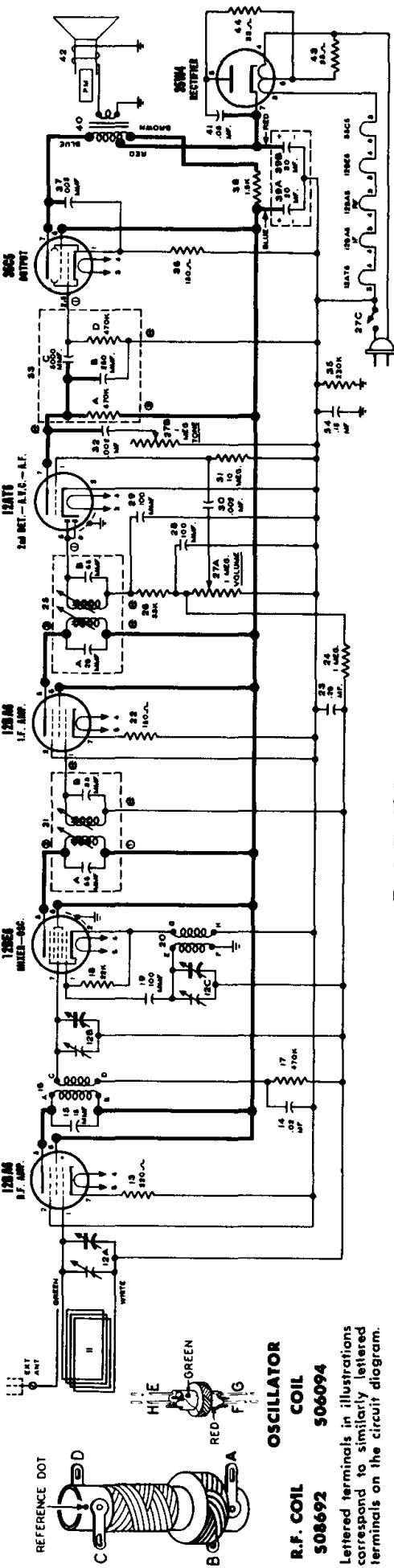
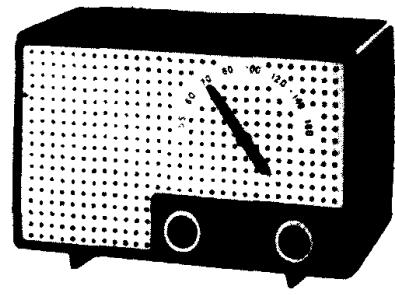


STEWART-WARNER MODELS 9165-A & 9165-B



PARTS LIST

DIA-GRAM NO.	PART NO.	DESCRIPTION	DIA-GRAM NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
CONDENSERS							
12, A,B,C	.520388	Condenser—variable gang (includes drum)	33-A	505858	Resistor—carbon 470,000 Ohms 1/5 watt (Part of Audio Coupling Unit)	508235	Clip—retains cabinet back
14	.512016	Condenser—.02 Mfd. 400 volt	33-D	505858	Resistor—carbon 470,000 Ohms 1/5 watt (Part of Audio Coupling Unit)	117057	Cord—dial drive (2 ft. required)
15	.513405	Condenser—ceramic 15 Mmfld. 500 volt (Temperature Compensating)	35	510179	Resistor—carbon 220,000 Ohms 1/2 watt	520387-A	Knob—“TONE” for Model 9165-A (Yellow)
19	.512503	Condenser—mica 100 Mmfld. 500 volt	36	510121	Resistor—carbon 150 Ohms \pm 10% 1/2 watt	520387-B	Knob—“TONE” for Model 9165-B (Tan)
21-A	.505867	Condenser—ceramic 66 Mmfld. (Part of 1st I.F. Transformer)	38B	5100240	Resistor—carbon 1500 Ohms 1 watt	520385-A	Knob—“TUNING” for Model 9165-A (Black and Yellow)
21-B	.505867	Condenser—ceramic 83 Mmfld. (Part of 1st I.F. Transformer)	43,44	510210	Resistor—carbon 33 Ohms 1 watt	520385-B	Knob—“TUNING” for Model 9165-B (Rust and Tan)
23	.512016	Condenser—.02 Mfd. 400 volt	11	508740	Loop antenna	520386-A	Knob—“VOLUME ON” for Model 9165-A (Black)
25-A	.505867	Condenser—ceramic 83 Mmfld. (Part of 2nd I.F. Transformer)	16	508492	Coil—R.F.	520386-B	Knob—“VOLUME ON” for Model 9165-B (Rust)
25-B	.505867	Condenser—ceramic 66 Mmfld. (Part of 2nd I.F. Transformer)	20	505094	Coil—oscillator	520384-A	Pointer for Model 9165-A (Black)
28,29	.512503	Condenser—mica 100 Mmfld. 500 volt	21	505867	Transformer—1st I.F. (Includes condensers 21-A and 21-B)	520384-B	Pointer for Model 9165-B (Rust)
30	.512002	Condenser—.002 Mfd. 600 volt	25	505867	Transformer—2nd I.F. (Includes condensers 25-A and 25-B)	520186	Rubber washer for mounting front panel to cabinet body
32	.512002	Condenser—.002 Mfd. 600 volt	40	508146	Transformer—output	18785	Screw—#8-7/8" chassis mounting
33-B	.505858	Condenser—ceramic 250 Mmfld. 450 volt (Part of Audio Coupling Unit)	33-A to D	505858	Audio Coupling Unit	170819	Screw—#8-32 x 3/8" plastic thread cutting; mounts clip for cabinet back
33-C	.505858	Condenser—ceramic 500 Mmfld. 450 volt (Part of Audio Coupling Unit)	33-A	505858	A—Resistor—carbon 470,000 Ohms 1/5 w.	170820	Screws—#8-32 x 1/2" plastic thread cutting; retains cabinet back
34	.512040	Condenser—.005 Mfd. 600 volt	33-B	505858	B—Condenser—ceramic 250 Mmfld. 450 v.	520389	Shaft—tuning
37	.512006	Condenser—.005 Mfd. 600 volt	33-C	505858	C—Condenser—ceramic 500 Mmfld. 450 v.	503367	Shield—tube, miniature
39-A,B	.508147	Condenser—electrolytic A—20 Mfd. 150 v. B—30 Mfd. 150 v.	41	510290	D—Resistor—carbon 470,000 Ohms 1/5 w.	507364	Socket—miniature (7 pin)
41	510290	Condenser—.05 Mfd. 600 volt	42	508899	E—Speaker—P.M. Dynamic (5")	505161	Spring—dial card tension
RESISTORS							
13	.510125	Resistor—carbon 220,000 Ohms 1/2 watt	508244	Back for cabinet front	MISCELLANEOUS		
17	.510185	Resistor—carbon 470,000 Ohms 1/2 watt	505368	Base for tube shield (miniature)			
18	.510161	Resistor—carbon 22,000 Ohms 1/2 watt	505165	“C” washer for tuning shaft			
22	.510121	Resistor—carbon 150 Ohms \pm 10% 1/2 watt	520391	Cabinet (complete) for Model 9165-A (Black and Yellow)			
24	.510191	Resistor—carbon 1 Meg. 1/2 watt	520392	Cabinet (complete) for Model 9165-B (Rust and Tan)			
26	.510164	Resistor—carbon 33,000 Ohms 1/2 watt	520383-A	Cabinet body for Model 9165-A (Black)			
27,A,B,C	.520390	Volume and tone control (includes ON-OFF switch)	520383-B	Cabinet body for Model 9165-B (Rust)			
IF. TUNING							
11	510197	Resistor—carbon 10 Meg. 1/2 watt	520382-A	Cabinet front for Model 9165-B (Rust and Tan)			
IF. TUNING							
(If this component is mounted on an auxiliary bracket, remove this bracket and mount new control directly to side of chassis.)							
I.F. 455 K.C.							



I.F.
455 K.C.

Stewart-Warner Models 9165-A and 9165-B, continued from preceding page.

ALIGNMENT PROCEDURE

1. During the alignment of this receiver, the pointer will have to be set to a specific frequency. Since the dial scale is an integral part of the cabinet, the receiver chassis must be in the cabinet for correct positioning of the gang condenser and pointer.

Before setting the pointer to the desired frequency, it will be necessary to check the position of pointer with respect to the gang condenser. To accomplish this, rotate tuning knob fully counter-clockwise until gang condenser is fully meshed. With gang in this position, pointer should be parallel with base of cabinet.

If the pointer is not properly positioned, hold the Tuning Knob steady and move the pointer manually to the proper place.

2. Before removing chassis from cabinet, it will be necessary to take off the Volume Control knob, Tone knob, Tuning knob and cabinet back and to remove the two chassis mounting screws at bottom of cabinet. Then turn the tuning shaft until pointer is set to desired frequency for alignment and taking care not to change this setting, remove pointer.

3. Connect an output meter across the speaker voice coil or from the plate of the 35C5 tube to B- (see voltage chart for convenient connection point) through a 0.1 Mfd. condenser.

4. Connect ground lead of signal generator to B- lug.

CAUTION: If your signal generator is designed with an AC-DC power supply, connect ground lead to B- lug through a .25 Mfd. condenser. (See voltage chart for convenient B- connection.)

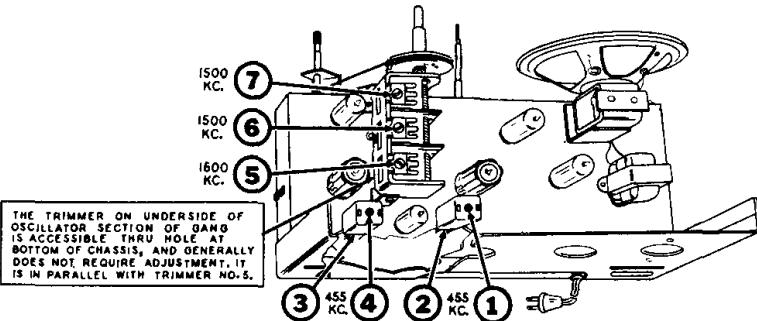
5. Set tone control to its maximum clockwise position.

6. Set volume control at maximum volume position and use a weak signal from the signal generator.

7. After alignment has been completed and chassis reassembled in cabinet and pointer properly positioned, check calibration over entire dial and should the calibration error be objectionable, repeat procedure, exercising greater precaution in the initial setting of the pointer.

DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER AND SLUG NUMBER	TRIMMER AND SLUG DESCRIPTION	TYPE OF ADJUSTMENT
0.1 Mfd. Condenser	Lug on R.F. Trimmer #6	455 KC 400 cycle Modulation	Any point where it does not affect the signal.	1-2	2nd I.F.	Adjust for maximum output. Then repeat adjustment.
				3-4	1st I.F.	
200 Mmfd. Mica Condenser	External Antenna Terminal on Loop Frame	1600 KC 400 cycle Modulation	1500 KC	5	Broadcast Oscillator	Adjust for maximum output.
200 Mmfd. Mica Condenser	External Antenna Terminal on Loop Frame	1500 KC 400 cycle Modulation	Tune to 1500 KC generator signal	6	Broadcast R.F.	Adjust for maximum output.
200 Mmfd. Mica Condenser	External Antenna Terminal on Loop Frame	1500 KC 400 cycle Modulation	Tune to 1500 KC generator signal	7	Broadcast Antenna	Adjust for maximum output.

TRIMMER LOCATION CHART



- All measurements made with a voltmeter having a sensitivity of 20,000 ohms per volt except where indicated by (*). The (*) symbol designates a vacuum tube voltmeter measurement.
- Terminals on loop antenna are shorted together to minimize noise signal pickup.
- Dial tuned to 540 Kc.
- Volume control set to maximum with no signal.
- Tone control set at its maximum clockwise position.

NOTE A: The center stud of this tube must be connected to B- to reduce capacity coupling between pins. Oscillation may result if this connection is omitted.

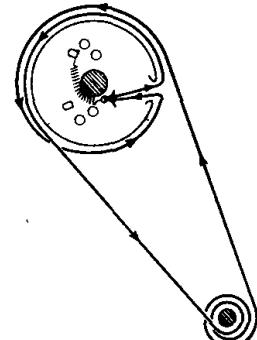
POINTER AND DRIVE CORD ARRANGEMENT

To string dial cord, turn the main drive drum to maximum counter-clockwise position and use following parts:

114955 Clip on end of cord

117057 Cord (2 feet)

505161 Tension Spring



BOTTOM VIEW OF CHASSIS

