

C1A	-	250 MMFD	-	MICA	
C1	-	80	-	TRIMMER	
C2	-	.05 MFD	-	200 VOLT	
C3	-	.05	-	200	
C4	-	20 MMFD	-	TRIMMER	
C5	-	20	-		
C6	-	20	-		
C7	-	365	-	TUNING CONDENSER	
C8	-	.05 MFD	-	200 VOLT	
C9	-	.05	-	400	
C10	-	25 MMFD	-	MICA	
C11	-	80	-	TRIMMER	
C12	-	20	-		
C13	-	.05 MFD	-	400 VOLT	
C14	-	20 MMFD	-	TRIMMER	
C15	-	20	-		
C16	-	25	-	MICA	
C17	-	20	-	TRIMMER	
C20	-	365	-	TUNING CONDENSER	
C21	-	.05 MFD	-	200 VOLT	
C22	-	.05	-	200	
C23	-	80 MMFD	-	TRIMMER	
C24	-	20	-		
C25	-	20	-		
C26	-	20	-		
C28	-	365	-	TUNING CONDENSER	
C29	-	160	-	PADDER	
C30	-	360	-		
C31	-	700	-		
C32	-	3000	-	MICA	
C33	-	500	-		
C34	-	2000	-		
C35	-	I.F.T.	-	TRIMMER	
C36	-	.05 MFD	-	400 VOLT	
C37	-	I.F.T.	-	TRIMMER	
C38	-	.05 MFD	-	400 VOLT	
C39	-	I.F.T.	-	TRIMMER	
C40	-	.05 MFD	-	400 VOLT	
C41	-	I.F.T.	-	TRIMMER	
C42	-	.05 MFD	-	200 VOLT	
C43	-	.05	-	400	
C43A	-	25 MMFD	-	MICA	
C44	-	I.F.T.	-	TRIMMER	
C45	-	.05 MFD	-	400 VOLT	
C46	-	250 MMFD	-	MICA	DUAL
C47	-	250	-	MICA	
C48	-	I.F.T.	-	TRIMMER	
C49	-	.05 MFD	-	200 VOLT	
C49A	-	.05	-	400	
C49B	-	.05	-	200	IN PHONO
C50	-	.05	-	200	
C51	-	.25	-	200	
C52	-	.04	-	200	
C53	-	.25	-	50	
C53A	-	10	-	75	
C54	-	.05	-	200	
C55	-	.25	-	50	
C56	-	12	-	25	
C57	-	.05	-	400	
C58	-	1	-	300	
C59	-	.05	-	400	
C60	-	I.F.T.	-	TRIMMER	
C61	-	.001 MFD	-	600 VOLT	
C61A	-	.05	-	200	
C62	-	.001	-	600	
C63	-	.05	-	400	
C64	-	8	-	ELECTROLYTIC	
C65	-	8	-		
C66	-	8	-		
C67	-	.25	-	400 VOLT	
R1A	-	5 000	-	25 WATT	
R1	-	75 000	-	25	
R2	-	200 000	-	25	
R3	-	5 000	-	25	
R4	-	50 000	-	80	
R5	-	15 000	-	1	
R7	-	500 000	-	25	
R8	-	200 000	-	25	
R9	-	1 000	-	25	
R10	-	10 000	-	25	
R11	-	50 000	-	25	
R12	-	5 000	-	25	
R12A	-	100 000	-	25	
R13	-	200 000	-	25	
R14	-	5 000	-	25	
R15	-	3 MEG	-	25	
R16	-	200 000	-	25	
R17	-	5 000	-	25	
R18	-	3 MEG	-	25	
R19	-	25 000	-	5	
R20	-	50 000	-	5	
R21	-	4 000	-	25	
R21A	-	4 000	-	25	
R22	-	5 000	-	25	
R23	-	500 000	-	25	
R24	-	100 000	-	25	
R25	-	100 000	-	25	
R26	-	500 070	-	25	
R27	-	500 000	-	25	
R27A	-	500 000	-	5	
R27B	-	100 000	-	25	
R28	-	500 000	-	POT VOLUME CONTROL	
R29	-	500 000	-	25 WATT	
R30	-	50 000	-	POT STR-O-MAT CONTROL	
R31	-	700	-	1" FLEXIBLE	
R32	-	50 000	-	VARIABLE TONE CONTROL	
R32A	-	50 000	-	AUTOMATIC TONE COMPENSATION	
R33	-	10 000	-	25 WATT	
R34	-	15 000	-	1	
R36	-	25 000	-	25	
R36A	-	25 000	-	25	
R38	-	10 000	-	25	
R39	-	100 000	-	25	
R40	-	50 000	-	25	

MIDWEST CHASSIS 16-34

REVISED OCT 16
2010



TUBE PLACEMENT

THE MIDWEST RADIO CORP. Cincinnati, Ohio.

LIST OF TUBE VOLTAGES OF
34 MODEL 16 TUBE RECEIVER

ALL TESTS MADE WITH NO SIGNAL INPUT

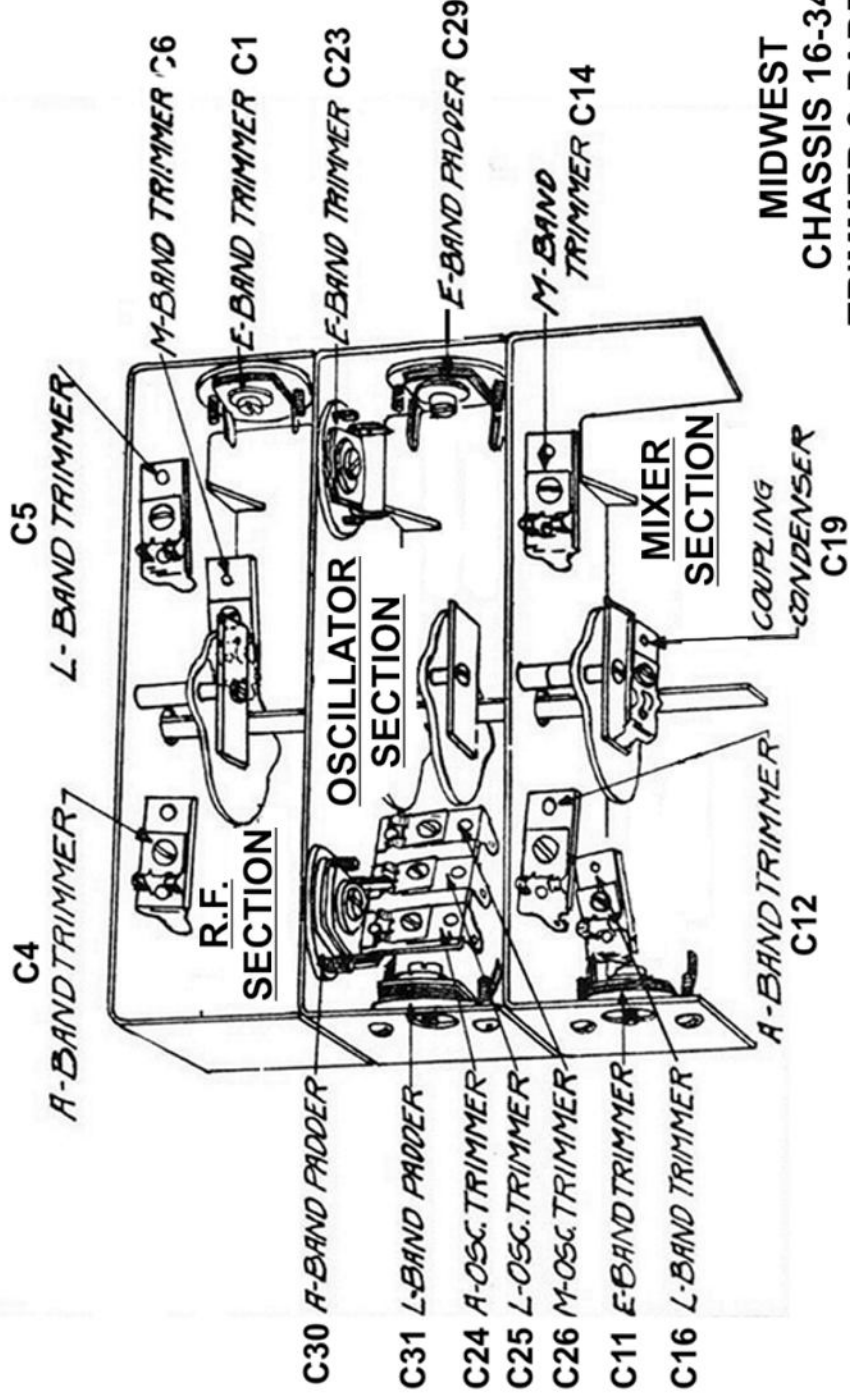
TYPE	POSITION	PLATE VOLTS	SCREEN VOLTS	SUPP. VOLTS	CATHODE VOLTS	FIL. VOLTS
6D6	R.F.	210	65	0	0	5.7
6C6	Mixer	215	45	2.5	2.5	5.7
56	Osc.	90	0	0	0	2.5
78	1st I.F.	200	70	0	0	5.7
78	2nd I.F.	200	40	0	0	5.7
6B7	A.V.C.	215	140	0	2.5	5.7
6B7	Aud. Diode	-15	-15	0*	-7	5.7
37	Statomit	0	0	0	15	5.7
37	1st Audio	145	0	0	9	5.7
37**	2nd Audio	200	0	0	15	5.7
37**	2nd Audio	200	0	0	15	5.7
45***	Output	215	0	0	50	2.5
45***	Output	215	0	0	50	2.5
45***	Output	215	0	0	50	2.5
45***	Output	215	0	0	50	2.5
5Z3	Rect.	325	0	0	0	4.6

* Connected to screen

** Push Pull

*** Push Pull Parallel

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



**MIDWEST
CHASSIS 16-34
TRIMMER & PADDER
LOCATIONS**

REVISED Dec 14, 2016

REBALANCING INSTRUCTIONS FOR MIDWEST
16 TUBE - 1934 Model

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.
with modulated output.
Connect high side to mixer grid through a .01 Mfd capacitor,
low side to chassis.
- (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.

The following requires the signal generator output lead to be in proximity
of the receivers antenna lead.

Set generator output to same frequency as the dial setting.

To trim the RF, Oscillator and Mixer circuits procede as follows:

Turn band switch to "M" position, rotate dial to 11 megacycles. Adjust trimmers in
oscillator, RF and mixer section.

Set band switch to "L" position. Set dial to 4.0 megacycles. Adjust trimmers in oscillator,
RF and mixer sections. Set dial to 1.6 megacycles and adjust oscillator padder.

Turn band switch to "A" position. Set dial to 1500 KC. Adjust trimmers in oscillator,
RF and mixer sections. Set dial to 530 KC and adjust the "A" oscillator padder.

Turn band switch to "E" position. Set dial to 370 KC and adjust the "E" oscillator, RF and
mixer sections. Set dial to 160 KC and adjust the "E" oscillator padder.

On "H" band no adjustment can be made as this is accomplished at the factory by
adjusting the spacing of the coil turns.