

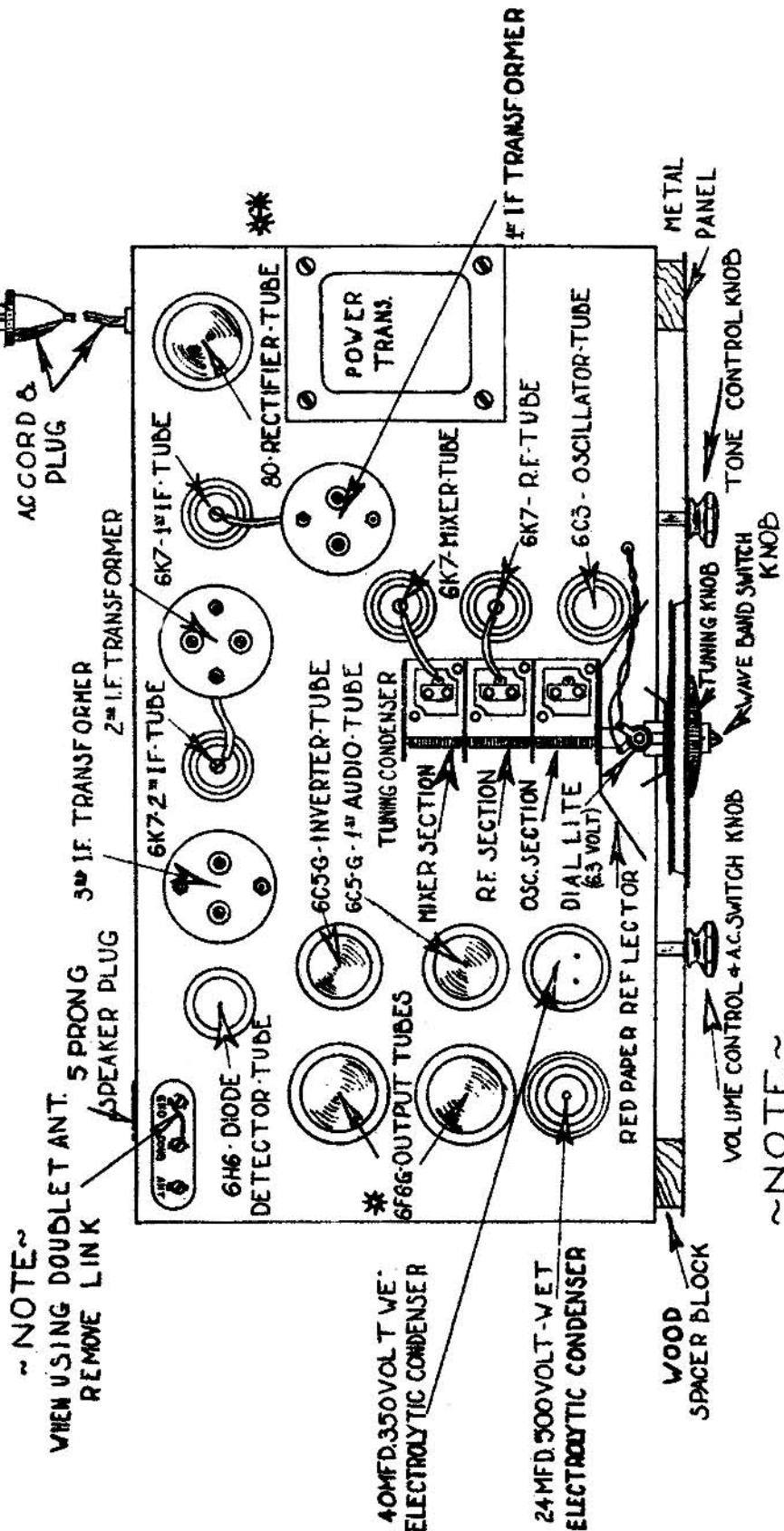
- NOTES:**
1. Resistor values in ohms, 1/2 Watt unless otherwise noted.
 2. Capacitors in MicroFarads unless otherwise noted.
 3. Unmarked RF & IF Trimmers are 35 mmf.
 4. Peak IF at 456 KC.

MIDWEST CHASSIS 11-37
 Revised May 28, 2015

Mike Simpson

110 VOLTS AC.
60 CYCLE

~ NOTE ~
WHEN USING DOUBLET ANT. 5 PRONG
SPEAKER PLUG
REMOVE LINK



40MFD.350VOLT WE.
ELECTROLYTIC CONDENSER

24MFD.500VOLT WE.
ELECTROLYTIC CONDENSER

~ NOTE ~

This chassis is shown equipped with the best tube combination available
* Metal, metal-glass, or glass counterpart tubes may be used. For example the output tubes shown are glass-counter part tubes numbered-6F6-G; metal glass tubes would be numbered 6F6-MG; and metal tubes would be numbered 6F6.
** Use only an 80 Rectifier tube.

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C1 35MMFD.TRIMMERS	C13 35 MMFD.TRIMMERS	C25 365 MMFD.TUNING COND.	C37 2000 MMFD. MICA	C49 .05MFD. 400VOLT
C2 " "	C14 " "	C26 " " " "	C38 3000 MMFD. "	C50 .25MFD. "
C3 " "	C15 " "	C27 " " " "	C39 .01 MFD. 200VOLT	C51 24.MFD.500VOLT WET ELEC
C4 " "	C16 I.F. "	C28 10 MMFD. MICA	C40 .05 MFD. "	C52 40.MFD.350VOLT " "
C5 " "	C17 " "	C29 75 MMFD. "	C41 " "	C53 750MMFD. MICA
C6 " "	C18 " "	C30 " "	C42 " "	C54 100 MMFD. "
C7 " "	C19 " "	C31 " "	C43 " "	C55 " "
C8 " "	C20 " "	C32 4 " "	C44 " "	C56 .25 MFD. 400VOLT
C9 " "	C21 " "	C33 " "	C45 " 400VOLT	C57 .05MFD "
C10 " "	C22 70 MMFD. PADDER	C34 " "	C46 " "	C58 500MMFD.MICA
C11 " "	C23 330MMFD. "	C35 250 MMFD. MICA	C47 " "	
C12 " "	C24 " "	C36 250MMFD. MICA } DUAL	C48 " "	

R1 3500HMS 2WATT FLEX.	R13 500.000 OHMS .25WATT
R2 500 OHMS .25WATT	R14 " "
R3 50000HMS "	R15 " "
R4 " "	R16 " "
R5 " "	R17 1MEGOHM
R6 " "	R18 3MEGOHM
R7 25000 OHMS "	R19 50000 OHMS .5WATT
R8 40,000OHMS "	R20 15,000 OHMS 2.WATT
R9 100,000OHMS "	R21 2,500 OHMS "
R10 " "	R22 500,000OHMS STONE CONT.
R11 " "	R23 500,000OHMS VOL. CONT.
R12 300,000 OHMS "	R24 25,000OHMS .5WATT

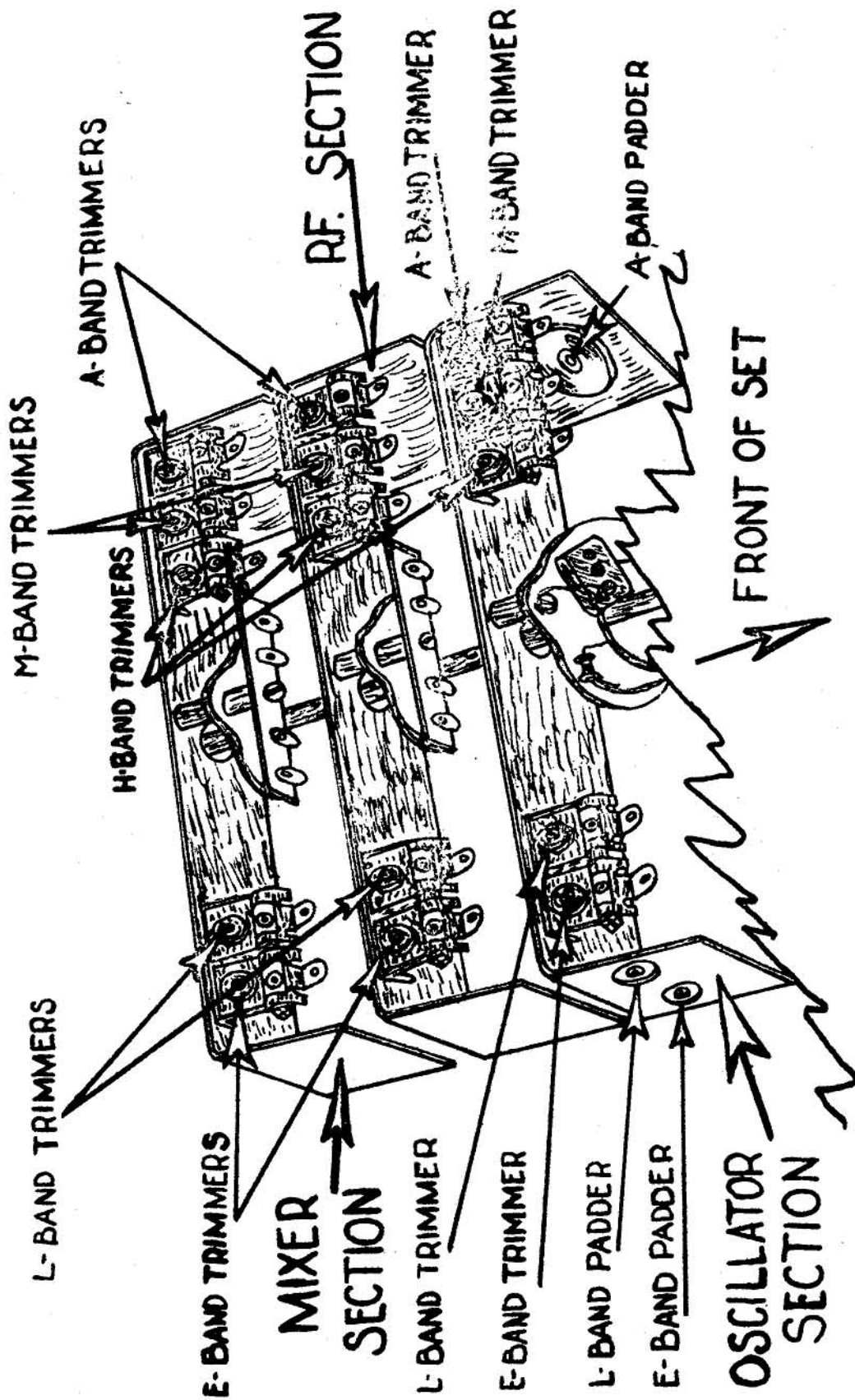
ALL TESTS MADE WITH NO SIGNAL INPUT

TYPE	POSITION	PLATE VOLTS	SCREEN VOLTS	SUPP. VOLTS	CATHODE VOLTS	FIL VOLTS
6K7	R.F.	245	60	0	0	5.7
6K7	Mixer	230	60	3.6	3.6	5.7
6K7	1st I.F.	220	60	0	0	5.7
6K7	2nd I.F.	220	60	0	0	5.7
6H6	2nd Det.	0	0	0	0	5.7
6C5	1st. A.F.	132	0	0	5.3	5.7
6C5	Phase Invertor	130	0	0	5.3	5.7
6F6	Output	300	250	0	19	5.7
6F6	Output	300	250	0	19	5.7
80	Rect.	315	0	0	0	4.6

LINE VOLTAGE 106 VOLTS A. C. 60 CYCLES B PLUS 250

1000 ohm per volt meter used on all D.C. measurements from ground. Voltages plus or minus 15% depending on line voltage.

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INSTRUCTIONS ON ALIGNING THE MIDWEST 11 TUBE 1936 RECEIVER

A good signal generator with accurate frequency calibration and an output meter are required. An intermediate frequency of 456 k.c. is used.

- (1) Set the signal generator to 456 k.c. and connect it from the mixer grid to ground.
- (2) Remove the oscillator tube from the receiver.
- (3) Connect the output tube meter from the plate of the output tube to positive B.
- (4) Using a moderately weak signal approximately 40 microvolts, align the three I.F. transformers to maximum output.
- (5) Keep decreasing the oscillator input and realigning for maximum gain.

This completes the alignment of the I.F. amplifier.

Insert the oscillator tube. Replace mixer grid lead. Connect the signal generator from antenna to ground.

- (1) Set the wave change switch to the "E" band.
 - (2) Set the signal generator to 325 k.c.
 - (3) Adjust the "E" oscillator trimmer to maximum gain, then adjust the "E" band R.F. and the "E" band mixer trimmers for maximum gain.
 - (4) Reset the signal generator to 135 k.c. and rotate the receiver dial to 135 k.c.
 - (5) Adjust the "E" band padder for maximum signal.
 - (6) Repeat the adjustment of trimmers and padders until the adjustment of one does not effect the adjustment of the other. This completes the alignment of the "E" band.
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- (1) Set the wave change switch to the "A" band.
 - (2) Set the signal generator to 1490 k.c.
 - (3) Adjust the "A" oscillator trimmer to maximum gain, then adjust the "A" band R.F. and the "A" band mixer trimmers for maximum gain.

MIDWEST
CHASSIS 11-37
Alignment instructions
Continued

- (3) Adjust the "A" oscillator trimmer to maximum gain, then adjust the "A" band R.F. and the "A" band mixer trimmers for maximum gain.
- (4) Reset the signal generator to 550 k.c. and rotate the receiver dial to 550 k.c.
- (5) Adjust the "A" band padder for maximum signal.
- (6) Repeat the adjustment of trimmers and padders until the adjustment of one does not effect the adjustment of the other.

This completes the alignment of the "A" band.

- (1) Set the wave change switch to the "L" band.
- (2) Set the signal generator to 3.8 m.c.
- (3) Adjust the "L" oscillator trimmer to maximum gain, then adjust the "L" band R.F. and the "L" band mixer trimmers for maximum gain.
- (4) Reset the signal generator to 1.6 m.c. and rotate the receiver dial to 1.6 m.c.
- (5) Adjust the "L" band padder for maximum signal.
- (6) Repeat the adjustment of trimmers and padders until the adjustment of one does not effect the adjustment of the other.

This completes the alignment of the "L" band.

- (1) Set the wave change switch to the "M" band.
- (2) Set the signal generator to 11.5 m.c.
- (3) Adjust the "M" oscillator trimmer to maximum gain, then adjust the "M" band R.F. and the band mixer trimmers for maximum gain.

This completes the alignment of the "M" band.

- (1) Set the wave change switch to the "H" band.
- (2) Set the signal generator to 28 m.c.
- (3) Adjust the "H" band oscillator trimmer to maximum gain, then adjust the "H" band R.F. and the "H" band mixer trimmers for maximum gain.

This completes the alignment of the "H" band.