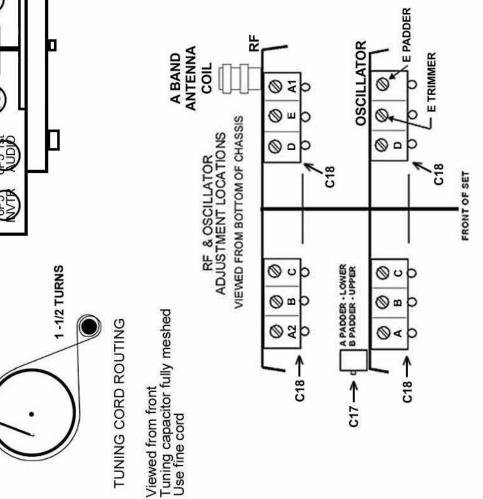
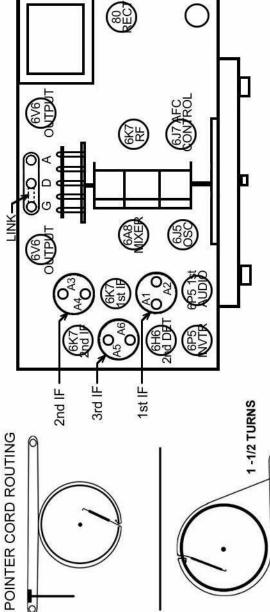


UP. Volti.	CATH	2.5	2.5	0	4.4	4.4	4.4		9.2	9.2	10	0		
SWITCH GE. 0 OHMS/	SCREEN CATH	85	85		85	85	85				245			
MOTOR IE VOLT/ ID: 20,00	PLATE	245	245	140	200	245	245	0	150	150	335	340 AC		
NO SIGNAL. MOTOR SWITCH UP. 117 VAC LINE VOLTAGE. METER USED: 20,000 OHMS/VOLT.	TUBE	6K7 RF	6A8 MIXER	6J5 OSC	6J7 CONTROL	6K7 1st IF	6K7 2nd IF	6H6 2 nd DET	6P5 I st AF	<b>6P5 INVERTER</b>	6V6 OUTPUT	80 RECT		

R2 500 OHM 1/4W   R3 1000 OHM 1/4W   R4 2000 OHM 1/4W   R5 5000 OHM 1/4W   R6 25K OHM 1/4W   R8 100K OHM 1/4W   R9 200K OHM 1/4W   R11 1/4W   R8 100K OHM 1/4W   R10 500K OHM 1/4W   R11 1 MEGOHM 1/4W   R13 40 K OHM 1/4W   R13 3 MEGOHM 1/4W   R14 25K OHM 1/4W   R15 3 MEGOHM 1/4W   R16 VOLUME 500K   R17 200 OHM 1/2W   R16 VOLUME 500K   R17 200 OHM 2 W	MIDWEST MIDWEST CHASSIS 120 (12-40) Redrawn January 23, 2021 <i>Milee Simpson</i>
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000000000000000000000000000000000000000	01 MFD 200V 05 MFD 200V		ß	01 MFD 400V	25 MFD 400V	03 MFD 200V	05 MFD 400V	0 MMFD MICA	5 MMFD MICA	00 MMFD MICA	000 MMFD MICA	000 MMFD MICA	00 MMFD MICA	500 MMFD MICA	50 MMFD MICA	OSC PADDER	<b>RIMMER ASSY</b>	0 MFD 400V	40 MFD 350V	20 MFD 25V	004 MFD 200V	01 MFD 600V
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## 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.