REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED PR325	13-MAY-96	MDW
	B	EC 1701	24-MAY-96	MDW

INPUTS J2 J1

4.0mV TP1 1kHz SINE

180mV TP2

+1.72V TP3

13.0mV TP4

252mV TP5

+1.72V TP6

850mV TP8

33.0mV TP7

+1.72V TP9

13.3V TP11

580mV TP10

+1.72V TP12

1.20V TP13

66mV TP14

66mV TP15

TP16-18 WITH CABLE FROM J3 TO J4:
TP16: 39.0mVAC
TP17: 1.20VAC
TP18: 1.14VAC

870mV TP19

11.6V TP20

43.0mV TP21

3.43V TP22

744mV TP23

11.5V TP24

+37.2V TP26

11.5V TP25

66.5V TP27

5.34V TP29

60mV TP30

66.5V TP28

FOOTSWITCH OPERATION:

TP31 (REF. PIN, CHANNEL SELECT):
+1.37V NORMAL MODE.
+1.07V DRIVE MODE ("YELLOW").
+1.07V MORE DRIVE MODE ("RED").

TP32 (INPUT PIN, CHANNEL SELECT):
WITH FOOTSWITCH--
+.527V WITH CHANNEL SELECT OFF.
+2.53V WITH CHANNEL SELECT ON.
WITH FRONT PANEL SWITCHES--
+.540V WITH CH. SEL. OUT.
+9.76V WITH CH. SEL. IN.

TP33 (OUTPUT PIN, CHANNEL SELECT):
+16V NORMAL MODE.
-13.5V DRIVE MODE ("YELLOW").
-13.9V MORE DRIVE MODE ("RED").

TP34 (REF. PIN, DRIVE/MORE DRIVE):
-13.0V NORMAL MODE.
-5.46V DRIVE MODE ("YELLOW").
-4.36V MORE DRIVE MODE ("RED").

TP35 (INPUT PIN, DRIVE/MORE DRIVE):
WITH FOOTSWITCH--
-3.33V WITH DRIVE SELECTED ("YELLOW").
-6.54V WITH MORE DRIVE SELECTED ("RED").
WITH FRONT PANEL SWITCHES--
-.54V WITH MORE DRIVE OUT.
-10.0V WITH MORE DRIVE IN.

TP36 (OUPUT PIN, DRIVE/MORE DRIVE):
-16V NORMAL MODE.
-16V DRIVE MODE ("YELLOW").
+16V MORE DRIVE MODE ("RED").

NOTE:
THE FOOTSWITCH OVERRIDES
THE FRONT PANEL SWITCHES.

EXPORT TRANSFORMER WIRING DIAGRAM.

100V 50/60Hz	230V 50/60Hz	240V 50/60Hz
CP3	CP3	CP3
CP5	CP5	CP5
CP7	CP7	CP7
CP6	CP8	CP8
CP4	CP9	CP9
CP9	CP4	CP10
CP8	CP10	CP4

EXPORT POWER TRANSFORMER P/N 041753

NOTES: (UNLESS SPECIFIED OTHERWISE)
1.) LAST INSTANCES: C55 CP20 CR28 F1 J7 K2 L1 LA1 LD1 Q4 R105 S5 T2 TH1 U3 V5
2.) SIX DIGIT NUMBERS ARE FENDER PART NUMBERS.
3.) ALL RESISTORS 1/4W 5% CARBON FILM.
4.) ALL VOLTAGES MEASURED WITH RESPECT TO GROUND USING A TRUE RMS DVM OF 1Mn AC INPUT IMPEDANCE AND OF 10Mn DC INPUT IMPEDANCE. VOLTAGES MAY VARY ±20%. TEST CONDITIONS:
LINE VOLTAGE 120VAC 60Hz.
ALL DC AND SUPPLY MEASUREMENTS MADE WITH NO INPUT SIGNAL.
REVERB CONTROL AT FULL CCW.
ALL OTHER CONTROLS AT 50% ROTATION.
NORMAL BRIGHT SWITCH OUT.
DRIVE ("YELLOW") MODE SELECTED.
BIAS SET TO 30mA PER OUTPUT TUBE. SEE NOTE 5.
5.) BIAS ADJUSTMENT - NO SIGNAL APPLIED, RATED LINE VOLTAGE AT T2 POWER TRANSFORMER PRIMARY:
SET BIAS ADJUST POT R82 TO OBTAIN A READING OF +60mV AT TP30. VOLTAGE SHOWN AT BIAS POT WIPER IS FOR REFERENCE ONLY.
6.) READINGS OBSERVED AT TP21 AND TP22 WILL VARY GREATLY DEPENDING ON INDIVIDUAL REVERB PAN RESPONSE. THE VOLTAGE GAIN AT U2B SHOULD BE 82.
7.) COLORS IN PARENTHESES ARE FOR 230V AND 240V UNITS.
8.) "MORE DRIVE" ADDS 12.7dB OF GAIN TO THE "DRIVE MODE".
9.) INSTANCES NOT USED:
C32 C34 C37 CP17 CP21 CR10 R71-73 R83

DATABASE FILE:	Z325S.DBF
CHECKED BY:	JLA
DATE:	08-MAY-96
APPROVED:	MDW
DATE:	13-MAY-96

TOLERANCES: (UNLESS OTHERWISE NOTED)
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.
MUSICAL INSTRUMENTS
2621 RESEARCH DRIVE
CORONA, CA 91720 USA
IT IS TIME...

NEXT HIGHER ASSEMBLY: 050400 PCB ASSY HOT ROD DELUXE

Fender MUSICAL INSTRUMENTS
2621 Research Drive
Corona, CA 91720 USA

TITLE: SCHEMATIC DIAGRAM
HOT ROD DELUXE

SIZE	DRAWN: M.WILKENS	DRAWING NUMBER	REV.
D	ENGR: M.WILKENS	050397	B
SCALE: NONE	CREATED: 11-AUG-95 PLOTTED: 12-JUN-96	SHEET 1 OF 1	

PART NO. 050397000 SHEET 1 OF 1