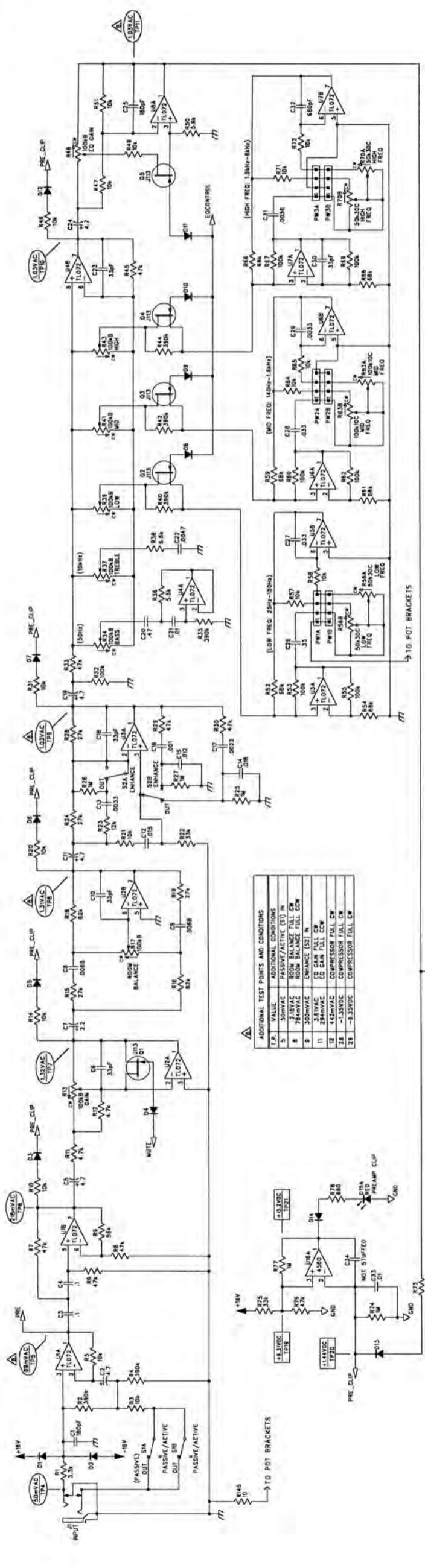
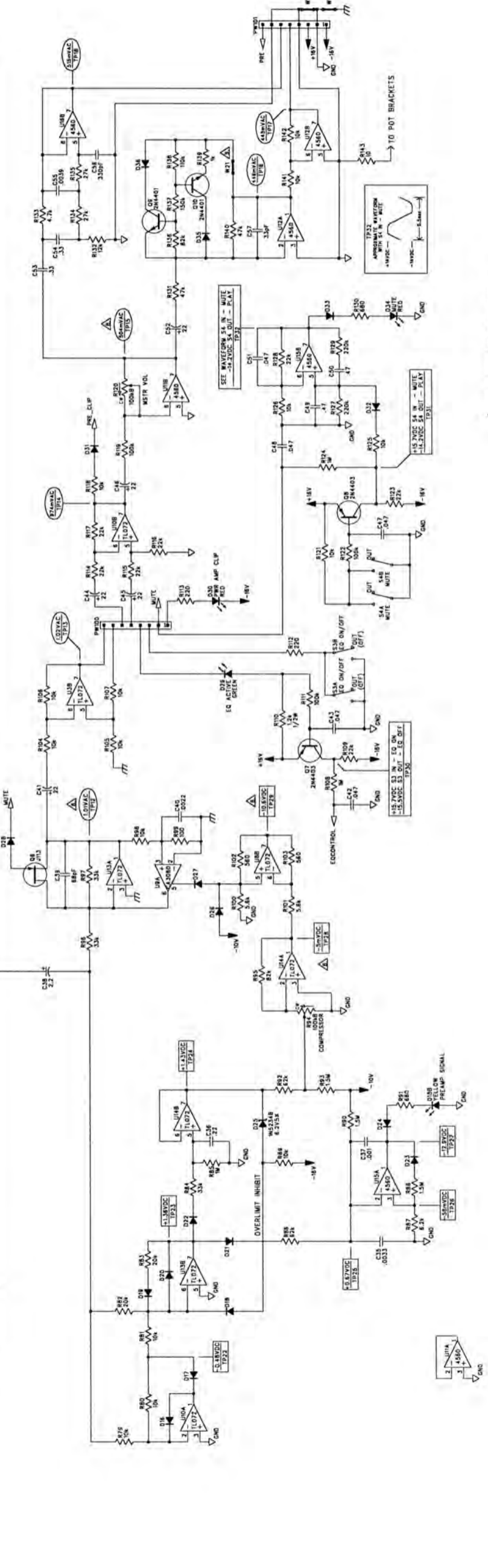


REV.	DESCRIPTION	DATE	APPROVED
A	PR412	02-SEP-89	dBL

1 2 3 4 5 6 7 8

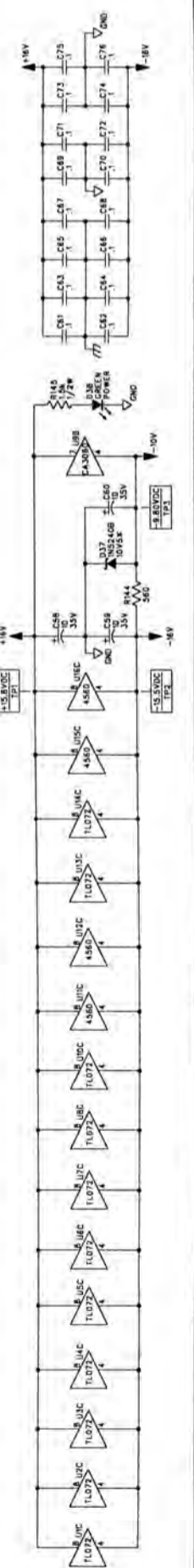


T.B. VALUE	ADDITIONAL CONDITIONS
5	50mVAC PASSIVE/ACTIVE (ST) IN
8	7.5VAC ROOM BALANCE FULL CW
9	7.5VAC ROOM BALANCE FULL CCW
10	25mVAC EQ ENHANCE FULL CW
11	25mVAC EQ ENHANCE FULL CCW
12	4.5mVAC COMPRESSOR FULL CW
13	4.5mVAC COMPRESSOR FULL CCW
28	-1.5VDC COMPRESSOR FULL CW
29	-1.5VDC COMPRESSOR FULL CCW

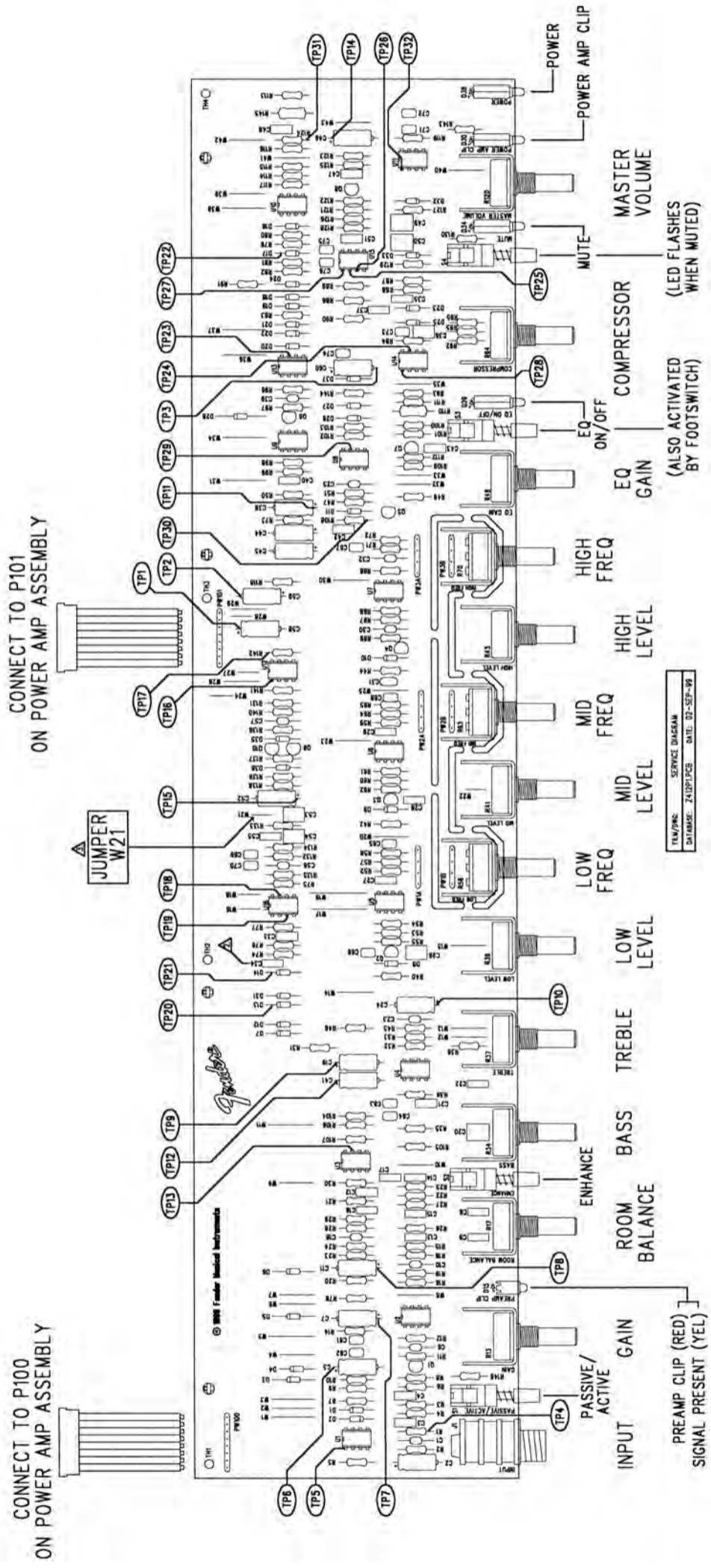


REFER TO POWER AMP SERVICE DIAGRAM P/N 00584000 FOR OUTPUT TEST SETUP CONDITIONS
 SEE TABLE FOR ADDITIONAL TEST CONDITIONS
 AC AND DC VOLTAGES READ TO GROUND WITH A DVM UNDER THE FOLLOWING CONDITIONS:
 1. POWER AMP MUST BE IN STANDBY MODE
 2. NO INPUT SIGNAL (TP1-TP2, TP3-TP4 ON V)
 3. ALL UNPOLARIZED CAPACITORS IN JFET, MOSFET, AND CMOS ADDITIONAL CONDITIONS FOR TP4-TP7
 4. DVM MUST BE SHARED WITH SIGNAL AT J1 COMPRESSOR AT TP1 (FULL CW)
 5. ALL OTHER CONTROLS AT "12 O'CLOCK" (50K ROTATION)
 6. LAST INSTANCES: R44, C76, D34, U16, Q10, J1, S1, TP32, PWR101
 7. THIS SCHEMATIC IS FOR PCB FABRICATION P/N 00584000 AND INSTANCES NOT USED: PWR1-99
 8. ALL UNPOLARIZED CAPACITORS IN JFET, MOSFET, AND CMOS (POWER SUPPLY BYPASS CAPACITORS ARE 25%)
 9. ALL UNPOLARIZED CAPACITORS IN JFET, MOSFET, AND CMOS (POWER SUPPLY BYPASS CAPACITORS ARE 25%)
 10. ALL UNPOLARIZED CAPACITORS IN JFET, MOSFET, AND CMOS (POWER SUPPLY BYPASS CAPACITORS ARE 25%)
 11. ALL RESISTORS IN OHMS, SP: 1/W.

MUSICAL INSTRUMENTS
 2621 Research Drive
 Corona, CA 91720 USA
 TITLE: SERVICE DIAGRAM, COMBINED (continued)
 BASSMAN 400 AMPLIFIERS
 PREAMP
 SIZE: DRAWING NUMBER
 D 0055681000
 REV. A
 RELEASE DATE: 03-SEP-89
 SHEET: 1 OF 2



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR 412	02-SEP-88	ABL



CONNECT TO P101
ON POWER AMP ASSEMBLY

CONNECT TO P100
ON POWER AMP ASSEMBLY

JUMPER
W21

TM/PMC SERVICE DIAGRAM
DATE: 2/1/79 PCB DATE: 02-SEP-88

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CHECKED BY: *S. P. G.*
DATE: *02-SEP-88*

APPROVED BY: *ABL*
DATE: *02-SEP-88*

DRAWN BY: *B. LEWIS* TUBE: *6 LEV8*
DATABASE FILE: *Z410P1A.CIR*

MUSICAL INSTRUMENTS
2621 Research Drive
Corona, CA 91720 USA

TITLE: SERVICE DIAGRAM, COMBINED (PCB only)
BASSMAN 410 AMPLIFIERS
PREAMP

SIZE: *D*
DRAWING NUMBER: *0055681000*

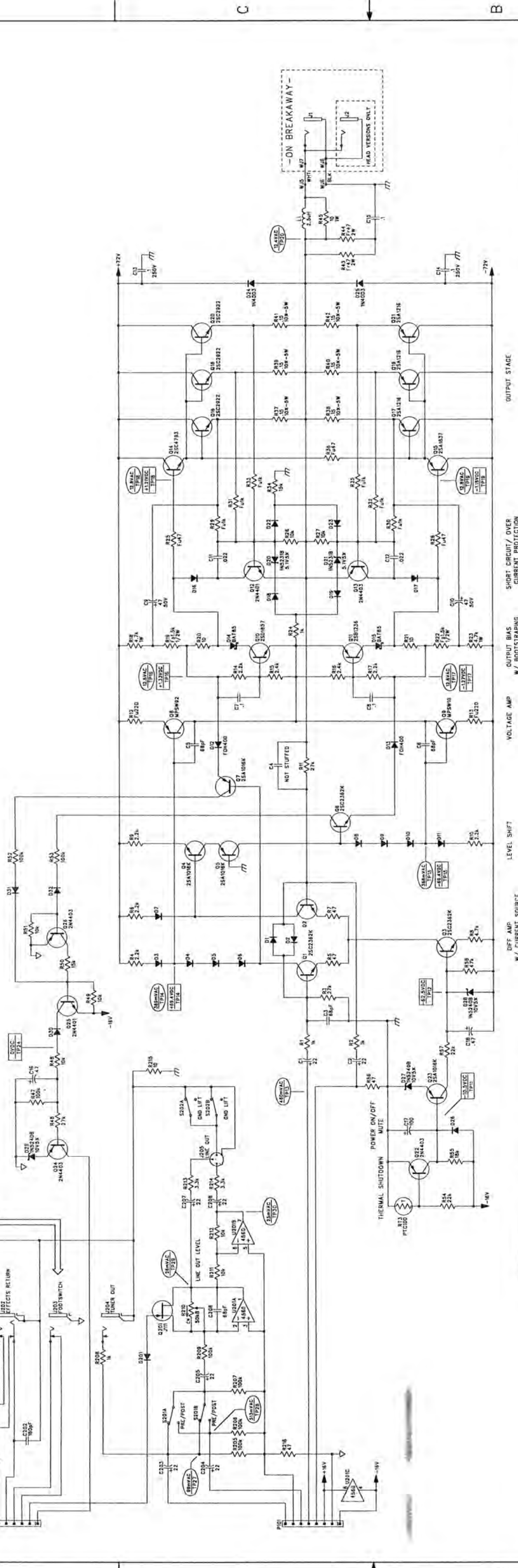
REV. *A*
RELEASE DATE: *02-SEP-88* SHEET *2* OF *2*

- REFER TO POWER AMP SERVICE DIAGRAM P/N 0055681000 FOR OUTPUT TEST SETUP CONDITIONS.
- CA NOT STUFFED.
- SEE SHEET 1 FOR TEST CONDITIONS AND TEST POINT VALUES.
- NOTES: (UNLESS OTHERWISE NOTED)

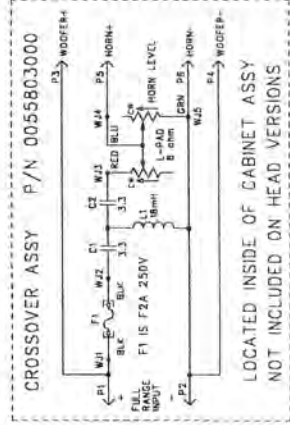
REV.	DESCRIPTION	DATE	APPROVED
A	PR 412	01-SEP-99	dbl
B	PR 452	09-NOV-99	dbl
C	EC 2392	10-JAN-00	dbl

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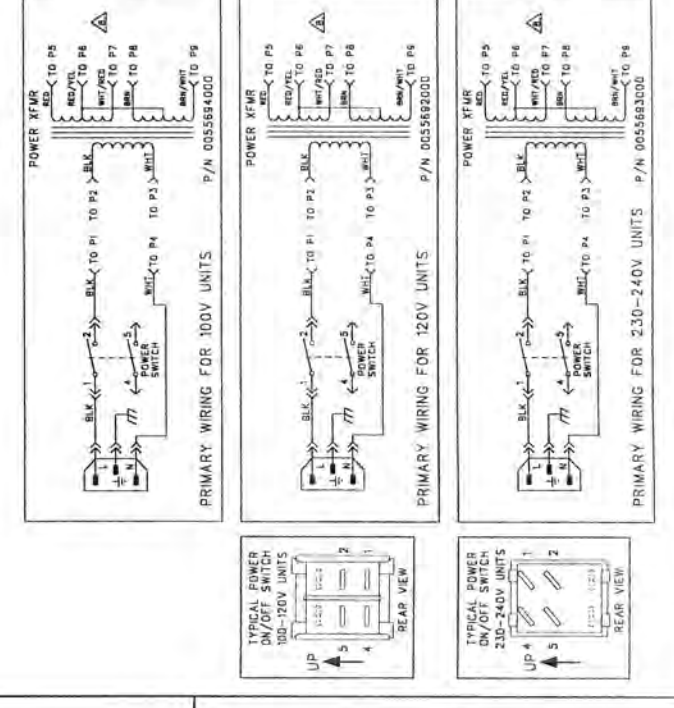
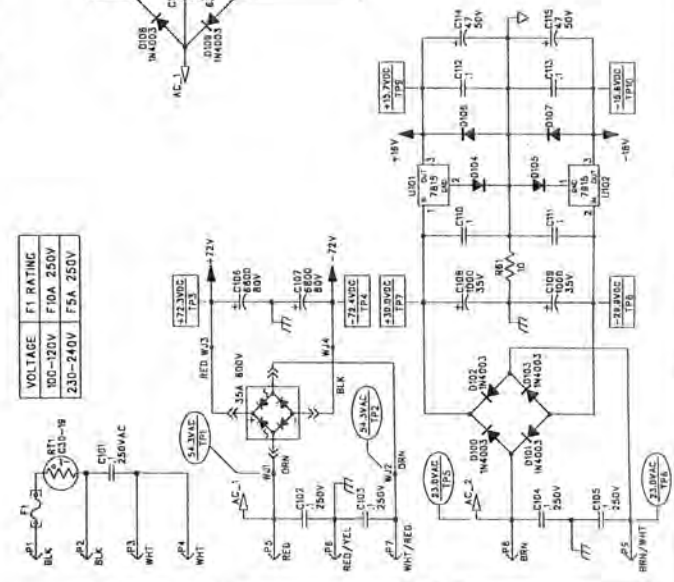
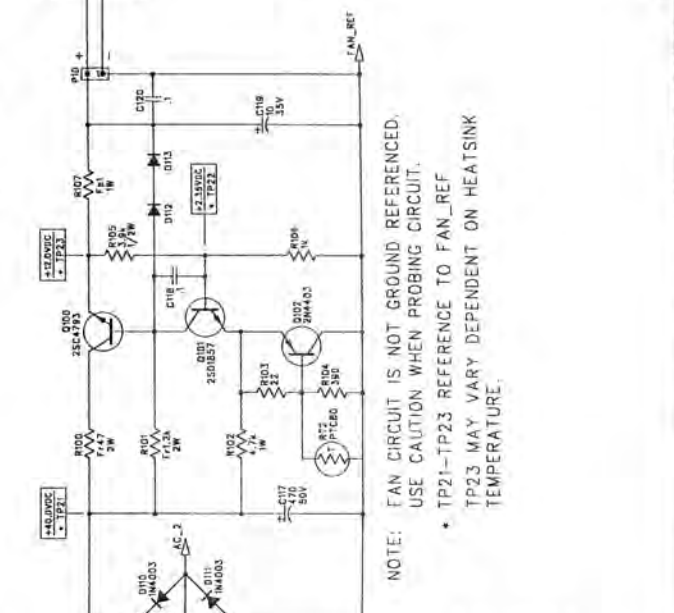
D C B A



OUTPUT POWER: Δ
 1.40V, 1kHz, SIN WAVE INPUT AT TP13.
 350W AT $\leq 0.02\%$ THD INTO 4 ohm RESISTIVE LOAD AT J1.
 UNIT AT RATED LINE VOLTAGE.



- TEST SETUP FOR OUTPUT TEST:
 1.5V rms, 1kHz SIN WAVE INPUT AT RETURN JACK (J203).
 ON PREAMP PCB, CUT OR REMOVE JUMPER W21.
 ON MAIN AMP PCB, CUT OR REMOVE JUMPER W21.
 REMEMBER TO REWELD JUMPER W21 AT CONCLUSION OF TEST.
 IMPROPER WIRING WILL CAUSE SEVERE DAMAGE TO COMPONENTS.
- BEFORE WORKING ON POWER TO UNIT, DISCONNECT ALL POWER.
 7. LAMP INSTANCES NOT USED: C18-84, C19-84, C20-84, C21-84, C22-84, C23-84, C24-84, C25-84, C26-84, C27-84, C28-84, C29-84, C30-84, C31-84, C32-84, C33-84, C34-84, C35-84, C36-84, C37-84, C38-84, C39-84, C40-84, C41-84, C42-84, C43-84, C44-84, C45-84, C46-84, C47-84, C48-84, C49-84, C50-84, C51-84, C52-84, C53-84, C54-84, C55-84, C56-84, C57-84, C58-84, C59-84, C60-84, C61-84, C62-84, C63-84, C64-84, C65-84, C66-84, C67-84, C68-84, C69-84, C70-84, C71-84, C72-84, C73-84, C74-84, C75-84, C76-84, C77-84, C78-84, C79-84, C80-84, C81-84, C82-84, C83-84, C84-84, C85-84, C86-84, C87-84, C88-84, C89-84, C90-84, C91-84, C92-84, C93-84, C94-84, C95-84, C96-84, C97-84, C98-84, C99-84, C100-84.
- INSTANCES ALSO USED: P100-100, P201-201, J201.
- FOLLOWING CONDITIONS ARE TO BE OBSERVED WITH A DVM UNDER THE UNIT AT RATED LINE VOLTAGE:
 1. 4 ohm RESISTIVE LOAD CONNECTED AT J1.
 2. VOLTAGE MAY VARY 7-10%.
 3. ADDITIONAL CONDITIONS FOR TP23-TP23:
 a. ALL RESISTORS IN DIMS. 5K: 1/4W.
 b. ALL CAPACITORS IN DIMS. 5K: 1/4W.
 c. ALL UNPOLARIZED CAPACITORS IN DIMS. 5K: 1/4W.
 d. ALL POLARIZED CAPACITORS IN DIMS. 5K: 1/4W.
 e. ALL POWER SUPPLY BYPASS CAPACITORS ARE 200uF.



MUSICAL INSTRUMENTS
 2621 Research Drive
 Corona, CA 91720 USA

CHECKED BY: [Signature]
 DATE: 10-31-99

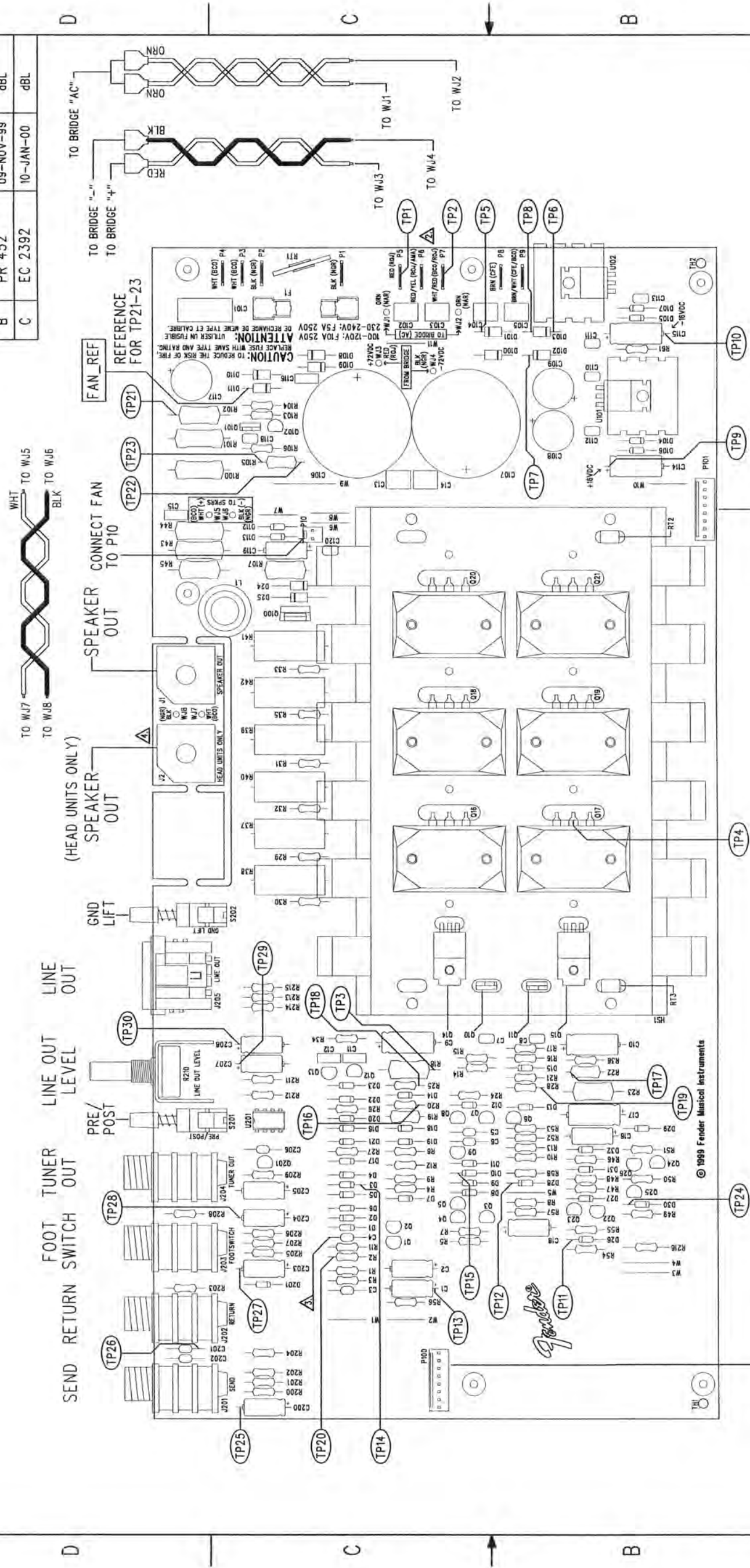
APPROVED BY: [Signature]
 DATE: 11-12-99

DRAWN: D. LEWIS, ENGR. D. LEWIS
 DATABASE FILE: 242523.SCH

TITLE: SERVICE DIAGRAM, COMBINED (SEMICONDUCTOR) BASSMAN 400 AMPLIFIERS POWER AMPLIFIER
 SIZE: DRAWING NUMBER: D10055682000
 REV. C

RELEASE DATE: 03-SEP-99 SHEET: 1 OF 2

REV.	DESCRIPTION	DATE	APPROVED
A	PR 412	01-SEP-99	dBL
B	PR 452	09-NOV-99	dBL
C	EC 2392	10-JAN-00	dBL



(HEAD UNITS ONLY)
SPEAKER OUT

SPEAKER CONNECT FAN OUT TO P10

FAN_REF
REFERENCE FOR TP21-23

CAUTION: TO REDUCE THE RISK OF FIRE, REPLACE FUSE WITH SAME TYPE AND RATING.
ATTENTION: DE RECHANGER DE MENE TYPE ET CALIBRE. UTILISER UN FUSIBLE.

CONNECT WITH PW100
FROM PREAMP PCB ASSEMBLY

CONNECT WITH PW101
FROM PREAMP PCB ASSEMBLY

FILM/DWG: SERVICE DIAGRAM
DATABASE: Z412P2.PCB DATE: 10-JAN-00

MUSICAL INSTRUMENTS
2621 Research Drive
Corona, CA 91720 USA

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CHECKED BY: *B. Yers*
DATE: *13-JAN-00*

APPROVED BY: *ABC*
DATE: *11/15/00*

DRAWN: D. LEWIS ENGR: D. LEWIS
DATABASE FILE: Z412P2.PCB

TITLE: SERVICE DIAGRAM, COMBINED (PCB Assy)
BASSMAN 400 AMPLIFIERS
POWER AMPLIFIER

SIZE: **C**
DRAWING NUMBER: **0055682000**

RELEASE DATE: 03-SEP-99 SHEET 2 OF 2

- △ J2 STUFFED IN HEAD VERSIONS ONLY.
 - △ C4 NOT STUFFED.
 - △ REFER TO SHEET 1 FOR PROPER SECONDARY WIRING.
 - 1. SEE SHEET 1 FOR PRIMARY WIRING, TEST CONDITIONS, TEST POINT VALUES, AND OUTPUT POWER TEST SETUP.
- NOTES: (UNLESS OTHERWISE NOTED)

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