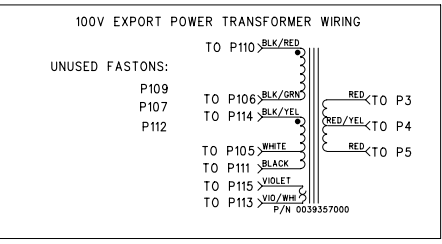
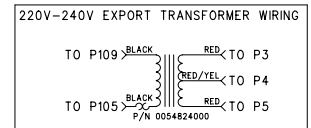
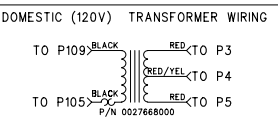
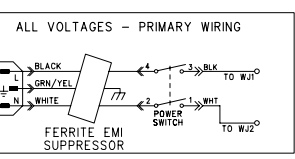


| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PR 574      | 16-MAR-04 | L.E.L.   |
| B         | EC 3097     | 20-MAY-04 | L.E.L.   |

ALL FASTONS ARE 0.250" EXCEPT P105, P111-112, P115 WHICH ARE 0.187"

| F1 FUSE USAGE TABLE |             |
|---------------------|-------------|
| 100V - 120V         | 220V - 230V |
| F2A (250V)          | F1A (250V)  |
| AUSTRALIA 240V ONLY |             |
| F1A (250V)          |             |



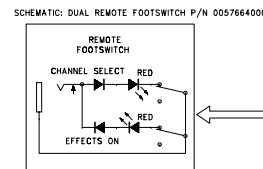
8. UNUSED: C29,67,77,78,90,94,92,5,6,P9-104,P108,R121,116,129-11,TP19,J14.  
 7. LAST REFERENCE DESIGNATOR: C100, D57, F1, J7, P115,Q27, PWR159, R1, S1, TP27,U12,W1,W2  
 6. AC AND DC VOLTAGES ARE READ TO GROUND WITH A DVM UNDER THE FOLLOWING CONDITIONS:  
 UNIT AT RATED LINE VOLTAGE  
 8 OHM RESISTIVE LOAD CONNECTED TO P1/P2  
 NO FOOTSWITCH CONNECTED  
 CH SEL SWITCH PUSHED IN (RED LED ON)  
 FX LEVEL CONTROL AT FULL CCK, DRIVE CONTROL AT "3"  
 ALL OTHER CONTROLS AT "0 1/2", TAMBRE FILTER "FLAT"  
 JACK INSERTED AT J1  
 NO INPUT SIGNAL (TP1-12)  
 ADDITIONAL CONDITIONS (TP15-27):  
 90V 50HZ SINEWAVE INPUT TO J1  
 5. THIS SCHEMATIC IS FOR PCB FABRICATION P/N 0062127000 AND PCB ASSEMBLY P/N 0062128000.  
 4. ALL DIODES ARE 1N4448.  
 3. ALL POLARIZED CAPACITORS IN UF, 10% OR BETTER; 50V MINIMUM.  
 2. ALL UNPOLARIZED CAPACITORS IN UF, 10% OR BETTER; 50V MINIMUM.  
 1. ALL RESISTORS IN OHMS, 5% 1/4W

THIS DOCUMENT CONTAINS INFORMATION OF A PROPRIETARY NATURE TO FENDER MUSICAL INSTRUMENTS AND IS SUBMITTED TO YOU IN CONFERENCE AND SHALL NOT BE DISCLOSED OR TRANSMITTED TO OTHERS WITHOUT AUTHORIZATION FROM FENDER MUSICAL INSTRUMENTS.

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN: L.E.L. ENGR: LORENSEN  
 DATABASE FILE: Z5745.SCH

TITLE: SERVICE DIAGRAM, COMBINED (schematic)  
 PRINCETON 650

SIZE: DRAWING NUMBER: D 0062129000 REV. B  
 RELEASE DATE: 16-MAR-03 SHEET: 1 OF 2



SCHEMATIC: DUAL REMOTE FOOTSWITCH P/N 0057664000

CONNECT WITH STANDARD 1/4" GUITAR OR SPEAKER CABLE

TO SPEAKER P/N 0025923000

OUTPUT POWER: INJECT 100W SIGNAL INTO J4 SIGNAL TO VERIFY 65 WATTS R.M.S. AT 5% T.H.D. INTO 8 OHM RESISTIVE LOAD AT RATED LINE VOLTAGE.

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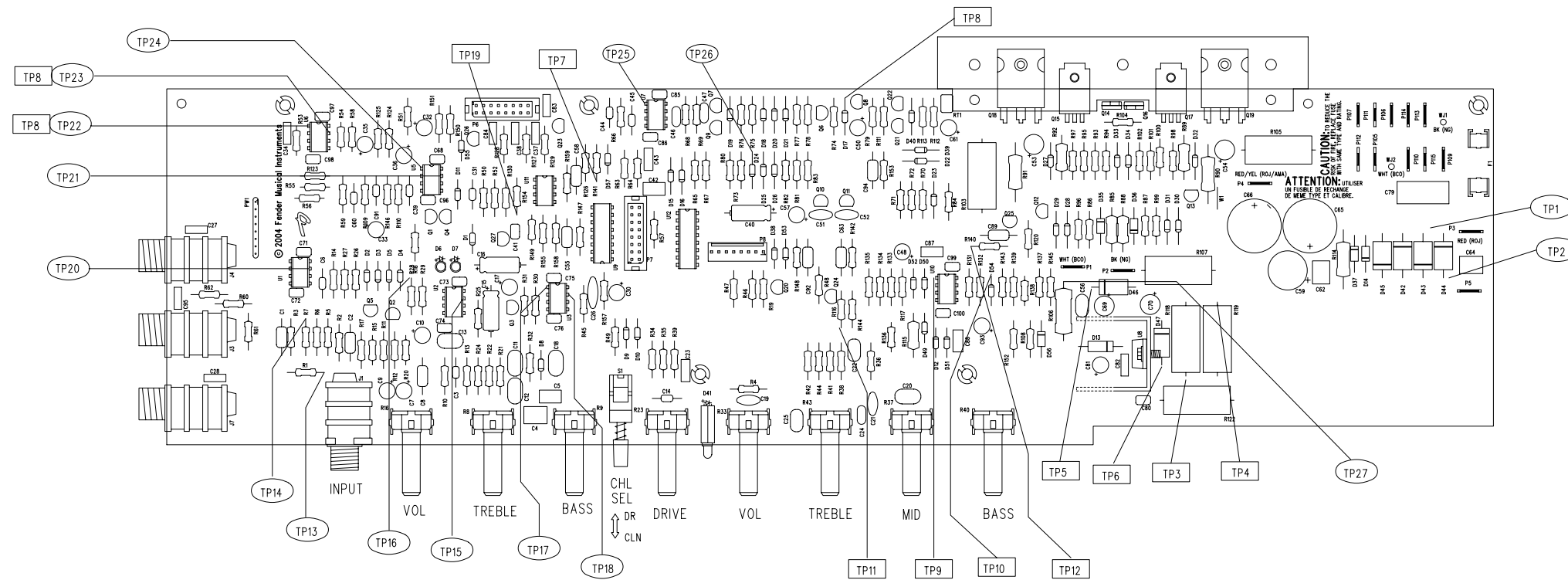
4

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1

| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PR574       | 16-MAR-04 | L E L    |
| B         | EC 3097     | 20-MAY-04 | L E L    |



FILM/DWG: SERVICE DIAGRAM  
 DATABASE: Z574P.PCB DATE: 20-MAY-04

|  |                   |  |                                   |
|--|-------------------|--|-----------------------------------|
| <small>THIS DOCUMENT CONTAINS INFORMATION OF A PROPRIETARY NATURE TO FENDER MUSICAL INSTRUMENTS AND IS SUBMITTED TO YOU IN CONFIDENCE AND SHALL NOT BE DISCLOSED OR TRANSMITTED TO OTHERS WITHOUT AUTHORIZATION FROM FENDER MUSICAL INSTRUMENTS.</small> |                   | <b>MUSICAL INSTRUMENTS</b><br>Corona, CA U.S.A.                          |                                   |
| CHECKED BY: _____<br>DATE: _____   |                   | TITLE: SERVICE DIAGRAM, COMBINED (PCB assy)<br>PRINCETON 650<br>MAIN PCB |                                   |
| APPROVED BY: _____<br>DATE: _____  |                   | SIZE: <b>D</b>   | DRAWING NUMBER: <b>0062129000</b> |
| DRAWN: P. CORBIN   | ENGR: L. LORENSEN | RELEASE DATE: 16-MAR-04  | SHEET 2 OF 2                      |
| DATABASE FILE: Z574P.PCB   |                   |  |                                   |

2. MICRO-DSP ASSEMBLY P/N 0057801008 MUST BE CONNECTED TO P6 FOR TEST.  
 1. SEE SHEET 1 FOR PRIMARY WIRING, TEST CONDITIONS AND TESTPOINT VALUES.  
 NOTES: (UNLESS OTHERWISE NOTED)

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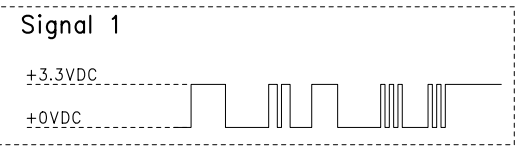
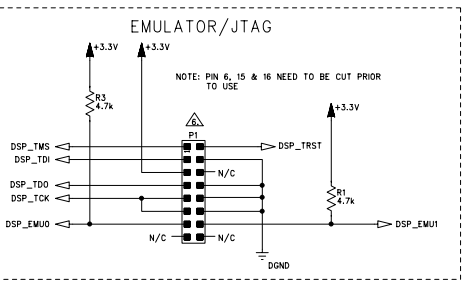
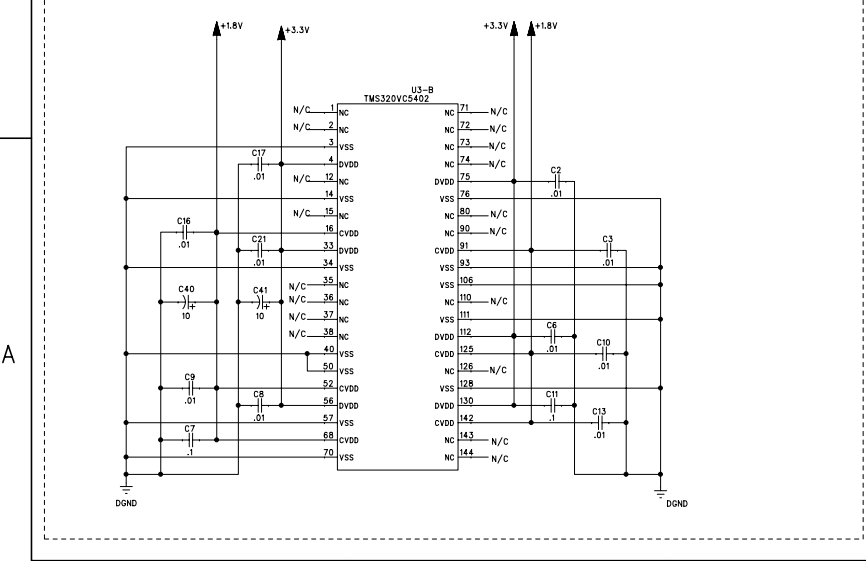
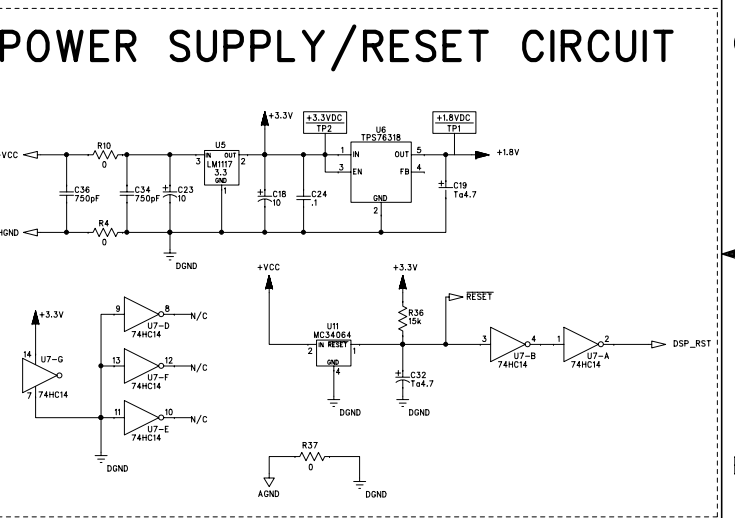
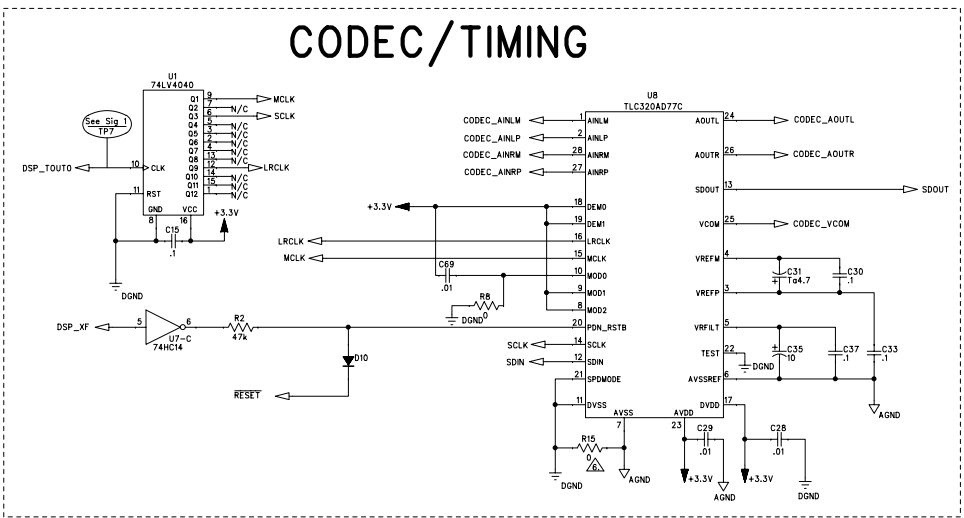
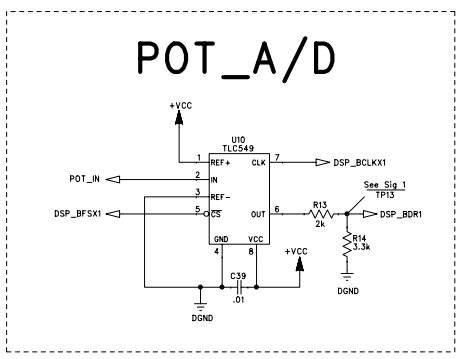
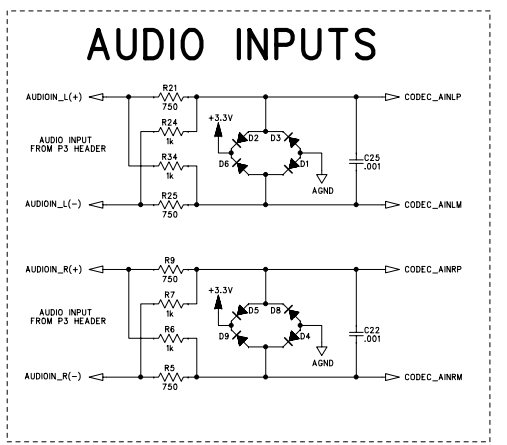
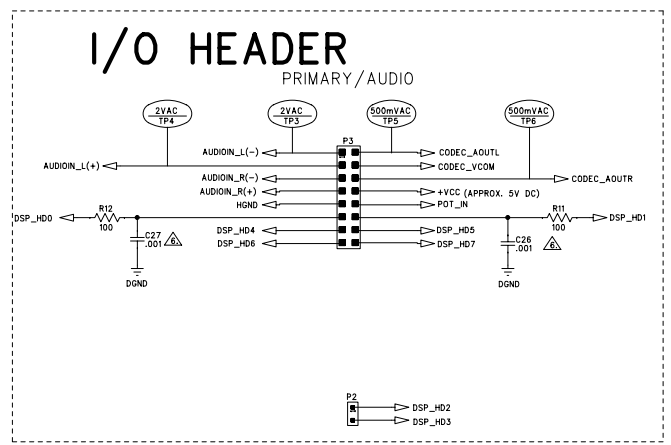
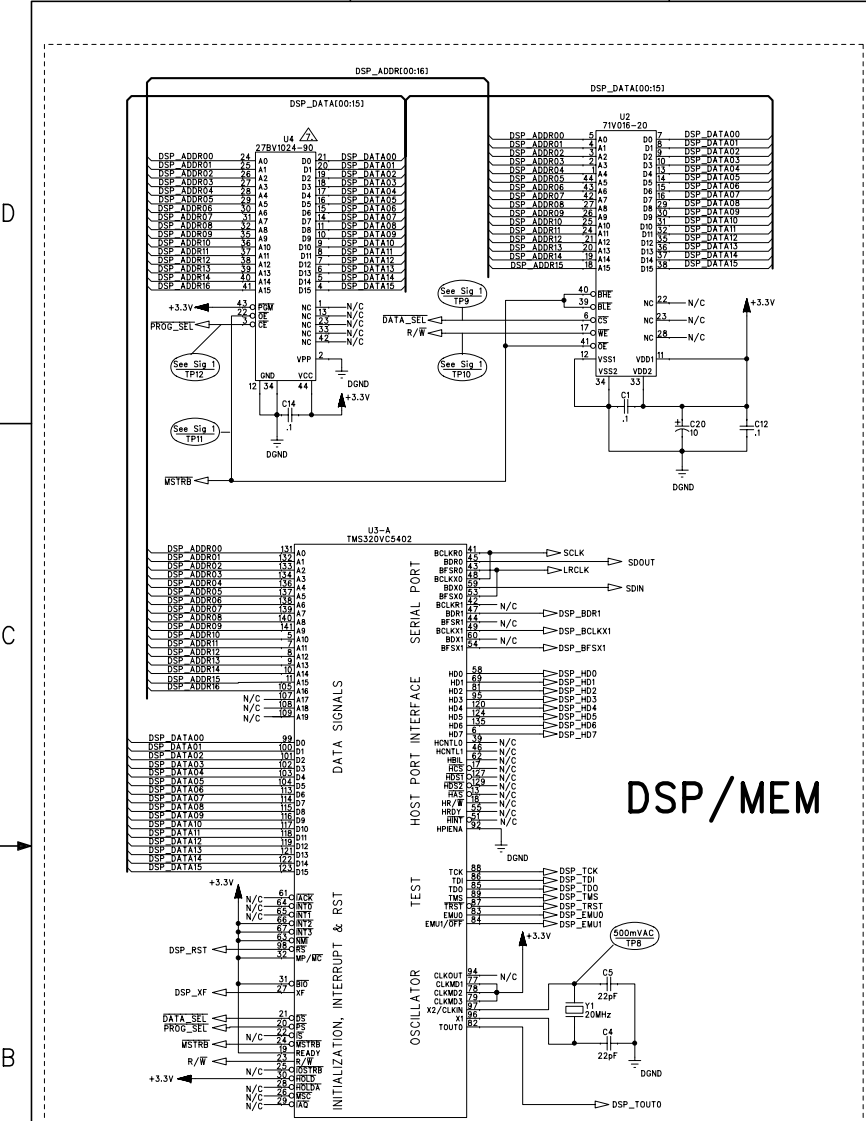
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| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PR480       | 29-NOV-01 | J T L    |
| B         | EC 2743     | 07-MAR-02 | J T L    |
| C         | EC 2789     | 10-JUN-02 | J C S    |
| D         | PR542       | 25-APR-03 | R J D    |



- NOTES: (UNLESS OTHERWISE NOTED)
- INSTALL IC IN SOCKET. FENDER P/N 0056585005
  - DO NOT STUFF C26-27, P1, R15.
  - THIS SCHEMATIC IS FOR PCB FABRICATION P/N 0057284000 AND PCB ASSEMBLY P/N 0057285000.
  - ALL DIODES ARE 1N4148.
  - ALL UNPOLARIZED CAPACITORS IN uF, 20% OR BETTER; 16V MINIMUM. (POWER SUPPLY BYPASS CAPACITORS ARE 20%).
  - ALL RESISTORS IN OHMS, 5% 1/10W.

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

CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DRAWN: J. Jimenez ENGR: J. Lamb  
 DATABASE FILE: Z4815.SCH

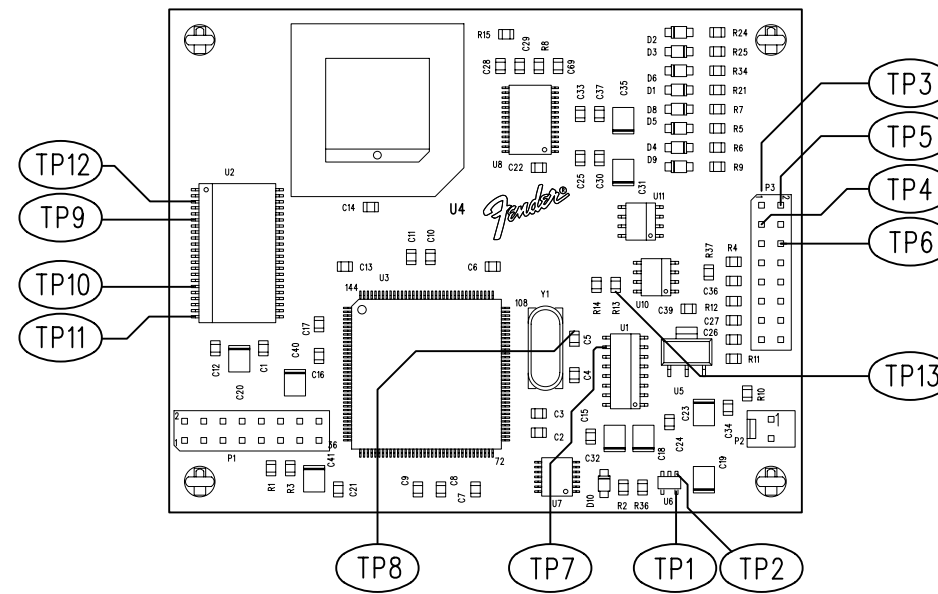
TITLE: SERVICE DIAGRAM, COMBINED (schematic) MICRO DSP

SIZE: **D** DRAWING NUMBER: **0057283000** REV. **D**

RELEASE DATE: 29-NOV-01 SHEET: 1 OF 2

REVISIONS


| REV. | DESCRIPTION | DATE      | APPROVED |
|------|-------------|-----------|----------|
| A    | PR480       | 30-NOV-01 | J T L    |
| B    | EC 2743     | 07-MAR-02 | J T L    |
| C    | EC 2789     | 10-JUN-02 | J C S    |
| D    | PR542       | 25-APR-03 | R J D    |



FILM/DWG: SERVICE DIAGRAM  
 DATABASE: Z481P.PCB DATE: 25-APR-03

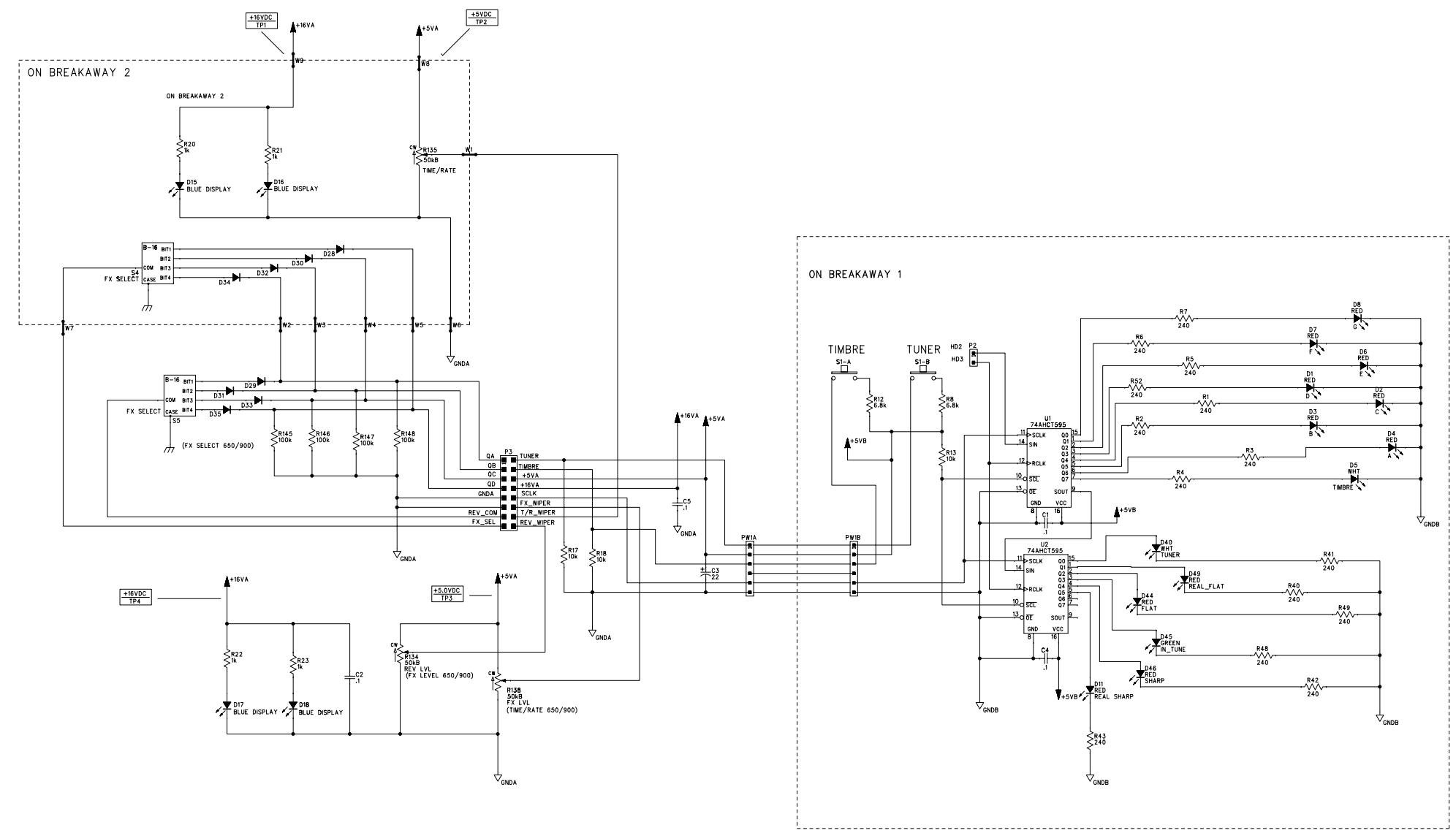
1. SEE SHEET 1 FOR TEST CONDITIONS AND TEST POINT VALUES.

NOTES: (UNLESS OTHERWISE NOTED)

|   |               |  |                              |
|---|---------------|--|------------------------------|
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| CHECKED BY: _____<br>DATE: _____  |               | TITLE: SERVICE DIAGRAM, COMBINED (PCB assy)<br>uDSP SERIES   |                              |
| APPROVED BY: _____<br>DATE: _____   |               | SIZE<br><b>B</b>   | DRAWING NUMBER<br>0057283000 |
| DRAWN: J. Jimenez   | ENGR: J. Lamb | REV.<br>D  |                              |
| DATABASE FILE: Z481P.PCB  |               | RELEASE DATE: 30-NOV-01  | SHEET 2 OF 2                 |

8 7 6 5 4 3 2 1

| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PR572       | 16-MAR-04 | LEL      |



- NOTES: (UNLESS OTHERWISE NOTED)
1. ALL RESISTORS IN OHMS, 5%; 1/4W.
  2. ALL UNPOLARIZED CAPACITORS IN uF, 10% OR BETTER; 50V MINIMUM. (POWER SUPPLY BYPASS CAPACITORS ARE 20%).
  3. ALL POLARIZED CAPACITORS IN uF, 20%; 50V MINIMUM.
  4. ALL DIODES ARE 1N4448.
  5. THIS SCHEMATIC IS FOR PCB FABRICATION P/N 0055367000 AND PCB ASSEMBLIES P/N 0055367000 and 0064106000.
  6. ITEMS ON BREAKAWAY 2 ARE NOT STUFFED FOR PRINCETON 650 AND DELUXE 900.
  7. ALL VOLTAGES ARE +/- 10%

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

CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

DRAWN: LORENZEN ENGR: LORENZEN  
DATABASE FILE: Z572P25.SCH

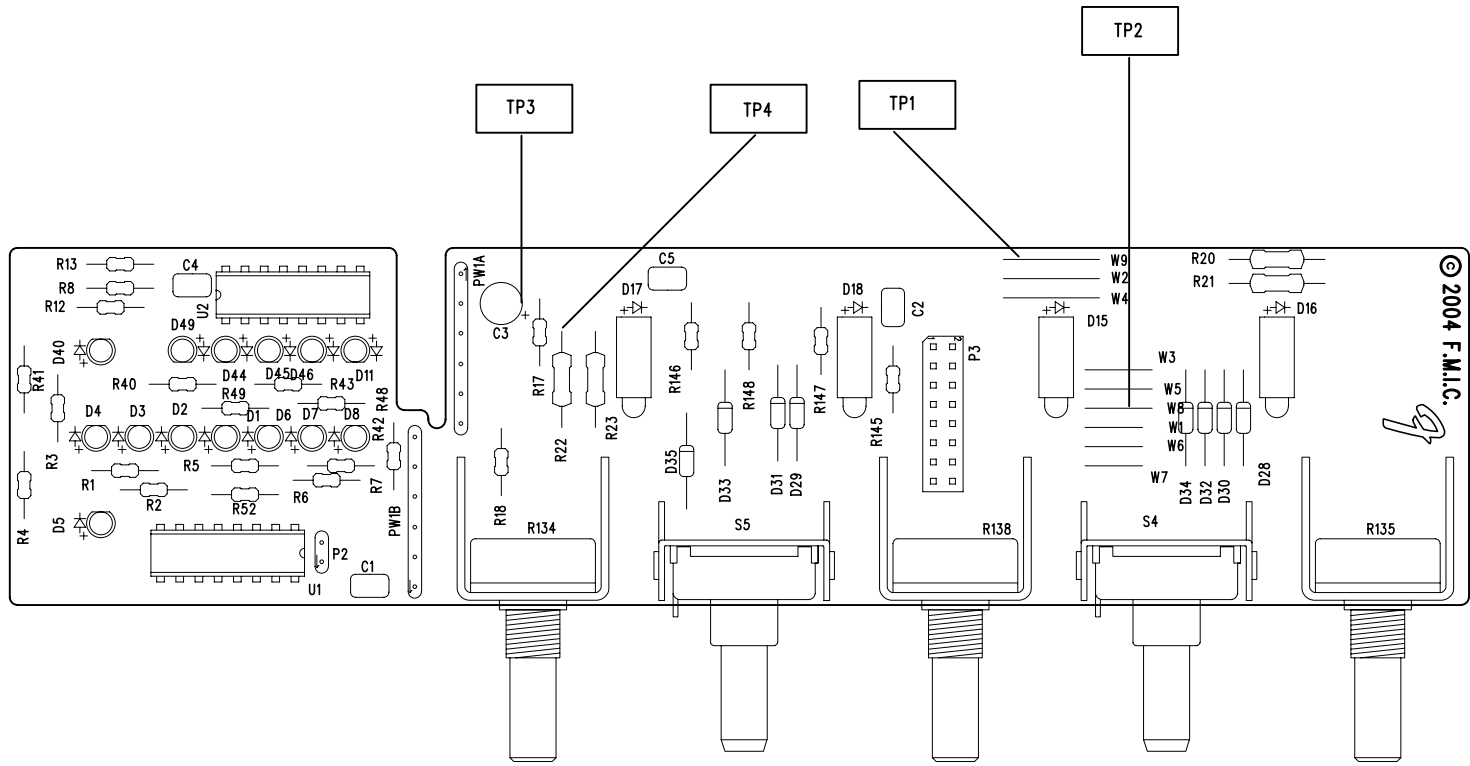
TITLE: SERVICE DIAGRAM, COMBINED (schematic)  
TUNER/TIMBRE DISPLAY PCB

SIZE: **D** DRAWING NUMBER: **0054426000** REV. **A**

RELEASE DATE: 16-MAR-03 SHEET: 1 OF 2


8 7 6 5 4 3 2 1

| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PR572       | 16-MAR-04 | L.E.L.   |



FILM/DWG: SERVICE DIAGRAM  
 DATABASE: Z572P2.PCB DATE: 16-MAR-04

NOTES: (UNLESS OTHERWISE NOTED)

|   |                           |   |                                     |
|---|---------------------------|---|-------------------------------------|
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| CHECKED BY: _____<br>DATE: _____  |                           | TITLE: SERVICE DIAGRAM, COMBINED (PCB assy)<br>TUNER/VOICE DISPLAY<br>PCB   |                                     |
| APPROVED BY: _____<br>DATE: _____   |                           | SIZE<br><b>B</b>  | DRAWING NUMBER<br><b>0054426000</b> |
| DRAWN: PCORBIN<br>ENGR: LORENZEN  | DATABASE FILE: Z572P2.PCB | RELEASE DATE: 16-MAR-04   | REV.<br><b>A</b><br>SHEET 2 OF 2    |