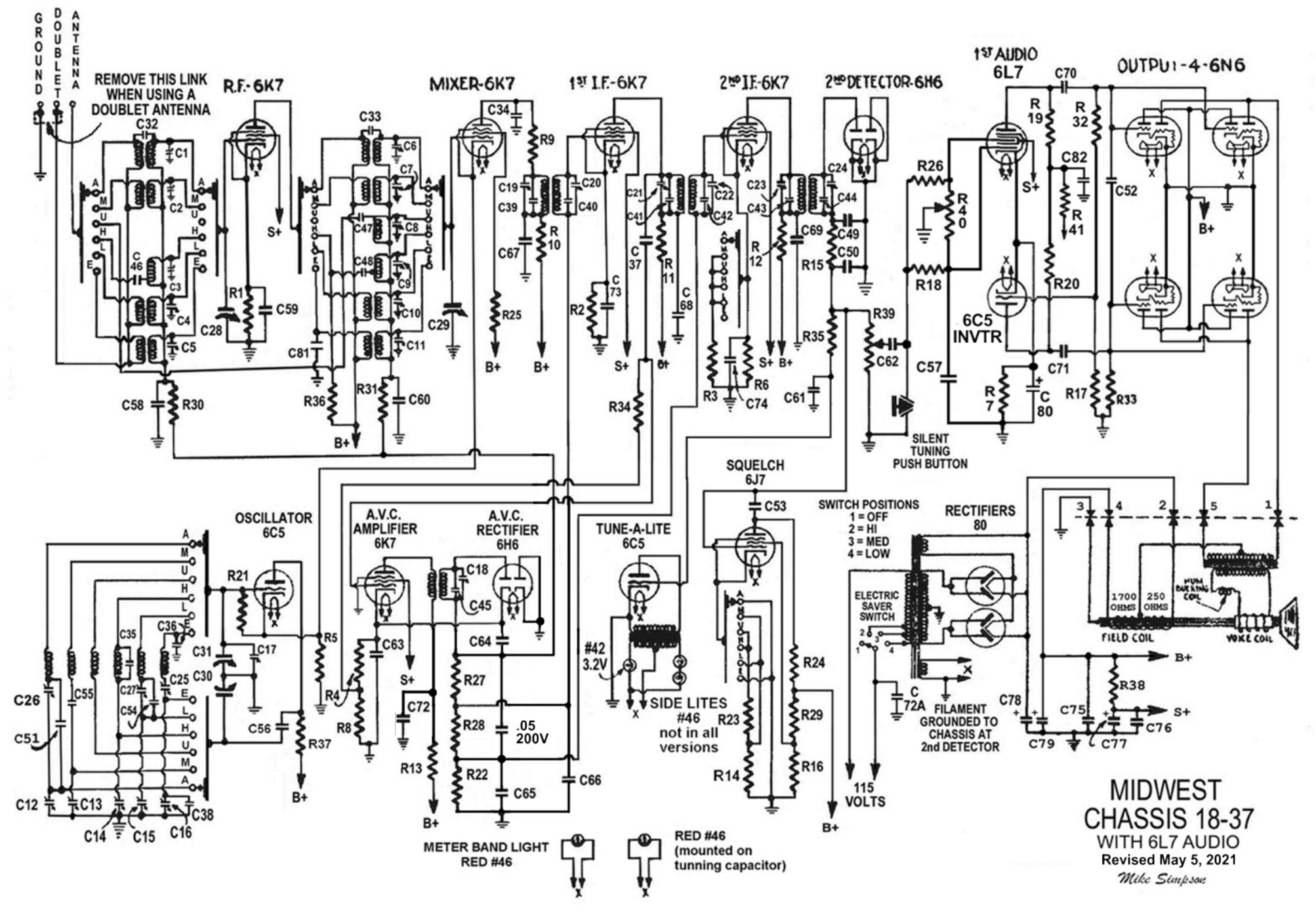
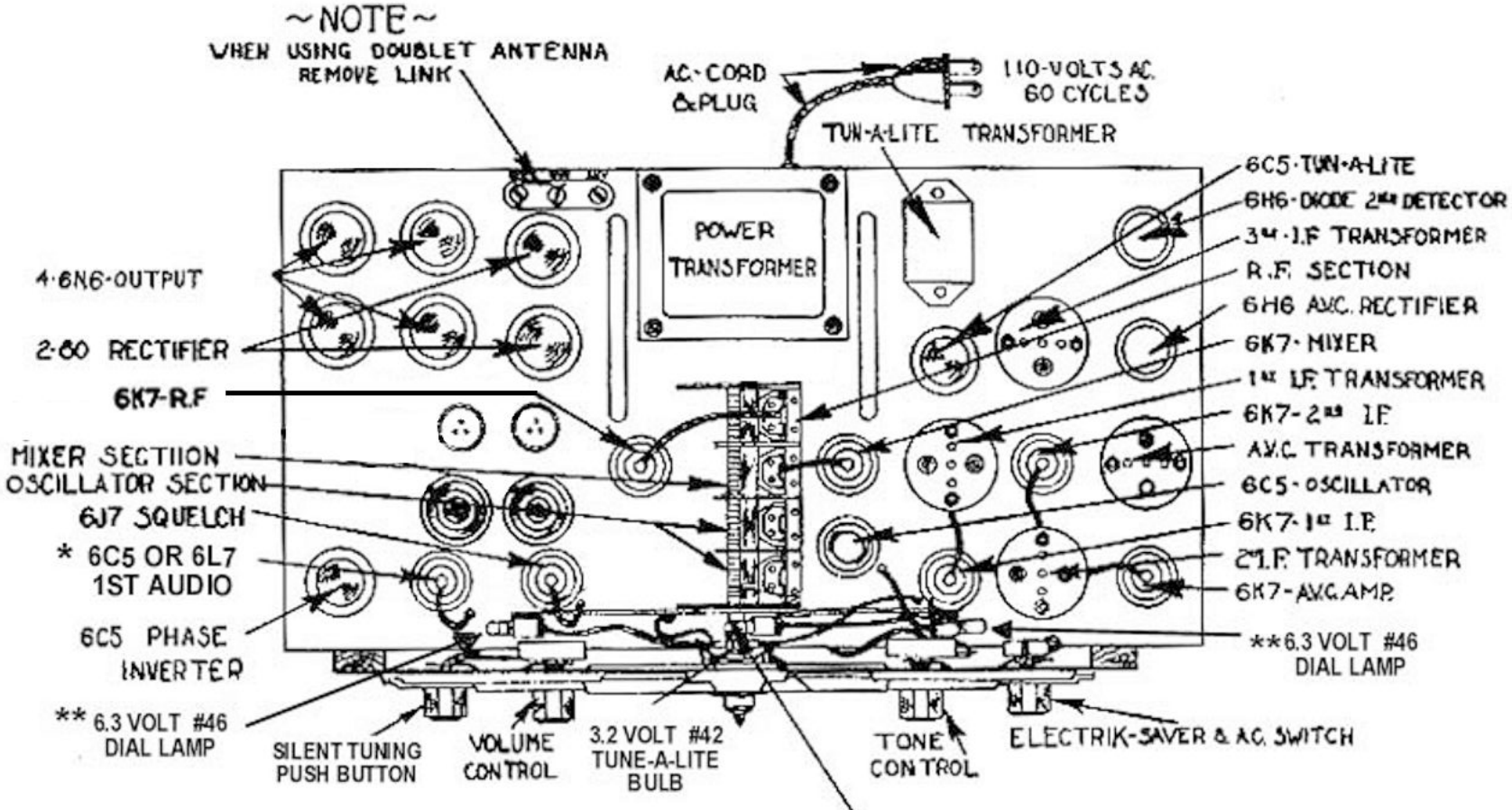

GROUND
DOUBLET
ANTENNA
REMOVE THIS LINK WHEN USING A DOUBLET ANTENNA
R.F.- 6K7
MIXER-6K7
1ST I.F.-6K7
2ND I.F.-6K7
2ND DETECTOR-6H6
1ST AUDIO 6L7
OUTPUT-6N6
6C5 INVTR
SILENT TUNING PUSH BUTTON
SQUELCH 6J7
OSCILLATOR 6C5
A.V.C. AMPLIFIER 6K7
A.V.C. RECTIFIER 6H6
TUNE-A-LITE 6C5
SWITCH POSITIONS
1 = OFF
2 = HI
3 = MED
4 = LOW
RECTIFIERS 80
ELECTRIC SAVER SWITCH
FILAMENT GROUNDED TO CHASSIS AT 2nd DETECTOR
1700 OHMS
250 OHMS
HUM BUCKING COIL
FIELD COIL
VOICE COIL
#42 3.2V
SIDE LITES #46 not in all versions
115 VOLTS
.05 200V
METER BAND LIGHT RED #46
RED #46 (mounted on tunning capacitor)
AMUSEMENT
HOUSEHOLD
MIDWEST
CHASSIS 18-37
WITH 6L7 AUDIO
Revised May 5, 2021
Mike Simpson



* TUBE TYPE DEPENDS ON CHASSIS CONFIGURATION. TUBES ARE NOT INTERCHANGABLE

** NOT ON ALL VERSIONS

MIDWEST CHASSIS 18-37 TUBE CHART

CONDENSERS

C1 35 MMFD. TRIMMER	C19 I.F. TRIMMER	C37 25 MMFD. MICA	C55 2000 MMFD. MICA	C73 .25 MFD. 200 VOLT
C2 " "	C20 " "	C38 " "	C56 " "	C74 " "
C3 " "	C21 " "	C39 75 MMFD. "	C57 .02 MFD. 200 VOLT	C75 .25 MFD. 400 VOLT
C4 " "	C22 " "	C40 " "	C58 .05 MFD. "	C76 " "
C5 " "	C23 " "	C41 100 MMFD. "	C59 " "	C77 20 MFD. 175 V. WET ELECTROLYTIC
C6 " "	C24 " "	C42 " "	C60 " "	C78 25 MFD 500V. " "
C7 " "	C25 70 MMFD. PADDER	C43 " "	C61 " "	C79 40 MFD 350V " "
C8 " "	C26 " "	C44 " "	C62 " "	C80 60 MFD 10V " "
C9 " "	C27 350 MMFD. "	C45 " "	C63 " "	C81 500 MMFD MICA
C10 " "	C28 365 MMFD. TUNING COND.	C46 " "	C64 " "	C82 .25 MFD 400V
C11 " "	C29 " " "	C47 " "	C65 " "	
C12 " "	C30 " " "	C48 " "	C66 " "	
C13 " "	C31 " " "	C49 " "	C67 .05 MFD. 400 VOLT	
C14 " "	C32 5 MMFD. MICA	C50 " "	C68 " "	
C15 " "	C33 " "	C51 200 MMFD. "	C69 " "	
C16 " "	C34 10 MMFD. "	C52 250 MMFD. "	C70 " "	
C17 " "	C35 " "	C53 " "	C71 " "	
C18 " "	C36 " "	C54 500 MMFD. "	C72 " "	
			C72A " "	

RESISTORS

R1 350 OHMS WIREWOUND	R19 100,000 OHM .25 WATT	R37 50000 OHM .5 WATT	
R2 " "	R20 " "	R38 " "	
R3 " "	R21 " "	R39 500,000 OHM VOLUME	
R4 " "	R22 40,000 OHM "	R40 500,000 OHM TONE	
R5 500 OHM .25 WATT	R23 100,000 OHM "	R41 25,000 OHM .25WATT	
R6 1,000 OHM "	R24 " "		
R7 " "	R25 200,000 OHM "		
R8 4,000 OHM "	R26 " "		
R9 5,000 OHM "	R27 " "		
R10 " "	R28 " "		
R11 " "	R29 " "		
R12 " "	R30 500,000 OHM "		
R13 " "	R31 " "		
R14 " "	R32 " "		
R15 25,000 OHM "	R33 " "		
R16 " "	R34 1 MEGOHM "		
R17 40,000 OHM "	R35 3 MEGOHM "		
R18 100,000 OHM "	R36 25,000 OHM .5 WATT		

PARTS LIST
MIDWEST
CHASSIS 18-37
WITH 6L7 AUDIO

August 8, 2018

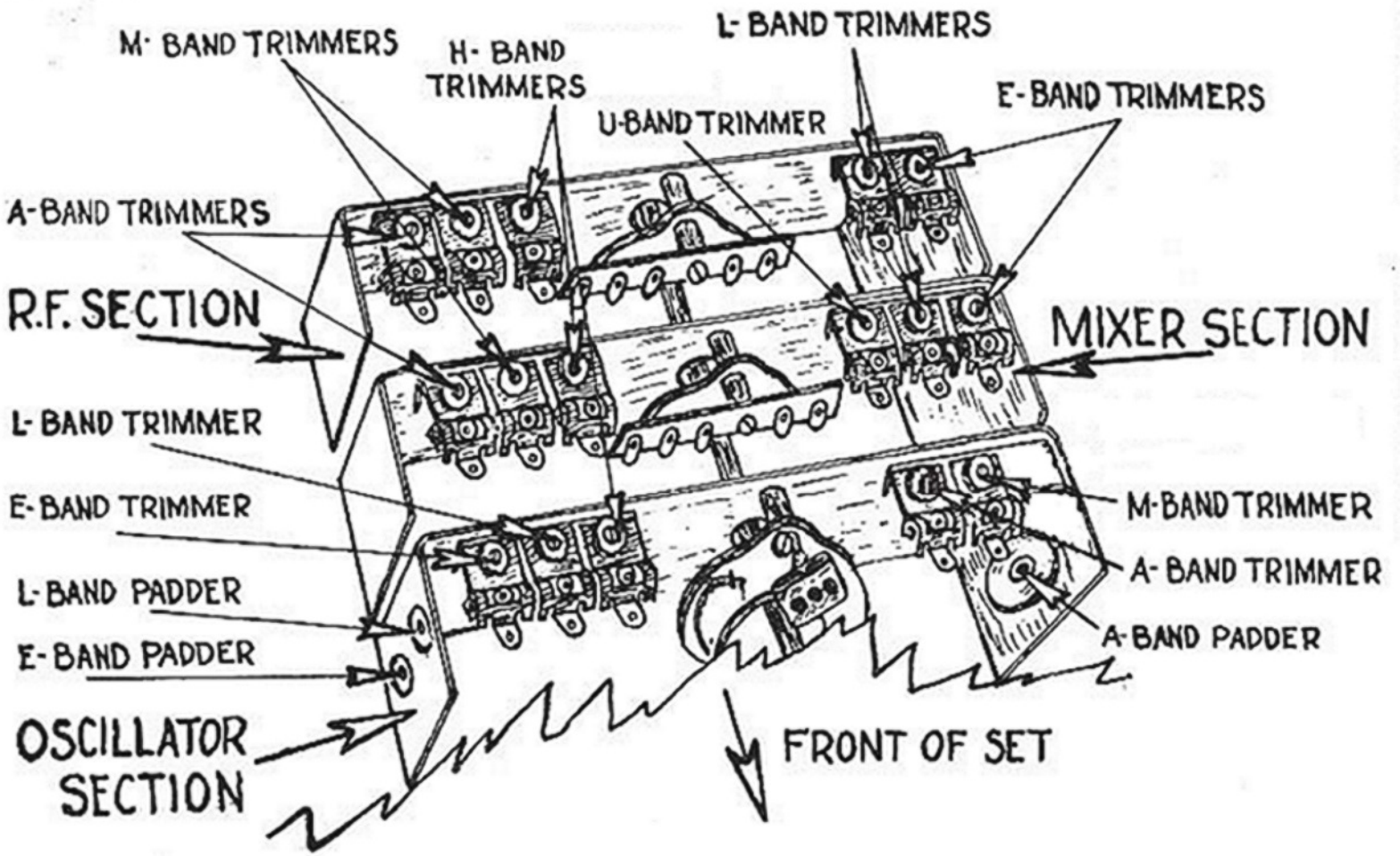
Mike Simpson

TYPE	POSITION	PLATE VOLTS	SCREEN VOLTS		CATHODE VOLTS	FIL VOLTS
6K7	R.F.	210	50		1.0	6.5
6K7	Mixer	210	45		3.5	6.5
6C5	Osc.	95	---		3.5	6.5
6K7	1st I.F.	210	50		1.2	6.5
6K7	2nd I.F.	210	50		3.0	6.5
6K7	AVC Amp.	210	50		6.0	6.5
6H6	2nd Det.	0	---		---	6.5
6H6	AVC Rect.	0	---		---	6.5
6C5	Tunalite	AC	---		0	6.5
6J7	Squelch	150	20			6.5
6L7	1st Audio	100	50		4.0	6.5
6C5	Invertor	90	---		4.0	6.5
6N6	Output	300	---		4.0	6.5
6N6	Output	300	---		0	6.5
6N6	Output	300	---		0	6.5
6N6	Output	300	---		0	6.5
80	Rectifier	280AC	---		---	5.0
80	Rectifier	280AC	---		---	5.0

LINE VOLTAGE 115 VOLTS A.C. 60 CYCLES. B PLUS 225 VOLTS

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

MIDWEST
CHASSIS 18-37
With 6L7 Audio
August 6, 2018
Mike Simpson



MIDWEST CHASSIS
18-37
January 20, 2012

Mike Simpson

INSTRUCTIONS FOR ALIGNING THE MIDWEST 18 - 37 RECEIVER

(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 meter from the plate of the output tube to positive B, or from the plates of one pair of tubes to the plates of the other pair of tubes.

(4) Using a weak signal approximately 40 micro-volts, align the I.F. transformers to maximum output.

(5) Gradually decrease signal and realign I.F. amplifier.

(6) Increase the input from the generator of approximately 100 micro-volts. Align the A.V.C. transformer for minimum output.

(7) Repeat using weaker signal strengths for the I.F. and stronger signal strength for the A.V.C. adjustment until an absolute peak is assured.

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

Insert the oscillator tube. Connect the signal generator between antenna and ground.

(1) Set the wave change switch to the "E" band.

(2) Set the signal generator to 325 k.c., and also the dial.

(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 affect the adjustment of the other.

This completes the alignment of the "E" band.

(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.

(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 bhange 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 padder 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 "M" 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 t he alignment of the "H" band.

(1) Set the wave change switch to the "U" band.

(2) Set the signal generator to 60 mc.

(3) Tune receiver until signal is received.

(4) Adjust the "U" band mixer trimmer for maximum gain.

This completes the alignment of the "U" band.