

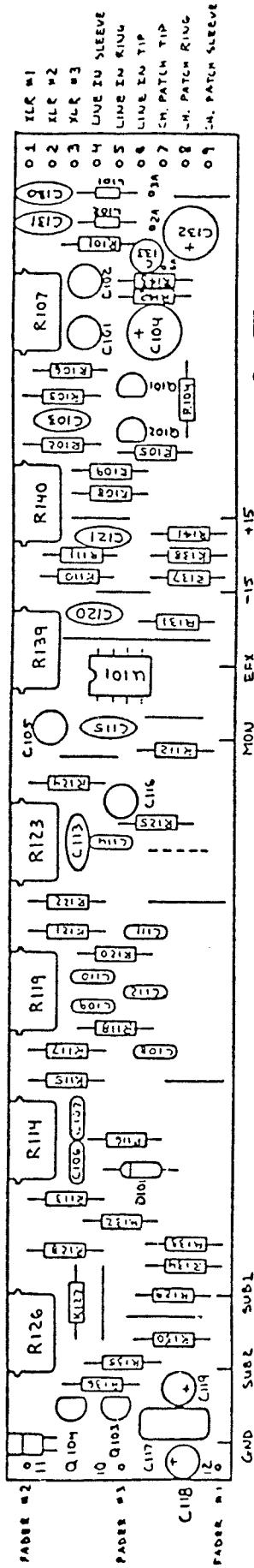
83 Series

Schematic

B I A M P[®]

S Y S T E M S

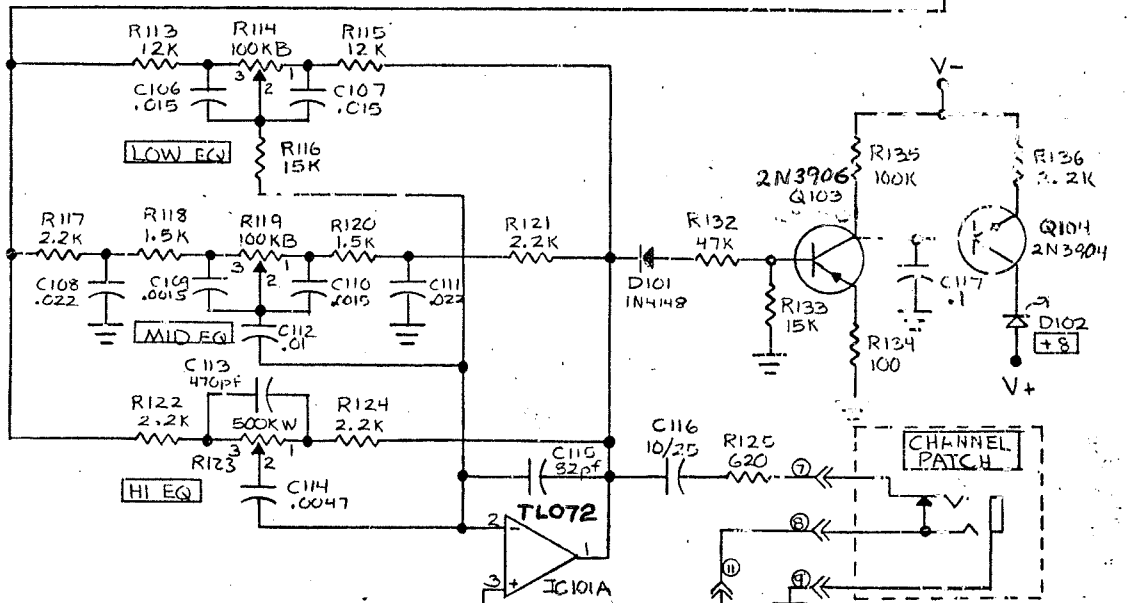
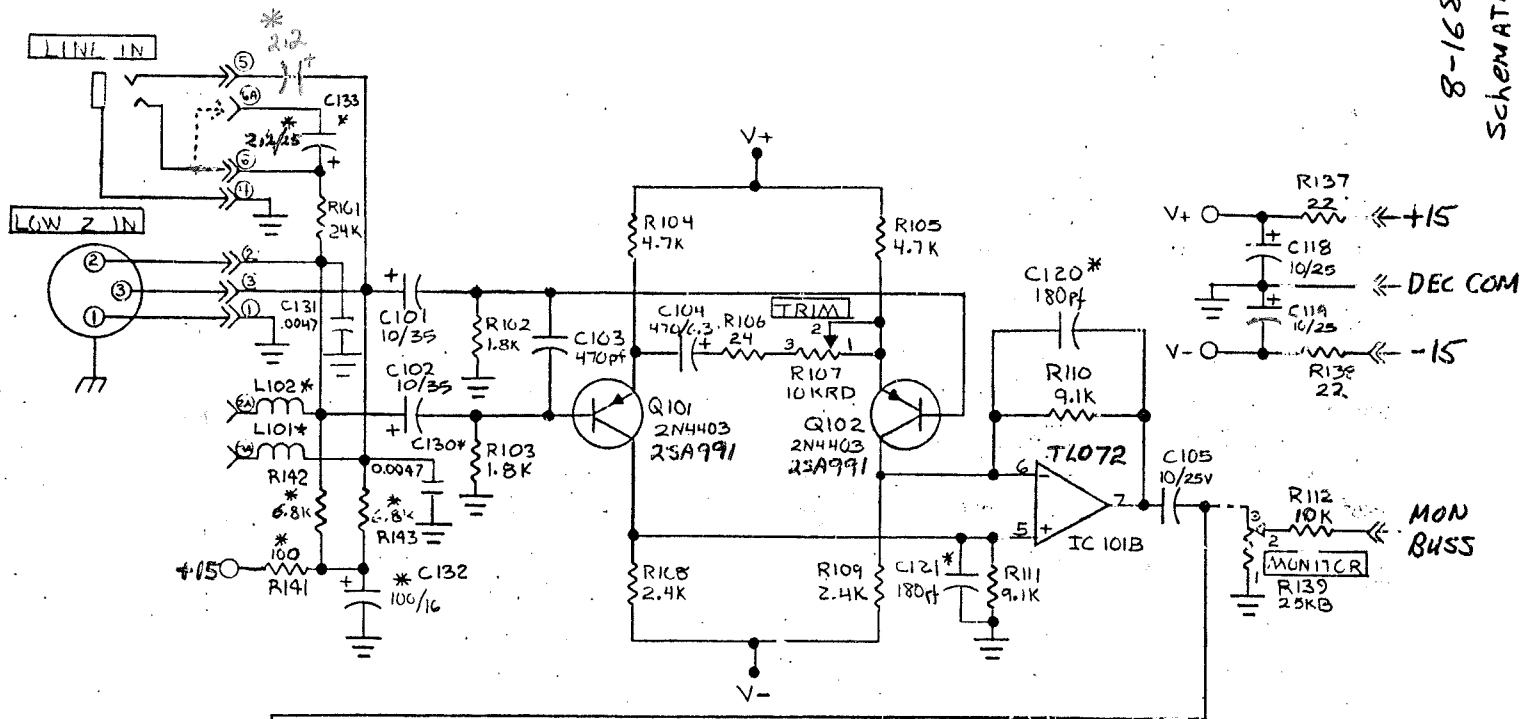
10074 SW Arctic Drive Beaverton, OR 97005 503-641-7287



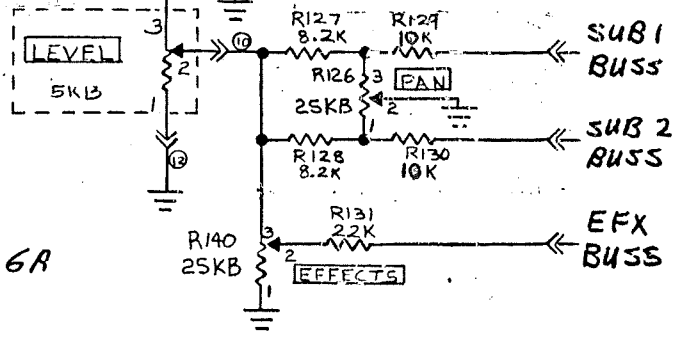
INPUT CHANNEL

- 01 YLR #1
- 02 YLR #2
- 03 YLR #3
- 04 LIVE IN SLEEVE
- 05 LINE IN RING
- 06 LINE IN TIP
- 07 EM. PATCH TIP
- 08 -M. PATCH RING
- 09 -M. PATCH SLEEVE

- PADR #2 11
- 10 Q103
- PADR #3 10 Q103
- C118
- PADR #1 12

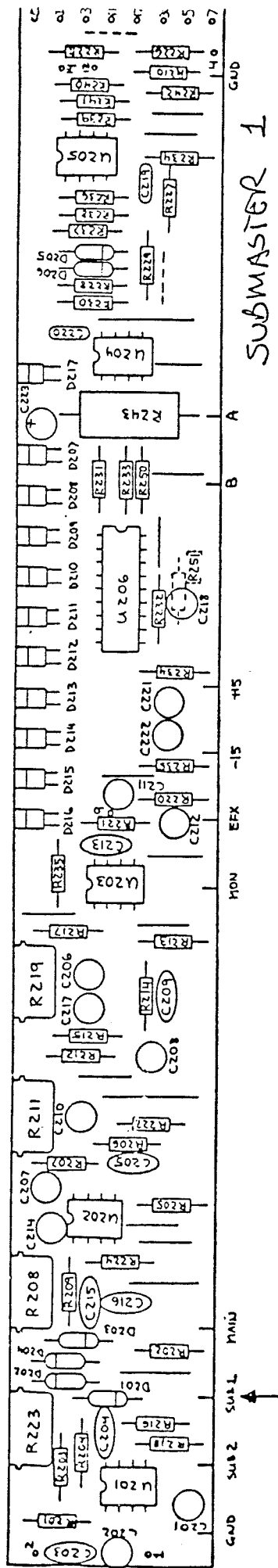


* OPTIONAL - NOT FACTORY INSTALLED
FOR PHANTOM POWER ADD:
 R141 100Ω
 R142 6.8KΩ
 R143 6.8KΩ
 C132 100uF/16V POLAR
 C133 2.2uF/25V NON POLAR
 MOVE LINE IN TIP LEAD FROM PAD 6 TO 6A



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



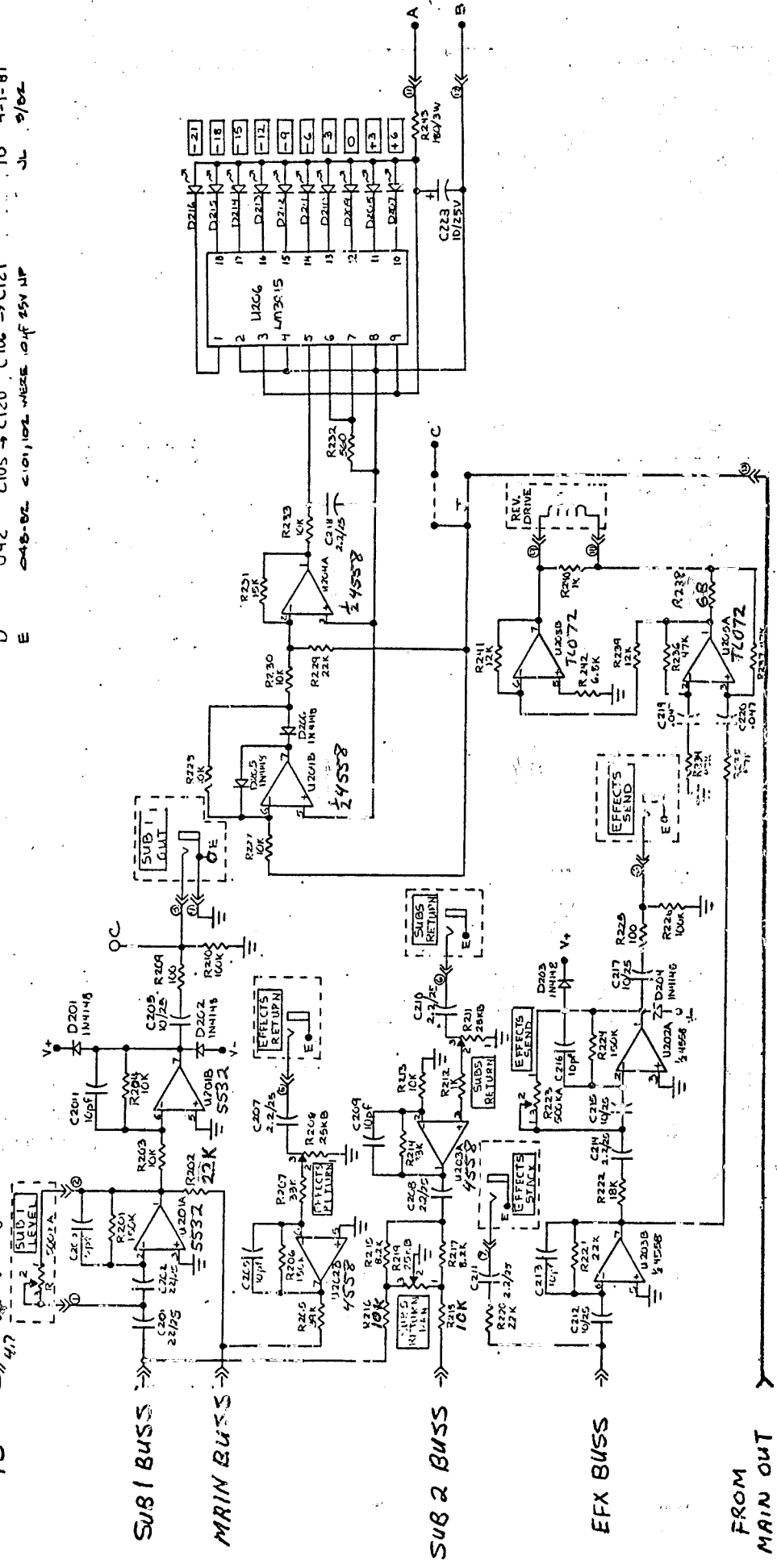
SUBMASTER 1

f/5
DEC GND
-15

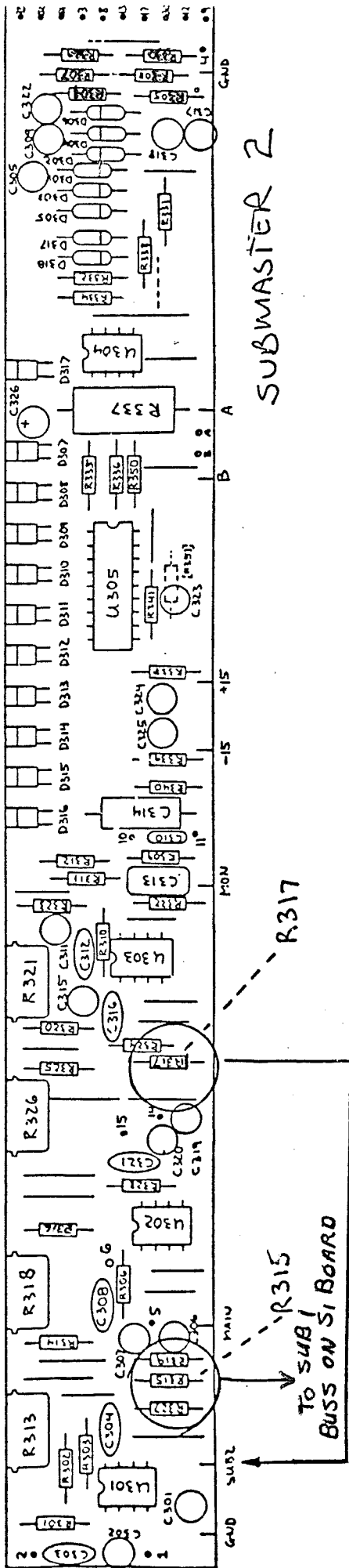
U201 WAS AN LF353
IN EARLY UNITS

REV	ECO	CHANGE	DATE
B	008	ADD C405, C406	1-29-f
C	029	R238 68 → 100	4-1-81
D	042	C105 → C120 C106 → C121	4-1-81
E	048-02	C101, 102 WERE 104F 55V NP	9/06

SUB 1 ASSY.



8-1683 SUB 1 SCHEMATIC



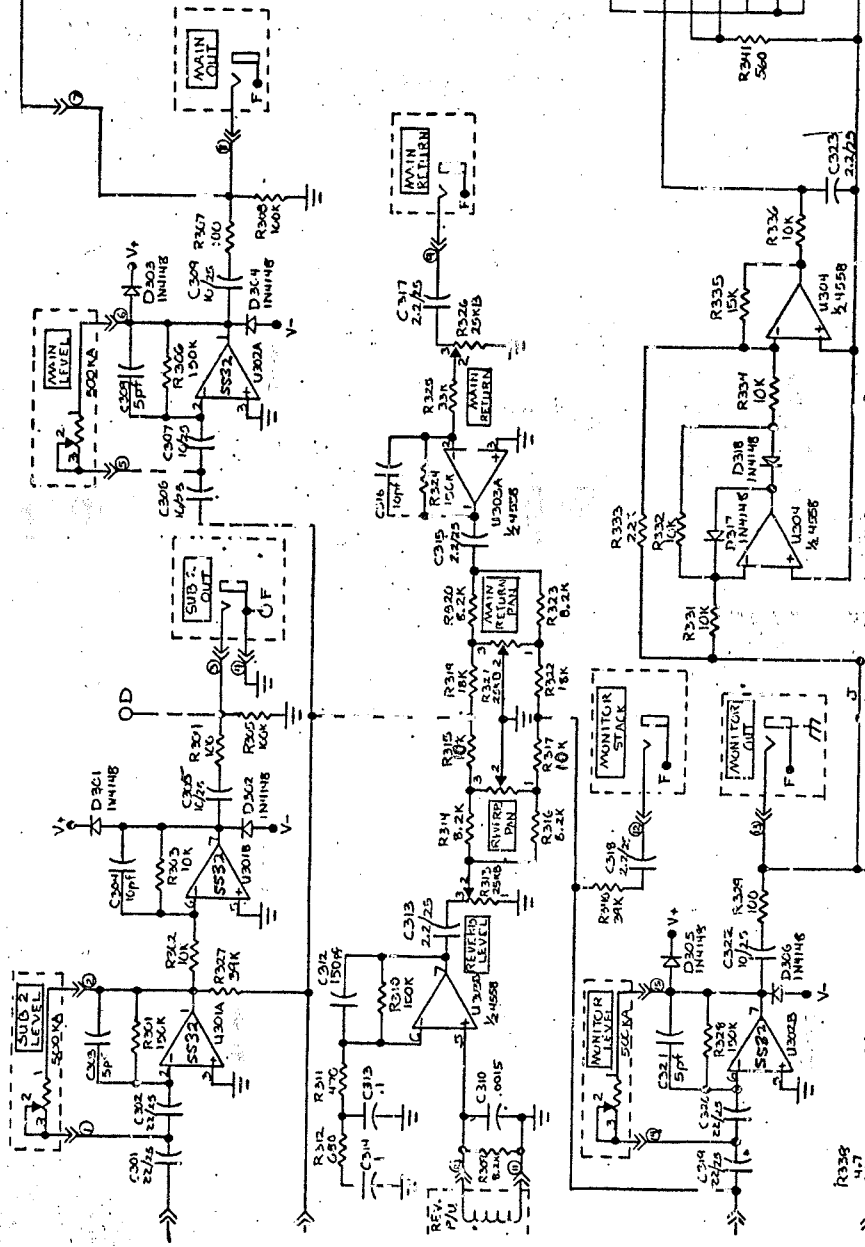
SUBMASTER 2

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

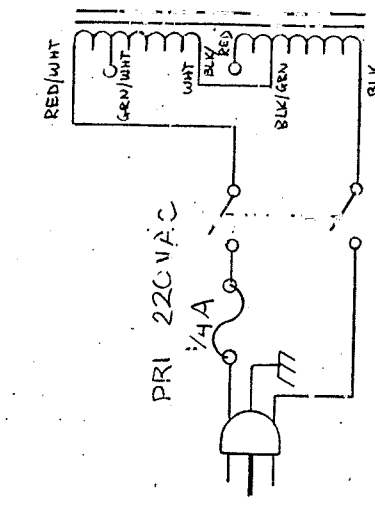
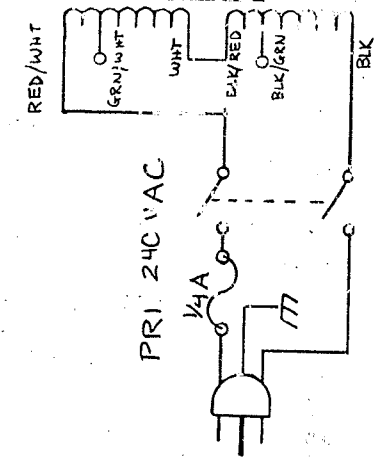
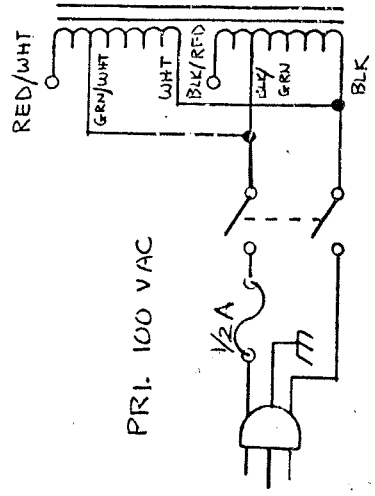
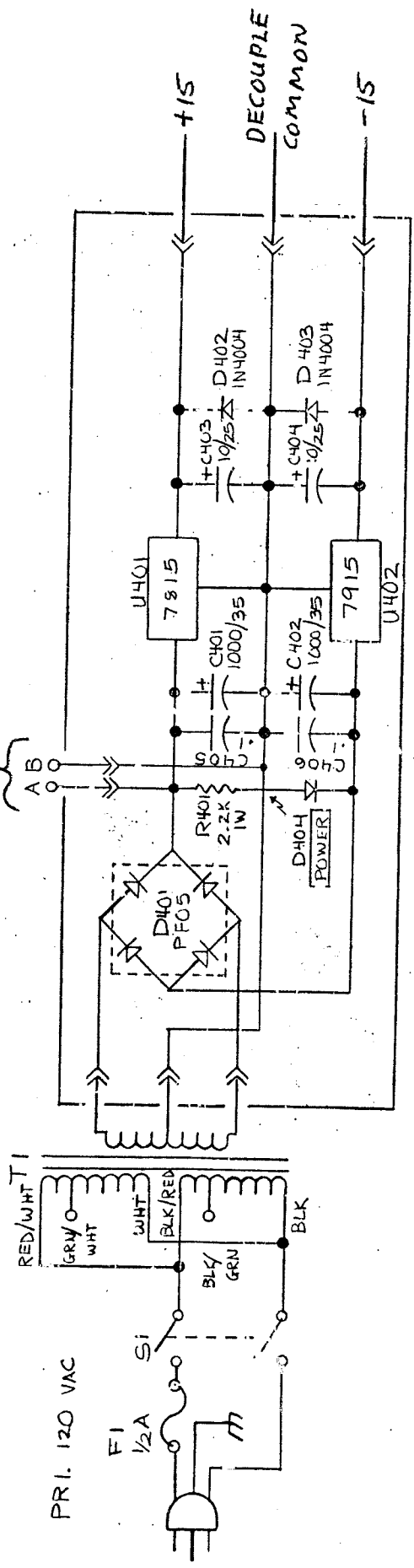
-15

CONTRACT NO.		8-16 83 SERIES SUB 2	
DATE	12/78	SCALE	
APPROVALS	TD	SIZE	10-11-71
CHECKED		DWG. NO.	
DESIGNED		REV	E
		SHEET	1

Rev B 1-24-81 TD

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

To L.E.D. DISPLAYS



8-1683
POWER SUPPLY
SCHEMATIC

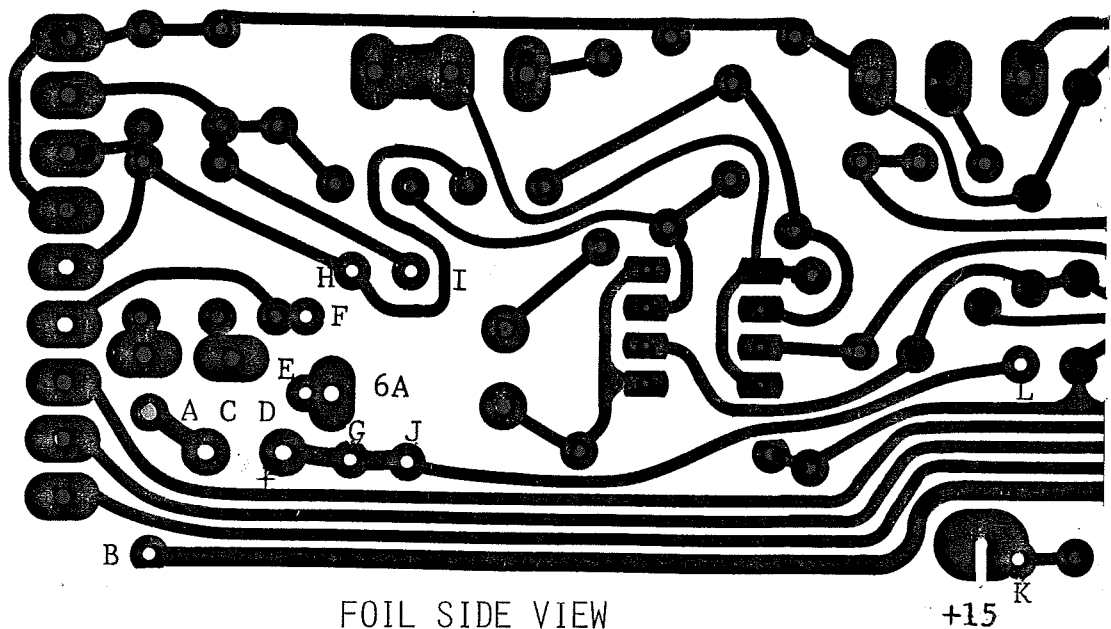
83 SERIES PHANTOM POWER CONVERSION

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

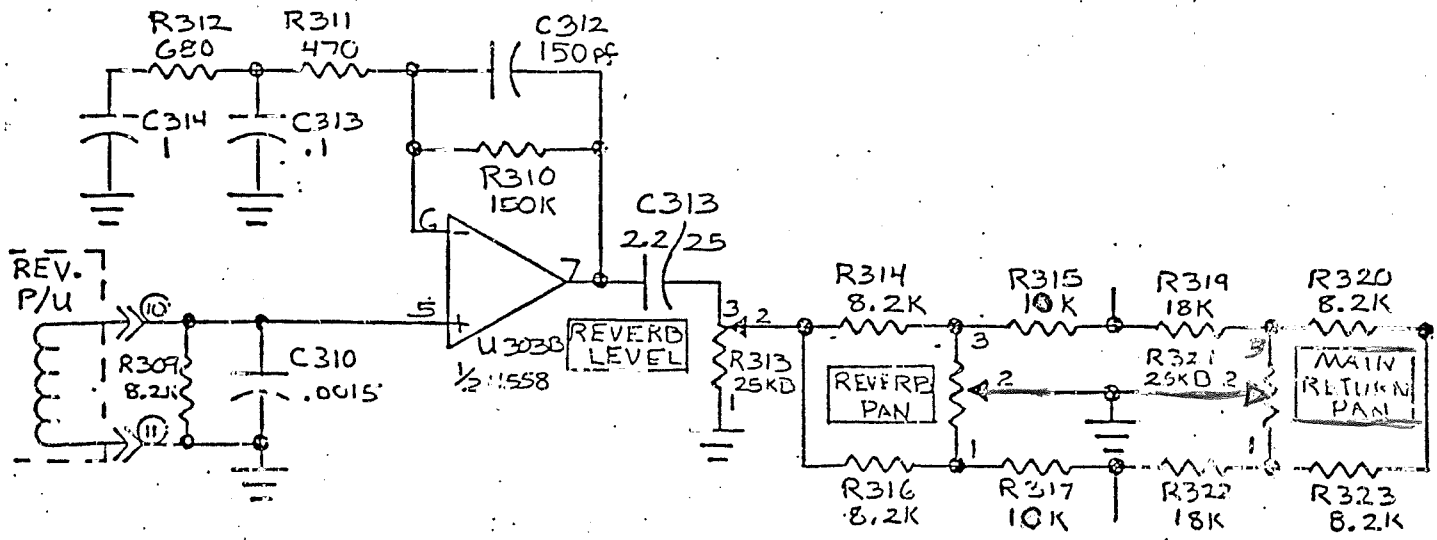
+15 K

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

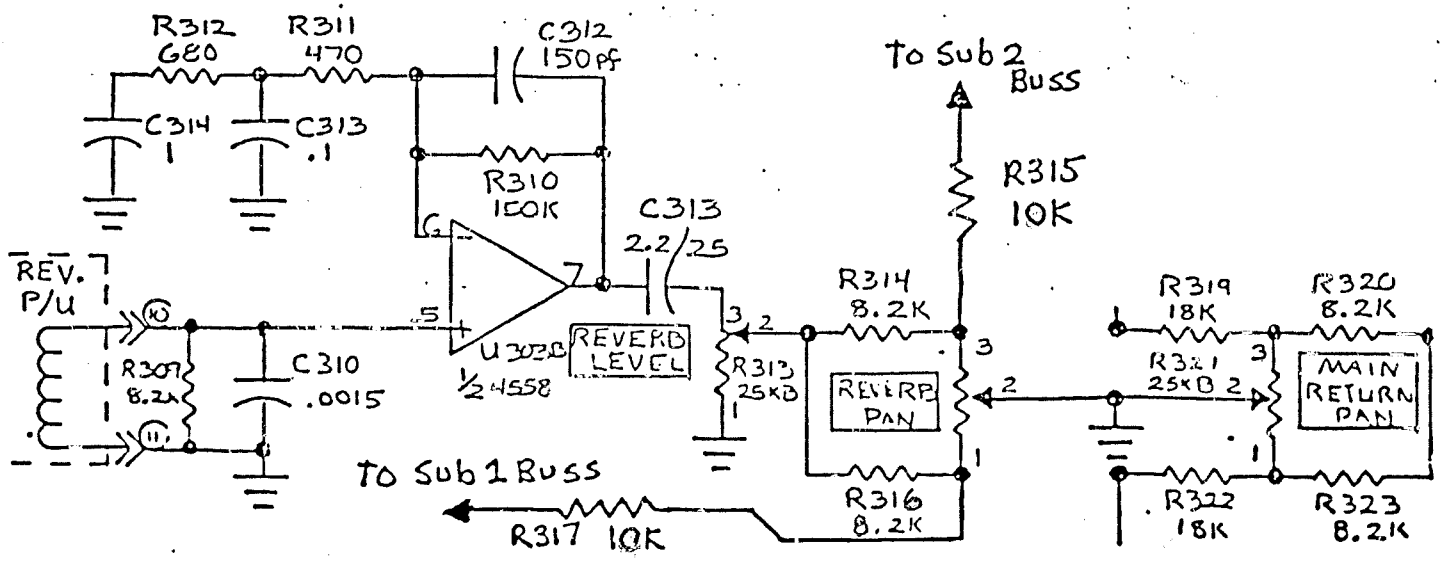
(See page two)

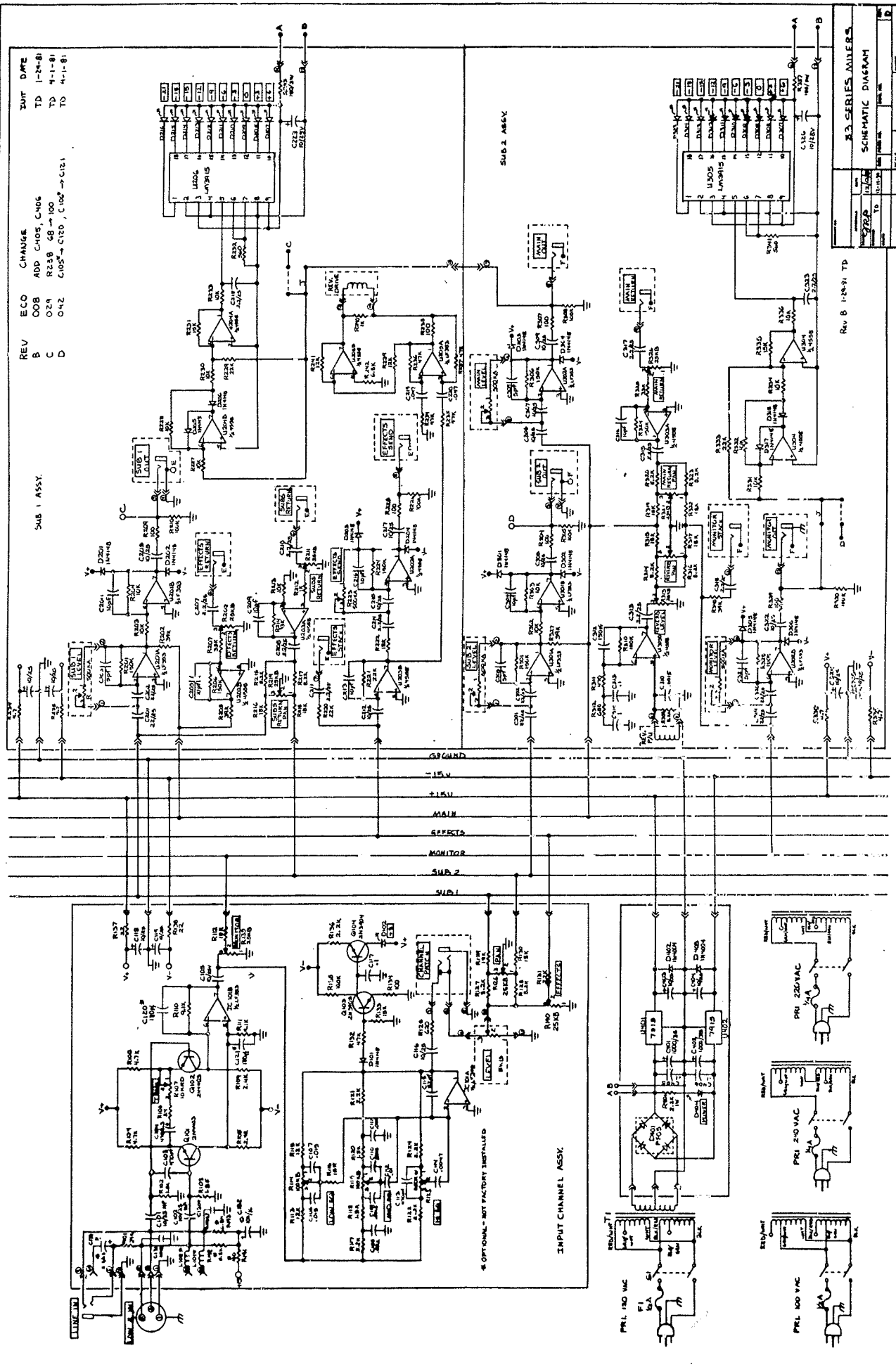
- 1. Desolder R 315 from the main buss.
- 2. Desolder R 317 from the monitor buss.
- 3. Attach sufficient wire length to R315 to reach sub 2 Buss.
- 4. Attach sufficient wire length to R317 to reach sub 1 buss.
- 5. RTV glue the two resistors to the circuit board.

CHANGE FROM:



CHANGE TO:





REV ECO CHANGE

B	DOB	ADD C-105, C-106
C	OZ-1	R238 68 → 100
D	O-12	C105 → C120, C106 → C121

SUB 1 ASSY.

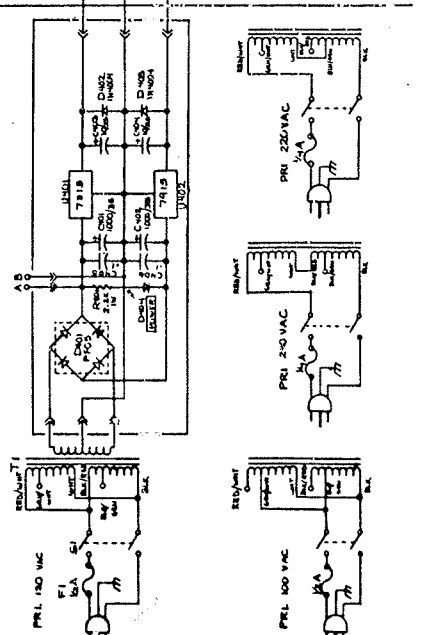
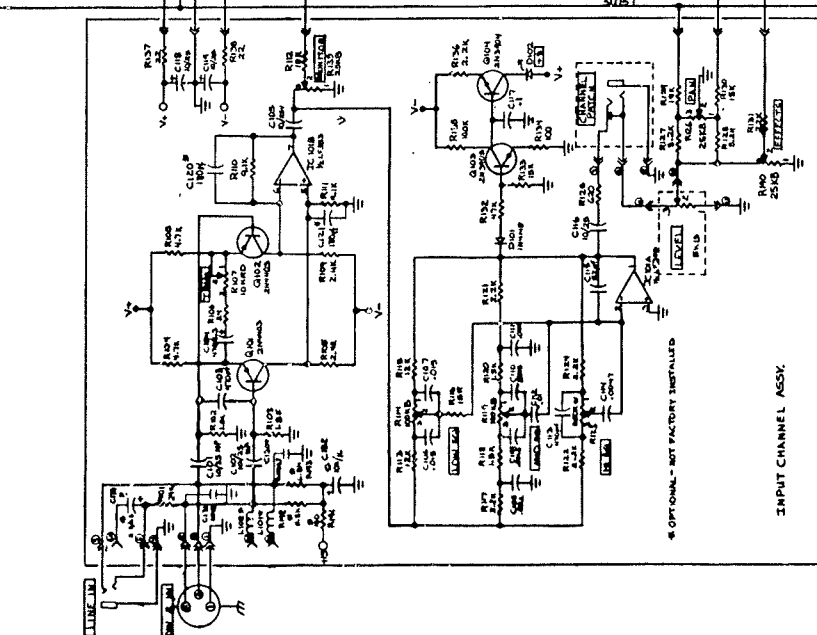
SUB 2 ASSY

Rev B 1-24-71 TP

REVISIONS

NO.	DATE	BY	CHKD	DESC.
1	1-24-71
2
3
4
5
6
7
8
9
10

SCHEMATIC DIAGRAM



OPTIONAL - NOT FACTORY INSTALLED

INPUT CHANNEL ASSY