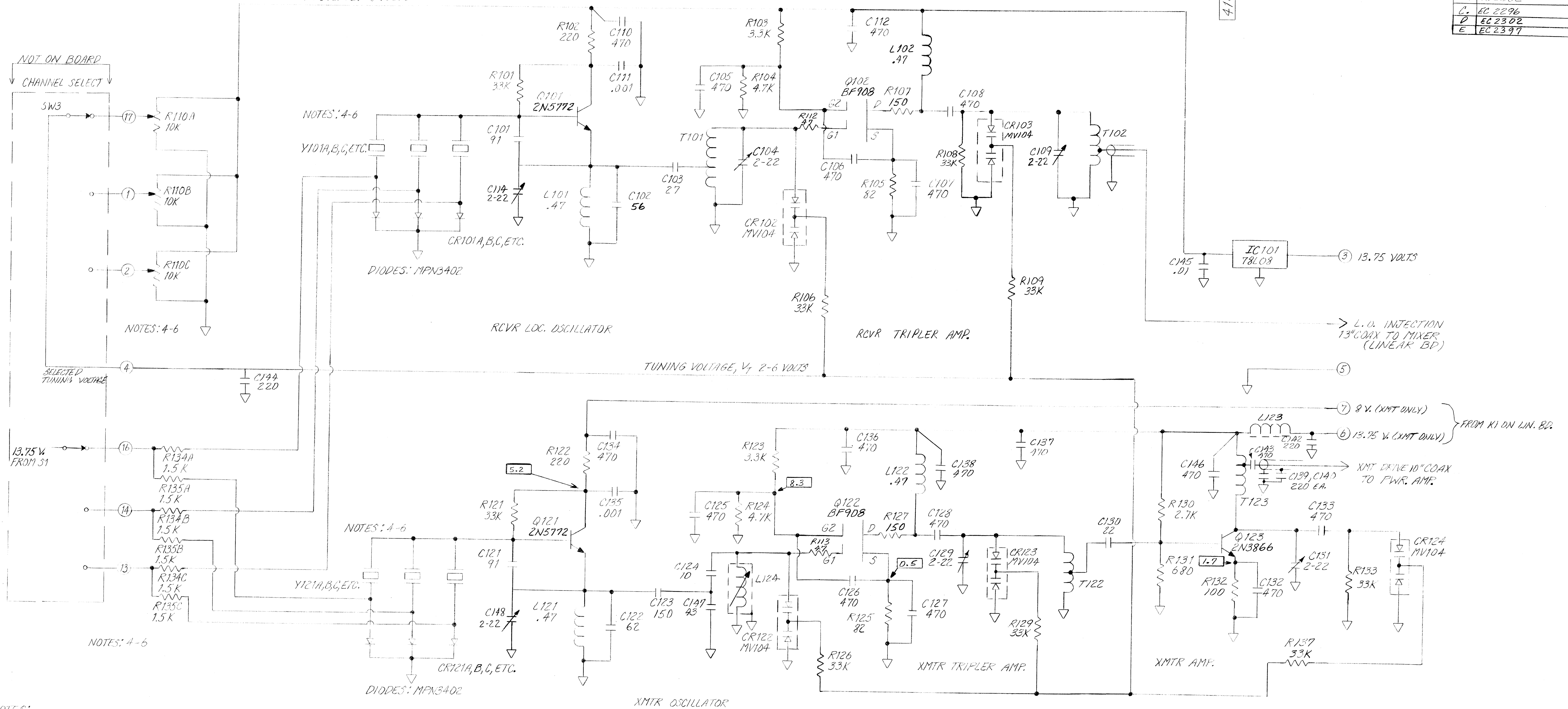


LET.	CHANGES	DATE
A.	REDRAWN & REVISED	8-1-82
	WORK DRAWING NO. 3101163	
B.	EC 2282	8-5-85
C.	EC 2296	8-27-86
D.	EC 2302	3-6-87
E.	EC 2397	6-27-00

REGULATED 8 VOLTS



NOTES:

- ALL RESISTANCES IN OHMS (K= 1000 OHMS); ALL 1/4 WATT, UNLESS OTHERWISE STATED.
A. LAST ASSIGNED: R110 + R137
B. NOT ASSIGNED: R128
- CAPACITOR VALUES: WHOLE NUMBERS ARE PICOFARADS, DECIMAL VALUES ARE MICROFARADS.
A. LAST ASSIGNED: C113 + C147
B. NOT ASSIGNED:
- ALL INDUCTANCES ARE IN MICROHENRIES.
- AN M15 MAY HAVE FROM ONE TO SIX CHANNELS. THIS SCHEMATIC SHOWS THREE CHANNELS. FOR EACH CHANNEL THERE ARE: ONE LOCAL OSCILLATOR, ONE XTMR OSCILLATOR, CRYSTAL, TWO MIXER RF SWITCHING DIODES, ONE 10K TRIMMER POTENTIOMETER, TWO 1.5K RESISTORS.

- 10K POTENTIOMETERS SET TUNING VOLTAGE (Vt) FOR EACH CHANNEL. Vt DETERMINES CAPACITY OF MV104 VARIATORS IN TUNED CIRCUITS OF TRIPLER AMPLIFIERS, XMTR AMPLIFIERS, AND RECEIVER RF AMPLIFIER ON OTHER M15 PC BOARD.

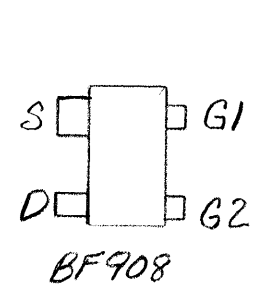
6. SEE DRAWING 210D804 FOR CRYSTAL SPECIFICATIONS.

7. NUMBERS IN CIRCLES ARE P101 PIN NUMBERS.

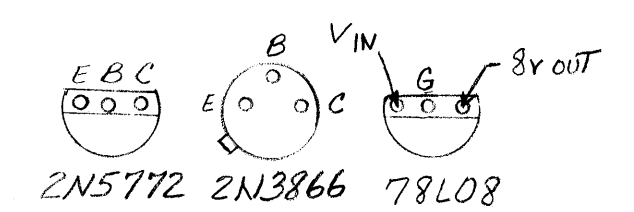
8. D.C. VOLTAGES

P101 WIRING TABLE			
PIN	COLOR	TO	FUNCTION
1	BRN	SW3-	TUNING VOLTAGE, CHAN. 2
2	RFI	SW3-	TUNING VOLTAGE, CHAN. 3
3	BRN/GRN	SW1	SWITCHED 13.75 VOLTS
4	RFI, YEL	SW3-	SELECTED TUNING VOLTAGE
5	GRN, GRN	VOL. CONT. LOW	LOW-LEVEL GROUND
6	YEL	P2-7	UNMOD. 13.75 VOLTS (XMTR)
7	GRN	P2-18	8 VOLTS IN XMTR
8	NC	NOT USED	
9	NC	NOT USED	
10	NC	NOT USED	
11	BLU	SW3-	CRYSTAL SELECT, CHAN. 6
12	YIO	SW3-	CRYSTAL SELECT, CHAN. 5
13	GRY	SW3-	CRYSTAL SELECT, CHAN. 3
14	WHT	SW3-	CRYSTAL SELECT, CHAN. 2
15	BLK	SW3-	CRYSTAL SELECT, CHAN. 4
16	BRN	SW3-	CRYSTAL SELECT, CHAN. 1
17	RED	SW3-	TUNING VOLTAGE, CHAN. 1
18	GRN	SW3-	TUNING VOLTAGE, CHAN. 6
19	YEL	SW3-	TUNING VOLTAGE, CHAN. 4
20	GRN	SW3-	TUNING VOLTAGE, CHAN. 5

TOP VIEW



BOTTOM VIEWS



MENTOR RADIO COMPANY
WILLOUGHBY, OHIO

SCALE: NONE	APPROVED BY	DRAWN BY: J.W. SOKRATES
DATE: AUG 27, 1982	B.A. BEIDFORD	
SCHEMATIC, OSCILLATOR/MULTIPLIER BOARD MODEL M15		
DRAWING NUMBER 4101163		