

MIDWEST CHASSIS 16-37
 Revised January 11, 2011
Mike Simpson

* NOT USED IN ALL CHASSIES

CONDENSERS

C1	35MMFD. TRIMMERS
C2	"
C3	"
C4	"
C5	"
C6	"
C7	"
C8	"
C9	"
C10	"
C11	"
C12	"
C13	"
C14	"
C15	"
C16	"
C17	I.F. TRIMMERS
C18	"

C19	I.F. TRIMMERS
C20	"
C21	"
C22	"
C23	70 MMFD. PADDER
C24	"
C25	350 MMFD
C26	365 MMFD. TUNING CONDENSER
C27	"
C28	"
C29	"
C30	10 MMFD MICA
C31	75 MMFD.
C32	60 MMFD.
C33	"
C34	"
C35	"
C36	"

C37	100 MMFD. MICA
C38	"
C39	"
C40	"
C41	200 MMFD.
C42	250 MMFD.
C43	"
C44	350 MMFD.
C45	2000 MMFD.
C46	2000 MMFD.
C47	10 MMFD.
C48	.05 MFD. 200 VOLT
C49	"
C50	"
C51	"
C52	"
C53	"
C54	.01 MFD.
C55	.05 MFD. 400 VOLT
C56	"
C57	"
C58	"
C59	"
C60	.25 MFD. 200 VOLT
C61	"
C62	400 VOLT
C63	25. MFD. 500 VOLT-WET ELECTROLYTIC
C64	40. MFD. 350 VOLT
C65	10 MMFD. MICA
C66	25 MMFD.
C67	5 MMFD.
C68	.25 MFD. 400V.
C69	"
C70	.05 MFD 400V

RESISTORS

R1	350 OHMS
R2	"
R3	"
R4	500 OHMS .25 WATT
R5	1000 OHMS
R6	5,000 OHMS
R7	"
R8	"
R9	"
R10	25,000 OHMS
R11	"
R12	"
R13	40,000 OHMS
R14	100,000 OHMS
R15	"
R16	"
R17	"
R18	200,000 OHMS

R19	200,000 OHMS .25 WATT
R20	500,000 OHMS
R21	"
R22	"
R23	"
R24	"
R25	1 MEGOHM
R26	3 MEGOHM
R27	25,000 OHMS .5 WATT
R28	50,000 OHMS .5 WATT
R29	"
R30	2,500 OHMS 1. WATT
R31	500,000 OHM TONE CONTROL
R32	500,000 OHM VOLUME CONTROL
R33	100,000 OHMS .25 WATT

MIDWEST CHASSIS 16-37 PARTS LIST

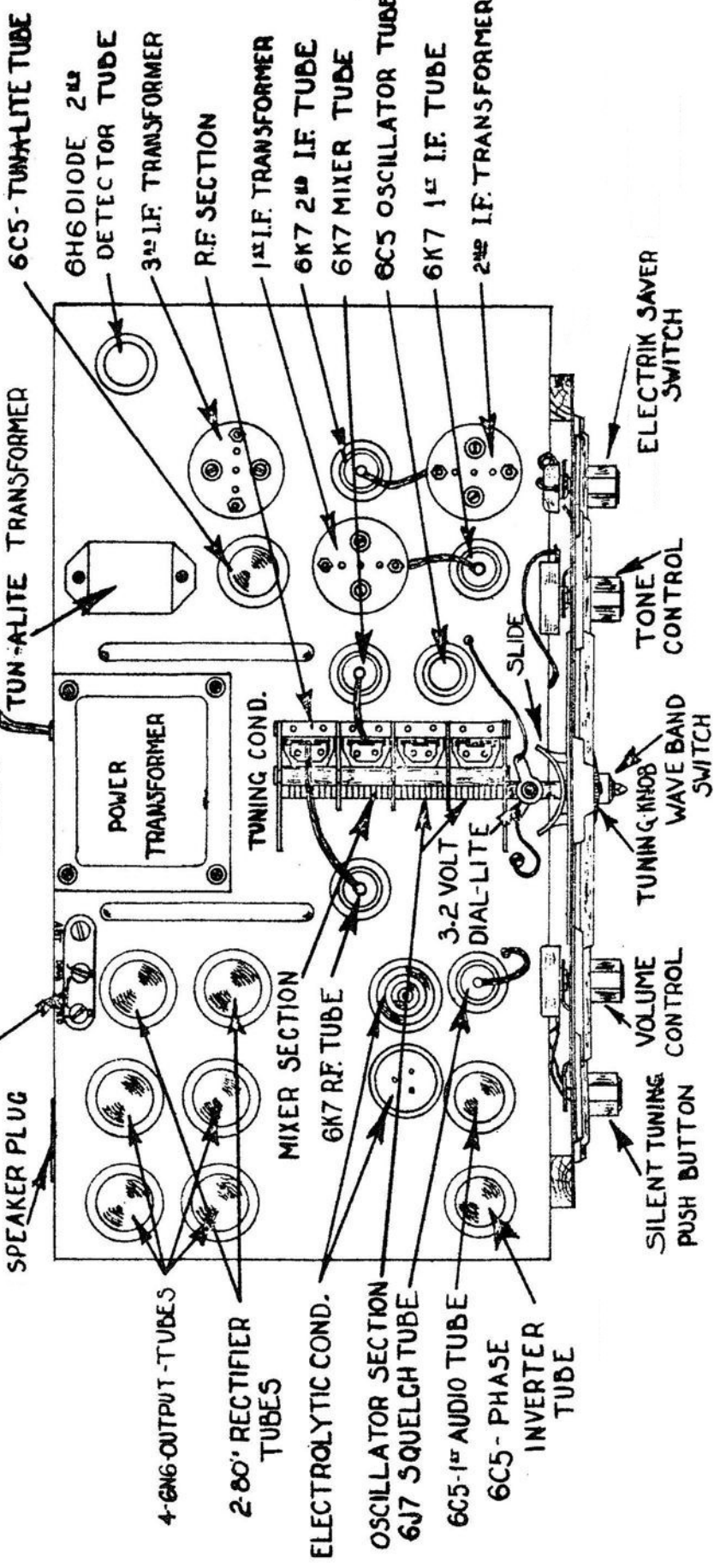
REVISED JAN 11, 2011

Mike Sempson

~NOTE~
WHEN USING DOUBLET ANTENNA
REMOVE LINK.

SPEAKER PLUG

AC CORD & PLUG
TUN-ALITE TRANSFORMER
110-VOLTS A.C.
60 CYCLES



6C5-TUN-ALITE TUBE

6H6 DIODE 2^A
DETECTOR TUBE

3^A 1ST I.F. TRANSFORMER

R.F. SECTION

1ST I.F. TRANSFORMER

6K7 2ND I.F. TUBE

6K7 MIXER TUBE

6C5 OSCILLATOR TUBE

6K7 1ST I.F. TUBE

2ND I.F. TRANSFORMER

POWER TRANSFORMER

TUNING COND.

MIXER SECTION

6K7 R.F. TUBE

3.2 VOLT
DIAL-LITE

6C5-1^A AUDIO TUBE

6C5 - PHASE
INVERTER
TUBE

TUNING KNOB

WAVE BAND
SWITCH

SLIDE

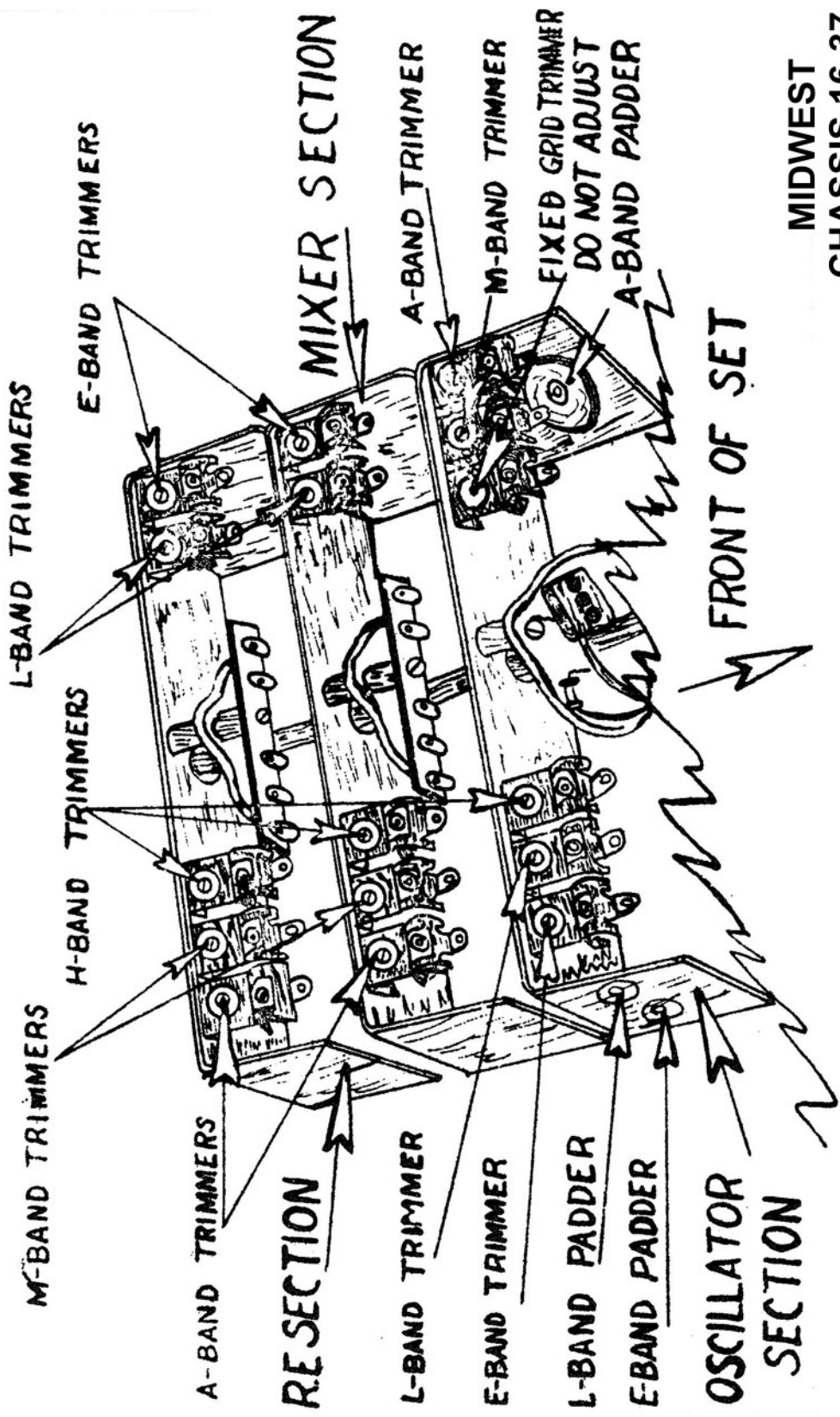
TONE
CONTROL

ELECTRIK SAVER
SWITCH

MIDWEST CHASSIS16-37

Revised January 25, 2011

W.C. Simpson



MIDWEST

CHASSIS 16-37

Revised January 11, 2011

Mike Simpson

INSTRUCTIONS FOR ALIGNING THE MIDWEST 16 TUBE 1937
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. The meter can also be connected to the speaker voice coil leads.
- (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.

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" band oscillator trimmer to maximum gain then adjust the "E" band R.F. and also 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 pedder for maximum signal.
- (6) Repeat the adjustment of trimmers and pedders 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.

Alignment Procedure for Midwest model 16-37

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- (5) Adjust the "A" band pedder for maximum signal.
- (6) Repeat the adjustment of trimmers and pedders 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 swotch 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 pedder for maximum signal.
- (6) Repeat the adjustment of trimmers and pedders 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 the alignment of the "H" band.