

OPERATING VOLTAGES

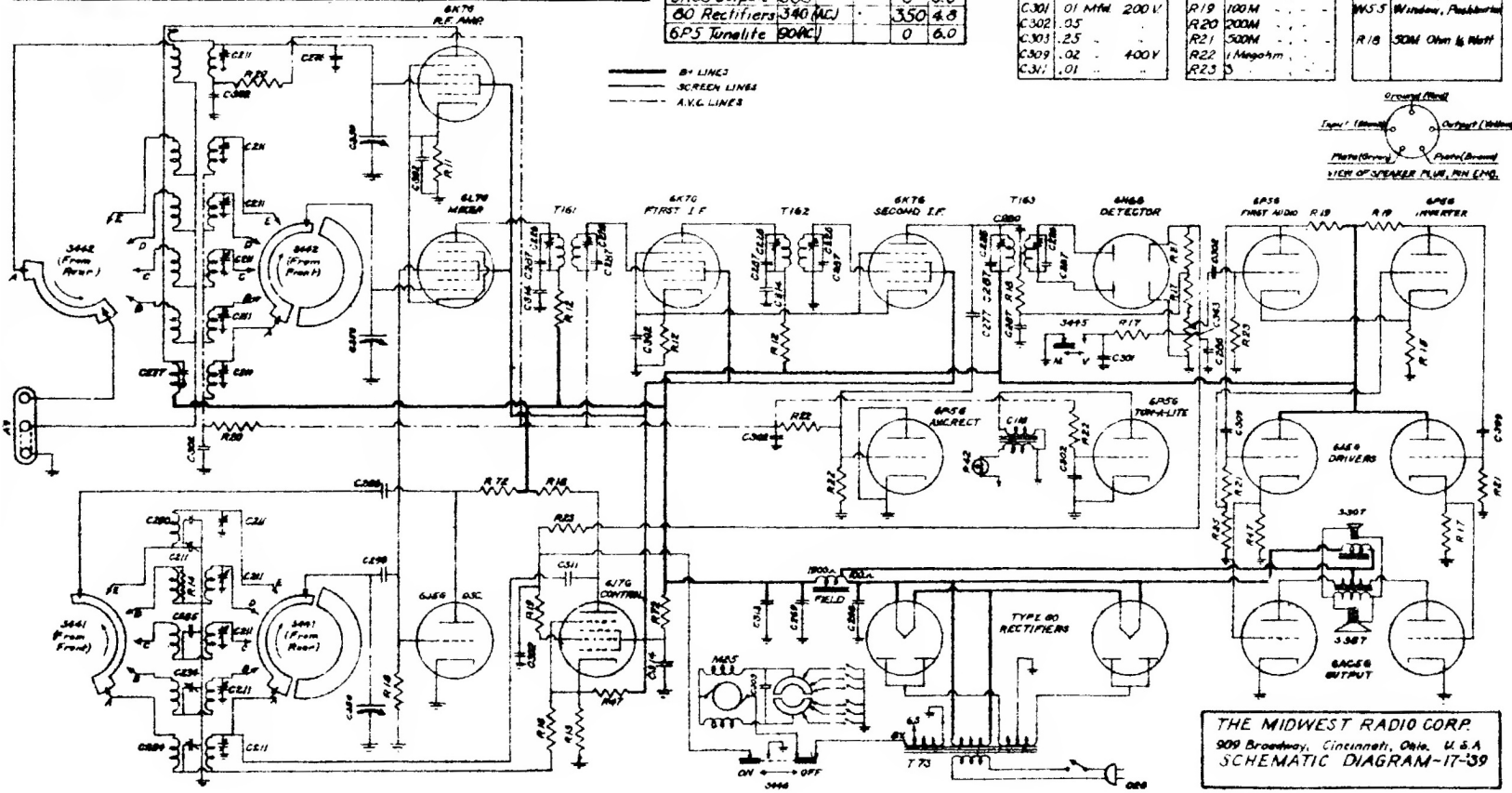
No Signal. Volume Control Turned Off. Motor Switch In Off Position. Line Voltage 117 Volts, 60 Cycles. Meter Used - 20000 Ohms per Volt.

TUBE	PLATE	SCREEN SUP.	CATH.	HEATER
6K7 R.F.	245	85	2.4	6.0
6L7 Mixer	245	85	2.4	6.0
6J5 Osc.	140		0	6.0
6J7 Control	200	85	4.4	6.0
6K7 1 st I.F.	245	85	4.4	6.0
6K7 2 nd I.F.	245	85	4.4	6.0
6PS AVC Rect.	0			6.0
6N6 2 nd Det.	0			6.0
6PS 1 st A.F.	150		9.2	6.0
6PS Inverter	150		3.2	6.0
6J5 Drivers	245		10	6.0
6AC5 Outputs	335		0	6.0
6Q Rectifiers	340 (AC)		350	4.8
6PS Tone-Lite	300AC		0	6.0

- A9 Antenna Strip
- B26 Brush Holder
- B27 Brush Clip
- B28 Brush Contact
- C26 Cable Plug, A.C.
- E116 Tune-It Trans.
- G46 Commutator Dish
- G46 Commutator Springs
- G226 J-Gang Trimmer
- G226 I.F. Podder
- G234 Osc. Podder
- G260 ZAMFD. 300V.
- G269 40 MFD. 350V.
- G276 10 MMFD. Mica
- G277 25
- G280 100
- G285 2000
- G286 3000
- G287 200
- G290 60
- G301 01 MHD. 200V.
- G302 05
- G303 25
- G309 .02
- G311 .01

- C313 .25 Mfd 400V.
- C316 .05
- C330 3Gang Variable
- C363 Control, Volume, W/S
- C401 Fish Line Cord
- D3 Dial Background
- D4 Dial, Glass
- K24 Knob, 1 inch
- K25 Knob, 2 inch
- M25 Motor
- P9 Panel, Milled
- P42 Pilot Light 3.2V
- P46 Pilot Light 6-8V
- P59 Knob / Slide
- R11 200 Ohm, 1/2 Watt
- R12 500
- R13 1000
- R14 2000
- R15 5000
- R17 25000
- R19 100M
- R20 200M
- R21 500M
- R22 1 Megohm
- R23

- R23 10M Ohm, 1/2 W.
- R47 25M Ohm, 1/2 W.
- R49 15M
- R72 15M
- S307 Speaker, 3 1/2"
- S319 Spring, Dust Tin
- S327 Speaker, 12 in.
- S441 Coil Switch, Osc.
- S442 Coil Switch, R.F.
- S443 Switch Clicker
- S445 Tone Switch
- S446 Motor Switch
- T73 Power Transformer
- T161 1st I.F. Trans.
- T162 2nd I.F. Trans.
- T163 3rd I.F. Trans.
- W51 Window, Tuning
- W52 Window, Volume
- W53 Window, Motor
- W54 Window, Tone
- W55 Window, Pushbutton
- R18 50M Ohm 1/2 Watt

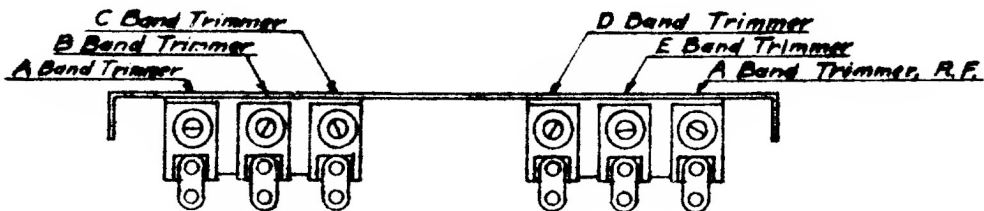


THE MIDWEST RADIO CORP.
 909 Broadway, Cincinnati, Ohio, U.S.A.
SCHEMATIC DIAGRAM-17-139

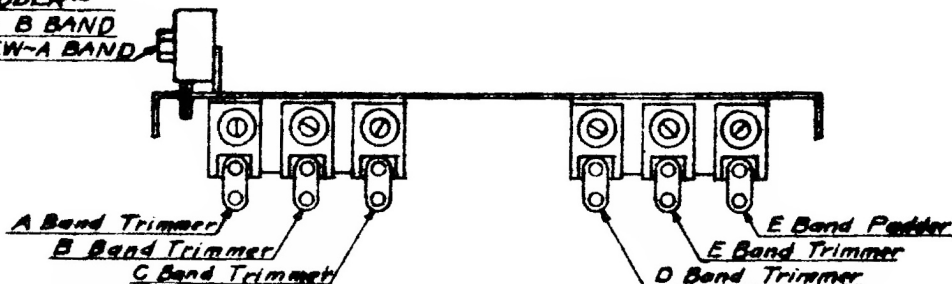
The Midwest Radio Corp. Model 17-139

The Midwest Radio Corp. Models 12 & 17 1939 Trimmers and Padders

MIXER PLATE



C234 DUAL PADDER~
TOP SCREW ~ B BAND
BOTTOM SCREW~A BAND



	<u>PAD</u>	<u>TRIM</u>
	at	at
<u>A Band</u>	<u>550 - 1500 KC.</u>	
<u>B Band</u>	<u>1.5 - 4.2 MC.</u>	
<u>C Band</u>	<u>4.2 - 12 MC.</u>	
<u>D Band</u>	<u>12 - 30 MC.</u>	
<u>E Band</u>	<u>125 - 350 KC.</u>	

OSCILLATOR
PLATE

Instructions for Aligning
5 Band 1939 Midwest Sets.

FRONT of
SET

Remove the oscillator tube. Peak I.F.'s at 456 KC. for maximum gain, while AFC is off. Receive a signal from generator, turn on AFC. If tuning is disturbed, realign secondary side of AFC transformer. Re-adjust trimmer across the primary of the AFC transformer until maximum AFC voltage is developed. May be measured with voltmeter from cathode of 6J7 AFC control tube to ground.

- Band "A" 550 to 1500 KC. Padded at 550 KC. and trimmed at 1400 KC. R.F. and mixer trimmers should be adjusted at 1400 KC.
- Band "B" 1.5 to 4.2 MC. This band should be padded at 1.7 MC., and trimmed at 4.0 MC.
- Band "C" 4.2 to 12.0 MC. This band has a fixed padder and should be trimmed 11.0 MC.
- Band "D" covers from 12 MC to 30 MC. This band has a fixed padder and should be trimmed at 29 MC. Adjust R.F. and mixer trimmers for maximum gain at 29 MC.
- Band "E" covers from 125 to 350 KC. (long wave). This band should be padded at 135 KC. and trimmed at 340 KC.

A dummy antenna, consisting of a 200 ohm resistor and 10 mmfd. condenser in parallel, should be connected in series with output of signal generator.