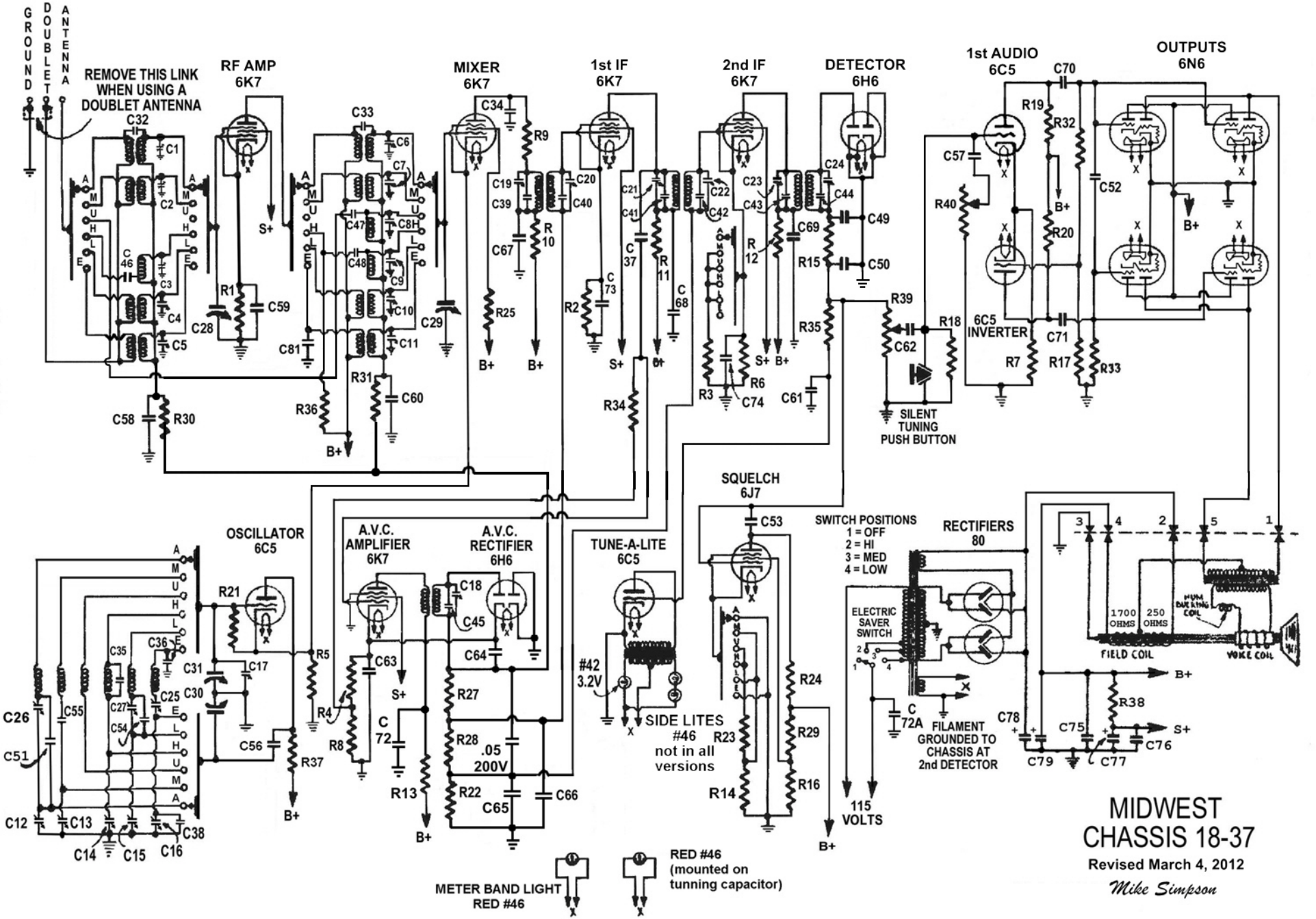


MIDWEST CHASSIS 18-37

Revised March 4, 2012

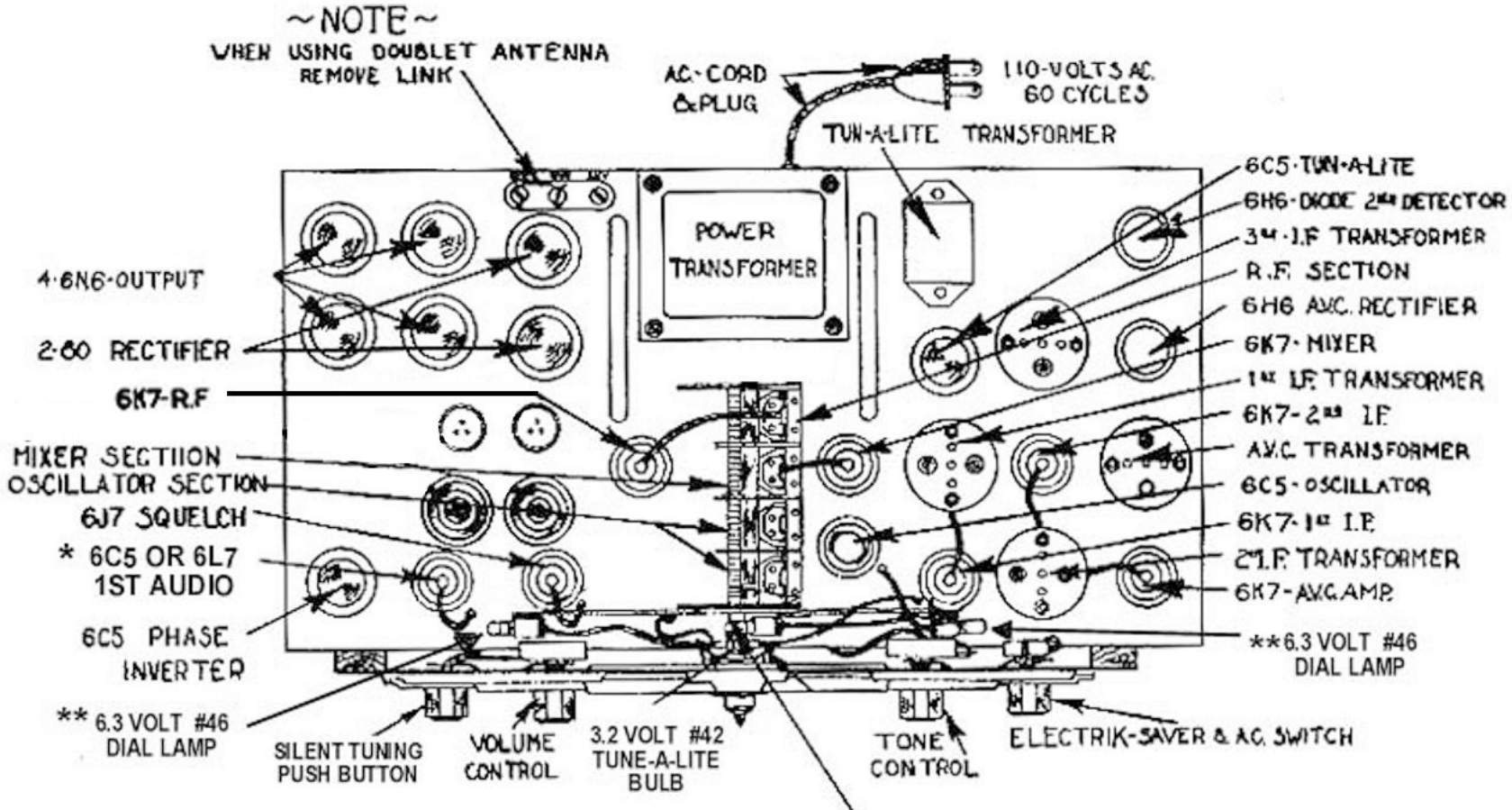
Mike Simpson

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. 350 V. " "
C8	" "	C26	" "	C44	" "	C62	" "	C80	60. MFD. 10 V. " "
C9	" "	C27	350 MMFD. "	C45	" "	C63	" "	C81	500 MMFD. MICA
C10	" "	C28	365 MMFD. TUNING COND.	C46	" "	C64	" "	C82	.25 MMFD. 400 V
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	" "		
						C72 A	" "		

RESISTORS

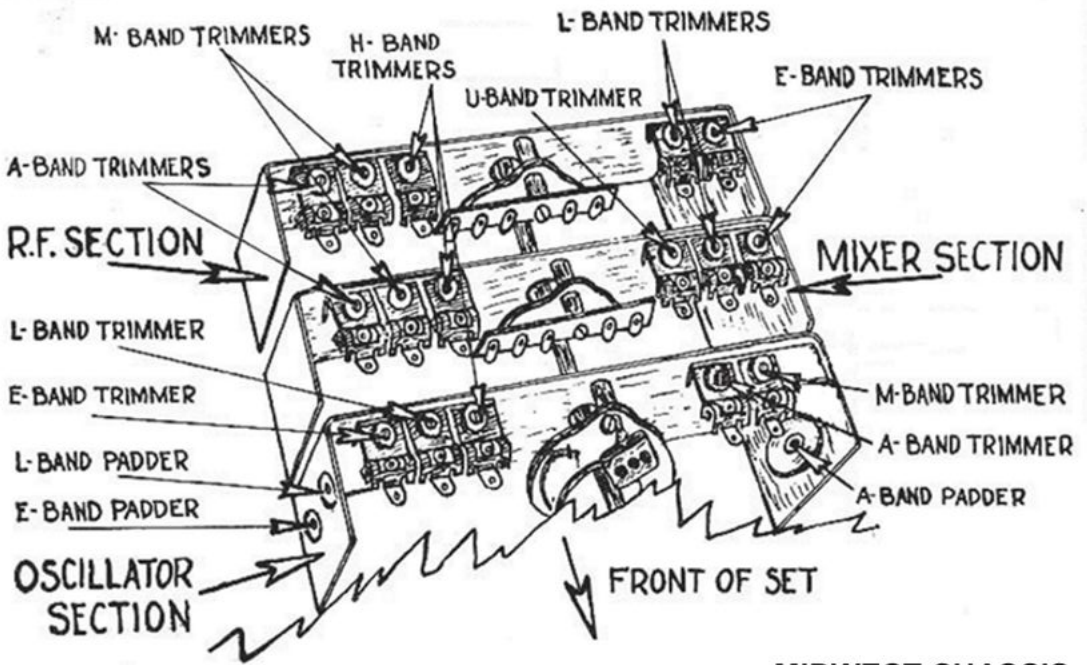
R1	350 OHMS WIREWOUND	R19	100,000 OHM .25 WATT	R37	50 000 OHM .5 WATT
R2	" "	R20	" "	R38	" "
R3	" "	R21	" "	R39	500 000 OHM VOLUME CONTROL
R4	" "	R22	40,000 OHM "	R40	" TONE
R5	500 OHM .25 WATT	R23	100,000 OHM "	R41	25,000 OHM .25 WATT
R6	1,000 OHM "	R24	" "		
R7	" "	R25	200,000 OHM "		
R8	4,000 OHM "	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		



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

** NOT ON ALL VERSIONS

MIDWEST CHASSIS 18-37 TUBE CHART



MIDWEST CHASSIS
18-37 with AFC

January 20, 2012

Mike Simpson

THE MIDWEST RADIO CORPORATION Cincinnati, Ohio.

LIST OF VOLTAGES OF TUBES
37 MODEL 18 TUBE RECEIVER

ALL TEST MADE WITH NO SIGNAL INPUT, BAND SWITCH IN POSITION A

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		0	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.

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.