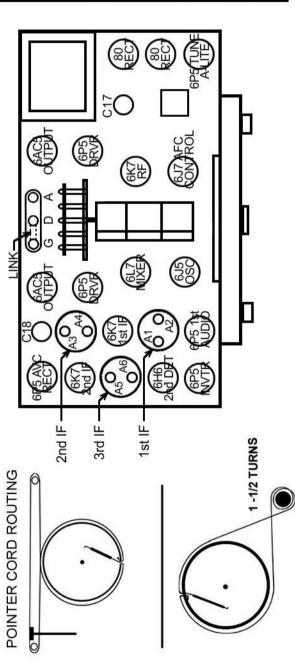
Redrawn January 23, 2021 *Mile Simpson*



	C1	.01 MFD 200V
	C5	.05 MFD 200V
	ខ	.25 MFD 200V
ND ON	2	.02 MFD 400V
ANA.	C2	.01 MFD 400V
	90	.25 MFD 400V
· C-	C2	.05 MFD 400V
-	8	10 MMFD MICA
<u></u>	ပ	25 MMFD MICA
	C10	100 MMFD MICA
-	C11	2000 MMFD MICA
	C12	3000 MMFD MICA
	C13	200 MMFD MICA
	C14	60 MMFD MICA
TOP	C15	OSC PADDER
ÉC	C16	TRIMMER ASSY
_	C17	24 MFD 500V
N F PADDER	C18	40 MFD 350V
	C19	1 MFD 100V
MER	C20	.01 MFD 600V

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Omb

80

C16 👆

C16

RF & OSCILLATOR
ADJUSTMENT LOCATIONS
VIEWED FROM BOTTOM OF CHASSIS

A BAND ANTENNA COIL

Viewed from front Tuning capacitor fully meshed Use fine cord

TUNING CORD ROUTING

OSCILLATOR

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C16 👃

A PADDER - LOWER B PADDER - UPPER

C15 1

- E TRIMMER

C16

FRONT OF SET

200 OHM 1/4W 500 OHM 1/4W	MHO 00	2000 OHM 1/4W	0000	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	50K OHM 1/2W	VOLUME 500K	Tap@25K	20000000000000000000000000000000000000	
R1	R3	R 4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16			

MIDWEST CHASSIS 17-39

Redrawn January 23, 2021
Wike Simpson

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.