

83 Series

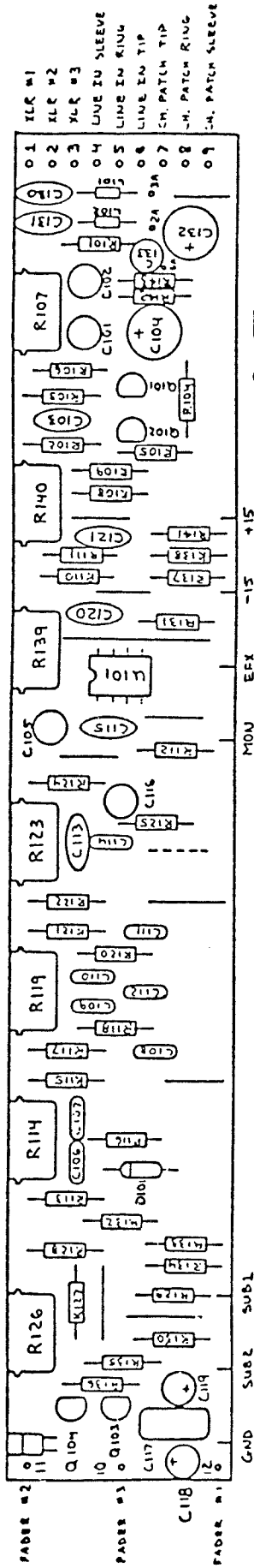
# Schematic

**B I A M P<sup>®</sup>**

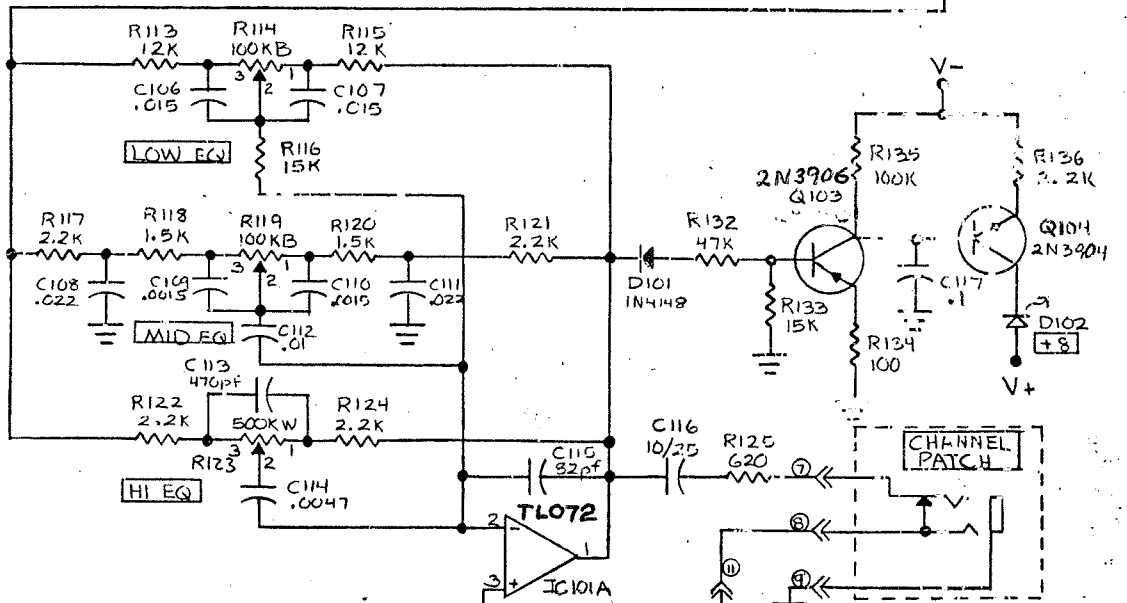
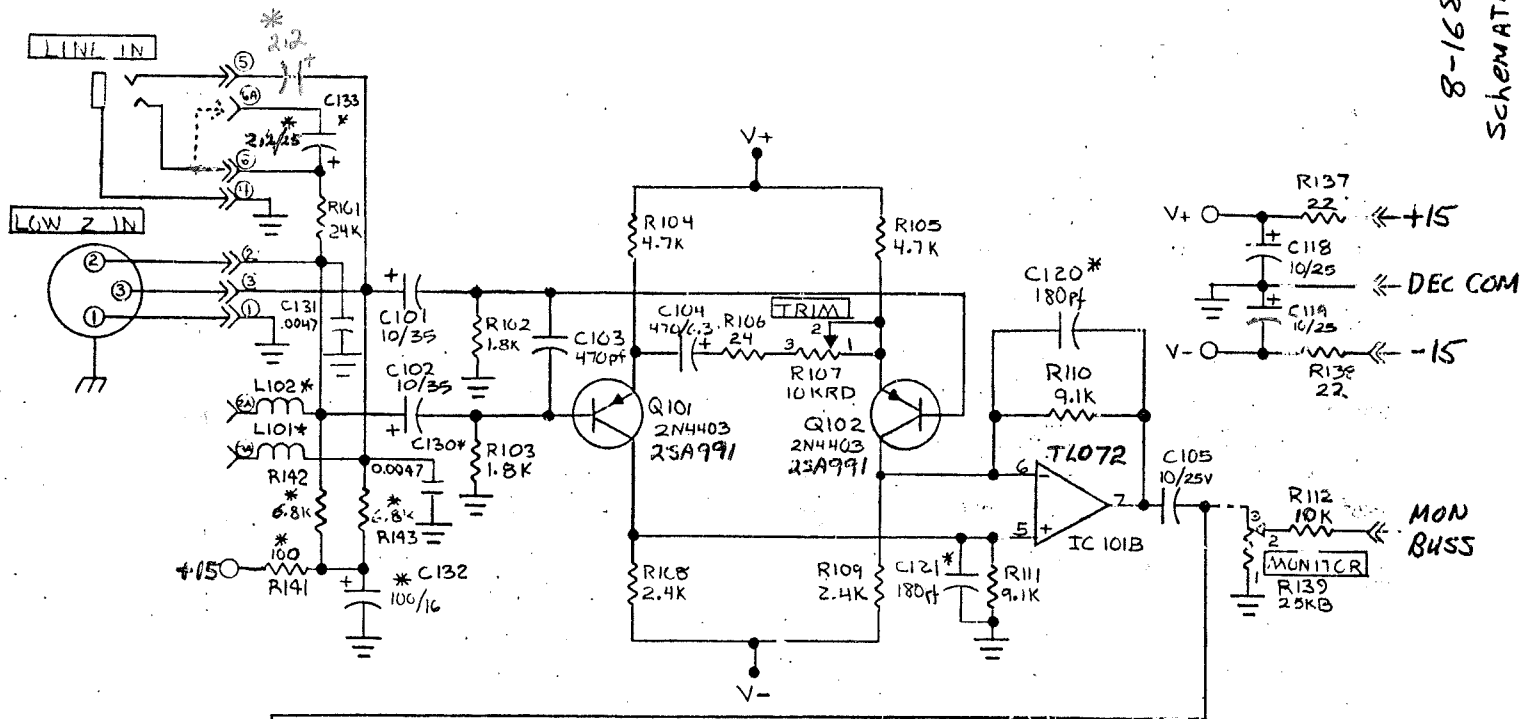
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S Y S T E M S

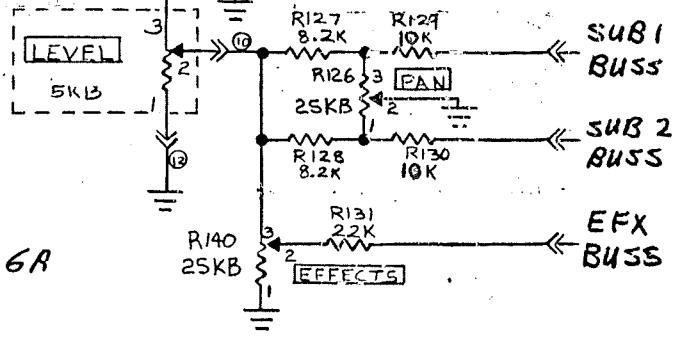
10074 SW Arctic Drive      Beaverton, OR 97005      503-641-7287



INPUT CHANNEL

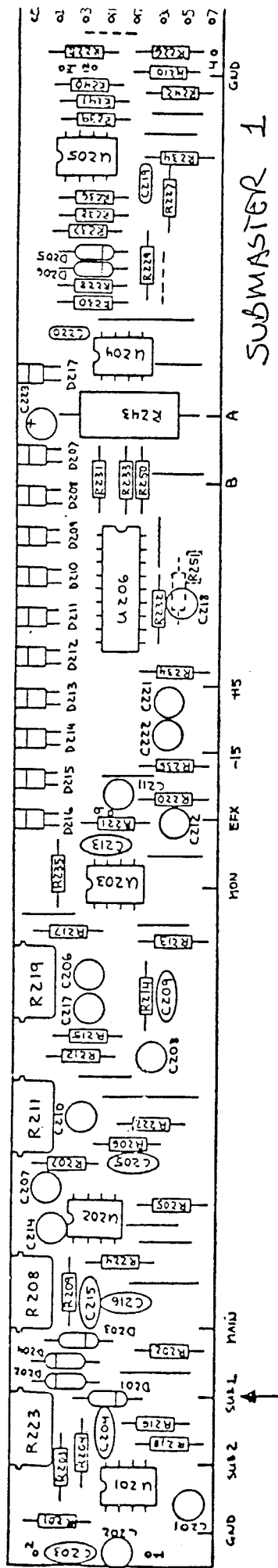


\* OPTIONAL - NOT FACTORY INSTALLED  
**FOR PHANTOM POWER ADD:**  
 R141 100Ω  
 R142 6.8KΩ  
 R143 6.8KΩ  
 C132 100uF/16V POLAR  
 C133 2.2uF/25V NON POLAR  
 MOVE LINE IN TIP LEAD FROM PAD 6 TO 6A



R112, 129, & 130 WERE 18KΩ  
 IN EARLY UNITS.

IC101 IN EARLY UNITS MAY  
 BE AN LF353 - REPLACE  
 WITH A TL072.  
 Q103 IN EARLY UNITS IS A 2N3905



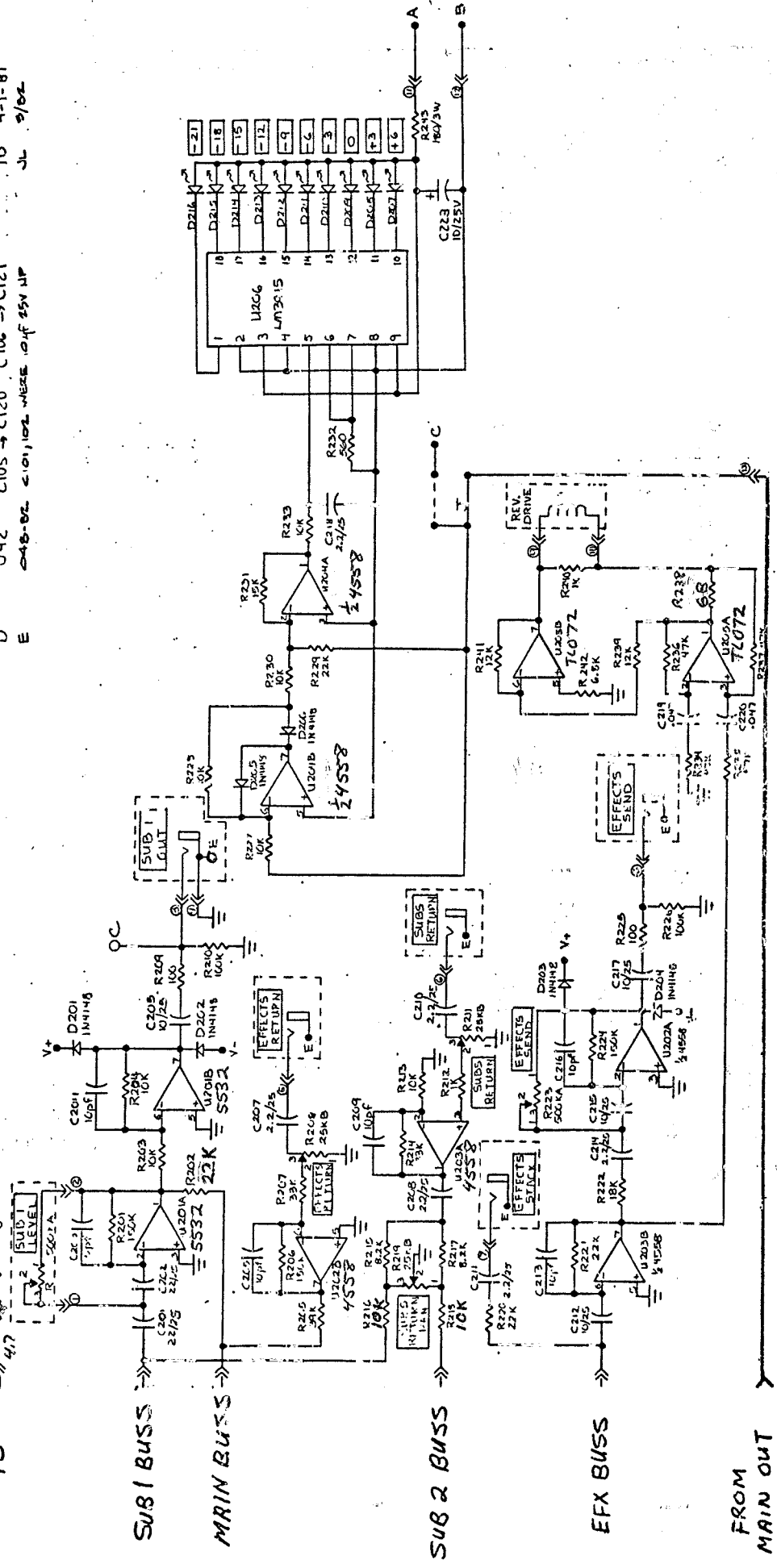
SUBMASTER 1

f/5  
DEC GND  
-15

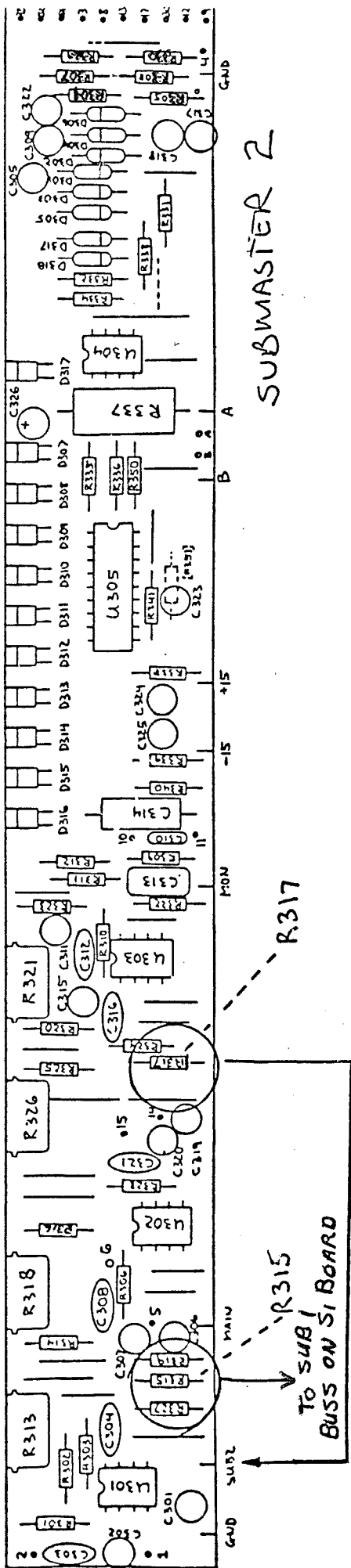
U201 WAS AN LF353  
IN EARLY UNITS

REV	ECO	CHANGE	DATE
B	008	ADD C405, C406	1-29-61
C	029	R238 68 → 100	4-1-81
D	042	C105 → C120 C106 → C121	4-1-81
E	048-042	C101, 102 WERE 104F 55V NP	9/66

SUB 1 ASSY.



8-1683 SUB 1 SCHEMATIC

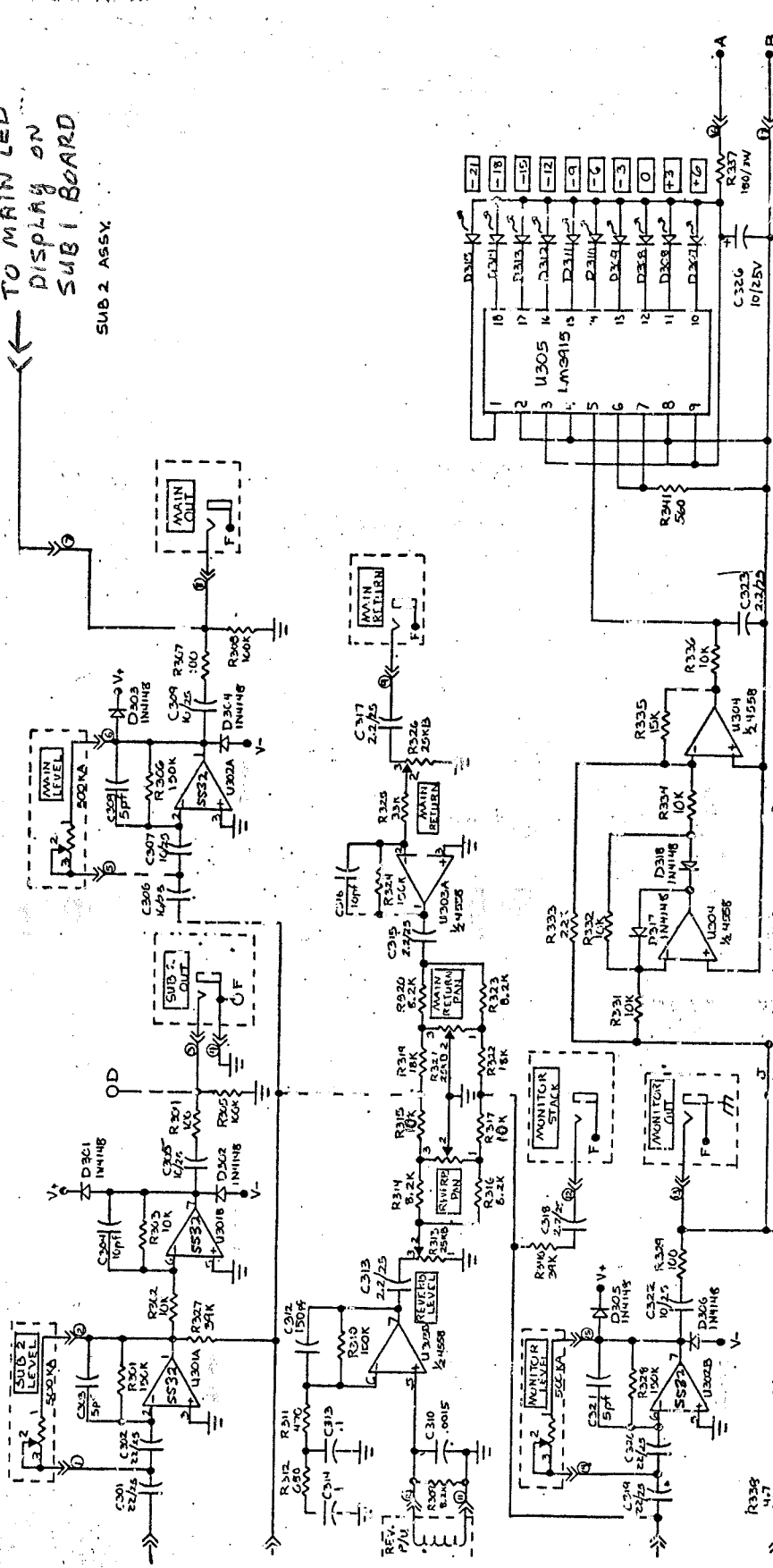


SUBMASTER 2

R317

TO SUB /  
BUSS ON SI BOARD

TO MAIN LED  
DISPLAY ON  
SUB 1 BOARD  
SUB 2 ASSY.



SUB 2 BUSS

MAIN BUSS

MON BUSS

+15

DEC.COM

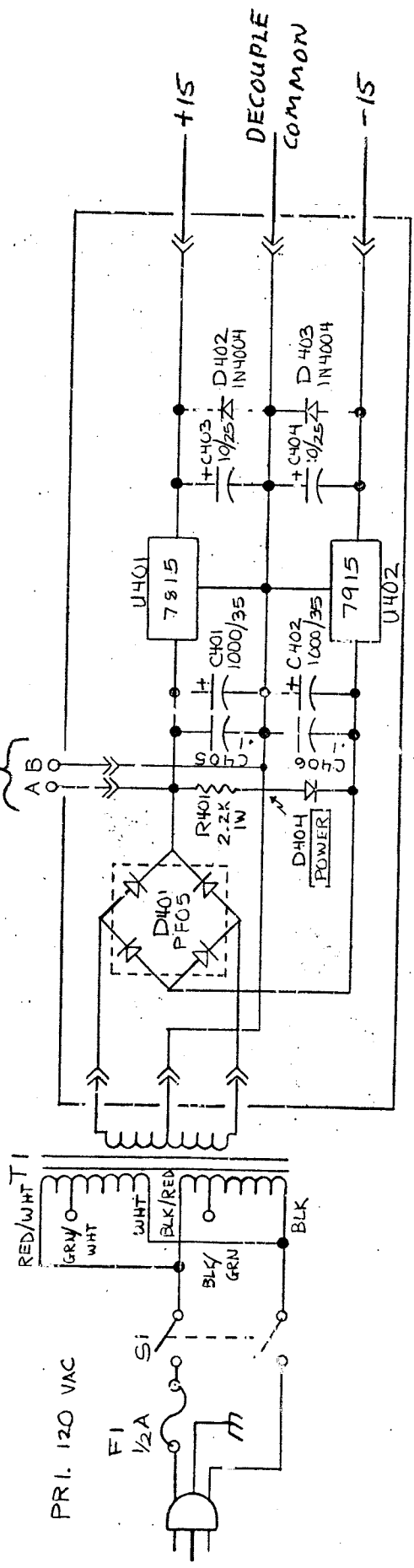
-15

Rev B 1-24-51 TD

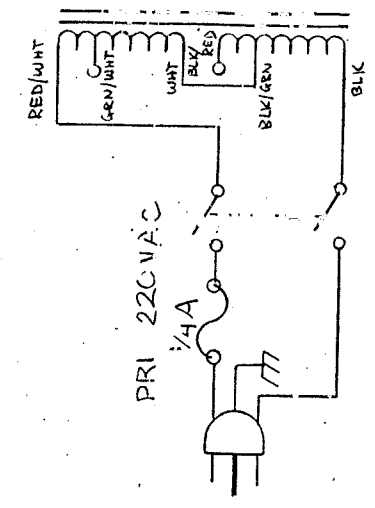
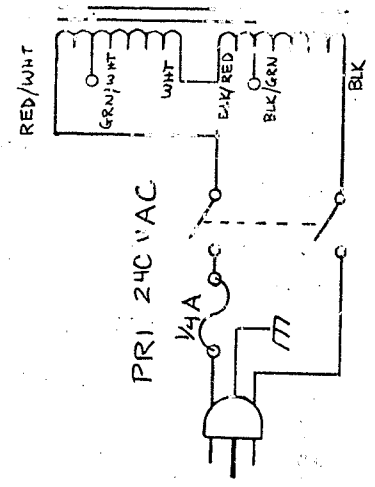
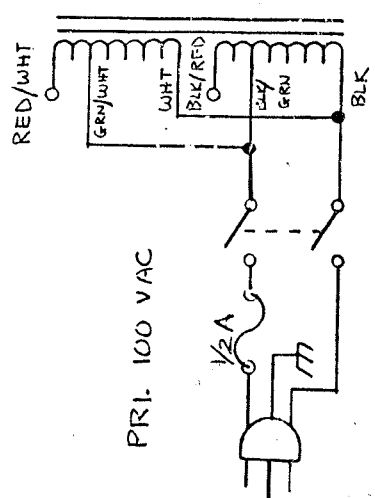
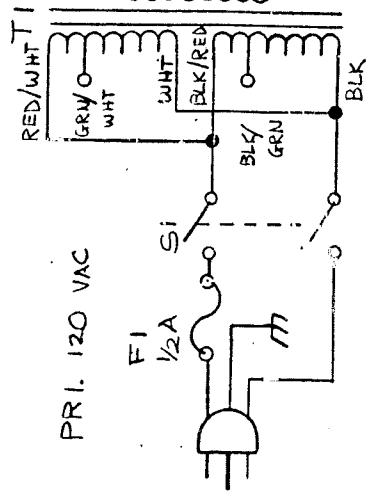
8-16 83 SERIES SUB 2	
DATE	12/1/51
APPROVALS	TD
CHECKED	TD
CONTRACT NO.	
SIZE	10-11-21
SCALE	
DWG. NO.	
SHEET	E

4301 & 4302 (5532) WAS  
AN LF353 IN EARLY PRODUCTION

To L.E.D. DISPLAYS



8-1683  
POWER SUPPLY  
SCHEMATIC





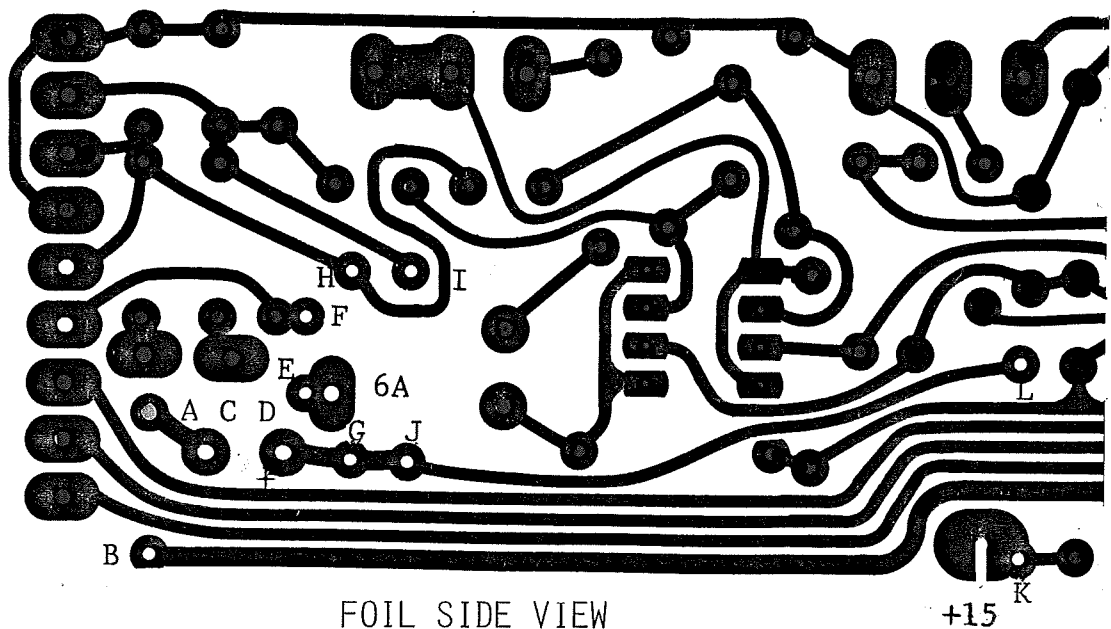
### 83 SERIES PHANTOM POWER CONVERSION

1. Remove the bottom panel and the left end panel. Stand the Unit on its right end so that the foil side of the circuit boards faces up.
2. Referring to the foil layout diagram, use solder wick to remove the solder from the holes marked A thru L and 6A.
3. Remove the grey wire from hole number 6 and solder it into hole 6A.
4. Install a 0.375" jumper from hole A to hole B.
5. Install a 100 ohm/ $\frac{1}{4}$  watt resistor from hole K to hole L.
6. Install 6800 ohm/ $\frac{1}{4}$  watt resistors from hold G to hold H, and from hole I to hole J.
7. Install a 2.2 uF non polar capacitor from hole E to hole F.
8. Install a 100 uF/16v capacitor from hole C (-) to hole D (+).
9. Remove the brown wire from hole 5. Install one leg of a 2.2 uF non polar capacitor into hole 5 and solder. Connect the brown wire to the other capacitor lead and mount the capacitor to the circuit board with silicon sealer (RTV) to prevent lead breakage.

This completes the phantom power conversion procedure. Pins 2 and 3 of the XLR connector should read +15 volts D.C. when measured with no load. There should be no permanent voltage on the  $\frac{1}{4}$ " phone jack tip and ring contacts.

NOTE: The above steps are to be repeated for each phantom powered channel.

BLACK	1
RED	2
YELLOW	3
BLUE	4
BROWN	5
GREY	6
ORANGE	7
WHITE	8
GREEN	9



FOIL SIDE VIEW

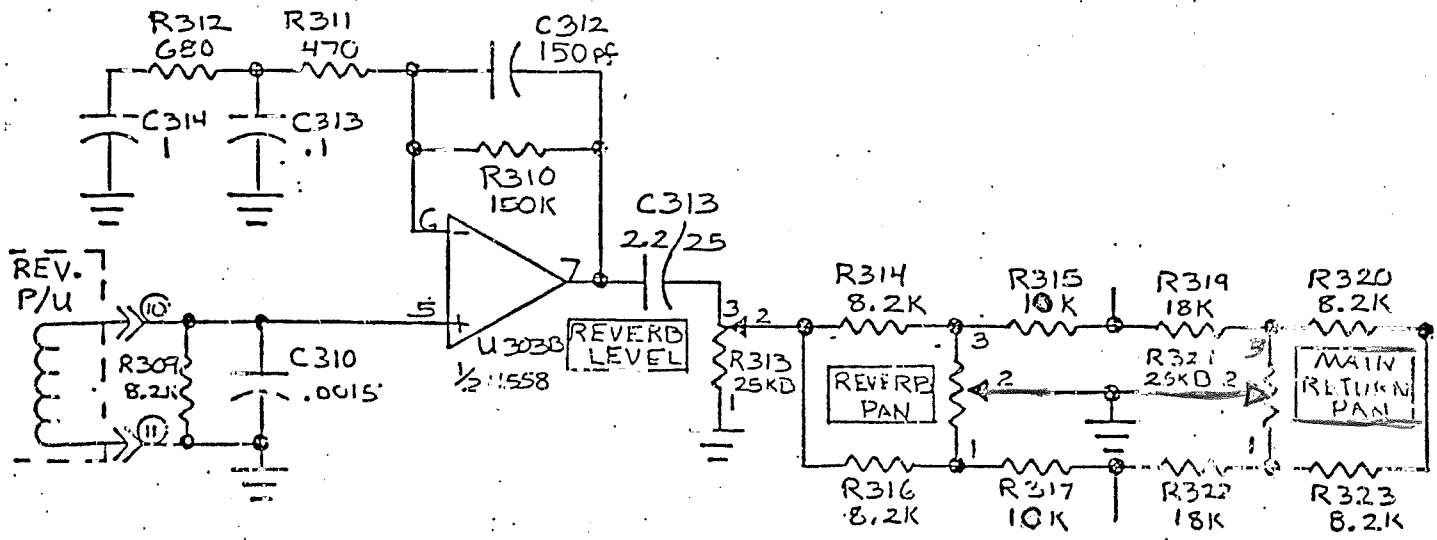
+15 K

By executing this modification, the reverb "wet" signal will be applied to sub 1, sub 2 or both via the reverb pan control.

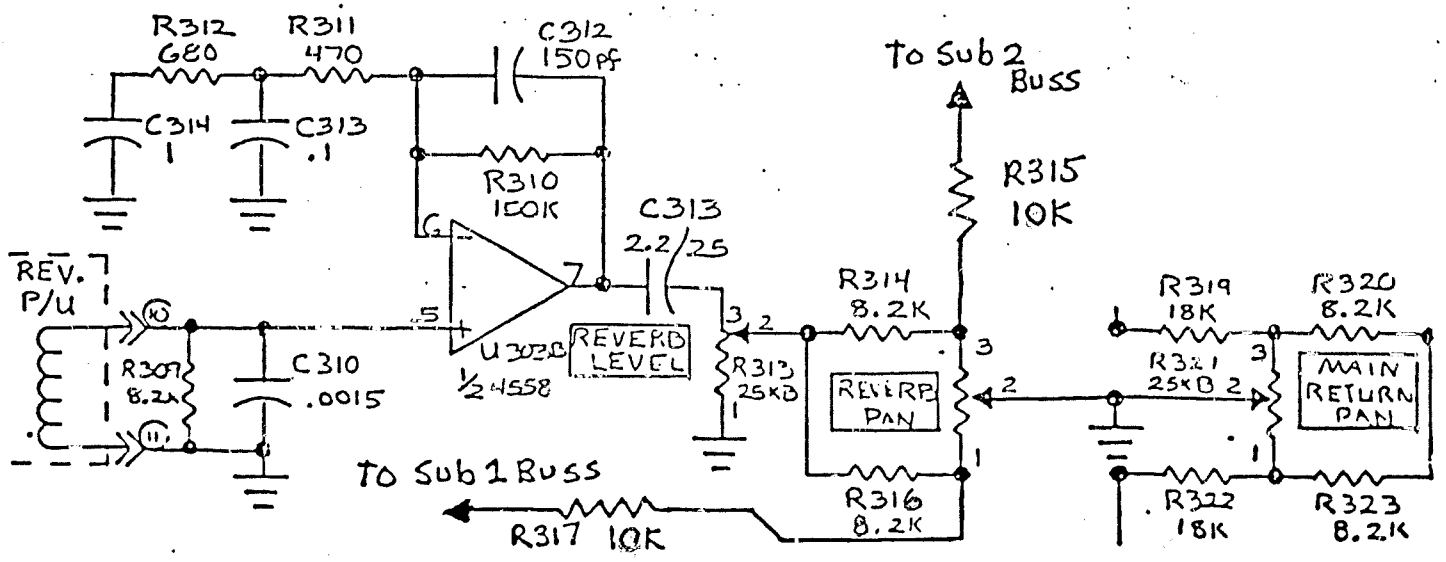
(See page two)

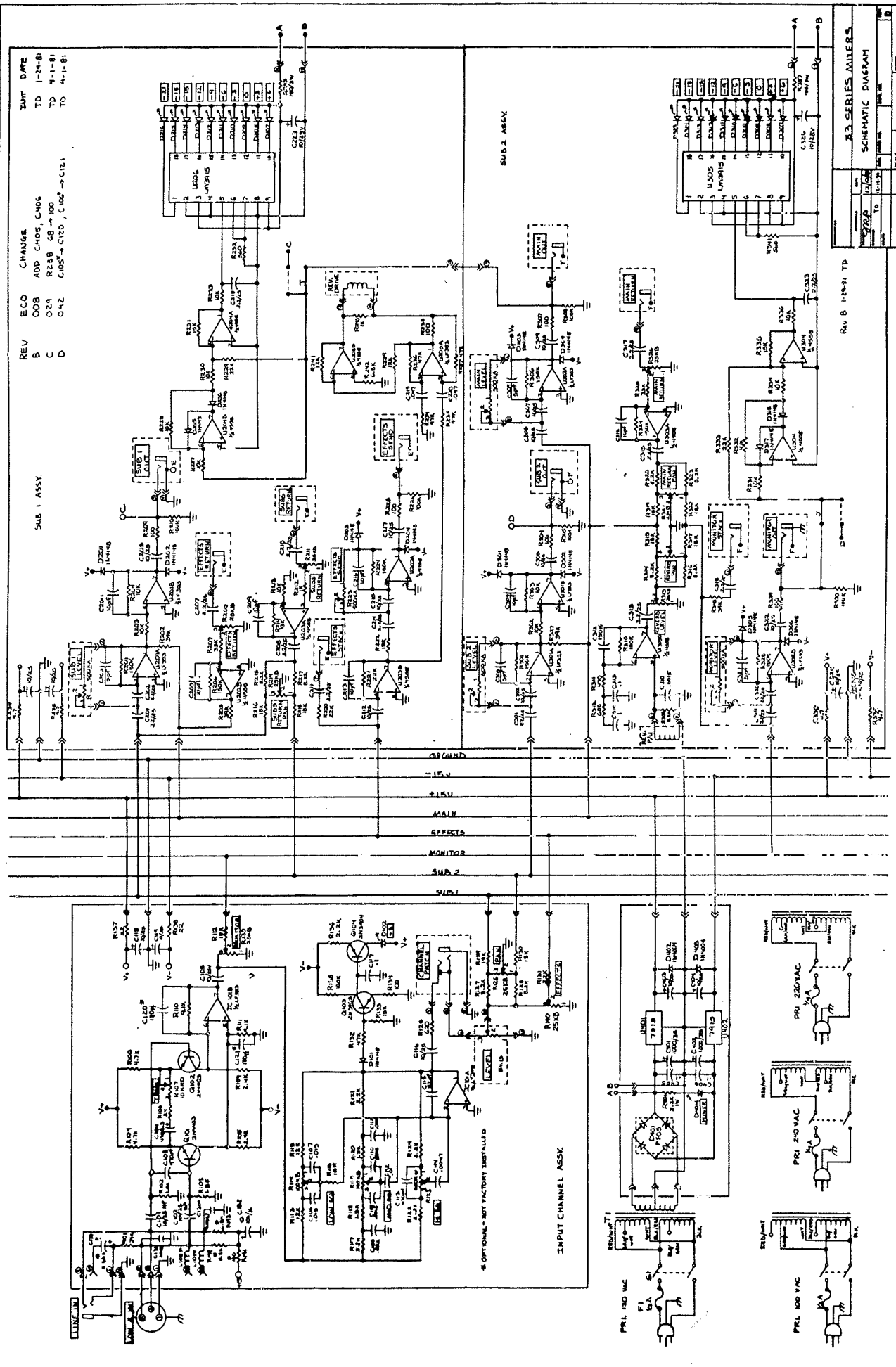
- 1. Desolder R 315 from the main buss.
- 2. Desolder R 317 from the monitor buss.
- 3. Attach sufficient wire length to R315 to reach sub 2 Buss.
- 4. Attach sufficient wire length to R317 to reach sub 1 buss.
- 5. RTV glue the two resistors to the circuit board.

CHANGE FROM:



CHANGE TO:





REV	ECO	CHANGE	DATE
B	008	ADD C-105, C-106	1-24-81
C	029	R238 68 → 100	4-1-81
D	042	C105 → C120, C106 → C121	4-1-81

REV B 1-24-81 TP		R3-SERIES MILLERS	
REV	DATE	BY	CHKD
008	1-24-81		
029	4-1-81		
042	4-1-81		

SCHEMATIC DIAGRAM	
REV	DATE
008	1-24-81
029	4-1-81
042	4-1-81