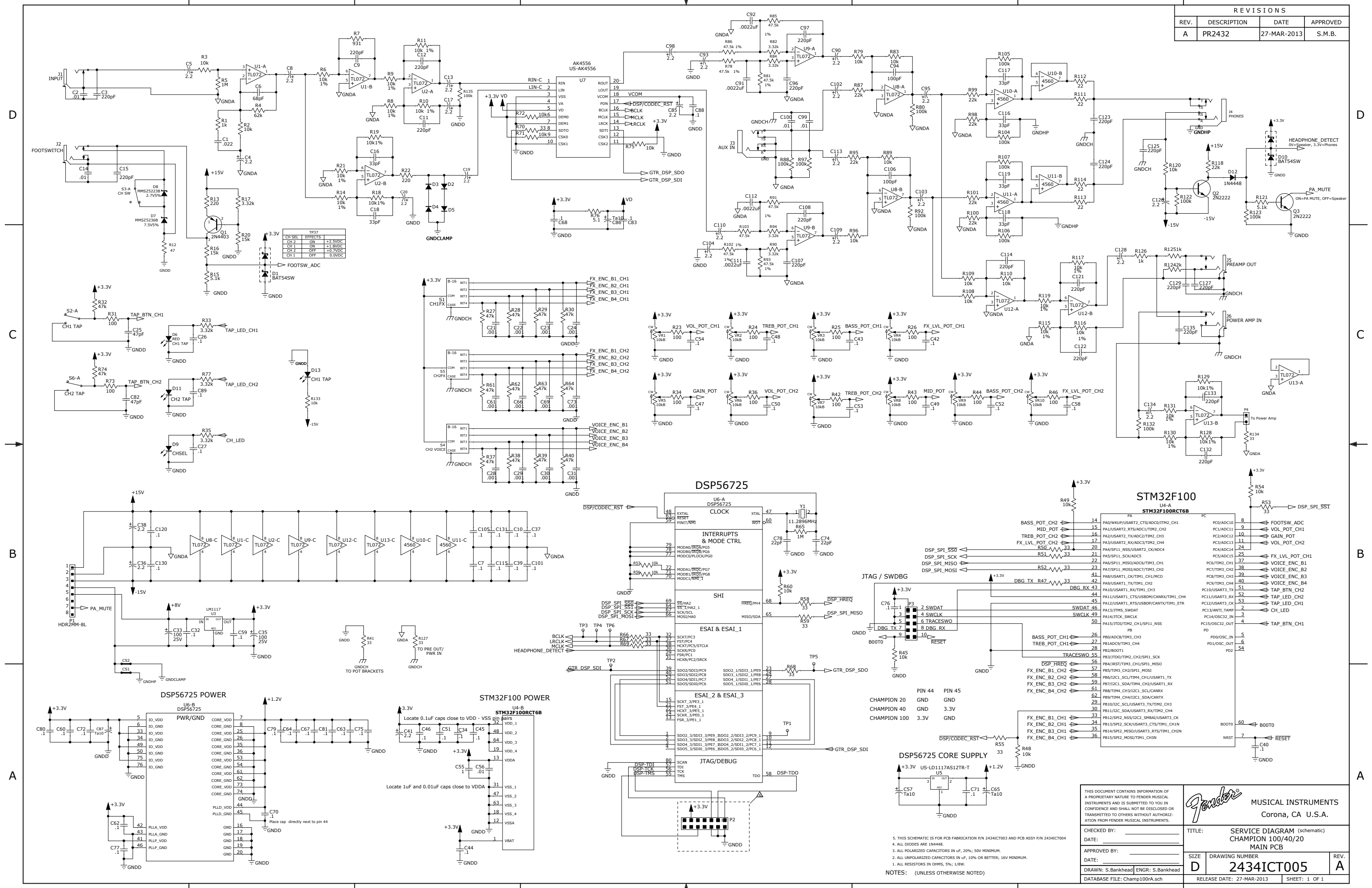


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR2432	27-MAR-2013	S.M.B.



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

SERVICE DIAGRAM (schematic)
CHAMPION 100/40/20
MAIN PCB

CHECKED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____
DRAWN: S.Bankhead ENGR: S.Bankhead

SIZE: D DRAWING NUMBER: 2434ICT005 REV. A
RELEASE DATE: 27-MAR-2013 SHEET: 1 OF 1

- NOTES: (UNLESS OTHERWISE NOTED)
- THIS SCHEMATIC IS FOR PCB FABRICATION P/N 2434ICT003 AND PCB ASSY P/N 2434ICT004
 - ALL DIODES ARE 1N4448.
 - ALL POLARIZED CAPACITORS IN uF, 20%, 50V MINIMUM.
 - ALL UNPOLARIZED CAPACITORS IN uF, 10% OR BETTER; 16V MINIMUM.
 - ALL RESISTORS IN OHMS, 5%, 1/8W.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR841/899	17-JAN-12	MTG

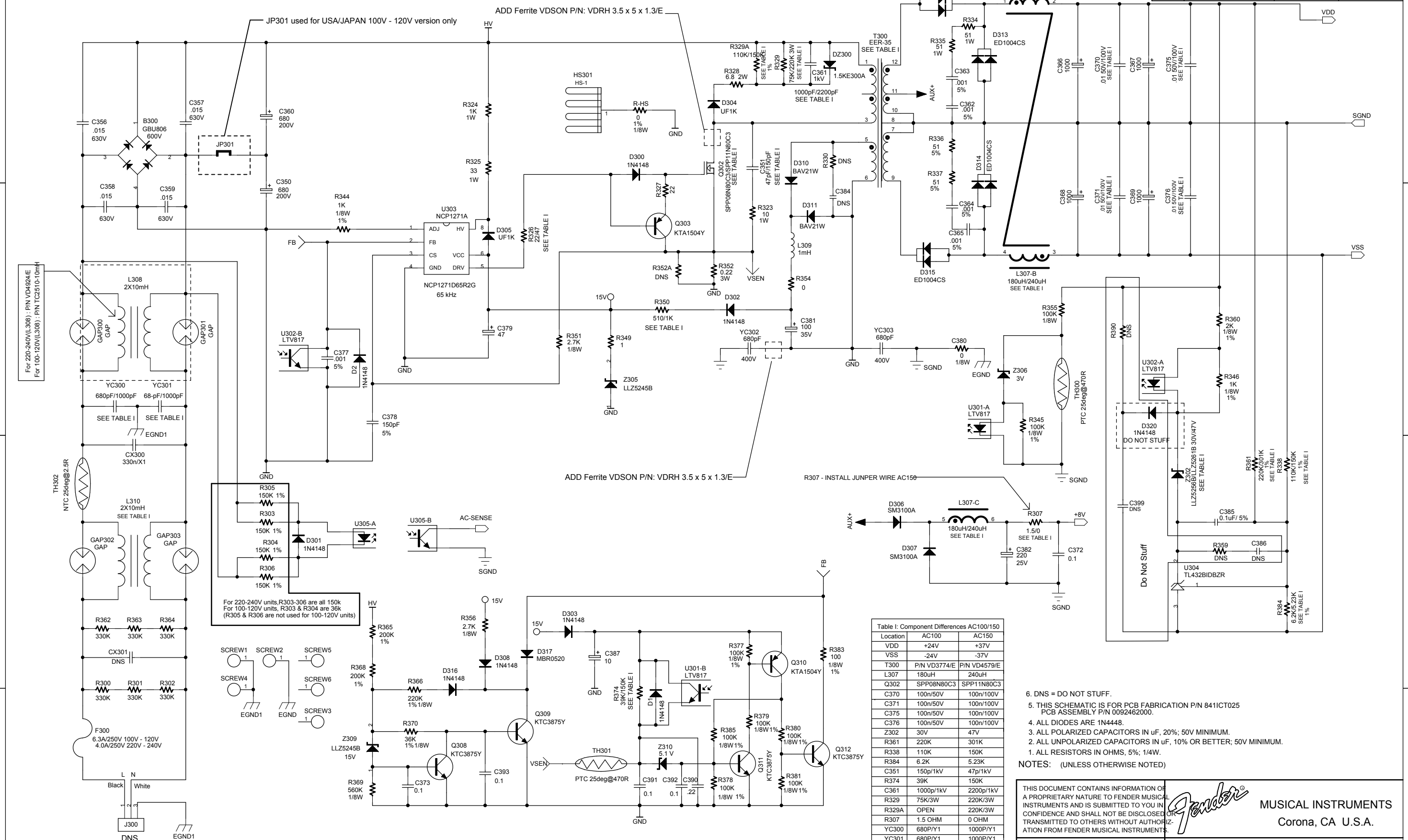


Table 1: Component Differences AC100/150

Location	AC100	AC150
VDD	+24V	+37V
VSS	-24V	-37V
T300	P/N VD3774/E	P/N VD4579/E
L307	180uH	240uH
Q302	SPP08N80C3	SPP11N80C3
C370	100n/50V	100n/100V
C371	100n/50V	100n/100V
C375	100n/50V	100n/100V
C376	100n/50V	100n/100V
Z302	30V	47V
R361	220K	301K
R338	110K	150K
R384	6.2K	5.23K
C351	150p/1kV	47p/1kV
R374	39K	150K
C361	1000p/1kV	2200p/1kV
R329	75K/3W	220K/3W
R329A	OPEN	220K/3W
R307	1.5 OHM	0 OHM
YC300	680P/Y1	1000P/Y1
YC301	680P/Y1	1000P/Y1
R326	22 ohm	47 ohm
R350	510 ohm	1K
L310	VD4456	VD4307

6. DNS = DO NOT STUFF.
5. THIS SCHEMATIC IS FOR PCB FABRICATION P/N 8411CT025 PCB ASSEMBLY P/N 0092462000.
4. ALL DIODES ARE 1N4448.
3. ALL POLARIZED CAPACITORS IN uF, 20%; 50V MINIMUM.
2. ALL UNPOLARIZED CAPACITORS IN uF, 10% OR BETTER; 50V MINIMUM.
1. ALL RESISTORS IN OHMS, 5%; 1/4W.
- NOTES: (UNLESS OTHERWISE NOTED)

Do Not Stuff J300. Solder L and N twisted pair wires to PCB and secure with approved glue.

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

CHECKED BY: _____ TITLE: SERVICE DIAGRAM, COMBINED (schematic)

DATE: _____

APPROVED BY: _____

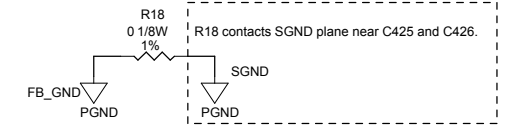
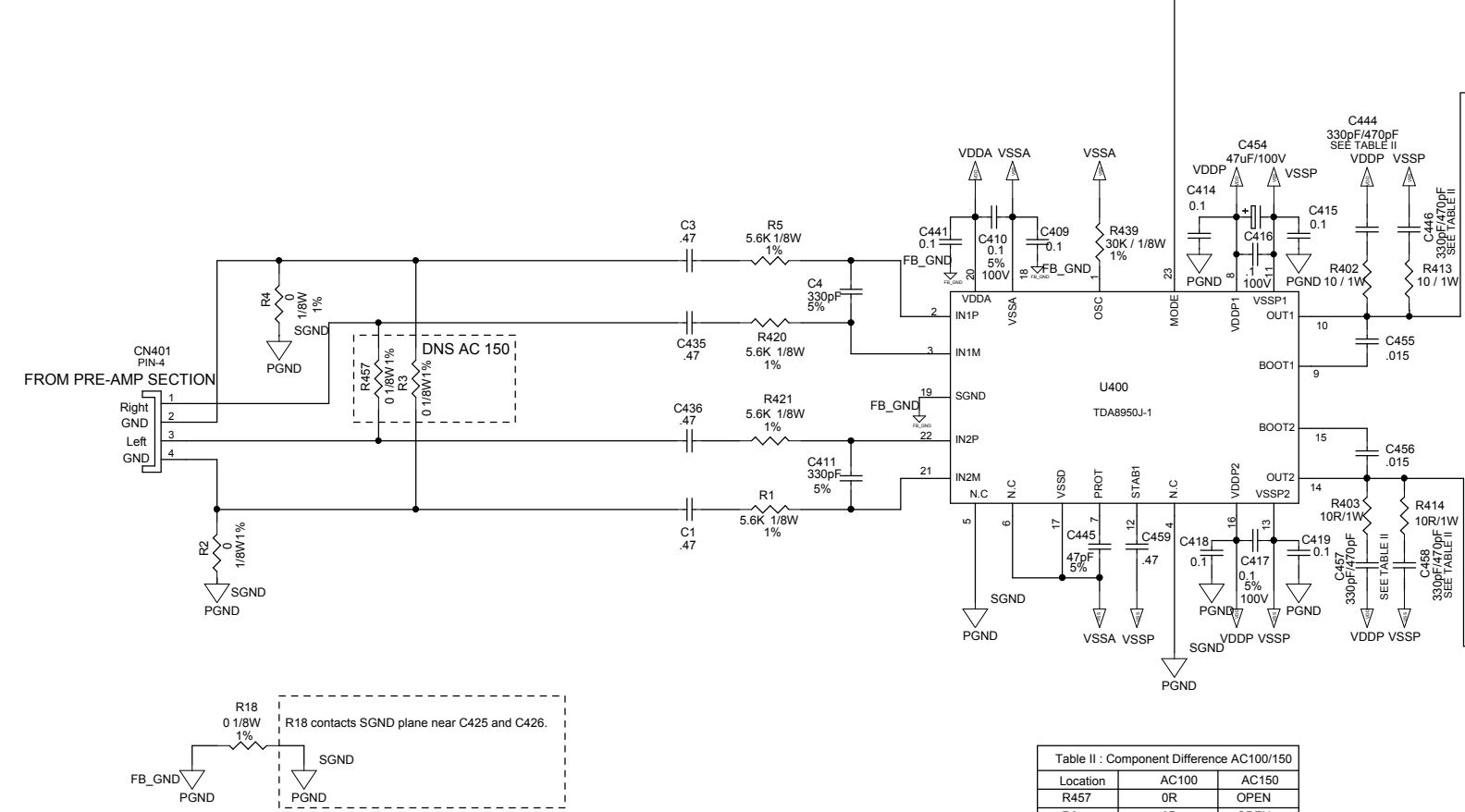
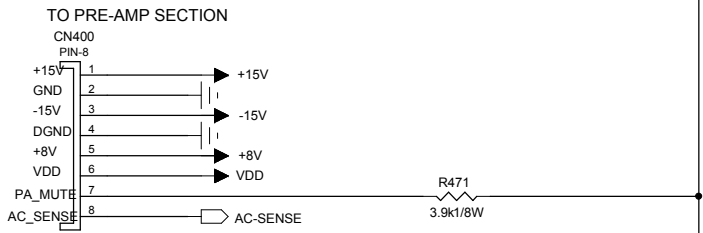
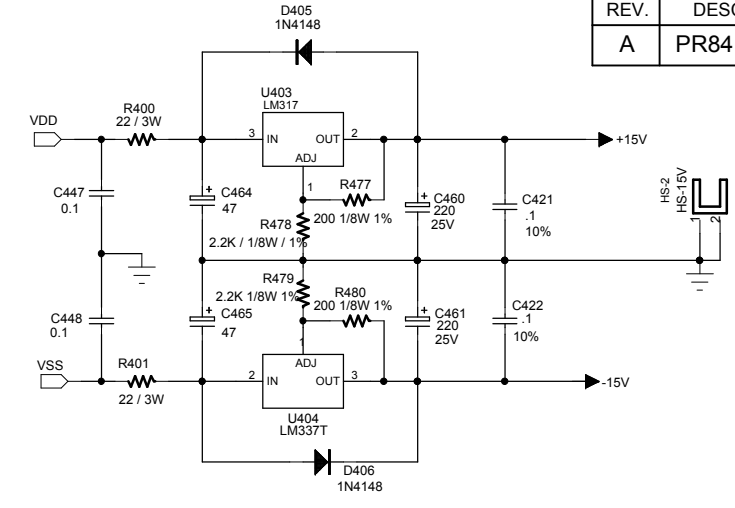
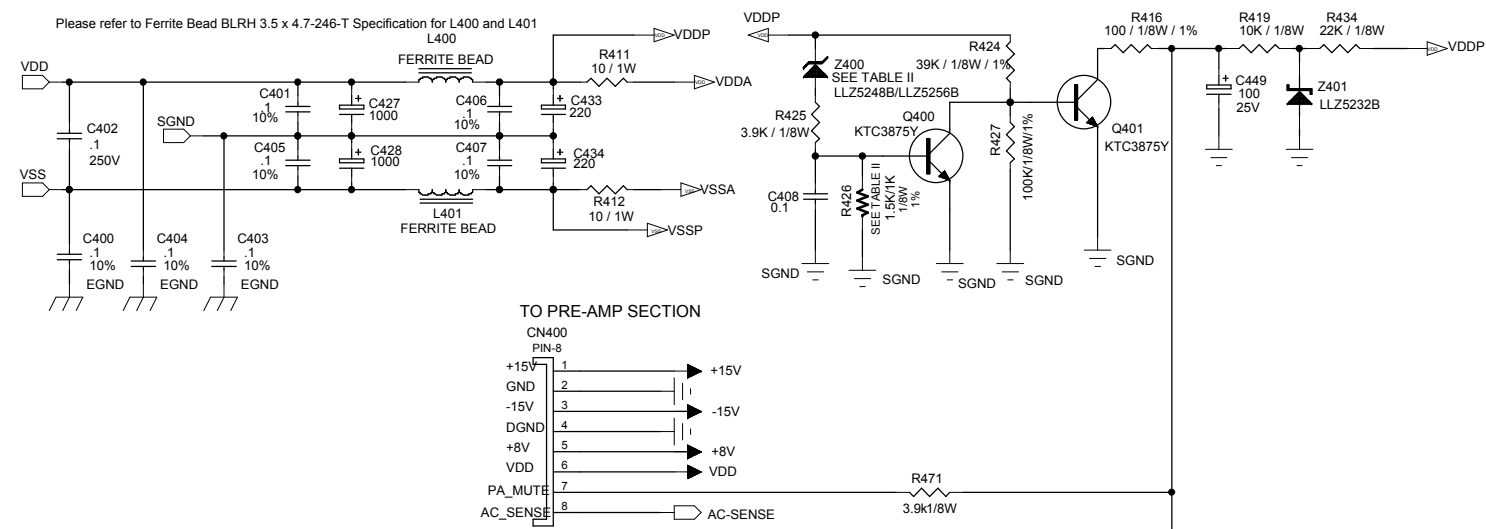
DATE: _____

DRAWN: HAN LE ENGR: GALLAGHER

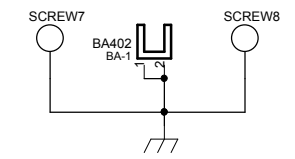
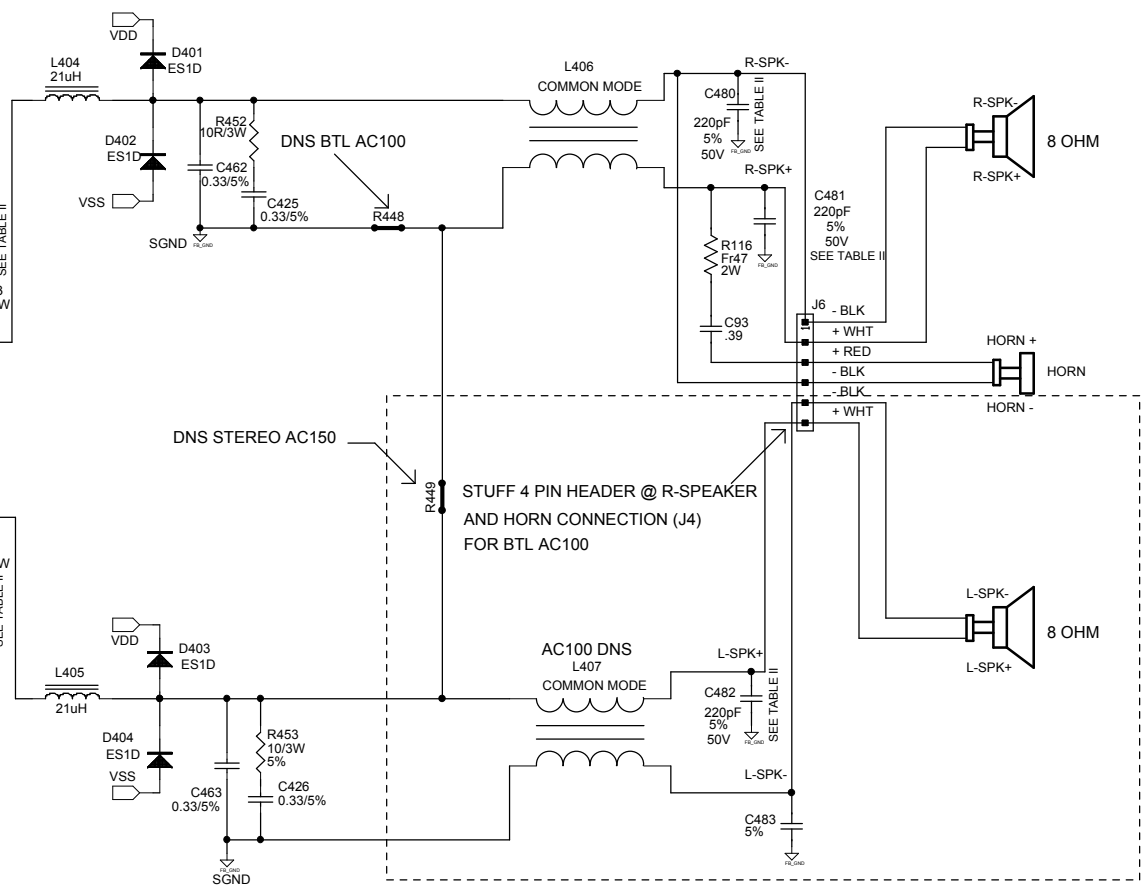
SIZE **B** DRAWING NUMBER **8411CT028** REV. **A**

DATABASE FILE: Z841S2.SCH RELEASE DATE: 17-JAN-12 SHEET: 1 OF 3

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR841/899	17-JAN-12	MTG



Location	AC100	AC150
R457	0R	OPEN
R3	0R	OPEN
J6	4 PIN	6 PIN
L407	OPEN	CMODE
C444	330P	470P
C446	330P	470P
C457	330P	470P
C458	330P	470P
Z400	18V	30V
R426	1.5K	1.0K
C480	N/A	220P
C481	N/A	220P
C482	N/A	220P
C483	N/A	220P



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

CHECKED BY: _____ TITLE: SERVICE DIAGRAM, COMBINED (schematic)
DATE: _____

APPROVED BY: _____ SIZE DRAWING NUMBER
DATE: _____ **B** **841ICT028** REV. **A**

DRAWN: HAN LE ENGR: GALLAGHER
DATABASE FILE: Z841S2.SCH RELEASE DATE: 26-OCT-11 SHEET: 2 OF 3

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR841	24-JAN-12	M.G.

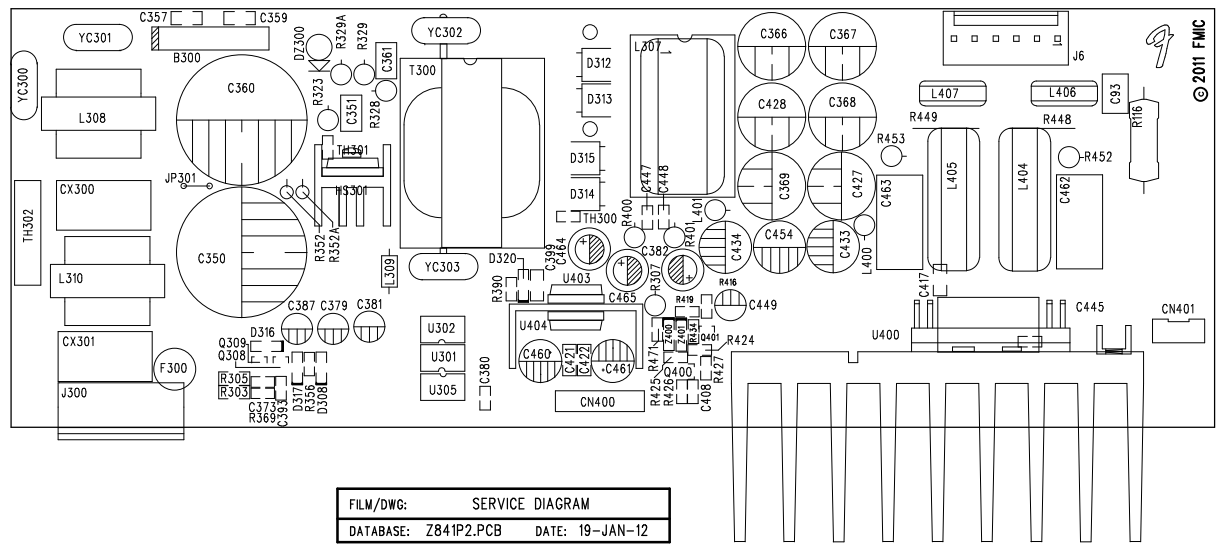
Table I : Component Difference AC100/150

Location	AC100	AC150
VDD	+24V	+37V
VSS	-24V	-37V
L310	VD4456	VD4307
T300	P/N VD43774/E	P/N VD4579/E
L307	180uH	240uH
Q302	SPP08N80C3	SPP11N80C3
C351	150p/1kV	47p/1kV
C361	1000p/1kV	2200p/1kV
R329	75K/3W	220K/3W
R329A	OPEN	220K/3W
R307	1.5 OHM	JUMPER WIRE (0 OHM)
YC300	680P/Y1	1000P/Y1
YC301	680P/Y1	1000P/Y1
L407	OPEN	CMODE
Z400	18V	30V
R426	1.5K	1.0K

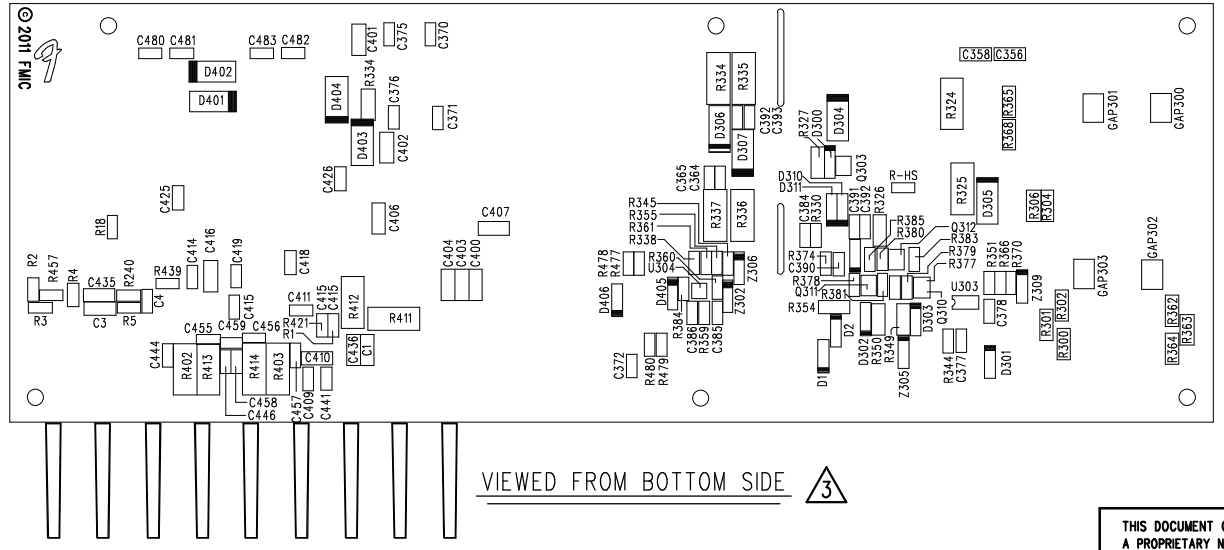
Table II : Component Difference AC100/150

Location	AC100	AC150
VDD	+24V	+37V
VSS	-24V	-37V
C370	100n/50V	100n/100V
C371	100n/50V	100n/100V
C375	100n/50V	100n/100V
C376	100n/50V	100n/100V
Z302	30V	47V
R361	220K	301K
R338	110K	150K
R384	6.2K	5.23K
R374	39K	150K
R326	22ohm	47ohm
R350	510ohm	1K
R457	OR	OPEN
R3	OR	OPEN
C444	330P	470P
C446	330P	470P
C457	330P	470P
C458	330P	470P
C480	N/A	220P
C481	N/A	220P
C482	N/A	220P
C483	N/A	220P

VIEWED FROM TOP SIDE



VIEWED FROM BOTTOM SIDE



- SEE TABLE II (BOTTOM SIDE) AND BOM FOR ALTERNATE STUFFINGS.
- SEE TABLE I (TOP SIDE) AND BOM FOR ALTERNATE STUFFINGS.
- SEE SHEETS 1 AND 2 FOR VALUES AND CONDITIONS.

NOTES: (UNLESS OTHERWISE NOTED)

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CHECKED BY: _____ DATE: _____		TITLE: SERVICE DIAGRAM, COMBINED PWR AMP_SMPS MODULE	
APPROVED BY: _____ DATE: _____		SIZE C	DRAWING NUMBER 841ICT028
DRAWN: PK CORBIN M. GALLAGHER		REV. A	SHEET 3 OF 3
DATABASE FILE: Z841P2.PCB		RELEASE DATE: 24-JAN-12	