| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A | RELEASED PR186 | 08-MAR-91 | |
| | B | ECO L02271 | 08-JUL-91 | |
| | C | EC 784 | 11-SEP-91 | |
| | D | EC 1388 / ECO L02897 | 28-OCT-94 | MDW |
| | E | EC 1786 | 16-OCT-96 | MDW |

NORMAL

VIBRATO

Gitter V6A

Gitter V6B

PI Bias

Rs/R40 100R

250k

Rk 28k/1W

KT

SW1

640k

FOR OUTPUT TEST ONLY.

~12mv TP24

37mv TP1 1kHz SINE

1.6v TP3

3.1v TP6

4.2v TP15

2.8v TP5

+1.9 TP2

+2.8 TP12

+7.8 TP8

2.0v TP7

67v TP9

1.1v TP10

1.9mv TP11

110mv TP13

126mv TP14

47mv TP4

20v TP19

5.8Vpk-pk TP16

2.8Vpk-pk TP17

+99 TP18

19v TP20

+448 TP21

100v TP21

100v TP22

9.0v TP23

+442 TP27

+440 TP28

+428 TP29

+393 TP30

300Vpk-pk TP34

SEE WAVEFORM TP35

-.35V ON -8.5V OFF TP31

1.9V ON ~0.0V OFF TP32

13V ON ~0.0V OFF TP33

-50 TP26

-65 TP25

3000V

INTENSITY R64 50Kn 30C

OP1 037836

T2 037612

EXT. SPEAKER J6 J5

SPEAKER

(2) 037617 8Ω EACH.

TIP SLEEVE

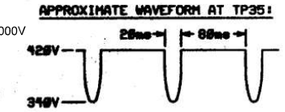
OUTPUT TEST:

85 WATTS MINIMUM RMS INTO A 4Ω RESISTIVE LOAD AT 5% THD WITH 1kHz INPUT INTO THE NORMAL CHANNEL AT TP24. ALL NORMAL CHANNEL CONTROLS FULL CW. ALL VIBRATO CHANNEL CONTROLS FULL CCW. REVERB AND VIBRATO OFF.

VIBRATO TEST:

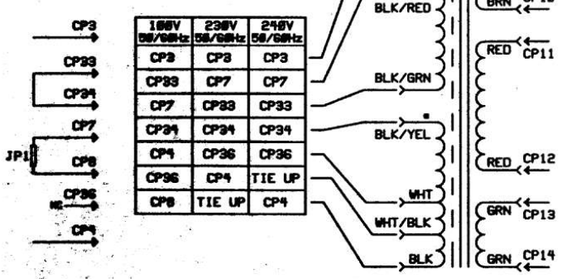
ALL VOLTAGES MEASURED WITH SPEED CONTROL AT MAX. (CW), AND NO SIGNAL PRESENT.

APPROXIMATE WAVEFORM AT TP35:




ALTERNATE EXPORT POWER TRANSFORMER P/N #49181

EXPORT TRANSFORMER WIRING DIAGRAM.




| 100V 50/60Hz | 230V 50/60Hz | 240V 50/60Hz |
|---|---|---|
| CP3 | CP3 | CP3 |
| CP33 | CP7 | CP7 |
| CP7 | CP33 | CP33 |
| CP34 | CP34 | CP34 |
| CP4 | CP36 | CP36 |
| CP36 | CP4 | TIE UP |
| CP8 | TIE UP | CP4 |

FOOTSWITCH ASSEMBLY P/N 037211

S6 REVERB

S7 VIBRATO

RING TIP SLEEVE

J7 GRAY WHITE

FOOT PEDAL

REVERB PAN P/N 064063

IN OUT

WHT RED

J8

T1 037099

RED GRN BLU BLK

CP28 CP29 CP30 CP31

V3 12AT7

HUM ADJ. R69 100Ω LIN

HUM ADJUSTMENT: ADJUST FOR MINIMUM HUM FROM SPEAKERS WITH AN OPEN PLUG IN J3, VIBRATO CH. VOLUME, MID, AND BASS CONTROLS FULL CW, NORMAL CH. CONTROLS FULL CCW, REVERB AND VIBRATO OFF.

TO FILAMENTS

TO FILAMENTS

B+GND

Z_GND

Y_GND

X_GND

TO CONTROL PCB GROUND

4 x IXYS FRED DSEI12-12A

CR1 CR2 CR3 CR4 (4) 800V 1A

C41 8200pF 1kV

C1 150nF 250V

TH1 NTC C68-11 5A

S3 STANDBY 100R

S2 GROUND

POWER S1A S1B

BLK GRN WHT

120VAC 60Hz

F1 4A SLO XF1

CP1 CP2 CP3 CP4 BLK WHT

T3 037610

BRN CP9 BRN CP10 RED CP11 RED CP12 GRN CP13 GRN CP14

CR5 1N4003

LA1 T47

CP8 JP1 CP7

NOTES:

1.) V1,2,4,5 ARE 12AX7A.

2.) RESISTORS ¼W CARBON FILM UNLESS OTHERWISE SPECIFIED.

3.) 6-DIGIT NUMBERS ARE FENDER PART NUMBERS.

4 FUSE 4A SLO-BLO IN 100V AND 120V MODELS, T2A IN 230V AND 240V MODELS.

5 S2 INSTALLED IN 120V UNITS ONLY.

6.) ALL VOLTAGES MEASURED WITH RESPECT TO GROUND USING A DVM OF AT LEAST 1MΩ AC INPUT IMPEDANCE AND 10MΩ DC IMPEDANCE. VOLTAGES MAY VARY ±20%. TEST CONDITIONS:
LINE VOLTAGE AT 120VAC 60Hz.
BRIGHT SWITCHES, REVERB, AND VIBRATO OFF.
ALL NORMAL CHANNEL CONTROLS AT FULL CCW.
ALL VIBRATO CHANNEL CONTROLS AT 50% ROTATION.
DC VOLTAGES MEASURED WITH NO SIGNAL PRESENT.

7 AC VOLTAGES AT TP16,17 MEASURED WITH AN OSCILLOSCOPE USING A X10 PROBE.

8 8200pF CAP INSTALLED IN 230V UNITS ONLY.

9.) INSTANCES NOT USED: C29 CP5 CP6 CP32 CP35

DATABASE FILE: Z1068.DBF
CHECKED BY: REPLOT
DATE: 05-MAY-01
APPROVED: MDW
DATE: 05-MAY-01
TOLERANCES: UNLESS OTHERWISE SPECIFIED
X.X ±0.050"
X.XX ±0.010"
X.XXX ±0.005"
ANGLES ±0.500°

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. CORPORATE HEADQUARTERS 8400 ROSEMEAD DRIVE CORONA, CA 91720 USA 800.46.FENDER

NEXT HIGHER ASSEMBLY: 65 TWIN REVERB GUITAR AMPLIFIER

Fender MUSICAL INSTRUMENTS
2621 Research Drive
Corona, CA 91720 USA

TITLE: SCHEMATIC
65 TWIN REVERB AMPLIFIER

SIZE D | DRAWN: WILKENS | DRAWING NUMBER 037627 | REV. E
CHKD: WILKENS
SCALE: NONE | CREATED: 16-OCT-96 | PLOTTED: 02-MAY-01 | SHEET 1 OF 1

PART NO. 0037633000 SHEET 1 OF 1