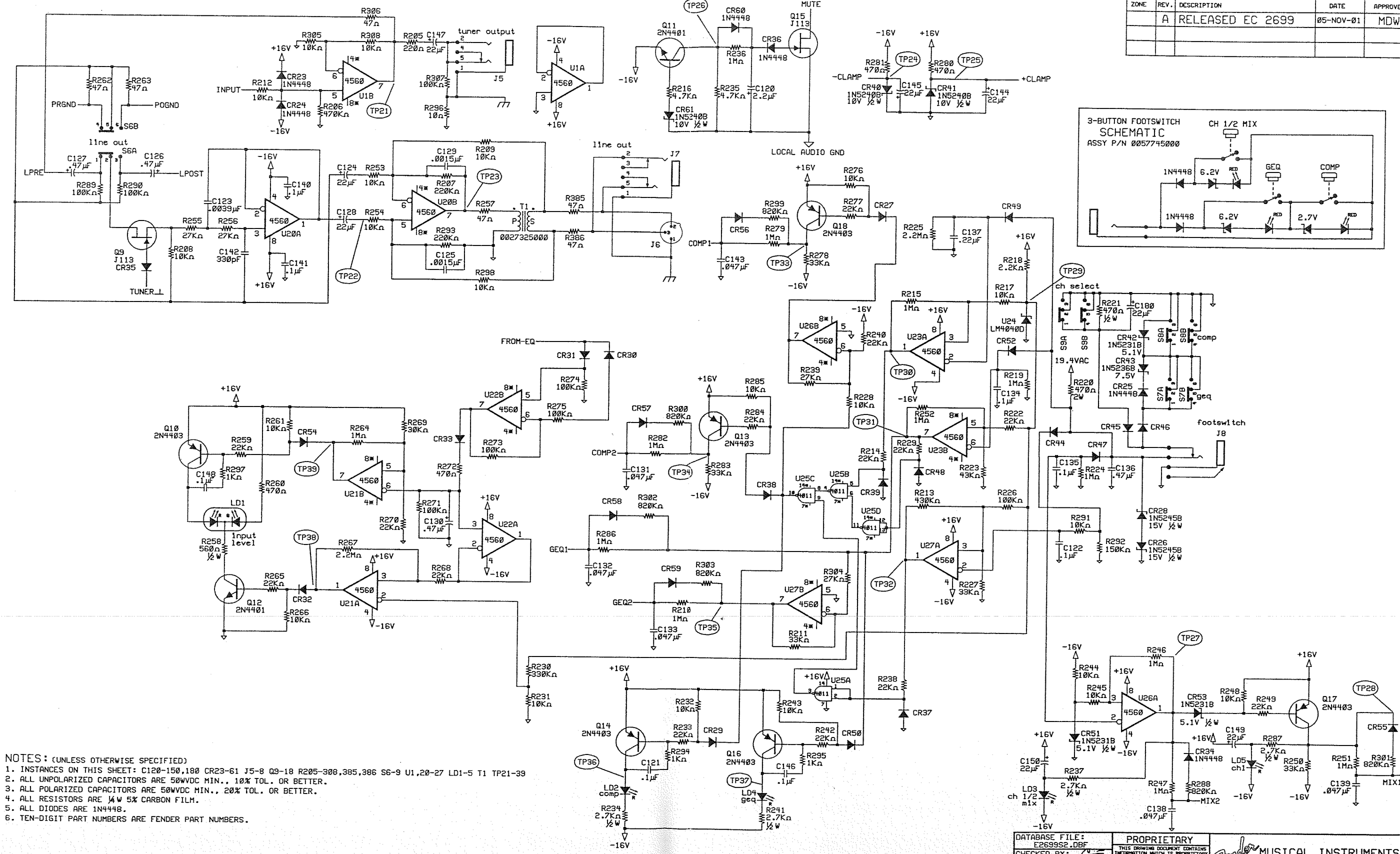
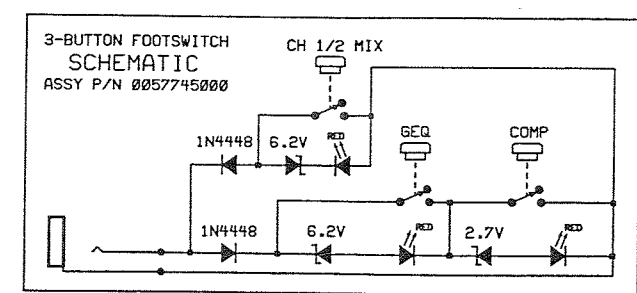


| REVISIONS |      |                  |           |          |
|-----------|------|------------------|-----------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE      | APPROVED |
|           | A    | RELEASED EC 2699 | 05-NOV-01 | MDW      |



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. INSTANCES ON THIS SHEET: C120-150, 100 CR23-61 J5-8 Q3-18 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:<br>E269952.DBF | PROPRIETARY                            | Fender Musical Instruments<br>Corona, California U.S.A.                |  |
| CHECKED BY:<br>DATE: 12-1-01  | DATE: 5-NOV-2001                       |                                                                        |  |
| APPROVED: [Signature]         | TOLERANCES: UNLESS OTHERWISE SPECIFIED | TITLE: SERVICE DIAGRAM, COMB (Schematic)<br>BASSMAN 300 BASS AMPLIFIER |  |
| DATE: 5-NOV-2001              | XTX: 0.050"                            |                                                                        |  |
|                               | X-XX: 0.010"                           | SIZE: DRAWN: FM/MDW<br>ENGR: FM/MDW                                    |  |
|                               | X-XXX: 0.005"                          |                                                                        |  |
|                               | ANGLES: 0.500°                         | NEXT HIGHER ASSEMBLY:<br>BASSMAN 300<br>BASS AMPLIFIER.                |  |
|                               |                                        |                                                                        |  |
|                               |                                        | SCALE: CREATED: 05-APR-97<br>PLOTTED: 05-NOV-01                        |  |
|                               |                                        | DRAWING NUMBER: 0057736000                                             |  |
|                               |                                        | REV. A                                                                 |  |
|                               |                                        | SHEET 2 OF 4                                                           |  |

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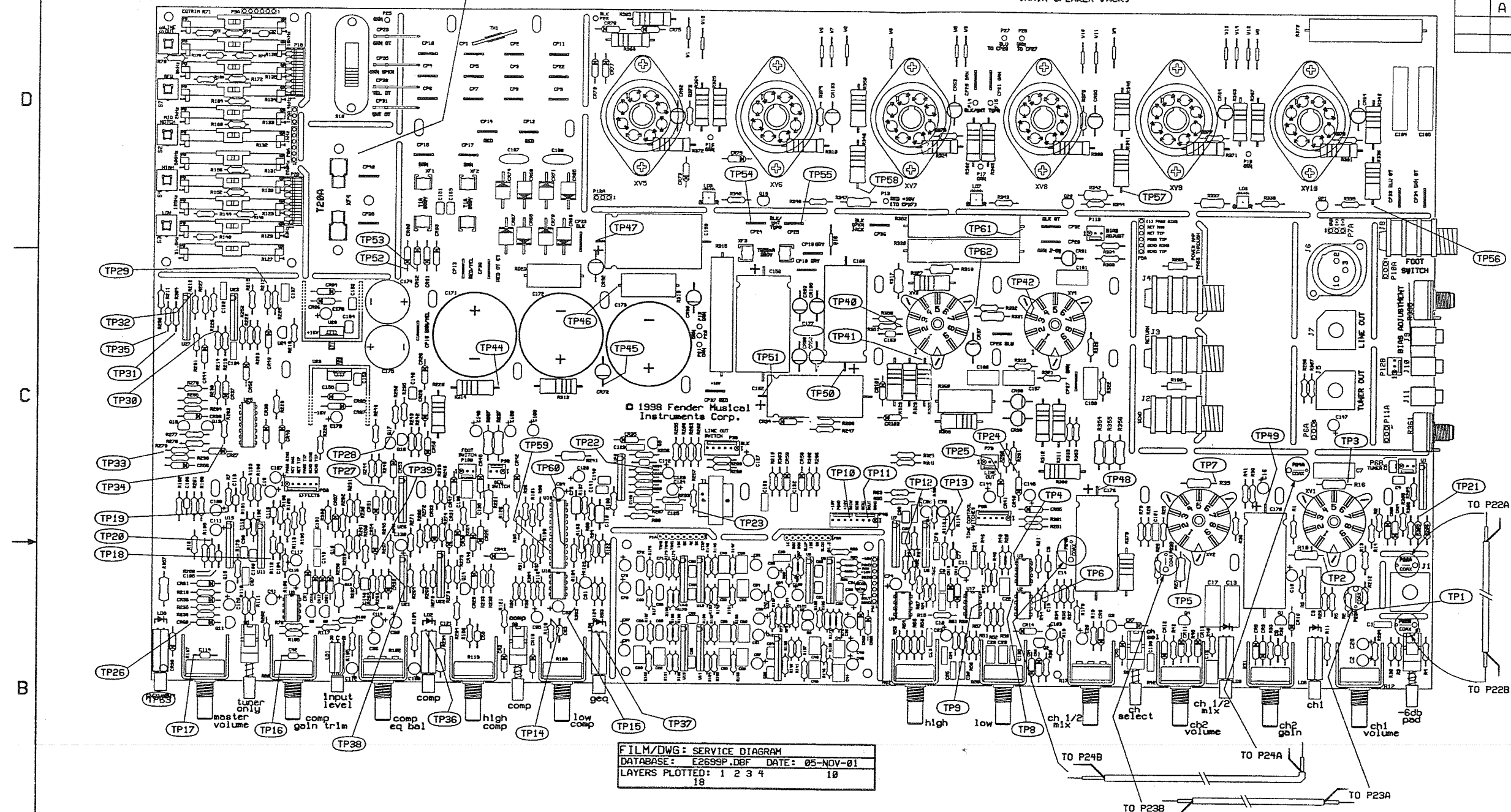
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XF4, CP39, CP40 INSTALLED IN  
230V AND 240V UNITS ONLY.

TP43  
AT J12 TIP  
(MAIN SPEAKER JACK)

## REVISIONS

| ZONE | REV. | DESCRIPTION      | DATE      | APPROVED |
|------|------|------------------|-----------|----------|
|      | A    | RELEASED EC 2699 | 05-NOV-01 | MDW      |



FILM/DWG: SERVICE DIAGRAM  
DATABASE: E2699P.DBF DATE: 05-NOV-01  
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<br>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  |          | 243 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  | +14.8 V  |          |                                |
| 34  | -13.7 V  |          | WITH S7 (geq) IN               |
| 35  | +14.9 V  |          |                                |
| 36  | -14.1 V  |          | WITH S8 (comp) IN              |
| 37  | +15.5 V  |          |                                |
| 38  | -15.4 V  |          | WITH S8 (comp) IN              |
| 39  | +15.4 V  |          |                                |
| 40  | +15.5 V  |          | WITH S8 (comp) IN              |
| 41  | -14.1 V  |          |                                |
| 42  | +15.5 V  |          |                                |
| 43  | -14.1 V  |          |                                |
| 44  | +15.5 V  |          |                                |
| 45  | -14.1 V  |          |                                |
| 46  | +15.5 V  |          |                                |
| 47  | -14.1 V  |          |                                |
| 48  | +15.5 V  |          |                                |
| 49  | -14.1 V  |          |                                |

| TP# | VOLTS DC | VOLTS AC | ADDITIONAL CONDITIONS/NOTES                           |
|-----|----------|----------|-------------------------------------------------------|
| 50  | +14.8 V  |          | WITH S7 (geq) IN                                      |
| 51  | -14.1 V  |          |                                                       |
| 52  | +15.5 V  |          | WITH S8 (comp) IN                                     |
| 53  | -14.2 V  |          |                                                       |
| 54  | +15.5 V  |          | WITH S7 (geq) IN                                      |
| 55  | -14.1 V  |          |                                                       |
| 56  | +14.7 V  |          | WITH ≥10mV SIGNAL AT TP1,<br>R12 (volume) AT FULL CW. |
| 57  | +15.1 V  |          |                                                       |
| 58  | -13.8 V  |          | WITH ≥10mV SIGNAL AT TP1,<br>R12 (volume) FULL CW.    |
| 59  | +17.1 V  | 781 mV   |                                                       |
| 60  | +17.1 V  | 8.72 V   | SAME AT V38 PIN 6.                                    |
| 61  | -49.4 V  | 8.57 V   | SAME AT V48 PIN 8.                                    |
| 62  | +742 V   | 11.8 V   |                                                       |
| 63  | +372 V   |          |                                                       |
| 64  | +135 V   |          |                                                       |
| 65  | +276 V   |          |                                                       |
| 66  | +241 V   |          |                                                       |
| 67  | +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:

- VOLTAGES MEASURED WITH RESPECT TO GROUND USING A DVM OF AT LEAST 10MΩ DC AND 1MΩ AC INPUT IMPEDANCE. VOLTAGES MAY VARY ±20%.
- ALL DC AND SUPPLY VOLTAGES MEASURED WITH NO SIGNAL APPLIED.
- UNIT AT RATED LINE VOLTAGE.
- 8Ω RESISTIVE LOAD CONNECTED AT TP43 (J12), AND S10 (SPEAKER IMPEDANCE SWITCH) SET TO 8Ω.
- ALL CONTROLS AT CENTER ROTATION ("5-1/2").
- ALL PUSH BUTTON SWITCHES OUT.
- 25.8 mV 400 Hz SINEWAVE APPLIED AT TP1 (INPUT JACK).
- NO FOOTSWITCH CONNECTED.
- DC BIAS AND BALANCE CONTROLS R335 AND R361 SET TO OBTAIN A READING OF 100 mVDC FROM J10 AND J11 TO GROUND. SEE SCHEMATIC FOR INSTRUCTIONS.
- PCB SHOWN AS FABRICATED, WITH BREAK-AWAYS IN PLACE.

DATABASE FILE:  
E2699P.DBF  
CHECKED BY:  
DATE: 12-11-01  
APPROVED: MDW  
DATE: 5-NOV-2001  
TOLERANCES: UNLESS OTHERWISE SPECIFIED  
X.X .05%  
X.XX .01%  
X.XXX .005%  
ANGLES .500°

PROPRIETARY  
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TITLE: SERVICE DIAGRAM COMB. (PCB Assy)  
BASSMAN 300 BASS AMPLIFIER  
SIZE: DRAWN: WILKENS  
ENG: FM/MDW  
DRAWING NUMBER: 0057736000  
REV. A  
NEXT HIGHER ASSEMBLY: BASSMAN 300 BASS AMPLIFIER.  
SCALE: CREATED: 08-JUN-98  
PLOTTED: 05-NOV-01  
SHEET 4 OF 4

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| REVISIONS |      |                  |           |          |
|-----------|------|------------------|-----------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE      | APPROVED |
|           | A    | RELEASED EC 2699 | 05-NOV-01 | MDW      |

