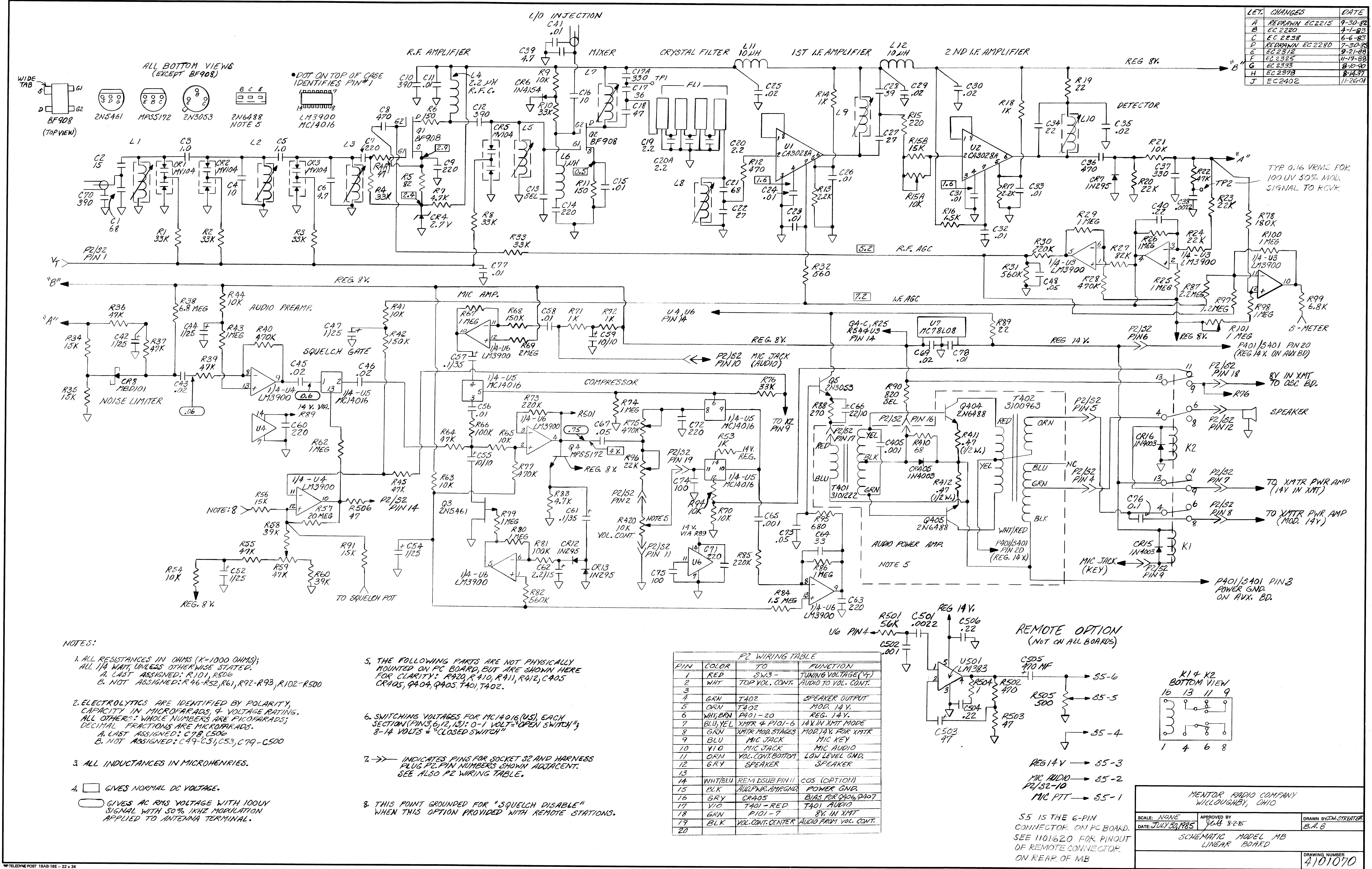


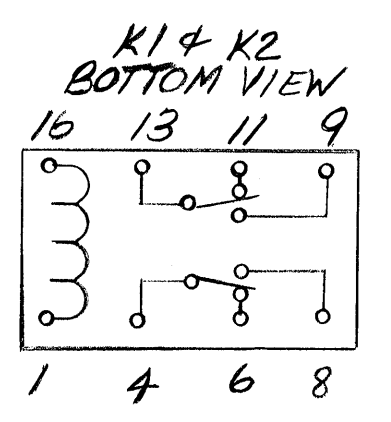
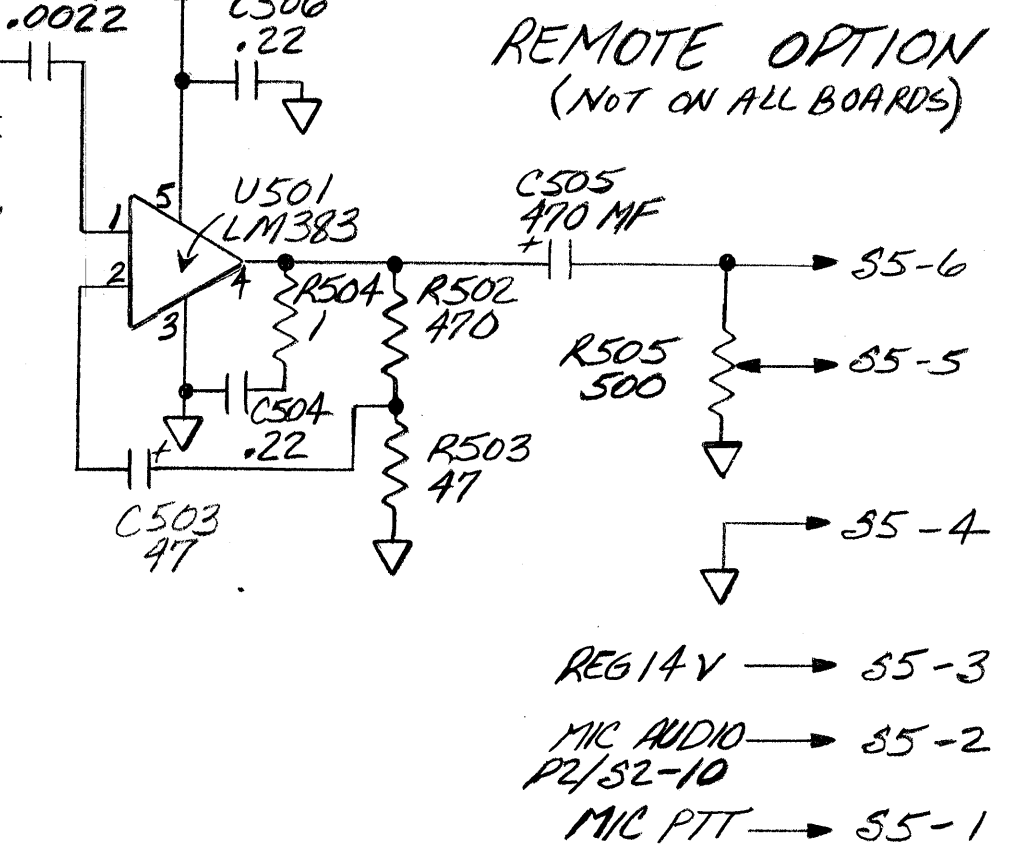


LET.	CHANGES	DATE
A	REDRAWN EC2215	9-30-82
B	EC 2220	1-1-83
C	EC 2238	6-6-83
D	REDRAWN EC2280	7-30-83
E	EC 2312	9-21-88
F	EC 2325	11-17-88
G	EC 2333	8-10-90
H	EC 2378	8-14-97
J	EC 2402	11-26-01

- NOTES:
- ALL RESISTANCES IN OHMS (K=1000 OHMS); ALL 1/4 WATT, UNLESS OTHERWISE STATED.
A. LAST ASSIGNED: R101, R506
B. NOT ASSIGNED: R46-R52, R61, R92-R93, R102-R500
 - ELECTROLYTICS ARE IDENTIFIED BY POLARITY, CAPACITY IN MICROFARADS, & VOLTAGE RATING. ALL OTHERS: WHOLE NUMBERS ARE PICOFARADS; DECIMAL FRACTIONS ARE MICROFARADS.
A. LAST ASSIGNED: C78, C506
B. NOT ASSIGNED: C49-C51, C53, C79-C500
 - ALL INDUCTANCES IN MICROHENRIES.
 - GIVES NORMAL DC VOLTAGE.
 - GIVES AC RMS VOLTAGE WITH 100V SIGNAL WITH 50% 1KHZ MODULATION APPLIED TO ANTENNA TERMINAL.

- THE FOLLOWING PARTS ARE NOT PHYSICALLY MOUNTED ON PC BOARD, BUT ARE SHOWN HERE FOR CLARITY: R420, R410, R411, R412, CA05, CR405, Q404, Q405, T401, T402.
- SWITCHING VOLTAGES FOR MC14016 (US), EACH SECTION (PINS 3, 6, 12, 13): 0-1 VOLT = "OPEN SWITCH"; 8-14 VOLTS = "CLOSED SWITCH"
- INDICATES PINS FOR SOCKET S2 AND HARNESS PLUG P2. PIN NUMBERS SHOWN ADJACENT. SEE ALSO P2 WIRING TABLE.
- THIS POINT GROUNDED FOR "SQUELCH DISABLE" WHEN THIS OPTION PROVIDED WITH REMOTE STATIONS.

P2 WIRING TABLE			
PIN	COLOR	TO	FUNCTION
1	RED	SW3 -	TUNING VOLTAGE (V)
2	WHT	TOP VOL. CONT.	AUDIO TO VOL. CONT.
3			
4	GRN	T402	SPEAKER OUTPUT
5	ORN	T402	MOD. 14V.
6	WHT/BRN	PA01-20	REG. 14V.
7	BLU/YEL	XMTR & P101-6	14V IN XMTR MODE
8	GRN	XMTR MOD. STAGES	MOD. 14V. FOR XMTR
9	BLU	MIC JACK	MIC KEY
10	VIO	MIC JACK	MIC AUDIO
11	ORN	VOL. CONT. BOTTOM	LOW LEVEL GND.
12	GRY	SPEAKER	SPEAKER
13			
14	WHT/BLU	REM. DSUB PIN 11	COS (OPTION)
15	BLK	AUD. PWR. AMP. GND.	POWER GND.
16	GRY	CA005	BIAS FOR Q406, Q407
17	VIO	T401 - RED	T401 AUDIO
18	GRN	P101-7	8V IN XMTR
19	BLK	VOL. CONT. CENTER	AUDIO FROM VOL. CONT.
20			



MENTOR RADIO COMPANY WILLOUGHBY, OHIO	
SCALE: NONE	APPROVED BY:
DATE: JULY 30, 1985	DATE: 8-2-85
SCHEMATIC MODEL MB LINEAR BOARD	
DRAWING NUMBER 4101070	