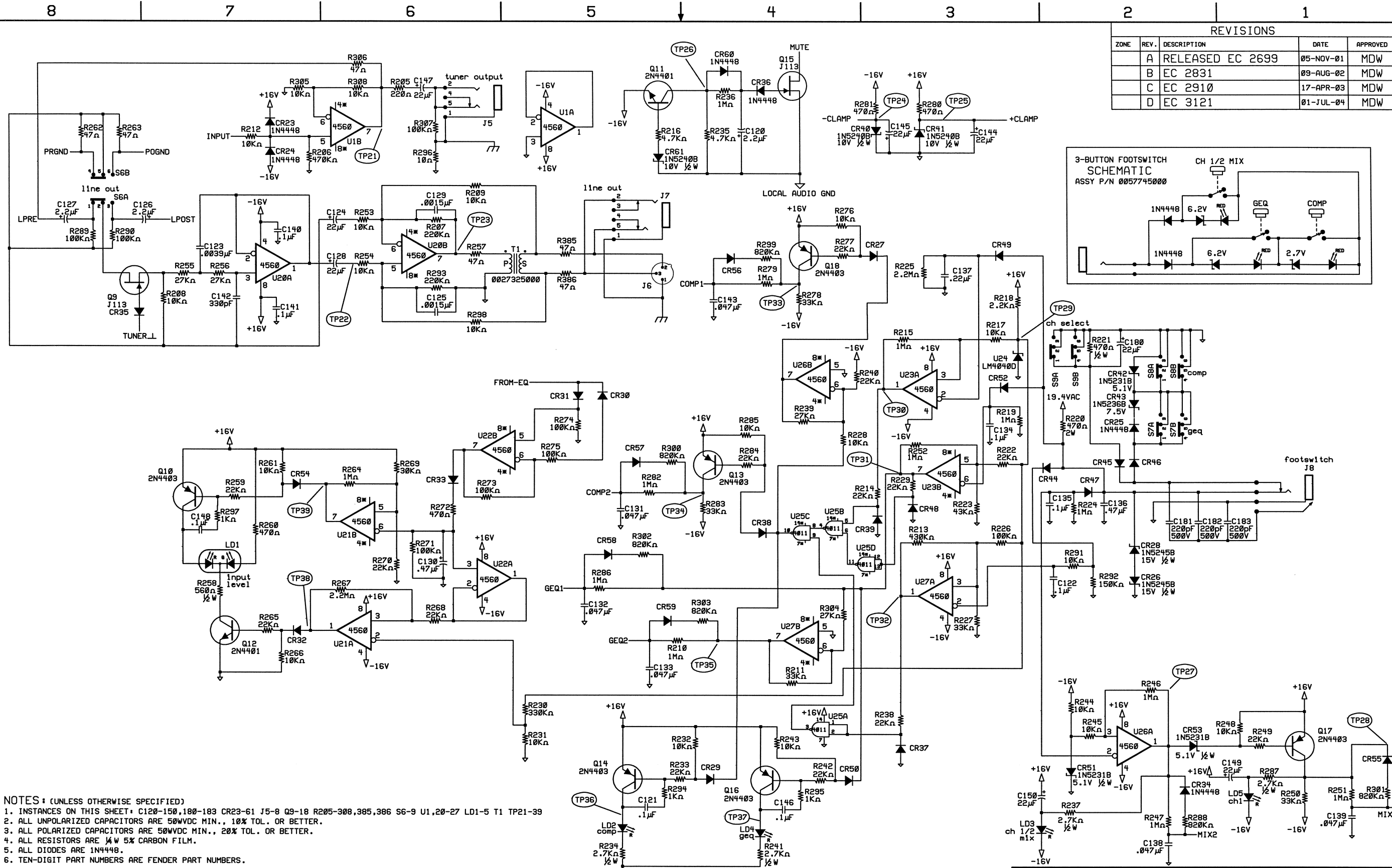


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED EC 2699	05-NOV-01	MDW
	B	EC 2831	09-AUG-02	MDW
	C	EC 2910	17-APR-03	MDW
	D	EC 3121	01-JUN-04	MDW

- NOTES: (UNLESS NOTED OTHERWISE)
1. INSTANCES ON THIS SHEET: C1-119 CR1-22 J1-4 Q1-8 R1-204,383,384 S1-5 U2-19 V1-2 TP1-20,59,60
  2. ALL UNPOLARIZED CAPACITORS ARE 50WVDC MIN., 10% TOL. OR BETTER.
  3. ALL POLARIZED CAPACITORS ARE 50WVDC MIN., 20% TOL. OR BETTER.
  4. ALL RESISTORS ARE 1/4W 5% CARBON FILM.
  5. ALL DIODES ARE 1N4448.
  6. TEN-DIGIT PART NUMBERS ARE FENDER PART NUMBERS.

DATABASE FILE: 234751.DBF CHECKED BY: <i>BL</i> DATE: <i>30 JUL 04</i> APPROVED: <i>MDW</i> DATE: <i>8/2/04</i> TOLERANCES: UNLESS OTHERWISE SPECIFIED X.X .050" X.XX .010" X.XXX .005" ANGLES .5000"	<b>PROPRIETARY</b> THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND IS THE PROPERTY OF THE FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT FROM FENDER MUSICAL INSTRUMENTS CO. REGIONAL HEADQUARTERS CORONA, CALIFORNIA U.S.A.	<b>FENDER MUSICAL INSTRUMENTS</b> Corona, California U.S.A. TITLE: SERVICE DIAGRAM, BASS (schematic) BASSMAN 300 COMP AMPLIFIER SIZE: DRAWN: FM/MDW DRAWING NUMBER: 0057736000 REV: D ENGR: FM/MDW NEXT HIGHER ASSEMBLY: BASSMAN 300 BASS AMPLIFIER. SCALE: CREATED: 11-FEB-97 PLOTTED: 01-JUL-04 SHEET 1 OF 4
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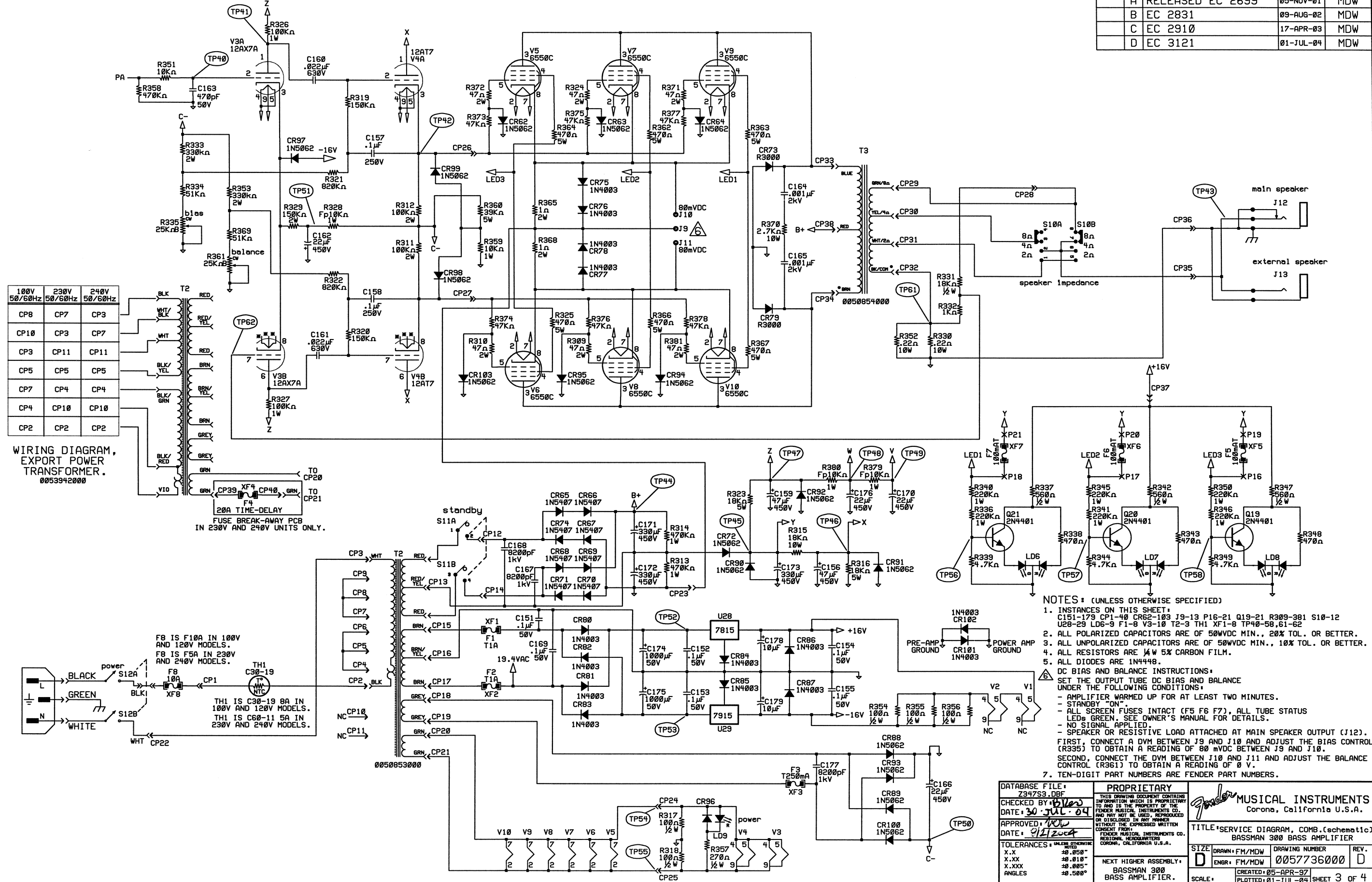
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED EC 2699	05-NOV-01	MDW
	B	EC 2831	09-AUG-02	MDW
	C	EC 2910	17-APR-03	MDW
	D	EC 3121	01-JUL-04	MDW



- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. INSTANCES ON THIS SHEET: C120-150, 180-183 CR23-61 J5-8 Q9-18 R205-300, 385, 386 S6-9 U1, 20-27 LD1-5 T1 TP21-39
  2. ALL UNPOLARIZED CAPACITORS ARE 50WVDC MIN., 10% TOL. OR BETTER.
  3. ALL POLARIZED CAPACITORS ARE 50WVDC MIN., 20% TOL. OR BETTER.
  4. ALL RESISTORS ARE 1/4W 5% CARBON FILM.
  5. ALL DIODES ARE 1N4448.
  6. TEN-DIGIT PART NUMBERS ARE FENDER PART NUMBERS.

DATABASE FILE: Z347S2.DBF CHECKED BY: <i>MDW</i> DATE: 30-APR-04 APPROVED: <i>MDW</i> DATE: 12-2-04 TOLERANCES: UNLESS OTHERWISE SPECIFIED .X.X .050" .X.XX .010" .X.XXX .005" ANGLES .0500"	<b>PROPRIETARY</b> THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND IS THE PROPERTY OF THE FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT FROM FENDER MUSICAL INSTRUMENTS CO., REGIONAL HEADQUARTERS CORONA, CALIFORNIA U.S.A.	<b>FENDER MUSICAL INSTRUMENTS</b> Corona, California U.S.A. TITLE: SERVICE DIAGRAM, COMB. (schematic) BASSMAN 300 BASS AMPLIFIER SIZE: DRAWN: FM/MDW DRAWING NUMBER: 0057736000 REV. D ENGR: FM/MDW NEXT HIGHER ASSEMBLY: BASSMAN 300 BASS AMPLIFIER. SCALE: CREATED: 05-APR-97 PLOTTED: 01-JUL-04 SHEET 2 OF 4
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED EC 2699	05-NOV-01	MDW
	B	EC 2831	09-AUG-02	MDW
	C	EC 2910	17-APR-03	MDW
	D	EC 3121	01-JUL-04	MDW



100V 50/60Hz	230V 50/60Hz	240V 50/60Hz
CP8	CP7	CP3
CP10	CP3	CP7
CP3	CP11	CP11
CP5	CP5	CP5
CP7	CP4	CP4
CP4	CP10	CP10
CP2	CP2	CP2

WIRING DIAGRAM,  
EXPORT POWER  
TRANSFORMER.  
0053942000

20A TIME-DELAY  
FUSE BREAK-AWAY PCB  
IN 230V AND 240V UNITS ONLY.

F8 IS F10A IN 100V  
AND 120V MODELS.  
F8 IS F5A IN 230V  
AND 240V MODELS.  
TH1 IS C30-19 8A IN  
100V AND 120V MODELS.  
TH1 IS C60-11 5A IN  
230V AND 240V MODELS.

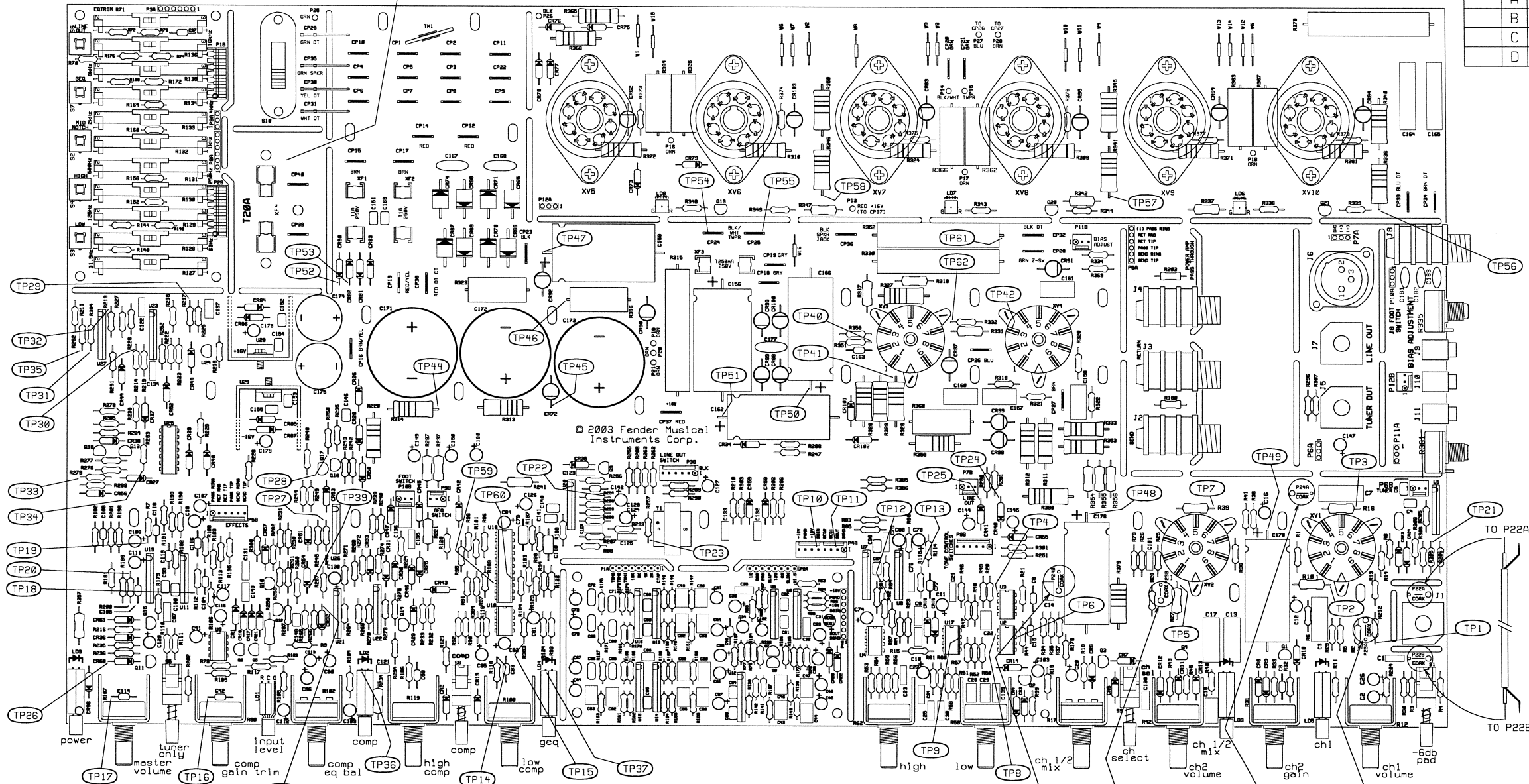
- NOTES: (UNLESS OTHERWISE SPECIFIED)
- INSTANCES ON THIS SHEET:  
C151-179 CP1-40 CR62-103 J9-13 P16-21 Q19-21 R309-381 S10-12  
U28-29 LD6-9 F1-8 V3-10 T2-3 TH1 XF1-8 TP40-58,61-62
  - ALL POLARIZED CAPACITORS ARE OF 50WVDC MIN., 20% TOL. OR BETTER.
  - ALL UNPOLARIZED CAPACITORS ARE OF 50WVDC MIN., 10% TOL. OR BETTER.
  - ALL RESISTORS ARE 1/4W 5% CARBON FILM.
  - ALL DIODES ARE 1N4448.
- DC BIAS AND BALANCE INSTRUCTIONS:  
SET THE OUTPUT TUBE DC BIAS AND BALANCE  
UNDER THE FOLLOWING CONDITIONS:  
- AMPLIFIER WARMED UP FOR AT LEAST TWO MINUTES.  
- STANDBY "ON"  
- ALL SCREEN FUSES INTACT (F5 F6 F7), ALL TUBE STATUS  
LEDs GREEN. SEE OWNER'S MANUAL FOR DETAILS.  
- NO SIGNAL APPLIED.  
- SPEAKER OR RESISTIVE LOAD ATTACHED AT MAIN SPEAKER OUTPUT (J12).  
FIRST, CONNECT A DVM BETWEEN J9 AND J10 AND ADJUST THE BIAS CONTROL (R335) TO OBTAIN A READING OF 80 mVDC BETWEEN J9 AND J10.  
SECOND, CONNECT THE DVM BETWEEN J10 AND J11 AND ADJUST THE BALANCE CONTROL (R361) TO OBTAIN A READING OF 0 V.
7. TEN-DIGIT PART NUMBERS ARE FENDER PART NUMBERS.

DATABASE FILE: Z347S3.DBF CHECKED BY: <i>Blues</i> DATE: 30 JUL 04 APPROVED: <i>[Signature]</i> DATE: 9/2/04 TOLERANCES: UNLESS OTHERWISE SPECIFIED: X.X .05" X.XX .01" X.XXX .005" ANGLES .500°	PROPRIETARY THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND IS THE PROPERTY OF THE FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT FROM FENDER MUSICAL INSTRUMENTS CO. REGIONAL HEADQUARTERS CORONA, CALIFORNIA U.S.A.	Fender <b>MUSICAL INSTRUMENTS</b> Corona, California U.S.A. TITLE: SERVICE DIAGRAM, COMB.(schematic) BASSMAN 300 BASS AMPLIFIER SIZE: DRAWN: FM/MDW DRAWING NUMBER: REV. D ENGR: FM/MDW 0057736000 NEXT HIGHER ASSEMBLY: BASSMAN 300 BASS AMPLIFIER. SCALE: CREATED: 05-APR-97 PLOTTED: 01-JUL-04 SHEET 3 OF 4
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED EC 2699	05-NOV-01	MDW
	B	EC 2831	09-AUG-02	MDW
	C	EC 2910	17-APR-03	MDW
	D	EC 3121	01-JUL-04	MDW

XF4, CP39, CP40 INSTALLED IN 230V AND 240V UNITS ONLY.

TP43 AT J12 TIP (MAIN SPEAKER JACK)



FILM/DWG: SERVICE DIAGRAM  
 DATABASE: Z347P.DBF DATE: 01-JUL-04  
 LAYERS PLOTTED: 1 2 3 4 10 18

TP#	VOLTS DC	VOLTS AC	ADDITIONAL CONDITIONS/NOTES
1		25.8 mV	
2	+133 V	326 mV	
3	+133 V	470 mV	
4		468 mV	
5	+133 V	70 mV	
6		528 mV	
7	+153 V	26.7 V	WITH S9 (ch select) IN AND 5.9 mV AT TP1 (INPUT)
8		679 mV	
9		478 mV	
10		462 mV	
11		450 mV	
12		225 mV	
13		225 mV	
14		218 mV	225 mV MAXIMUM, APPROXIMATE
15		218 mV	225 mV MAXIMUM, APPROXIMATE
16		847 mV	918 mV MAXIMUM, APPROXIMATE
17		246 mV	
18		246 mV	
19		743 mV	
20		246 mV	
21		50.4 mV	

TP#	VOLTS DC	VOLTS AC	ADDITIONAL CONDITIONS/NOTES
22		49.5 mV	
23		48.4 mV	
24	-10.2 V		
25	+10.2 V		
26	-15.4 V		5 SECONDS AFTER TURN-ON
27	-13.9 V		
28	+14.1 V		WITH S9 (ch select) IN
29	+15.5 V		
30	-15.4 V		WITH S9 (ch select) IN
31	+14.9 V		
32	+14.1 V		WITH S8 (comp) AND S7 (geq) IN
33	+15.5 V		
34	-14.1 V		WITH S8 (comp) IN
35	+15.5 V		WITH S8 (comp) IN
36	-14.1 V		

TP#	VOLTS DC	VOLTS AC	ADDITIONAL CONDITIONS/NOTES
35	+14.8 V		WITH S7 (geq) IN
36	-14.1 V		
37	+15.5 V		WITH S8 (comp) IN
38	-14.2 V		
39	+15.5 V		WITH S7 (geq) IN
40	-14.1 V		
41	+14.7 V		WITH ≥10mV SIGNAL AT TP1, R12 (volume) AT FULL CW.
42	+15.1 V		
43	-13.8 V		WITH ≥100mV SIGNAL AT TP1, R12 (volume) FULL CW.
44		781 mV	
45	+171 V	8.72 V	SAME AT V3B PIN 6.
46	-49.4 V	8.57 V	SAME AT V4B PIN 8.
47		11.8 V	
48	+742 V		
49	+372 V		
50	+135 V		
51	+276 V		
52	+241 V		
53	+214 V		

TP#	VOLTS DC	VOLTS AC	ADDITIONAL CONDITIONS/NOTES
50	-327 V		
51	-306 V		
52	+24.6 V		
53	-24.6 V		
54		3.29 V	
55		3.29 V	
56	+2.83 V		0.0 V IN STANDBY OR WITH OPEN F6
57	+2.83 V		0.0 V IN STANDBY OR WITH OPEN F5
58	+2.83 V		0.0 V IN STANDBY OR WITH OPEN F4
59	+2.00 V		DC BIAS AT U18 RECTIFIER INPUT PIN 9
60	+2.00 V		DC BIAS AT U18 RECTIFIER INPUT PIN 15
61		161 mV	
62	0.0 V	472 mV	

NOTES AND TEST CONDITIONS:  
 1. VOLTAGES MEASURED WITH RESPECT TO GROUND USING A DVM OF AT LEAST 10MΩ DC AND 1MΩ AC INPUT IMPEDANCE. VOLTAGES MAY VARY ±20%.  
 2. ALL DC AND SUPPLY VOLTAGES MEASURED WITH NO SIGNAL APPLIED.  
 3. UNIT AT RATED LINE VOLTAGE.  
 4. 8Ω RESISTIVE LOAD CONNECTED AT TP43 (J12), AND S10 (SPEAKER IMPEDANCE SWITCH) SET TO 8Ω.  
 5. ALL CONTROLS AT CENTER ROTATION ("5-1/2").  
 6. ALL PUSH BUTTON SWITCHES OUT.  
 7. 25.8 mV 400 Hz SINEWAVE APPLIED AT TP1 (INPUT JACK).  
 8. NO FOOTSWITCH CONNECTED.  
 9. DC BIAS AND BALANCE CONTROLS R335 AND R361 SET TO OBTAIN A READING OF 80 mVDC FROM J10 AND J11 TO GROUND. SEE SCHEMATIC FOR INSTRUCTIONS.  
 10. PCB SHOWN AS FABRICATED, WITH BREAK-AWAYS IN PLACE.

DATABASE FILE: Z347P.DBF CHECKED BY: <i>MW</i> DATE: <i>FEB 05 01 BZ</i> APPROVED: <i>MW</i> DATE: <i>2/2/04</i> TOLERANCES: UNLESS OTHERWISE NOTED X.X ±0.050" X.XX ±0.010" X.XXX ±0.005" ANGLES ±0.500°	<b>PROPRIETARY</b> THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND IS THE PROPERTY OF THE FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT FROM FENDER MUSICAL INSTRUMENTS CO. REGIONAL HEADQUARTERS CORONA, CALIFORNIA U.S.A.	<b>MUSICAL INSTRUMENTS</b> Corona, California U.S.A. TITLE: SERVICE DIAGRAM COMB. (PCB ASSY) BASSMAN 300 BASS AMPLIFIER SIZE: <b>D</b> DRAWN: WILKENS ENGR: FM/MDW DRAWING NUMBER: 0057736000 REV: <b>D</b> NEXT HIGHER ASSEMBLY: BASSMAN 300 BASS AMPLIFIER. CREATED: 00-JUN-99 PLOTTED: 01-JUL-04 SCALE: NONE SHEET 4 OF 4
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