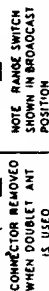


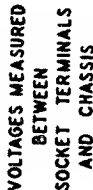
Stewart-Warner Corp.

Stewart-Warner Corp.			
	Model: 1361	Chassis:	Year: Pre October 1936
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1926-38 196			
Riders 6 (VI) STEW WAR 6-18			
Riders 7 (VII) STEW WAR 7-4			

COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS



LINE VOLTAGE 115 VOLTS Volume Control on Full
RANGE SWITCH SET ON BROADCAST POSITION



IMPORTANT: Use a high resistance meter of 1000 ohms per volt.

NOTE A: The grid bias on the 6F6 output tube is -16.5 volts, measured across the resistors 17A and 17B.

NOTE B: The grid bias on the 6J7 amplifier tube is -1.7 volts measured across resistor 17B.

Speaker field resistance is 1300 ohms with coil warm.



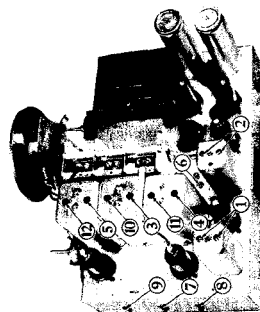
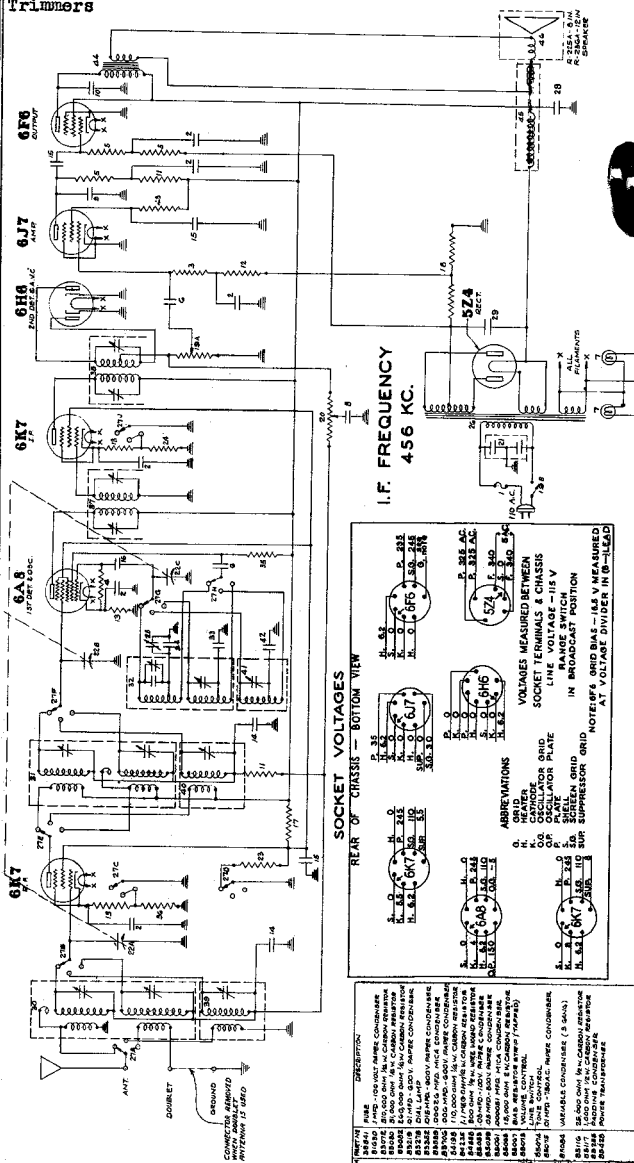
	No. 3 S.W.)	No. 3 S.W.)	No. 3 S.W.)	Diagram Part	DESCRIPTION
	R. F. coil and shield assembly (B & S.W.)	Oscillator coil and shield assembly (B & S.W.)	No. 3 S.W.)	No.	
85433				3884A	Fuse, 1 amp.
85434				3885A	1 mfd. 17½ volt paper condenser.
85440				3890A	31,000 ohm ¼ watt carbon resistor.
85441				3892A	31,000 ohm ¼ watt carbon resistor.
85442				3896A	260,000 ohm ¼ watt carbon resistor.
85443				3898A	260,000 ohm ¼ watt carbon resistor.
85444				3921A	01 mfd. 63 volt paper condenser.
85452				3927A	01 mfd. 63 volt paper condenser.
85453				3927B	01 mfd. 63 volt paper condenser.
85454				3927C	01 mfd. 63 volt paper condenser.
85455				3927D	01 mfd. 63 volt paper condenser.
85456				3927E	01 mfd. 63 volt paper condenser.
85457				3927F	01 mfd. 63 volt paper condenser.
85458				3927G	01 mfd. 63 volt paper condenser.
85459				3927H	01 mfd. 63 volt paper condenser.
85460				3927I	01 mfd. 63 volt paper condenser.
85461				3927J	01 mfd. 63 volt paper condenser.
85462				3927K	01 mfd. 63 volt paper condenser.
85463				3927L	01 mfd. 63 volt paper condenser.
85464				3927M	01 mfd. 63 volt paper condenser.
85465				3927N	01 mfd. 63 volt paper condenser.
85466				3927O	01 mfd. 63 volt paper condenser.
85467				3927P	01 mfd. 63 volt paper condenser.
85468				3927Q	01 mfd. 63 volt paper condenser.
85469				3927R	01 mfd. 63 volt paper condenser.
85470				3927S	01 mfd. 63 volt paper condenser.
85471				3927T	01 mfd. 63 volt paper condenser.
85472				3927U	01 mfd. 63 volt paper condenser.
85473				3927V	01 mfd. 63 volt paper condenser.
85474				3927W	01 mfd. 63 volt paper condenser.
85475				3927X	01 mfd. 63 volt paper condenser.
85476				3927Y	01 mfd. 63 volt paper condenser.
85477				3927Z	01 mfd. 63 volt paper condenser.
85478				3927A	01 mfd. 63 volt paper condenser.
85479				3927B	01 mfd. 63 volt paper condenser.
85480				3927C	01 mfd. 63 volt paper condenser.
85481				3927D	01 mfd. 63 volt paper condenser.
85482				3927E	01 mfd. 63 volt paper condenser.
85483				3927F	01 mfd. 63 volt paper condenser.
85484				3927G	01 mfd. 63 volt paper condenser.
85485				3927H	01 mfd. 63 volt paper condenser.
85486				3927I	01 mfd. 63 volt paper condenser.
85487				3927J	01 mfd. 63 volt paper condenser.
85488				3927K	01 mfd. 63 volt paper condenser.
85489				3927L	01 mfd. 63 volt paper condenser.
85490				3927M	01 mfd. 63 volt paper condenser.
85491				3927N	01 mfd. 63 volt paper condenser.
85492				3927O	01 mfd. 63 volt paper condenser.
85493				3927P	01 mfd. 63 volt paper condenser.
85494				3927Q	01 mfd. 63 volt paper condenser.
85495				3927R	01 mfd. 63 volt paper condenser.
85496				3927S	01 mfd. 63 volt paper condenser.
85497				3927T	01 mfd. 63 volt paper condenser.
85498				3927U	01 mfd. 63 volt paper condenser.
85499				3927V	01 mfd. 63 volt paper condenser.
85500				3927W	01 mfd. 63 volt paper condenser.
85501				3927X	01 mfd. 63 volt paper condenser.
85502				3927Y	01 mfd. 63 volt paper condenser.
85503				3927Z	01 mfd. 63 volt paper condenser.
85504				3927A	01 mfd. 63 volt paper condenser.
85505				3927B	01 mfd. 63 volt paper condenser.
85506				3927C	01 mfd. 63 volt paper condenser.
85507				3927D	01 mfd. 63 volt paper condenser.
85508				3927E	01 mfd. 63 volt paper condenser.
85509				3927F	01 mfd. 63 volt paper condenser.
85510				3927G	01 mfd. 63 volt paper condenser.
85511				3927H	01 mfd. 63 volt paper condenser.
85512				3927I	01 mfd. 63 volt paper condenser.
85513				3927J	01 mfd. 63 volt paper condenser.
85514				3927K	01 mfd. 63 volt paper condenser.
85515				3927L	01 mfd. 63 volt paper condenser.
85516				3927M	01 mfd. 63 volt paper condenser.

MODELS 1361 to 1369

Chassis R-136 (Temporary) STEWART WARNER CORP.

Schematic, Socket, Parts

Trimmers

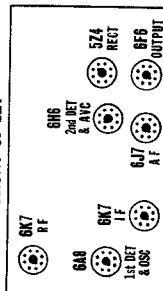


1. 1st I.F. TRANS. TRIMMERS
2. 2nd I.F. TRANS. TRIMMERS
3. BROADCAST OSCILLATOR SHUNT TRIMMER
4. BROADCAST DETECTOR SHUNT TRIMMER
5. BROADCAST ANTENNA SHUNT TRIMMER
6. BROADCAST OSCILLATOR SHUNT TRIMMER
7. BAND NO. 2 OSCILLATOR SHUNT TRIMMER
8. BAND NO. 2 DETECTOR SHUNT TRIMMER
9. BAND NO. 2 ANTENNA SHUNT TRIMMER
10. BAND NO. 3 OSCILLATOR SHUNT TRIMMER
11. BAND NO. 3 DETECTOR SHUNT TRIMMER
12. BAND NO. 3 ANTENNA SHUNT TRIMMER

FIG. 136-100 (PARTIAL) S.W.A.

TUBE LOCATIONS

FRONT OF SET



WARRANTY	DESCRIPTION
1. 1st I.F. TRANS. TRIMMERS	1. 1st I.F. TRANS. TRIMMERS
2. 2nd I.F. TRANS. TRIMMERS	2. 2nd I.F. TRANS. TRIMMERS
3. BROADCAST OSCILLATOR SHUNT TRIMMER	3. BROADCAST OSCILLATOR SHUNT TRIMMER
4. BROADCAST DETECTOR SHUNT TRIMMER	4. BROADCAST DETECTOR SHUNT TRIMMER
5. BROADCAST ANTENNA SHUNT TRIMMER	5. BROADCAST ANTENNA SHUNT TRIMMER
6. BROADCAST OSCILLATOR SHUNT TRIMMER	6. BROADCAST OSCILLATOR SHUNT TRIMMER
7. BAND NO. 2 OSCILLATOR SHUNT TRIMMER	7. BAND NO. 2 OSCILLATOR SHUNT TRIMMER
8. BAND NO. 2 DETECTOR SHUNT TRIMMER	8. BAND NO. 2 DETECTOR SHUNT TRIMMER
9. BAND NO. 2 ANTENNA SHUNT TRIMMER	9. BAND NO. 2 ANTENNA SHUNT TRIMMER
10. BAND NO. 3 OSCILLATOR SHUNT TRIMMER	10. BAND NO. 3 OSCILLATOR SHUNT TRIMMER
11. BAND NO. 3 DETECTOR SHUNT TRIMMER	11. BAND NO. 3 DETECTOR SHUNT TRIMMER
12. BAND NO. 3 ANTENNA SHUNT TRIMMER	12. BAND NO. 3 ANTENNA SHUNT TRIMMER

MODELS 1361 to 1369

Chassis R-136

at 16 mc., retune to 16 mc. and re-adjust Nos. 11 and 12 to the proper peak with the trimmer screws further in.

On page 6-18 of *Rider's Volume VI* appeared the temporary schematic of this chassis, which is used in Models 1361 to 1369 inclusive. The final diagram has now been released with the following changes:

Condenser No. 8, connected between the arm of the tone control and ground.

was 0.015 mf. and is now 0.006 mf. The resistance of the tone control, No.

Condenser No. 9, connected from the plate of the 6J7 to ground, has been changed from 0.00026 mf. to 0.00011 mf.

The left portion of tapped resistor No. 18 is 275 ohms and the right-hand part, that connected to ground, is 25 ohms.

The resistance of the volume control is 250,000 ohms. This is part No. 19A,

The notation was omitted from the diagram of voltages that the grid bias on the 6J7 tube is—1.7 volts, measured across the 25-ohm portion of resistor No. 18.

The resistance of the speaker field is 1300 ohms with the coil warm.

STEWART-WARNER CORP.

Final Schematic Note
Alignment, Changes
Chassis R-136P, R-136X
Phonograph Circuits

Continue to do this until maximum output is obtained.

First S-W, Band Calibration:

Turn range switch to center position.

Adjust test oscillator to 5.5 mc. and set the set's dial to the same frequency. Adjust trimmer No. 7 for maximum output. If there are two peaks, the proper one is that with the trimmer screw farthest out.

First S-W. Band. Alignment:

Set test oscillator to 5.5 mc. and tune receiver to maximum output. Adjust trimmers Nos. 8 and 9 for maximum output.

Second S-W. Band Calibration:

Be certain that the D to G connector on the receiver terminal strip is in place. Turn the range switch to the extreme

Return the range switch to the extreme counter-clockwise position. Adjust test oscillator to 16 mc. and the dial of the set to the same frequency.

Second S-W. Band Alignment:

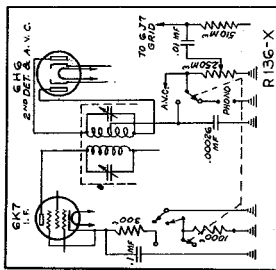
Adjust test oscillator to 16 mc. and tune set for maximum output. Adjust trimmers Nos. 11 and 12 for maximum output. Check to see if these trimmers are adjusted to the proper signal rather than the image, by tuning the set to approximately 15.1 mc. If the repeat signal is equal to or stronger than that

clockwise position. Connect the output of the test oscillator to the ser's A and G terminals and ground both set and oscillator. Adjust test oscillator and dial to 1400 kc. Adjust trimmer No. 3 for maximum output without changing the setting of the condenser gang.

Broadcast Band Alignment:

Connect a 500-ohm carbon resistor in series with the test oscillator output and the set's antenna terminal and let it remain connected for the rest of the adjustments that are outlined below. Set the oscillator at 1400 kc, and tune the receiver to the signal for maximum output. Adjust trimmers Nos. 4 and 5 for maximum output. Do not touch trimmer No. 3 as this will change calibration.

Adjust test oscillator to 600 kc. and tune set to this signal. Adjust trimmer No. 6 for maximum output. Retune gang condenser to a peak and readjust



The phonograph connections for the Stewart Warner chassis R-136-X.

Stewart Warner R-136 Chassis Alignment

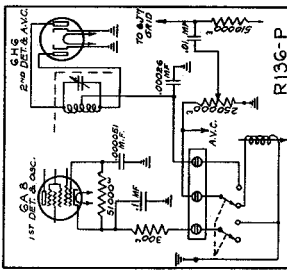
Connect the output indicator across the primary of the output transformer (red and yellow wires on the speaker terminal strip) located under the speaker field cover.

I-f. Alignment:

Turn volume control to maximum and keep it there for entire alignment procedure. Set test oscillator to 456 kc., the i-f. peak, and connect to the 6A8 control grid and the chassis. Adjust four i-f. trimmers (shown at 1 and 2 on the chassis layout on [page 6-18 of *Radio's Volume VI*](#)) for maximum output deflection. Recheck the adjustments.

Broadcast Band Calibration:

Check position of dial pointer on shaft by turning the rotor plates to full mesh. The pointer should indicate 540 cc. Turn the range switch to extreme



Schematic diagram of the Stewart Warner R-136-P chassis with phonograph pickup indicated.