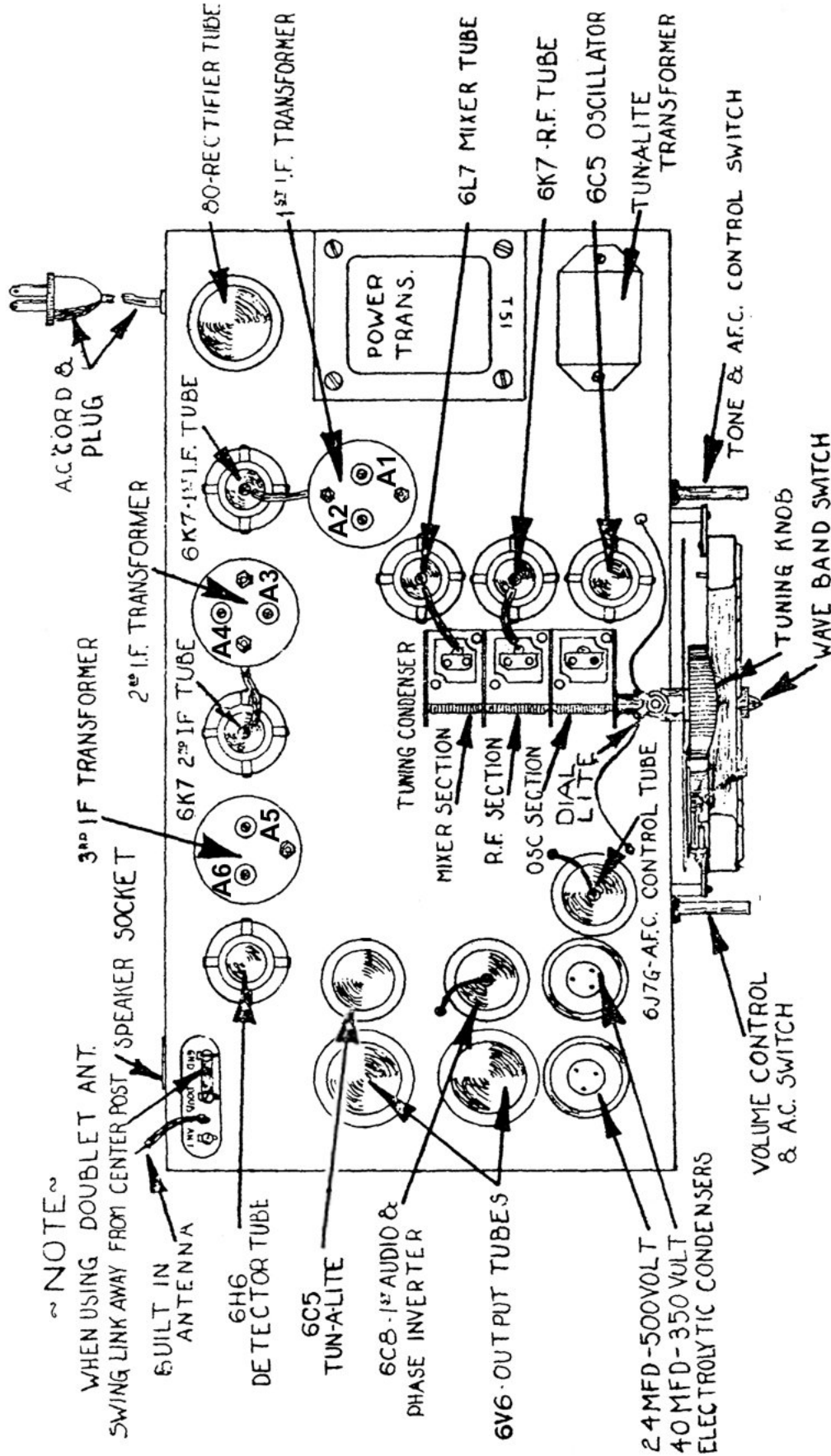




MIDWEST CHASSIS 12-38 TUBE PLACEMENT

Revised January 31, 2011

Mike Simpson

Note:- These voltages were taken with no signal input and with the volume control at minimum.

TUBE	PLATE	SCREEN	SUPPRESSOR	CATHODE	HEATER
6W7 R.F. Amp.	200	45			6.3
6L7 Mixer	200	45	1.5	1.5	6.3
6C5 Osc.	125				6.3
6J7 Osc. Control	125	95	3	3	6.3
6K7 1st I.F.	200	45			6.3
6K7 2nd I.F.	200	45			6.3
6H6 2nd Det.					6.3
6C8 Phase Inv.	125* 125#			3	6.3
6V6 Outputs	275	200		11	6.3
580 Rectifiers	350AC per plate			300	5.0
6C5 Tunalite	145AC				6.3

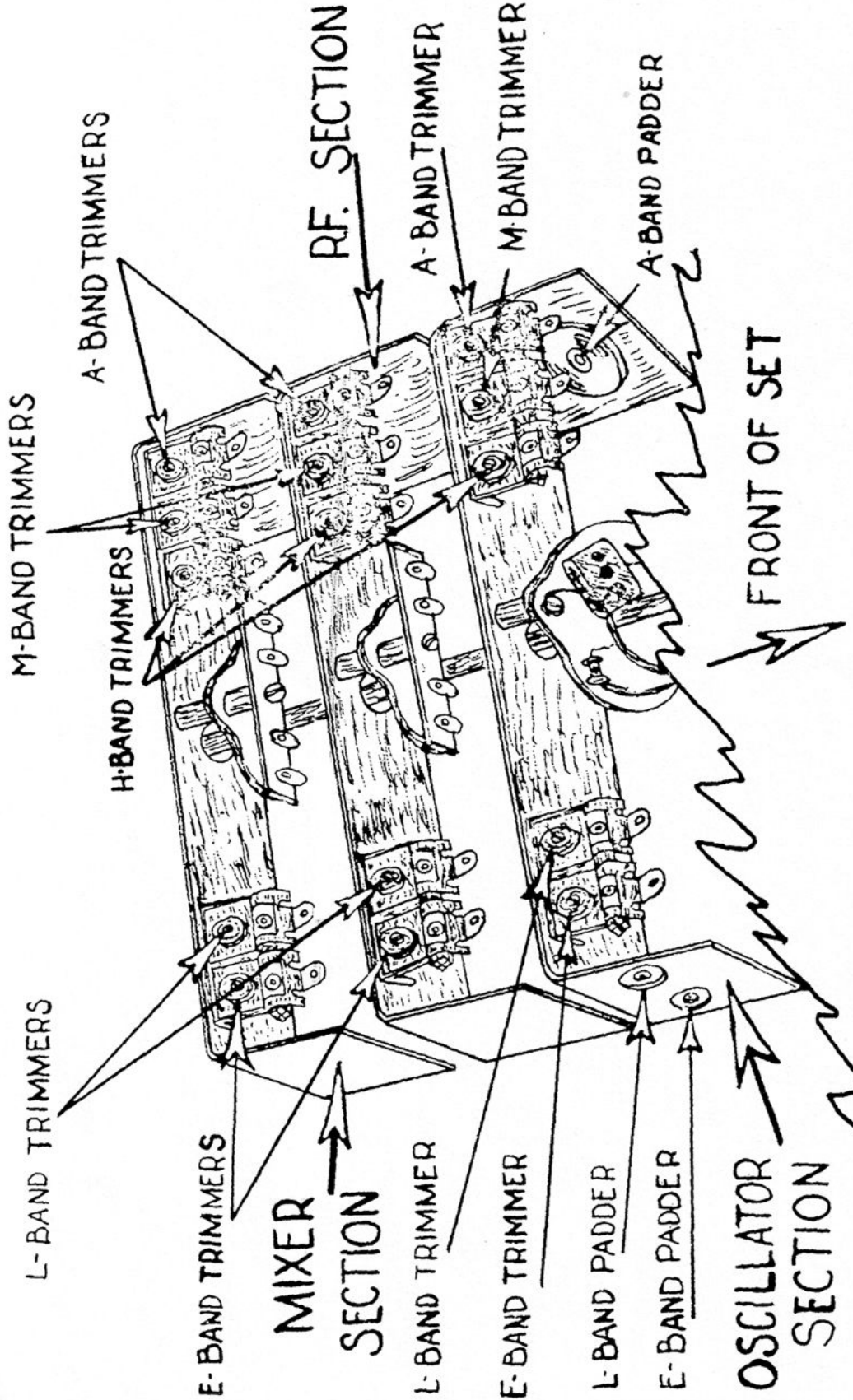
* Plate #1
Plate #2

All voltages taken with 110 V. line voltage and 1000 ohm per volt meter.

MIDWEST CHASSIS 12-38 VOLTAGE CHART

Revised January 31, 2011

Mike Simpson



MIDWEST CHASSIS 12-38 RF ALIGNMENT LOCATIONS

Revised January 31, 2011

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MIDWEST CHASSIS 12-38

ALIGNMENT

I.F. AND DISCRIMINATOR ALIGNMENT

Remove the oscillator tube. Connect AC volt meter to voice coil or DC volt meter to measure AVC line voltage.

Connect output of RF Generator to grid of mixer tube through .01 Ufd capacitor, low side to chassis. Set generator to 456 KC, modulated output. Adjust IF transformer trimmers A1 thru A5 for maximum reading. Repeat procedure with lower level output from generator to assure proper peak.

Increase generator output to simulate an average radio signal.

Turn Tone/AFC control switch to RIGHT half. Connect 5 Ma meter in series with 6J7, AFC Control Tube, cathode and note reading. Turn Tone Control switch to LEFT half and adjust IF trimmer A6 to obtain same reading on meter.

Alternate method:

Turn Tone/AFC control switch to RIGHT half. Connect VTVM to grid cap of 6J7, AFC Control Tube, and note DC Voltage reading. This should be near Zero volts. Turn Tone Control switch to LEFT half and adjust IF trimmer A6 to obtain same reading on meter. Increase generator output if necessary for proper adjustment.

Trimmer A6 may require a touch-up using a station to assure proper AFC function.

BAND ALIGNMENT

The "E" band covers 125 kc. to 350 kc. This band should be padded at 135 kc. and trimmed at 340 kc. Adjust R.F. and Mixer trimmers for maximum gain at 340 kc.

The "A" band covers 550 kc. to 1500 kc. This band should be padded at 540 kc. and trimmed at 1400 kc. Adjust R.F. and Mixer trimmers for maximum gain at 1400 kc.

The "L" band covers from 1.5 mc. to 4.5 mc. This band should be padded at 1.8 mc. and trimmed at 4.0 mc. The R.F. trimmer should be adjusted at 4.0 mc. for maximum gain.

The "M" band covers from 4.0 mc. to 12 mc. This band has a fixed padder and should be trimmed at 11.5 kc. Adjust R.F. and Mixer trimmer for maximum gain at 11.5 mc.

The "H" band covers from 12 mc. to 30 mc. This band has a fixed padder and should be trimmed at 26 mc. Adjust R.F. trimmer at 26 mc. for maximum gain.

Note:- When aligning bands a dummy antenna, consisting of a 200 ohm resistance and 10 mmfd. condenser in parallel, should be connected in series with output of signal generator.