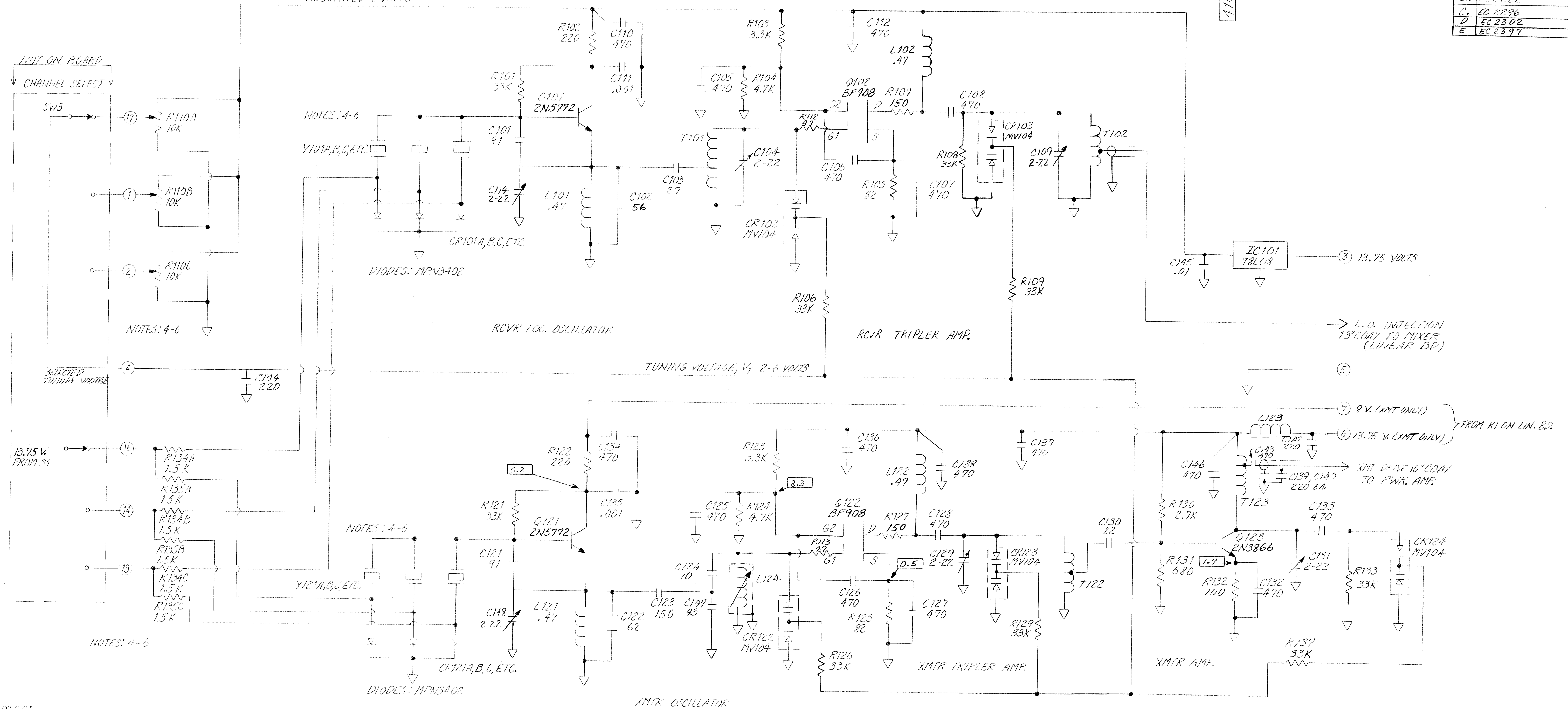


LET.	CHANGES	DATE
A.	REDRAWN & REVISED	8-1-82
	WORK DRAWING NO. 3101163	
B.	EC 2282	8-5-85
C.	EC 2296	8-27-86
D.	EC 2302	3-6-87
E.	EC 2397	6-27-00

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 XMTR OSCILLATOR, CRYSTAL, TWO MIXER/RF SWITCHING DIODES, ONE 10K TRIMMER POTENTIOMETER, TWO 1.5K RESISTORS.

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

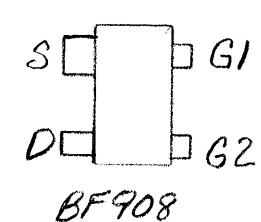
- SEE DRAWING 210D804 FOR CRYSTAL SPECIFICATIONS.

- NUMBERS IN CIRCLES ARE P101 PIN NUMBERS.

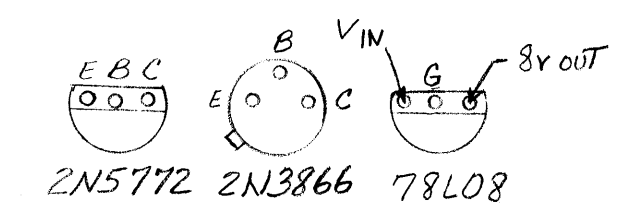
- D.C. VOLTAGES

P101 WIRING TABLE			
PIN	COLOR	TO	FUNCTION
1	BRN	SW3-	TUNING VOLTAGE, CHAN.2
2	RFL	SW3-	TUNING VOLTAGE, CHAN.3
3	BRN/GRN	SW1	SWITCHED 13.75 VOLTS
4	RFL/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	VIO	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	RFL	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		