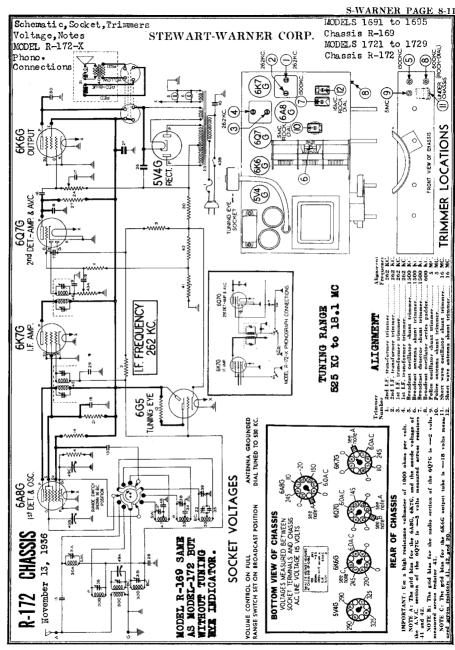


Stewart-Warner Corp.				
	Model: R-172 Chassis	Chassis:	Year: Pre October 1937	
	Power:	Circuit:	IF:	
	Tubes:	·		
	Bands:			
Resources				
Riders 8 (VIII) STEW WAR 8-11				
Riders 8 (VIII) STEW	WAR 8-12			



MODELS 1691 to 1695

Chassis R-169 MODELS 1721 to 1729

STEWART-WARNER CORP.

Chassis R-172

Alignment, Parts

CALIBRATION AND ALIGNMENT

ALIGNING EQUIPMENT: For proper alignment, an output meter and an accurately calibrated oscillator with a tuning range from 262 KC to 16 MC are required.

Connect the output meter from the plate of the output tube to chassis. A convenient point to make the plate connection is to the yellow wire on the speaker socket.

ALIGNING THE I.F. AMPLIFIER: Turn the volume control

ALIGNING THE I. F. AMPLIFIER: Turn the volume control to maximum volume position and keep it in this position throughout the entire alignment procedure. Turn the range switch to the broadcast position (fully clockwise).

Connect the test oscillator output leads to the 6A8 control grid and chassis with a 1 mfd. condenser in series with the oscillator output. Set the oscillator to exactly 262 KC. Set the receiver dial at any point where it has no tuning effect on

the oscillator signal.

Adjust the four I.F. trimmers, Nos. 1, 2, 3 and 4, for maximum output meter deflection, then repeat the trimmer adiustment

BROADCAST BAND CALIBRATION AND ALIGNMENT

With the gang condenser in full mesh, the dial pointer should be on the white horizontal line below 530 KC, on the dial scale. If it does not, hold the dial gear and turn the pointer to the correct position.

Turn the range switch to the extreme clockwise position and connect the test oscillator output to the A and G terminals of the receiver with a 400 ohm carbon resistor in series with the A terminal and the oscillator output.

A terminal and the oscillator output.
Adjust the test oscillator to exactly 1500 KC.
Tune in the 1500 KC. oscillator signal or a station above
1300 KC. on the dial and determine whether the dial calibration is correct, at the high frequency end of the dial. If the
calibration is correct, do not adjust the broadcast oscillator
shunt trimmer No. 5. If the calibration is incorrect, adjust
trimmer No. 5 to give proper calibration.

trimmer No. 2 to give proper calibration.

Carefully tune the receiver to the signal and adjust trimmers

Nos. 6 and 7 for maximum output.

Adjust the test oscillator to 600 KC. and tune the receiver

to the signal. Adjust trimmer No. 8 for maximum output.

Then try to increase the output meter reading by detuning

No. 8 slightly and retuning the receiver dial. If the output No. 8 slightly and retuning the receiver dial. If the output goes down, detune the trimmer in the opposite direction. Continue detuning the trimmer and retuning the receiver dial until maximum output meter deflection is secured. This operation is commonly known as "rocking" and when performed as described will give maximum selectivity and sensitivity even though the dial may be slightly off calibration at 600 KC.

POLICE BAND CALIBRATION AND ALIGNMENT POLICE BAND CALBRATION AND ALIGNMENI
Turn the range switch to the center position. Adjust the
test oscillator to exactly 5.0 MC. Tune in the 5 MC. oscillator
signal at or near 5 MC. on the receiver dial to determine
whether the receiver dial calibration is correct at 5 MC. If at
is, do not adjust police band oscillator shunt trimmer No. 9.
If the calibration is incorrect, set the dial pointer to 5 MC. on
the dial, and adjust the oscillator shunt trimmer No. 9 until the
cocillator shunt trimmer No. 9 until the
cocillator shunt trimmer No. 9 until the

oscillator again comes in at this point. In liter as we pease, the proper one is that with the trimmer screw farthest out. Carefully tune the receiver to the signal and adjust trimmer. No. 10 for maximum output. Then try to increase the output by detuning No. 10 slightly and retuning the receiver disl. Continue detuning No. 10 and retuning the dial until the out. put meter deflection is a maximum.

SHORT WAVE BAND CALIBRATION AND ALIGNMENT SHORT WAVE BAND CALIBRATION AND ALIGNMEN! Turn the range switch to the extreme counter-clockwise position. Set the test oscillator is 16 MC. Tune in the 16 MC. oscillator signal at 16 MC. on the receiver dial to determine whether the receiver dial calibration is correct at 16 MC. If it is, do not adjust the short wave band oscillator shunt trimmer No. 1!. If the calibration is incorrect, set the receiver dial pointer exactly at 16 MC. and adjust the oscillator shunt trimmer No. 11 until the oscillator signal comes in at this point. Check to see that it has been adjusted to MC. As one per signal to the control of t

Check to see that it has been adjusted to the proper peak by tuning the receiver to approximately 15.5 MC. A repeat signal should be heard at this point. If none is present, even with greatly increased oscillator output, retune the receiver to 16 MC. and adjust trimmer No. 11 to the proper peak with the

Carefully tune the receiver to the signal and adjust trimmer No. 12 to a peak. Then try to increase the output by detuning No. 12 to a peak. Inen try to increase the output by actuning the trimmer slightly and retuning the dial until a maximum output meter deflection is secured. Check the adjustment by tuning the receiver to the image at about 15.5 MC. The image should be much weaker than the 16 MC. signal. If the signal should be much weaker than the 10 MC, signal. If the signal at 15.5 MC, dial setting is equal to or stronger than the 16 MC signal, trimmer No. 12 is not set to the proper peak. Turn the trimmer in a turn or so, then readjust as above.

Diagram Number	Part Number	Description	List Price
1	38841	Fuse, 1 amp., 250 volt	80.10
2-3	83072	510,000 ohm 1/4 watt carbon resistor	.12
4	83080	51.000 ohm ¼ wrtt earbon resistor	.12
5-6	83278	Disl lamps	.15
7-8	83539	260 mmfd. mica condenser	.20
9	83783	110 mmfd. miea condenser	.20
10	83976	012 mfd. 1000 volt shielded condenser	.40
11-12	84235	1.1 megohm ¾ watt earbon resistor	.12
13	85061	51 mmfd. mica condenser	.15
14	85442	21,000 ohm 1/2 watt carbon resistor	.15
15	85454	11 mmfd, mica condenser	.15
16	88026	02 mfd. 400 volt paper condenser	.25
17	88030	01 mfd, 400 volt paper condenser	.25
18	88046	1 mfd. 150 volt paper condenser	.25
19	88189	05 mfd. 200 volt paper condenser	.25
20	88463	270 ohm 1 watt earbon resistor	.15
21	88464	26,000 ohm 1 watt carbon resistor	.15
22	88478	Padding condenser	.38
23	88481	Power transformer (115 volt60 cycle)	5.00
24	88488	Tone control-500,000 ohm	.80
25	88511	16 mfd. 300 volt electrolytic condenser	1.10
26	88512	,16 mfd. 400 volt electrolytic condenser	1.10
27	88532	210,000 ohm ¼ watt earbon resistor	.12
28, 29	88534	05 mfd. 159 volt condenser (low loss)	.25
30A to D	88648	Antenna and preselector coil assembly	2.30
31A-31B	88654	Dual trimmer condenser	.30
32	88660	Oseillator coil (BC.)	.60
33	88665	Oscillator coil (Police)	.58
34	88681	00255 mfd. mica condenser	.30
35	88686	200 mmfd. mica condenser	\$0.14
26-77)	00000	The same of the sa	.12
38-39	88688	Trimmer condenser	
40	88912	Output transformer for R-247-A spkr	2.00
41	88920	35 ohm 1/2 watt wire wound resistor	.12
42	89116	20 ohm 1/2 watt wire wound resistor	.12
43A (20206	(Volume control—250,000 ohm)	1.20
48B ((A.C. line switch	
45	89608	Ist I.F. transformer	2.40
46	89 60 9	2nd I.F. transformer	. 2.25
47	89615	Oscillator coil (S.W.)	78
48	89635	00495 mfd. mica condenser	50
49A 10 C	896 49		. 5.00
	89658	262 KC, wave trap (spl. for service only)	1.30
50	89826	004 mfd. 750 volt paper condenser	0.00
51	R-247-A	8 inch dynamic speaker	7.00
51	R-248-A	12 inch dynamie speaker	.11.50
		SEL DIZOV DADTO	

MODEL R-172-X PARTS

52A & 52B84-404Pi	honograph toggle switch81.10
1 88055Fu	rse, % amp., used for line voltages of
	200 to 240 volts
23 89216 Pc	wer transformer (100-249 volts, 25-
	133 ereles)11.50
5389709Pl	nonograph terminal strip

TUNING DRIVE AND DIAL PARTS

Part		List
Number	Description	Price
88564		80.12
88743	Dial drive shaft	13
88744		01
88745	Dial ring and bracket assembly (for edge lighting)	90
88748		
88956	Escutcheon with glass	1.65
89283		
89284	.Dial lump shield	0:
89285	Dial background	15
	.Dial scale	
89799		

Part		List
Number	Description	Pric
67032		
67568	Embossed washer for 88512 electrolytic condenser	0.
67590		0
84428		0
84493	No. 10 x 11/4 chassis mounting serew	e
84805		
8-1981	Tube shield (plain section)	A
84982	Tube shield (slotted section)	0
84983	Spring ring for tube shields	0
	Terminal strip (antenna and ground)	
88056	Fuse mounting strip	0
88057	Fuse cover	0
88631	Speaker cable plug	'o
88675	Speaker socket	1
88822	Speaker mounting serew for 1691A (ornamental head)	0
88958	No. 2 x % R.H.W. escutcheon screw	0
88983	Knob (for tone, tuning and volume control)	1

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