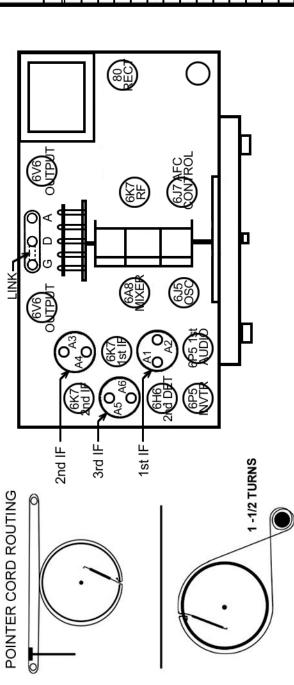
Milee Simpson



NO SIGNAL. MOTOR SWITCH UP. 117 VAC LINE VOLTAGE.	MOTOR E VOLTA	SWITCH AGE.	UP.
METER USED: 20,000 OHMS/VOLT.	D: 20,00	0 OHMS/∖	OLT.
TUBE	PLATE	SCREEN	САТН
6K7 RF	245	85	2.5
6A8 MIXER	245	85	2.5
6J5 OSC	140		0
6J7 CONTROL	200	85	4.4
6K7 1st IF	242	85	4.4
6K7 2nd IF	245	85	4.4
6H6 2 nd DET	0		
6P5 I st AF	150		9.2
6P5 INVERTER	150		9.2
6V6 OUTPUT	332	245	10
80 RECT	340 AC		0

MFD MFD MFD MFD MFD MMFC MMFC MMFC MMFC	.01 MFD 600V
- 0 8 4 6 9 C 8 6 C C C C C C C C C C C C C C C C C	C19

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C16 \(\bigstyre{\Pi} \)

A BAND ANTENNA

Viewed from front Tuning capacitor fully meshed Use fine cord

TUNING CORD ROUTING

SOL

RF & OSCILLATOR
ADJUSTMENT LOCATIONS
VIEWED FROM BOTTOM OF CHASSIS

200 OHM 1/4W	500 OHM 1/4W	1000 OHM 1/4W	2000 OHM 1/4W	5000 OHM 1/4 W	25K OHM 1/4W	50K OHM 1/4W	100K OHM 1/4W	200K OHM 1/4W	500K OHM 1/4W	1 MEGOHM 1/4W	3 MEGOHM 1/4W	40 K OHM 1/4W	25K OHM 1/2W	15K OHM 1W	VOLUME 500K	Tap@25K	200 OHM 2 W	
R 1	R2	R3	R4	R5	R6	R7	8 8	R9	R10	R11	R12		R14	R15	R16		R17	

MIDWEST CHASSIS 12-39

E PADDER

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C16 -

A PADDER - LOWER B PADDER - UPPER

C15 🔰 a

E TRIMMER

FRONT OF SET

OSCILLATOR

Redrawn January 23, 2021 Wile Simpoor

ALIGNMENT INSTRUCTIONS FOR MIDWEST CHASSIS 12-39, 17-39, 120 (12-40) & 170 (17-40)

- 1. Remove oscillator tube.
- 2. Connect high side of signal generator output to grid cap of mixer through .01uFD capacitor, low side to chassis.
- 3. Set Signal Generator for 456 KC, modulated output.
- 4. Connect volt meter to measure AC voltage at voice coil or DC voltage on AVC line.
- 5. Adjust IF trimmers A1 thru A5 for maximum output. Repeat several times using as low as possible output from Signal Generator. (A6 will be adjusted later)
- 6. Replace Oscillator tube.
- 7. Connect output of Signal Generator to antenna terminal through a 200 ohm resistor in parallel with a 10 MMFD capacitor.
- 8. Set MOTOR switch to the OFF position.
- 9. Set band switch to "A" band, receiver and generator to 1500 KC.
- 10. Adjust Oscillator Trimmer A, Antenna and RF trimmers A1 & A2 for Maximum.
- 11. Set Generator and receiver to 600 KC. Adjust Oscillator A Padder for maximum.
- 12. Repeat steps 9 thru 11 for proper tracking.
- 13. Set band switch to "B" band, receiver and generator to 4.1 MC.
- 14. Adjust Oscillator trimmer B and Antenna Trimmer B for Maximum.
- 15. Set Generator and receiver to 1.6 MC. Adjust Oscillator B Padder for maximum.
- 16. Repeat steps 13 thru 15 for proper tracking.
- 17. Set band switch to "C" band, receiver and generator to 12 MC.
- 18. Adjust Oscillator trimmer C and Antenna Trimmer C for Maximum.
- 19. Set band switch to "D" band, receiver and generator to 30 MC.
- 20. Adjust Oscillator trimmer D and Antenna Trimmer D for Maximum.

- 21. Set band switch to "E" band, receiver and generator to 350 KC.
- 22. Adjust Oscillator trimmer E and Antenna Trimmer E for Maximum.
- 23. Set Generator and receiver to 125 KC. Adjust Oscillator E Padder for maximum.
- 24. Repeat steps 21 thru 23 for proper tracking.

Automatic Frequency Control Adjustment

- 1. Set receiver band switch to Broadcast band A position.
- 2. Set the MOTOR switch to the OFF position.
- 3. Connect 5 Milliamp meter in series with 6J7, AFC Control Tube, cathode.
- 4. Adjust signal generator output to simulate an average radio signal at approximately 1000 KC and tune receiver to exact resonance of the signal generator.
- 5. Note reading on Milliamp meter.
- 6. Set MOTOR switch to the ON position.
- 7. Adjust IF trimmer A6 to obtain same reading on meter.

Trimmer A6 may require a touch-up using a station to assure proper AFC function.