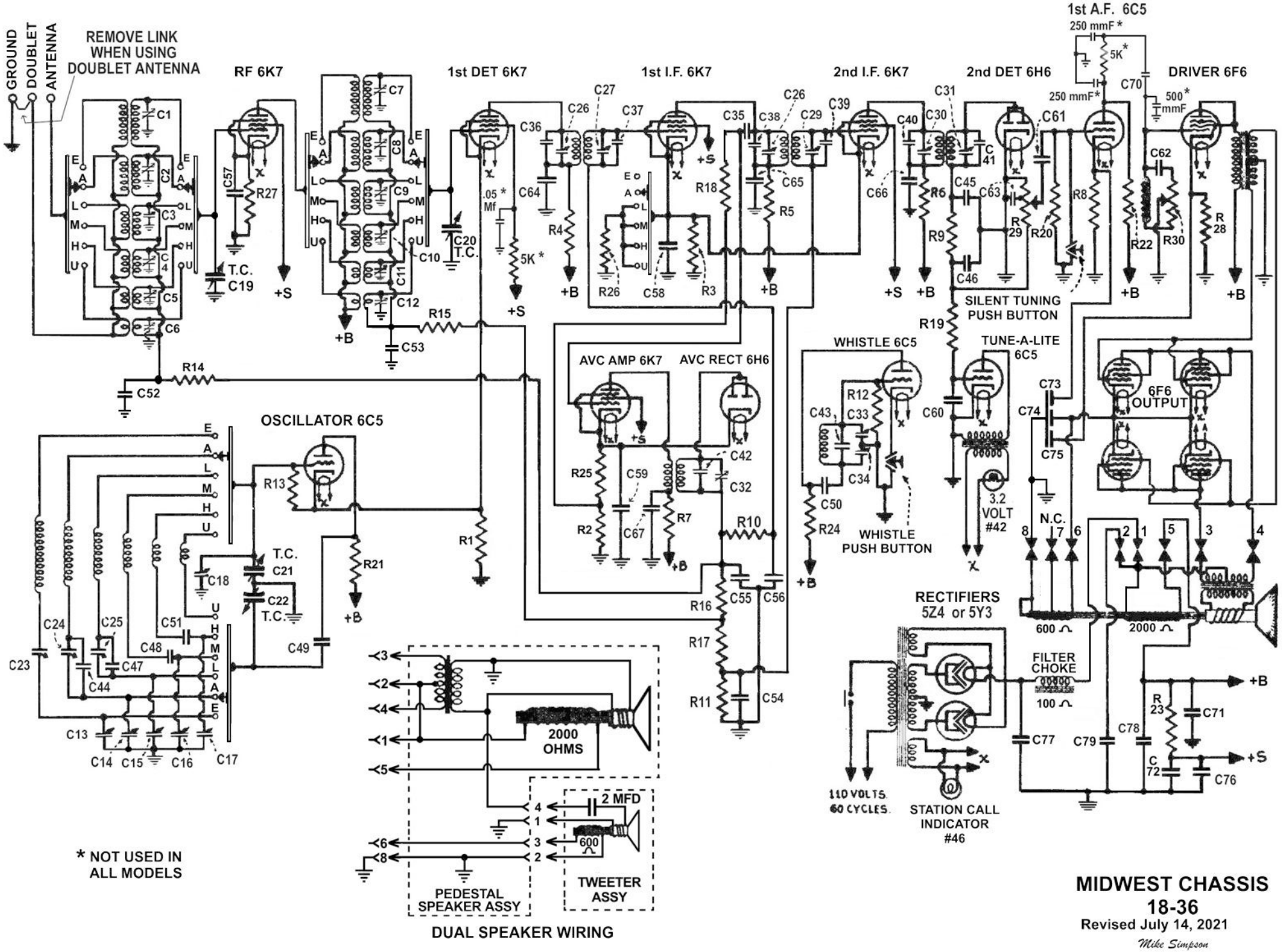

GROUND
DOUBLET ANTENNA
REMOVE LINK WHEN USING DOUBLET ANTENNA
RF 6K7
1st DET 6K7
1st I.F. 6K7
2nd I.F. 6K7
2nd DET 6H6
1st A.F. 6C5
DRIVER 6F6
OSCILLATOR 6C5
AVC AMP 6K7
AVC RECT 6H6
WHISTLE 6C5
TUNE-A-LITE 6C5
SILENT TUNING PUSH BUTTON
WHISTLE PUSH BUTTON
6F6 OUTPUT
RECTIFIERS 5Z4 or 5Y3
FILTER CHOKE
100 Ω
600 Ω
2000 Ω
N.C.
3.2 VOLT #42
110 VOLTS 60 CYCLES
STATION CALL INDICATOR #46
2000 OHMS
2 MFD
600 Ω
PEDESTAL SPEAKER ASSY
TWEETER ASSY
DUAL SPEAKER WIRING
* NOT USED IN ALL MODELS
MIDWEST CHASSIS
18-36
Revised July 14, 2021
Mike Simpson

CAPACITORS

C1 - C18	35 mmf	C49 - C50	2000 mmf Mica
C19 - C22	365 mmf Tuning Cond.	C51	.01 mfd 200 Volt
C23	70 mmf Padder	C52 - C63	.05 mfd 200 Volt
C24	120 mmf Padder	C64 - C67	.05 mfd 400 Volt
C25	365 mmf Padder	C68 - C69	N/A
C26 - C34	IF Trimmer	C70 -C72	.25 mfd 400 Volt
C35	25 mmf Mica	C73 - C74	25 mfd 25 Volt Electrolytic
C36 - C43	75 mmf Mica	C75	8 mfd 100 Volt Electrolytic
C44 - C46	100 mmf Mic	C76	2 mfd 150 Volt Electrolyic
C47	250 mmf Mica	C77 - C78	8 mfd 450 Volt
C48	1600 mmf Mica	C79	16 mfd 450 Volt

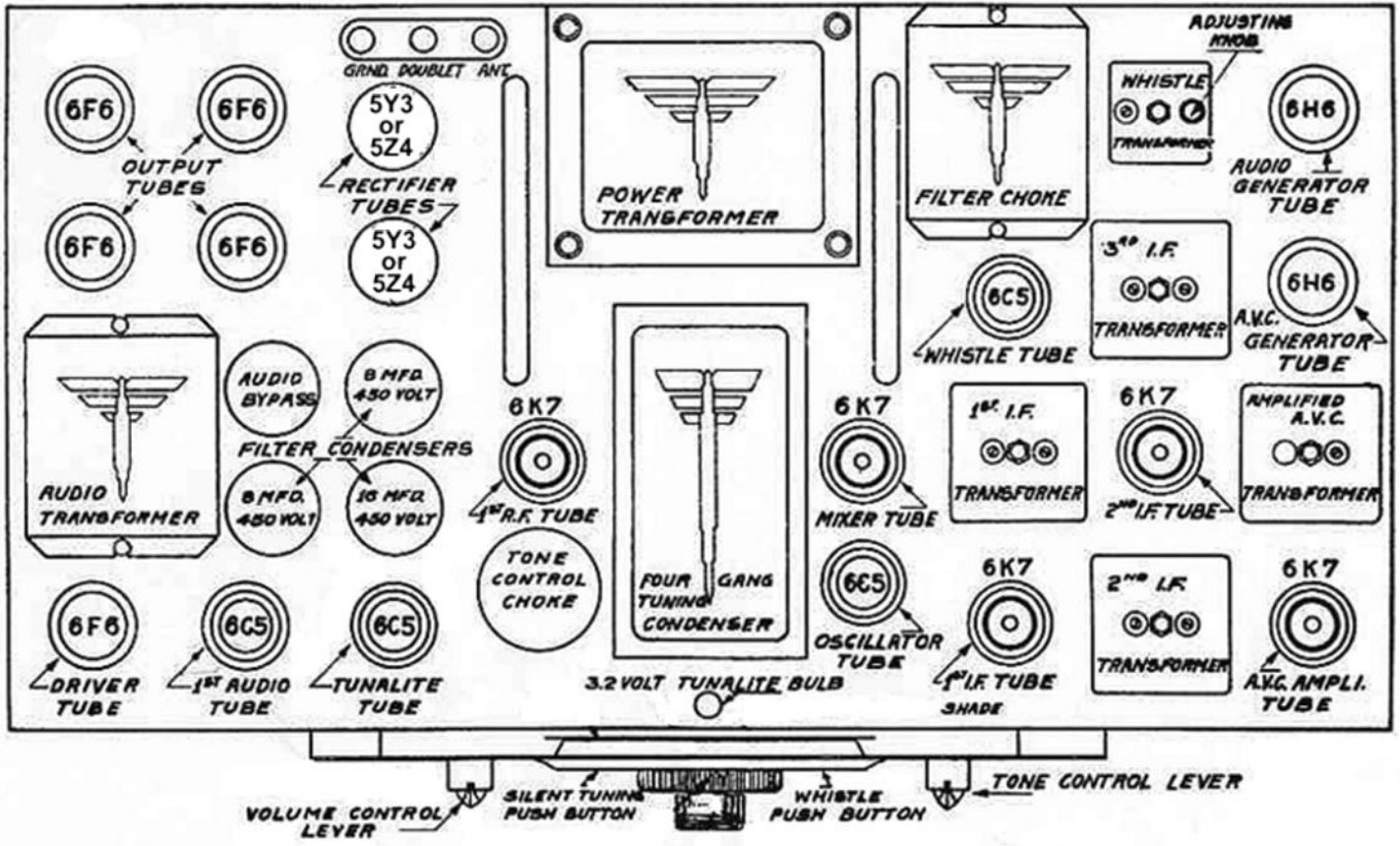
RESISTORS

R1	500 Ohms 1/4 Watt	R19 - R20	3 Megohms 1/4 Watt
R2 - R3	1000 Ohms 1/4 Watt	R21 - R23	50K Ohms 1/2 Watt
R4 - R7	5000 Ohms 1/4 Watt	R24	100K Ohms 1/2 Watt
R8	2000 Ohms 1/4 Watt	R25 - R27	350 Ohms Wire Wound
R9	25K Ohms 1/4 Watt	R28	2500 Ohms 1 Watt
R10 - R13	100K Ohms 1/4 Watt	R29	Volume 500K tap @ 25K
R14 - R17	500K Ohms 1/4 Watt	R30	Tone100K
R18	1 Megohm 1/4 Watt		

MIDWEST
CHASSIS 18-36
PARTS LIST

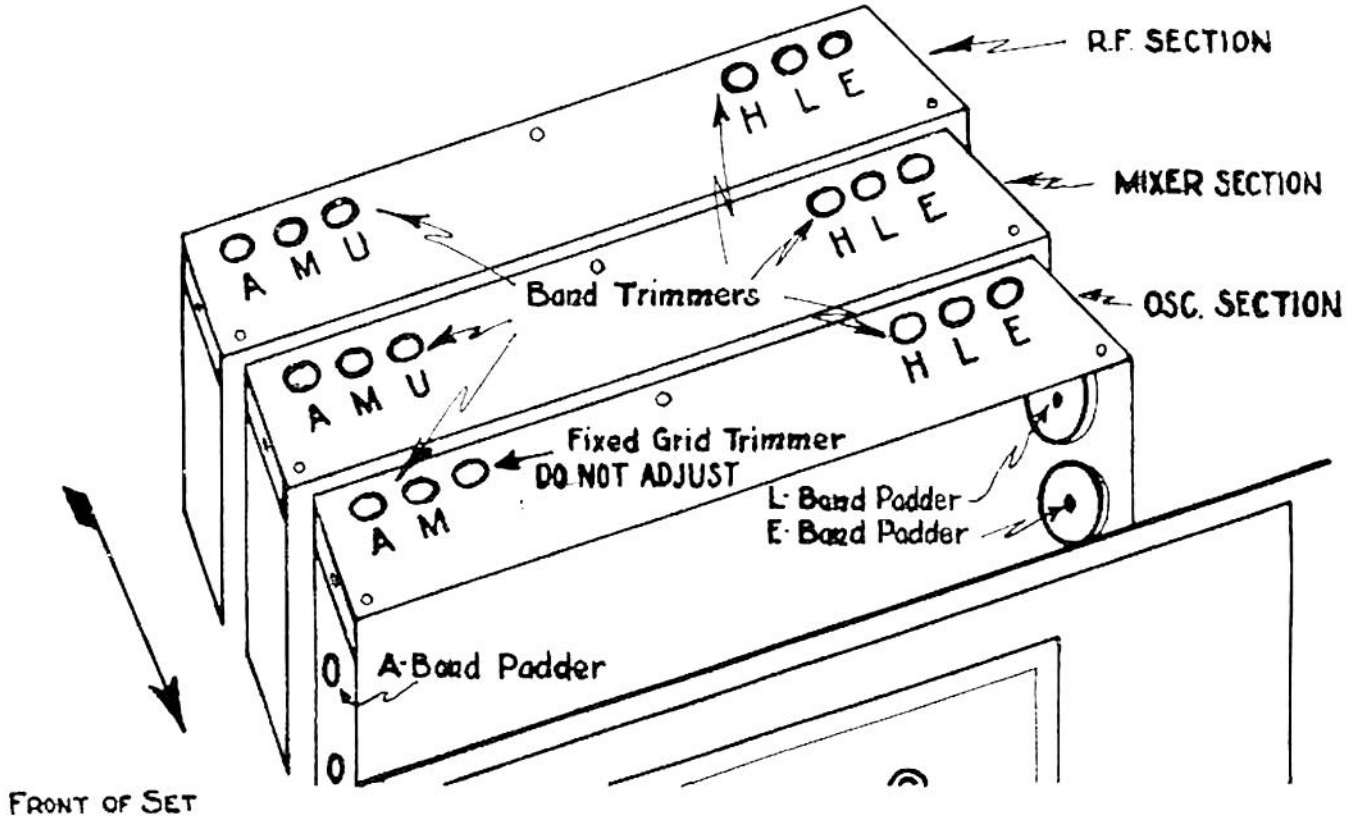
Redrawn September 9, 2019

Mike Simpson



Midwest chassis 18-36

Mike Simpson



THE MIDWEST RADIO CORPORATION
CINCINNATI, OHIO.

TRIMMER & PADDER LOCATION FOR MODEL 18-36.

WAL

THE MIDWEST RADIO CORPORATION Cincinnati, O.

LIST OF TUBE VOLTAGES OF
36 MODEL 18 TUBE RECEIVER

ALL TESTS MADE WITH NO SIGNAL INPUT

TYPE	POSITION	PLATE VOLTS	SCREEN VOLTS		CATHODE VOLTS	FIL VOLTS
6K7	R.F.	300	120		2.1	6.2
6K7	Mixer	280	120		3.3	6.2
6C5	Osc.	160	---		3.3	6.2
6K7	1st I.F.	280	120		2.2	6.2
6K7	2nd I.F.	280	110		5.5	6.2
6H6	2nd Det.	---	---		0	6.2
6K7	AVC Amp.	280	110		5.5	6.2
6H6	AVC Gen.	---	---		0	6.2
6C5	Whistle	270	---		0	6.2
6C5	Tunalite	A.C.	---		0	6.2
6C5	1st A.F.	220	---		7	6.2
6F6	Driver	290	Tied to Plate		28	6.2
6F6	Output	370	" "		40	6.2
6F6	Output	370	" "		40	6.2
6F6	Output	370	" "		40	6.2
6F6	Output	370	" "		40	6.2
2-5Z4	Rect.	650 volts A.C. plate to plate Service B plus 320 volts DC				5.0

LINE VOLTAGE 113 VOLTS A.C., 60 CYCLES

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

INSTRUCTIONS FOR ALIGNING THE MIDWEST 18 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 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 20 microvolts. align the I.F. transformers to maximum output.

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

(6) 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. Replace mixer grid lead. 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.

(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.

(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 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 gain.

(4) Reset the signal generator to 1.6 m.c. and then 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 "M" band mixer trimmers for 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" oscillator trimmer to maximum gain then adjust the "H" band R.F. and the "H" band mixer trimmers for gain.

This completes the alignment of the "H" band.

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

(2) Set the signal generator to 60 m.c.

(3) Tune receiver until signal is received.

(4) Adjust the "U" band R.F. and the "U" band mixer trimmers for maximum gain.

This completes the alignment of the "U" band.