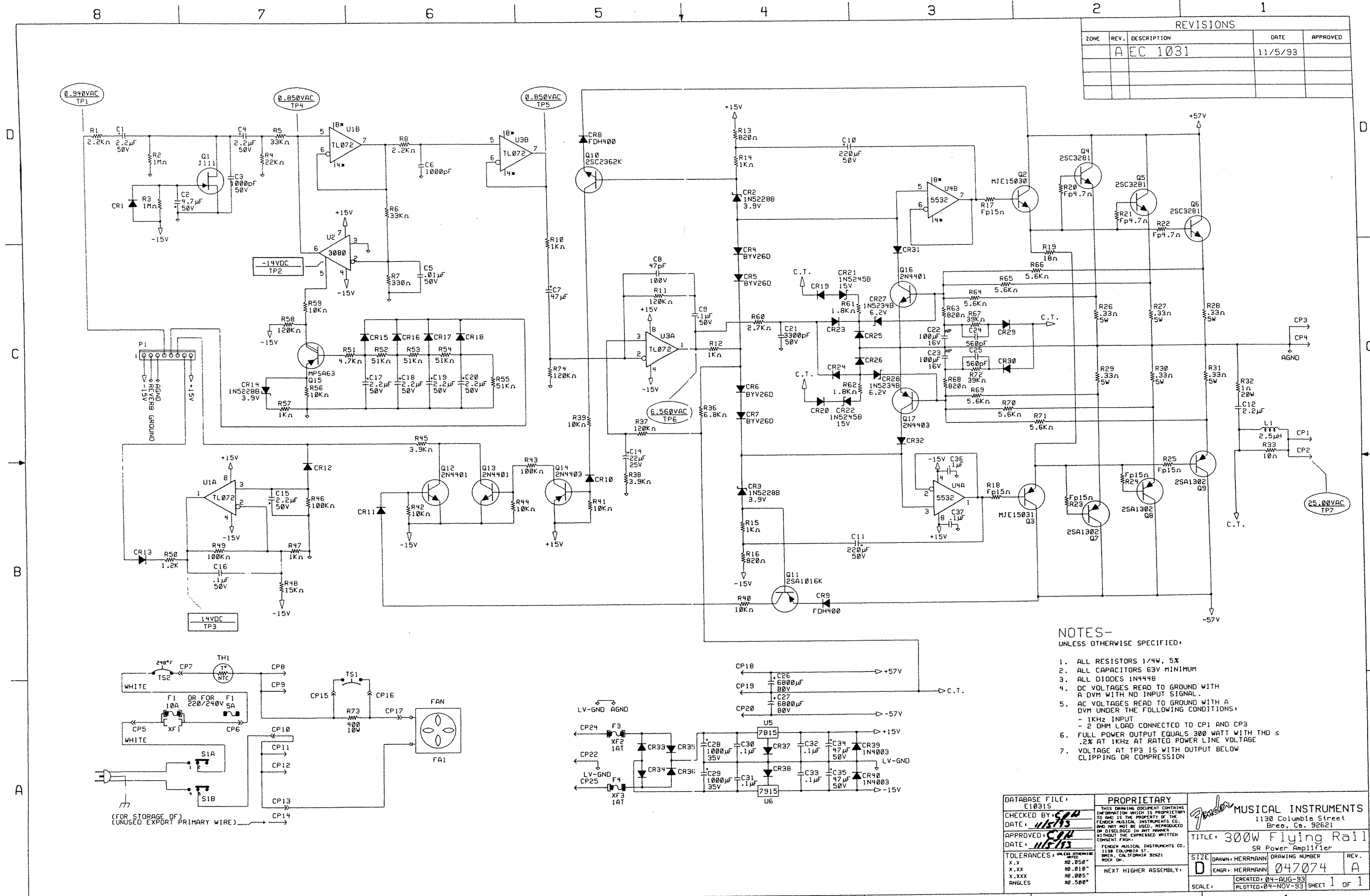


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		AEC 1031	11/5/93	



NOTES -
UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTORS 1/4W, 5%
2. ALL CAPACITORS 63V MINIMUM
3. ALL DIODES 1N4448
4. DC VOLTAGES READ TO GROUND WITH A DVM WITH NO INPUT SIGNAL.
5. AC VOLTAGES READ TO GROUND WITH A DVM UNDER THE FOLLOWING CONDITIONS:
- 1KHz INPUT
- 2 OHM LOAD CONNECTED TO CP1 AND CP3
6. FULL POWER OUTPUT EQUALS 300 WATT WITH THD ≤ .2% AT 1KHz AT RATED POWER LINE VOLTAGE
7. VOLTAGE AT TP3 IS WITH OUTPUT BELOW CLIPPING OR COMPRESSION

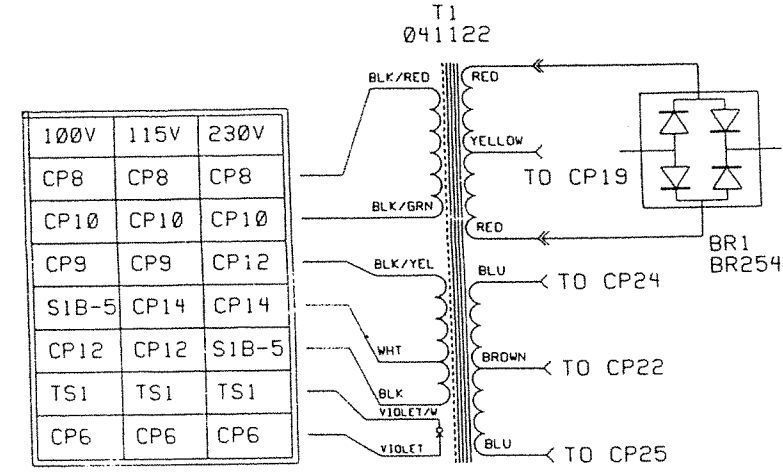
DATABASE FILE: E1031S CHECKED BY: DATE: 11/5/93 APPROVED: DATE: 11/5/93 TOLERANCES: UNLESS OTHERWISE SPECIFIED: X.X .050" X.XX .010" X.XXX .005" ANGLES .0500"	PROPRIETARY THIS DRAWING DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND IS THE PROPERTY OF THE FENDER MUSICAL INSTRUMENTS CO. AND MAY NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT FROM: FENDER MUSICAL INSTRUMENTS CO. 1138 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK ON. NEXT HIGHER ASSEMBLY:	Fender MUSICAL INSTRUMENTS 1138 Columbia Street Brea, Co. 92621 TITLE: 300W Flying Rail SR Power Amplifier SIZE: DRAWN: HERRMANN ENGR: HERRMANN DRAWING NUMBER: 047074 REV: A CREATED: 04-AUG-93 PLOTTED: 04-NOV-93 SHEET 1 OF 1
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0047075000

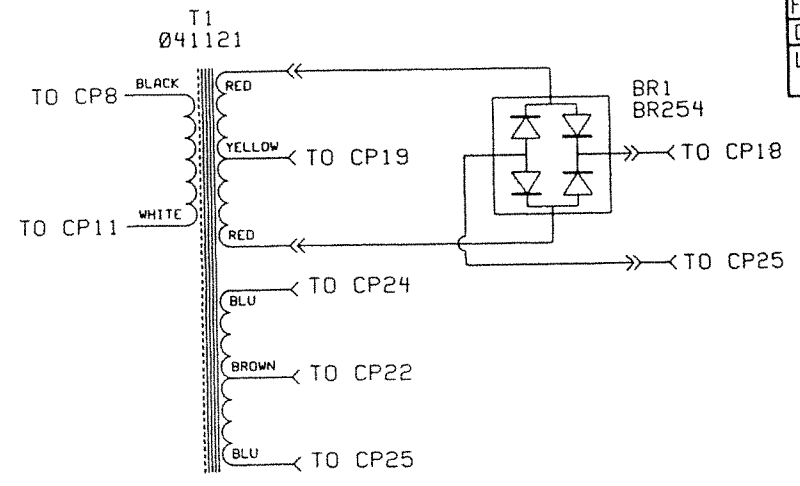
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	EC 1031	11/5/93	

- ASSEMBLY NOTES-
- C13, R34, AND R35 ARE NOT USED IN THIS VERSION.
 - WIRE SETS: ON EXPORT UNITS, WIRES FROM TS1 ARE REPLACED BY A SINGLE WIRE BETWEEN ONE TERMINAL OF TS1 AND CP7. CONNECTION OF THE REMAINING TERMINAL OF TS1 AND CP6 IS ACCOMPLISHED WITH THE VIOLET AND VIOLET/WHITE LEADS INCLUDED ON EXPORT TRANSFORMER 041122.

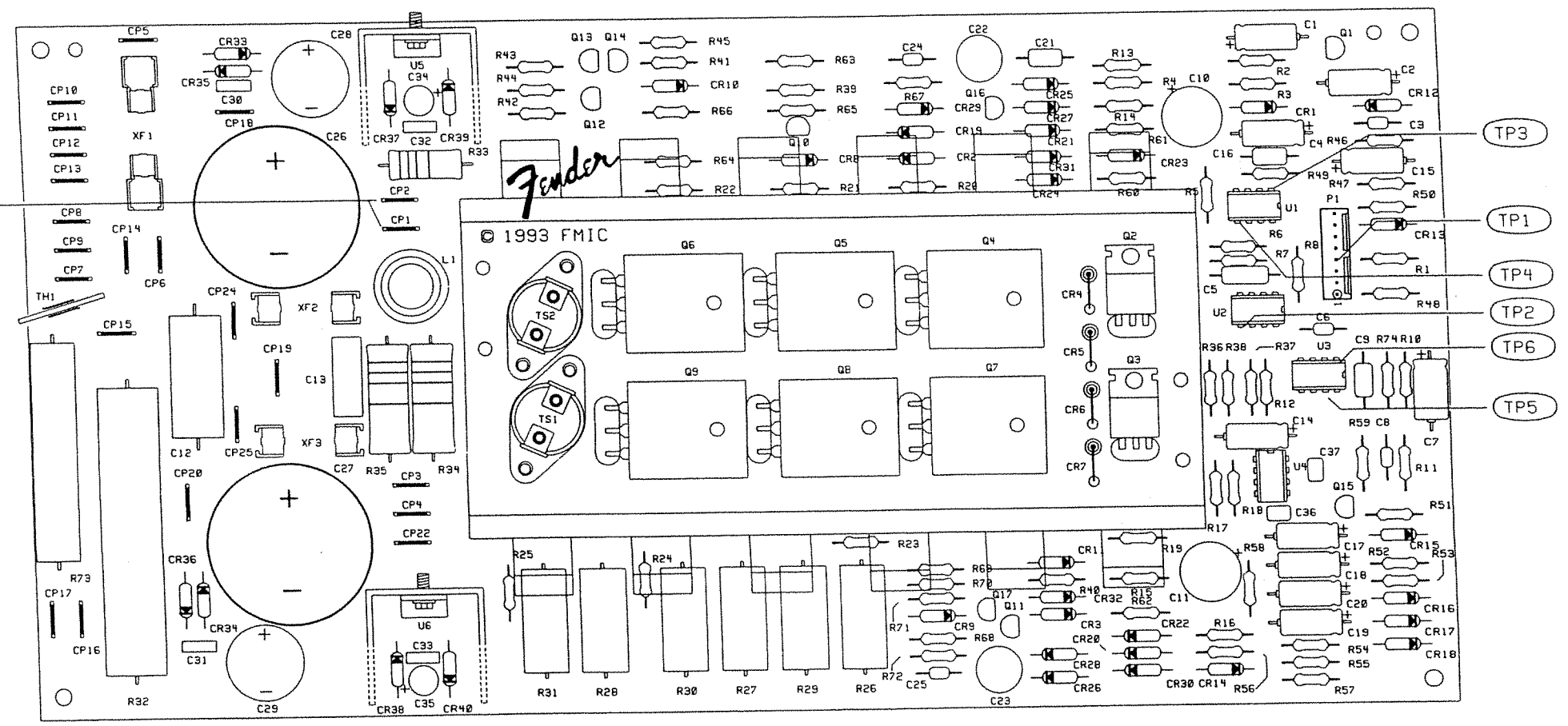
ALTERNATE EXPORT POWER TRANSFORMER.



NOTE: FOR ALL 120 VOLT UNITS, CP11 IS CONNECTED TO S1B-5, USING BLACK WIRE SUPPLIED IN THESE VERSIONS. ON EXPORT UNITS, TRANSFORMER VIOLET IS CONNECTED TO CP6, AND VIOLET/WHITE IS CONNECTED TO TS1, AND ELIMINATES THE WHITE WIRE USED IN DOMESTIC UNITS.

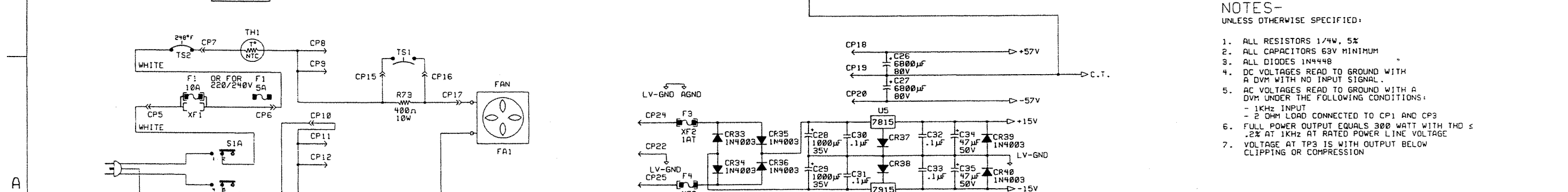
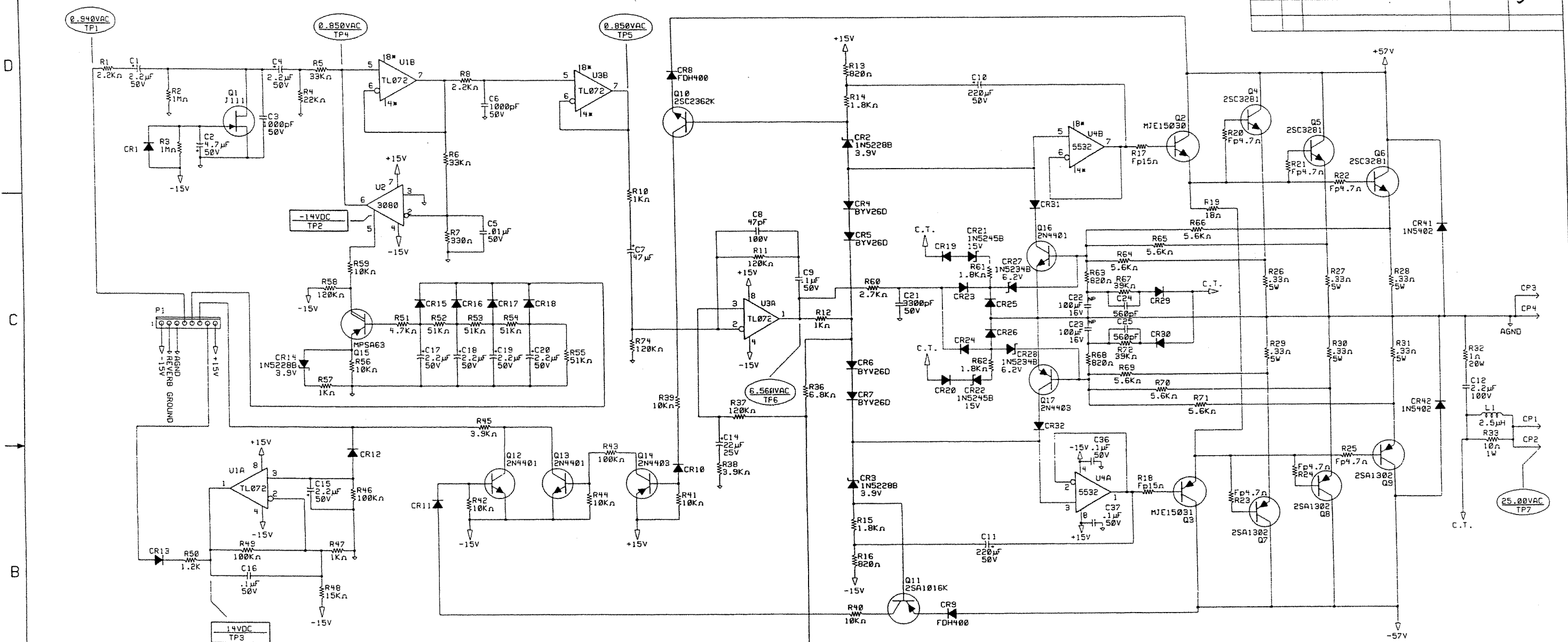


FILM/DWG: SERVICE DIAGRAM
 DATABASE: E1031P DATE: 04-NOV-93
 LAYERS PLOTTED: 1 2 3 4 10 18



DATABASE FILE: E1031P CHECKED BY: DATE: APPROVED: DATE: TOLERANCES: UNLESS OTHERWISE NOTED X.X .050" X.XX .010" 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 EXPRESS WRITTEN CONSENT FROM: FENDER MUSICAL INSTRUMENTS CO. 1120 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK, OH. NEXT HIGHER ASSEMBLY:	Fender MUSICAL INSTRUMENTS 1130 Columbia Street Brea, CA 92621 TITLE: SERVICE DIAGRAM, SR POWER AMP SIZE: B DRAWN: HERRMANN ENGR: HERRMANN DRAWING NUMBER: 047076 REV: A CREATED: 04-AUG-93 PLOTTED: 04-NOV-93 SHEET 1 OF 1
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	EC 1031	11/5/93	
	B	EC 1132	3/10/94	EDH



- NOTES-
- UNLESS OTHERWISE SPECIFIED:
1. ALL RESISTORS 1/4W, 5%
 2. ALL CAPACITORS 63V MINIMUM
 3. ALL DIODES 1N4448
 4. DC VOLTAGES READ TO GROUND WITH A DVM WITH NO INPUT SIGNAL.
 5. AC VOLTAGES READ TO GROUND WITH A DVM UNDER THE FOLLOWING CONDITIONS:
 - 1KHz INPUT
 - 2 OHM LOAD CONNECTED TO CP1 AND CP3
 6. FULL POWER OUTPUT EQUALS 300 WATT WITH THD ≤ .2% AT 1KHz AT RATED POWER LINE VOLTAGE
 7. VOLTAGE AT TP3 IS WITH OUTPUT BELOW CLIPPING OR COMPRESSION

DATABASE FILE: E132P CHECKED BY: MAH DATE: 3-14-94 APPROVED: EDH DATE: 3-14-94	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. 1130 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK ON. NEXT HIGHER ASSEMBLY:	Fender MUSICAL INSTRUMENTS 1130 Columbia Street Brea, Ca. 92621 TITLE: SCHEMATIC DIAGRAM 300W G.E. POWER AMP SIZE: DRAWN: HERRMANN ENGR: HERRMANN DRAWING NUMBER: 047074 REV: B CREATED: 04-AUG-93 PLOTTED: 10-MAR-94 SHEET 1 OF 1
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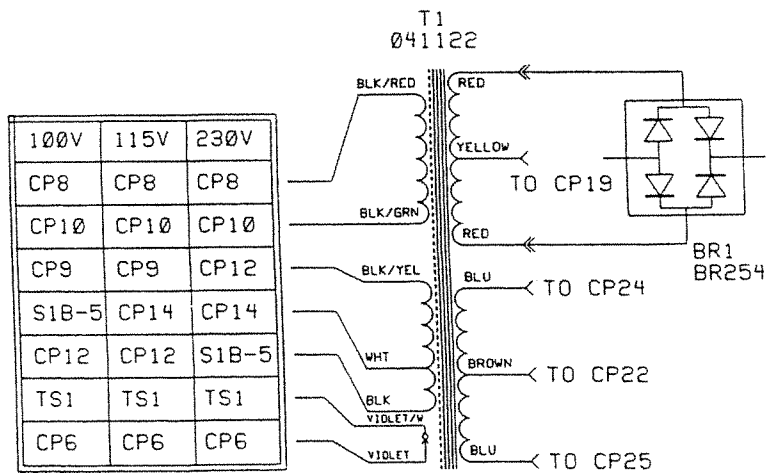
0047075000

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	EC 1031	11/5/93	
	B	EC 1132	3-14-94	<i>[Signature]</i>

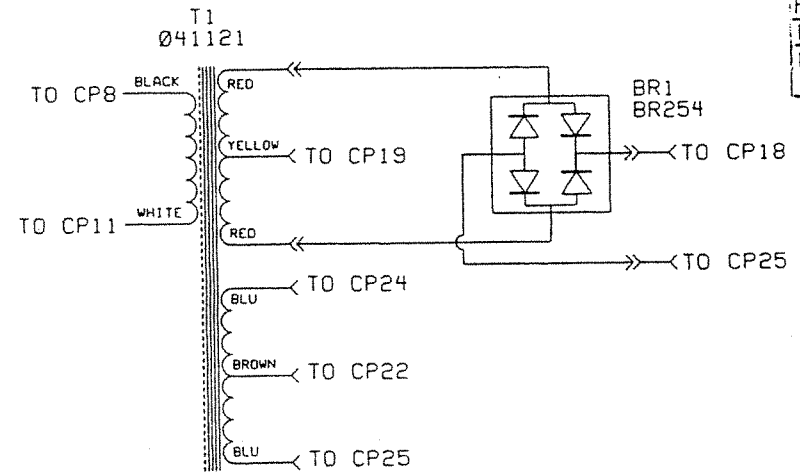
ASSEMBLY NOTES-

1. WIRE SETS: ON EXPORT UNITS, WIRES FROM TS1 ARE REPLACED BY A SINGLE WIRE BETWEEN ONE TERMINAL OF TS1 AND CP7. CONNECTION OF THE REMAINING TERMINAL OF TS1 AND CP6 IS ACCOMPLISHED WITH THE VIOLET AND VIOLET/WHITE LEADS INCLUDED ON EXPORT TRANSFORMER Ø41122.

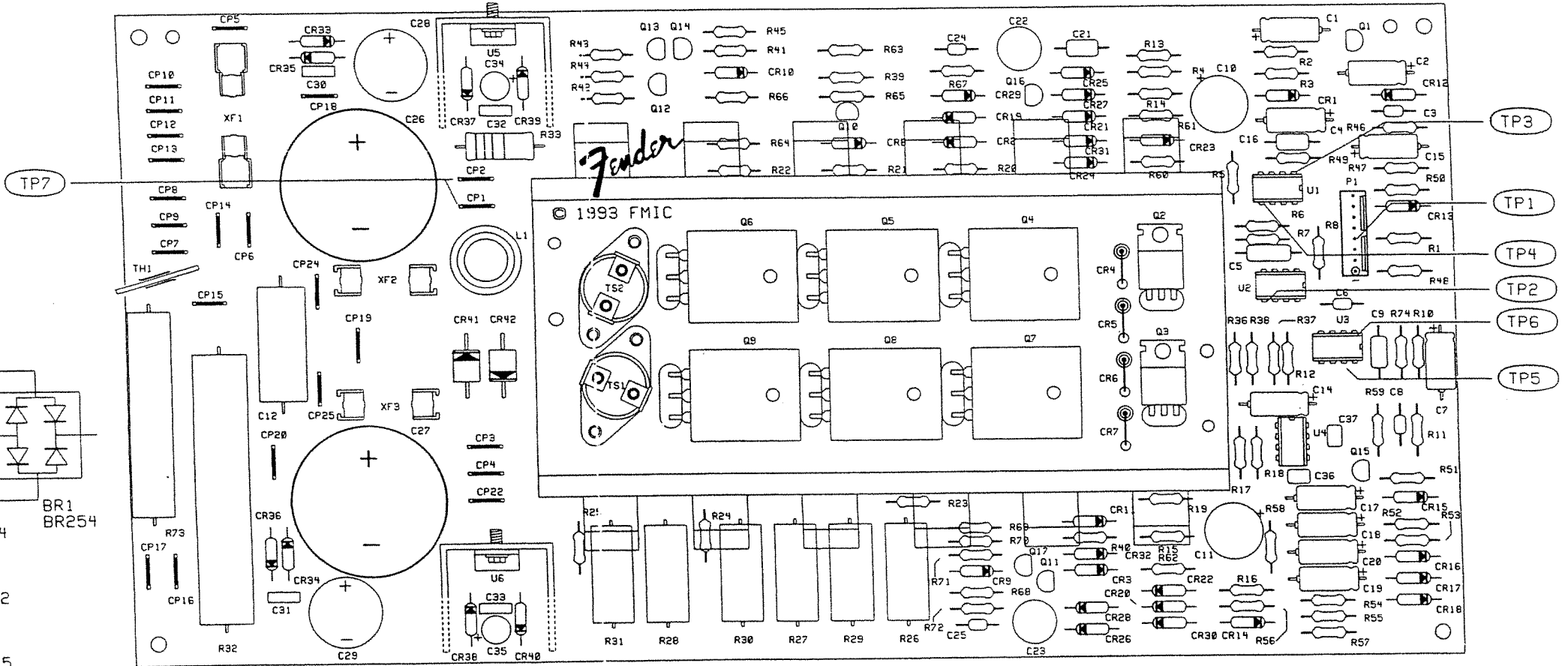
ALTERNATE EXPORT POWER TRANSFORMER.



NOTE: FOR ALL 120 VOLT UNITS, CP11 IS CONNECTED TO S1B-5, USING BLACK WIRE SUPPLIED IN THESE VERSIONS. ON EXPORT UNITS, TRANSFORMER VIOLET IS CONNECTED TO CP6, AND VIOLET/WHITE IS CONNECTED TO TS1, AND ELIMINATES THE WHITE WIRE USED IN DOMESTIC UNITS.

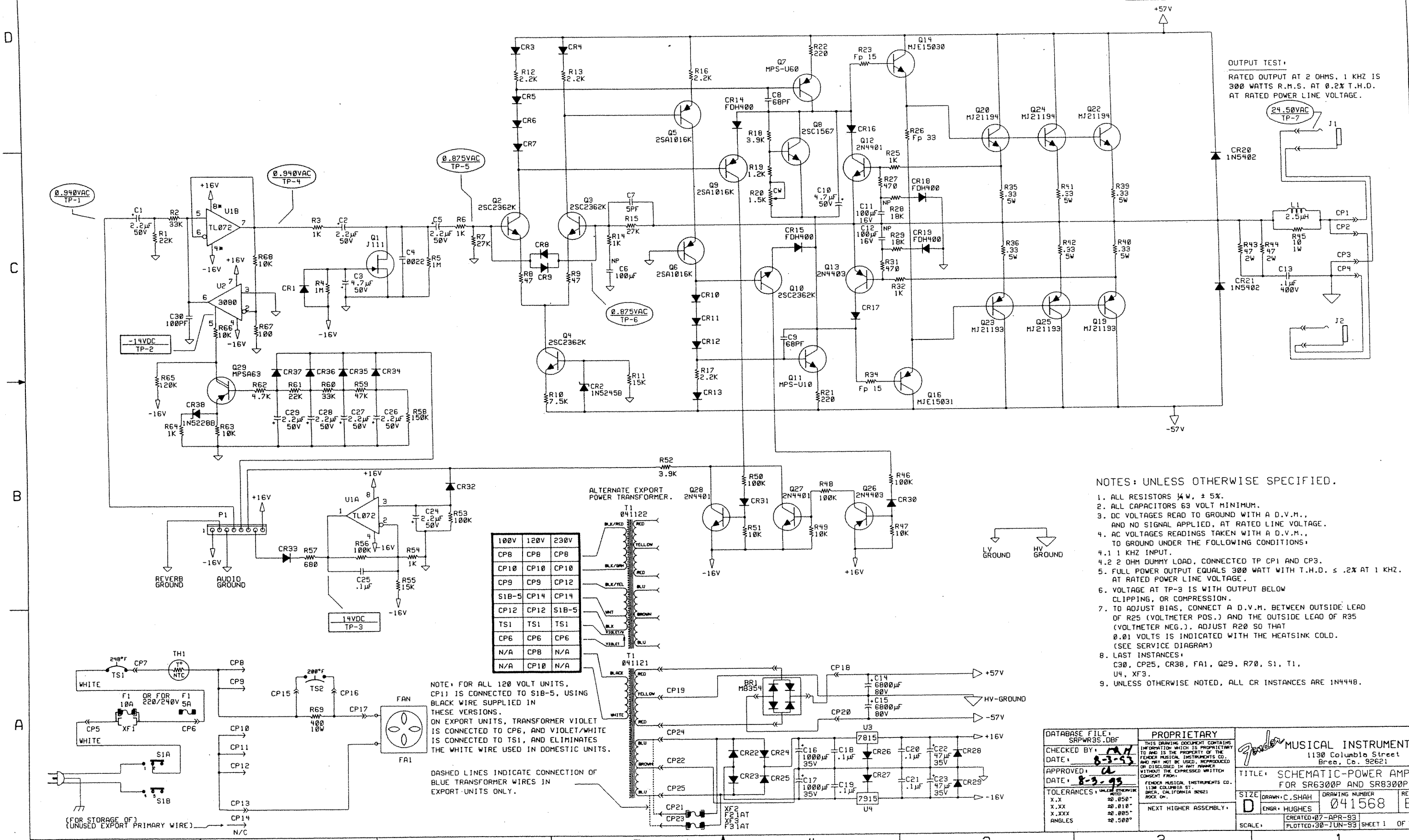


FILM/DWG: SERVICE DIAGRAM
 DATABASE: E1132P DATE: 10-MAR-94
 LAYERS PLOTTED: 1 2 3 4 10 18



DATABASE FILE: E1132P CHECKED BY: [Signature] DATE: 3-14-94 APPROVED: [Signature] DATE: 3-14-94 TOLERANCES: UNLESS OTHERWISE NOTED X.X ±0.050" X.XX ±0.018" X.XXX ±0.005" ANGLES ±0.500°	PROPRIETARY <small>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:</small> FENDER MUSICAL INSTRUMENTS CO. 1130 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK ON. NEXT HIGHER ASSEMBLY: SR6300	FENDER MUSICAL INSTRUMENTS 1130 Columbia Street Brea, CA 92621 TITLE: SERVICE DIAGRAM, 300W G.E. POWER AMP SIZE: DRAWN/HERRMANN B ENGR. HERRMANN DRAWING NUMBER: Ø47076 REV. B CREATED: 04-AUG-93 PLOTTED: 10-MAR-94 SHEET 1 OF 1
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	PR240	04-08-93	
	B	EC 1018	06-30-93	<i>CS</i>



OUTPUT TEST:
 RATED OUTPUT AT 2 OHMS, 1 KHZ IS
 300 WATTS R.M.S. AT 0.2% T.H.D.
 AT RATED POWER LINE VOLTAGE.

- NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTORS 1/4W, ± 5%.
 2. ALL CAPACITORS 63 VOLT MINIMUM.
 3. DC VOLTAGES READ TO GROUND WITH A D.V.M., AND NO SIGNAL APPLIED, AT RATED LINE VOLTAGE.
 4. AC VOLTAGES READINGS TAKEN WITH A D.V.M., TO GROUND UNDER THE FOLLOWING CONDITIONS:
 - 4.1 1 KHZ INPUT.
 - 4.2 2 OHM DUMMY LOAD, CONNECTED TP CP1 AND CP3.
 5. FULL POWER OUTPUT EQUALS 300 WATT WITH T.H.D. ≤ .2% AT 1 KHZ. AT RATED POWER LINE VOLTAGE.
 6. VOLTAGE AT TP-3 IS WITH OUTPUT BELOW CLIPPING, OR COMPRESSION.
 7. TO ADJUST BIAS, CONNECT A D.V.M. BETWEEN OUTSIDE LEAD OF R25 (VOLTMETER POS.) AND THE OUTSIDE LEAD OF R35 (VOLTMETER NEG.). ADJUST R20 SO THAT 0.01 VOLTS IS INDICATED WITH THE HEATSINK COLD. (SEE SERVICE DIAGRAM)
 8. LAST INSTANCES: C30, CP25, CR38, FA1, Q29, R70, S1, T1, U4, XF3.
 9. UNLESS OTHERWISE NOTED, ALL CR INSTANCES ARE 1N4448.

100V	120V	230V
CP8	CP8	CP8
CP10	CP10	CP10
CP9	CP9	CP12
S1B-5	CP14	CP14
CP12	CP12	S1B-5
TS1	TS1	TS1
CP6	CP6	CP6
N/A	CP8	N/A
N/A	CP10	N/A

NOTE: FOR ALL 120 VOLT UNITS, CP11 IS CONNECTED TO S1B-5, USING BLACK WIRE SUPPLIED IN THESE VERSIONS.
 ON EXPORT UNITS, TRANSFORMER VIOLET IS CONNECTED TO CP6, AND VIOLET/WHITE IS CONNECTED TO TS1, AND ELIMINATES THE WHITE WIRE USED IN DOMESTIC UNITS.

DASHED LINES INDICATE CONNECTION OF BLUE TRANSFORMER WIRES IN EXPORT UNITS ONLY.

DATABASE FILE: SRPWRS.DBF CHECKED BY: DATE: APPROVED: DATE: 8-3-93 TOLERANCES: UNLESS OTHERWISE NOTED: .X.X .050" .X.XX .010" .X.XXX .005" ANGLES .005"	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. 1130 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK, CA	FENDER MUSICAL INSTRUMENTS 1130 Columbia Street Brea, Co. 92621 TITLE: SCHEMATIC-POWER AMP FOR SR6300P AND SR8300P SIZE: D DRAWN: C. SHAH ENGR: HUGHES DRAWING NUMBER: 041568 REV: B CREATED: 07-APR-93 PLOTTED: 30-JUN-93 SHEET 1 OF 1
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8

7

6

5

4

3

2

1

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	PR240	04-08-93	<i>ca</i>

THESE 2 WIRES ARE ATTACHED ON SOLDER SIDE OF THE P.C.B.
 YELLOW (2)
 GREEN (2)

BIAS TEST POINTS
 (SEE SCHEMATIC)

ASSEMBLY NOTES:

- ASSUME ALL "CP" AND "XF" INSTANCES ARE INSTALLED WITH THE FOLLOWING EXCEPTIONS:
 - ON EXPORT UNITS, DELETE CP24 AND CP25.
 - ON DOMESTIC UNITS, DELETE CP9, CP12, CP14, CP21, CP23, XF2, AND XF3.
 - INSTANCE JP2 HAS BEEN DELETED.
- WIRE SETS:

ON EXPORT UNITS, WIRES FROM TS-1 ARE REPLACED BY A SINGLE WIRE BETWEEN ONE TERMINAL OF TS1 AND CP7. CONNECTION OF THE REMAINING TERMINAL OF TS1 AND CP6 IS ACCOMPLISHED WITH THE VIOLET AND VIOLET/WHITE LEADS INCLUDED ON EXPORT TRANSFORMER 041122. LETTERS IN "QUOTES" INDICATE DETAIL ON WIRE SET DRAWING.

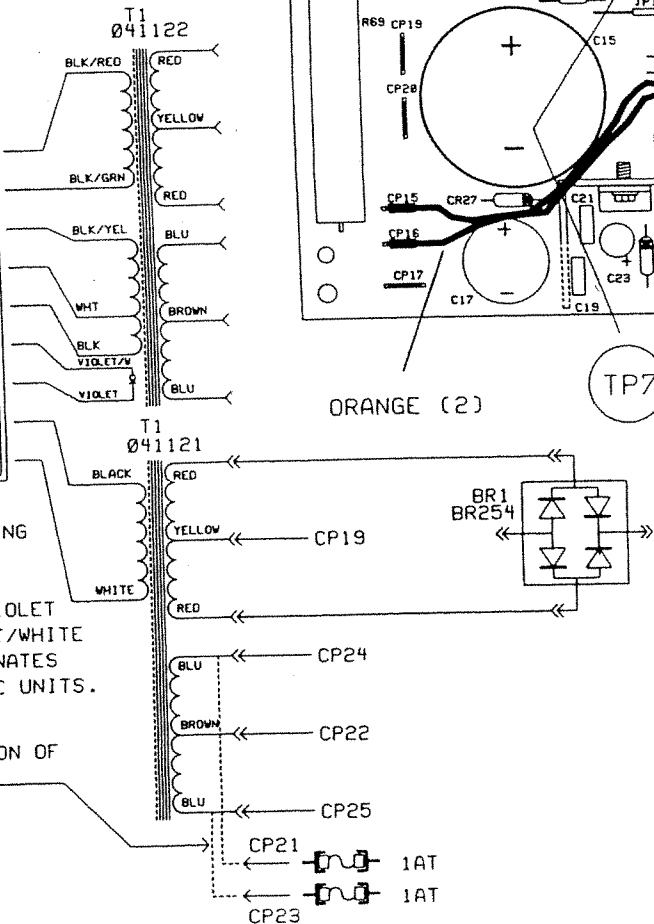
ALTERNATE EXPORT POWER TRANSFORMER.

100V	120V	230V
CP8	CP8	CP8
CP10	CP10	CP10
CP9	CP9	CP12
S1B-5	CP14	CP14
CP12	CP12	S1B-5
TS1	TS1	TS1
CP6	CP6	CP6
N/A	CP8	N/A
N/A	CP10	N/A

NOTE: FOR ALL 120 VOLT UNITS, CP11 IS CONNECTED TO S1B-5, USING BLACK WIRE SUPPLIED IN THESE VERSIONS.

ON EXPORT UNITS, TRANSFORMER VIOLET IS CONNECTED TO CP6, AND VIOLET/WHITE IS CONNECTED TO TS1, AND ELIMINATES THE WHITE WIRE USED IN DOMESTIC UNITS.

DASHED LINES INDICATE CONNECTION OF BLUE TRANSFORMER WIRES IN EXPORT UNITS ONLY.



ORANGE (2)

TP7

FILM/DWG: SERVICE DIAGRAM
DATABASE: SRPSEB.DBF
DATE: 12-APR-93
LAYERS PLOTTED: 1 2 3 4 10
15 19

NOTE: THE FOLLOWING COMPONENTS NOT ASSEMBLED ON THE P.C.B.
 Q15, Q17, Q18, Q21, R24, R30, R33, R37 AND R38.

DATABASE FILE: SRPSEB.DBF CHECKED BY: <i>ca</i> DATE: 04-15-93 APPROVED: <i>MH</i> DATE: 4-15-93 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. 1130 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK ON. NEXT HIGHER ASSEMBLY:	Fender MUSICAL INSTRUMENTS 1130 Columbia Street Brea, Co. 92621 TITLE: SERVICE DIAGRAM SR6300P/SR8300P POWER AMPLIFIER SIZE: DRAWN: C. SHAH ENGR: HUGHES DRAWING NUMBER: 041570 REV: A SCALE: CREATED: 08-APR-93 PLOTTED: 12-APR-93
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8

7

6

5

4

3

2

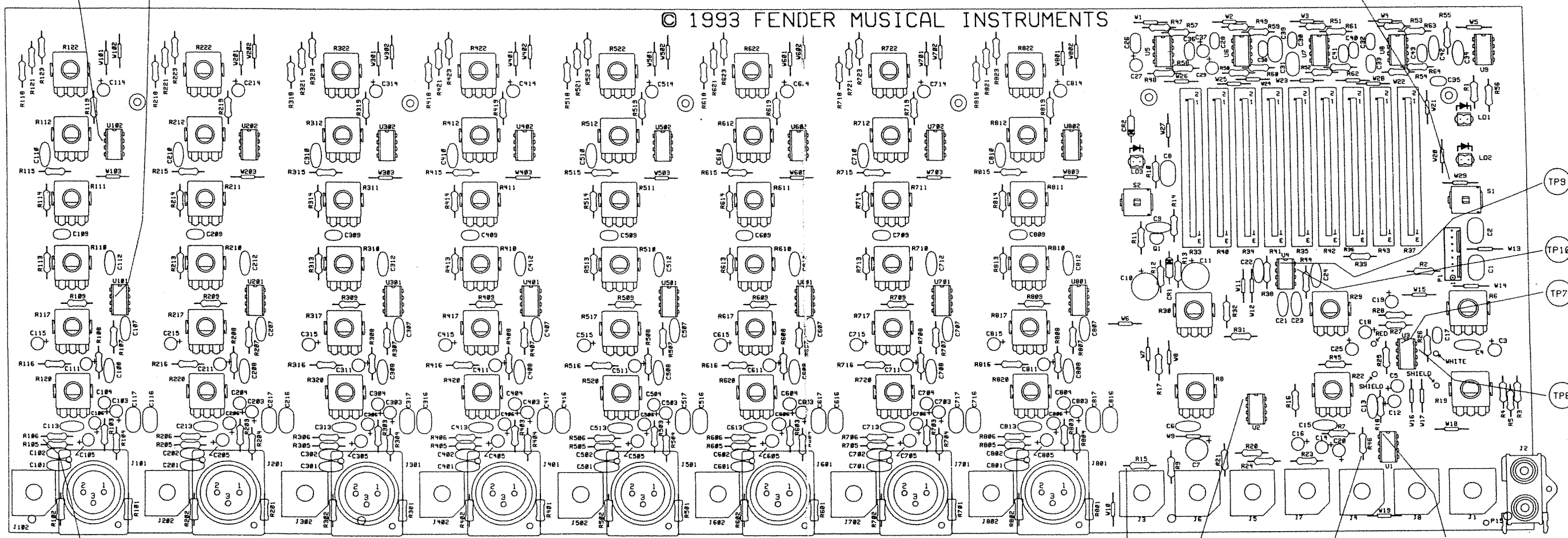
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED PR240	19-MAR-93	
	B	ECO L02646	08-JUN-93	<i>u</i>

S1 IS NOT ASSEMBLED IN
SR4150P, SR6300P, SR8300P

W29 IS NOT ASSEMBLED IN
SR6520P AND SR8520P

© 1993 FENDER MUSICAL INSTRUMENTS



FILM/LWG: SERVICE DIAGRAM
 DATABASE: SR8CHSER.DBF DATE: 29-JUN-93
 LAYERS PLOTTED: 1 2 3 4 10
 15 18 19

DATABASE FILE:
SR8CHSER.DBF

CHECKED BY: *MH*

DATE: *8-3-93*

APPROVED: *A*

DATE: *8-3-93*

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.
1130 COLUMBIA ST.
BREA, CALIFORNIA 92621
ROCK ON. "KNOCK YOURSELF OUT"

NEXT HIGHER ASSEMBLY:

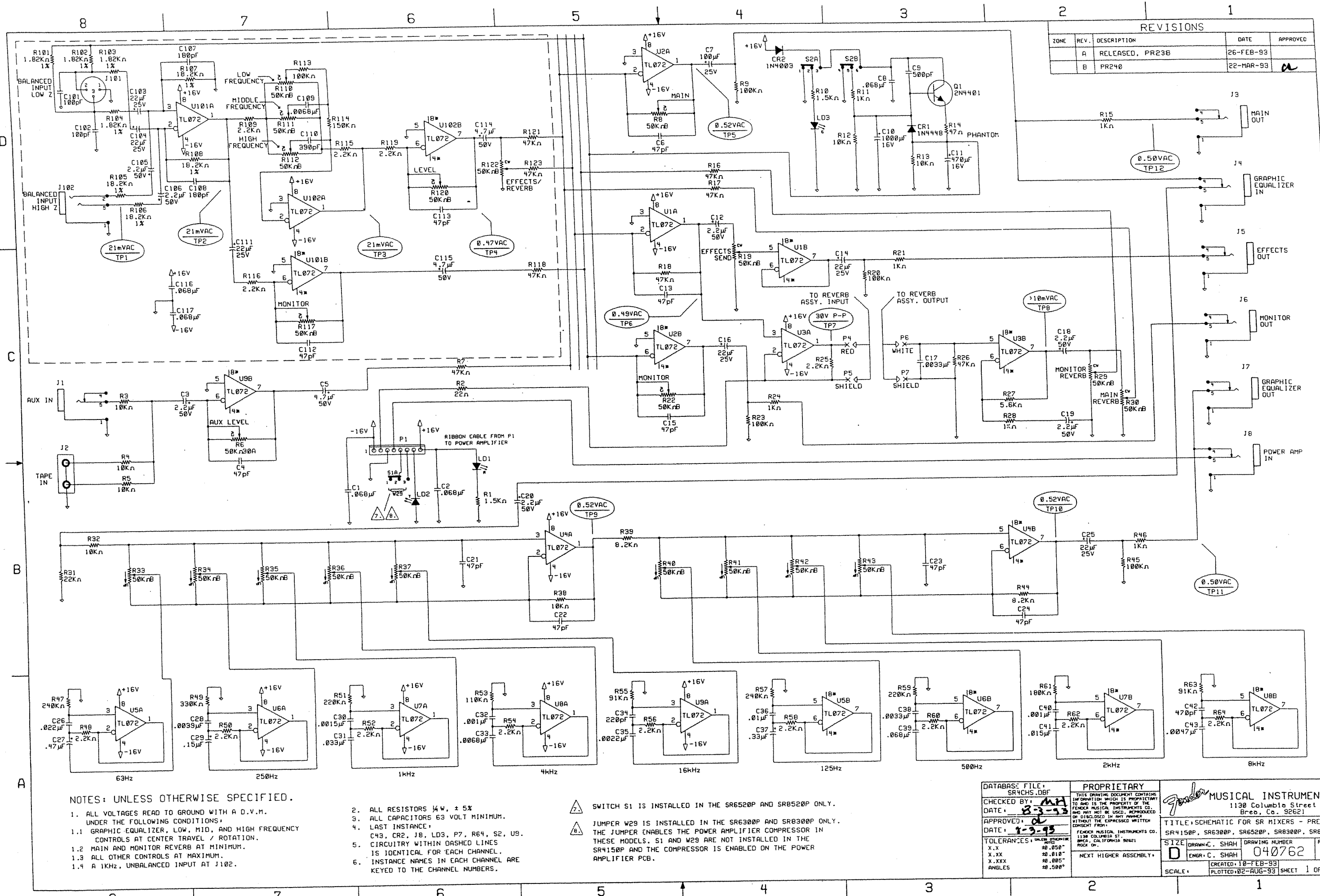
Fender MUSICAL INSTRUMENTS
1130 Columbia Street
Brea, Ca. 92621

TITLE: SERVICE DRAWING-SR PREAMP
SR4150P, SR6300P, SR6520P, SR8300P, SR8520P

SIZE	DRAWN: C.SHAH	DRAWING NUMBER	REV.
D	ENGR: C.SHAH	040764	B

CREATED: 12-MAR-93
 PLOTTED: 29-JUN-93 SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	RELEASED, PR238	26-FEB-93	
	B	PR248	22-MAR-93	<i>[Signature]</i>



NOTES: UNLESS OTHERWISE SPECIFIED.

- ALL VOLTAGES READ TO GROUND WITH A D.V.M. UNDER THE FOLLOWING CONDITIONS:
 - GRAPHIC EQUALIZER, LOW, MID, AND HIGH FREQUENCY CONTROLS AT CENTER TRAVEL / ROTATION.
 - MAIN AND MONITOR REVERB AT MINIMUM.
 - ALL OTHER CONTROLS AT MAXIMUM.
 - A 1KHZ, UNBALANCED INPUT AT J102.
- ALL RESISTORS 1/4W, ± 5%
- ALL CAPACITORS 63 VOLT MINIMUM.
- LAST INSTANCE:
- C43, CR2, J8, LD3, P7, R64, S2, U9.
- CIRCUITRY WITHIN DASHED LINES IS IDENTICAL FOR EACH CHANNEL.
- INSTANCE NAMES IN EACH CHANNEL ARE KEYED TO THE CHANNEL NUMBERS.

- SWITCH S1 IS INSTALLED IN THE SR6520P AND SR8520P ONLY.
- JUMPER W29 IS INSTALLED IN THE SR6300P AND SR8300P ONLY. THE JUMPER ENABLES THE POWER AMPLIFIER COMPRESSOR IN THESE MODELS. S1 AND W29 ARE NOT INSTALLED IN THE SR4150P AND THE COMPRESSOR IS ENABLED ON THE POWER AMPLIFIER PCB.

DATABASE FILE: SR4CHS.DBF CHECKED BY: DATE: 8-3-93 APPROVED: DATE: 4-9-93 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. 1138 COLUMBIA ST. BREA, CALIFORNIA 92621 ROCK ON. NEXT HIGHER ASSEMBLY:	Fender MUSICAL INSTRUMENTS 1138 Columbia Street Brea, Ca. 92621 TITLE: SCHEMATIC FOR SR MIXERS - PREAMP SR4150P, SR6300P, SR6520P, SR8300P, SR8520P SIZE: D DRAWN: C. SHAH ENGR: C. SHAH DRAWING NUMBER: 040762 REV: B SCALE: 1:1 CREATED: 10-FEB-93 PLOTTED: 02-AUG-93 SHEET 1 OF 1
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040763000