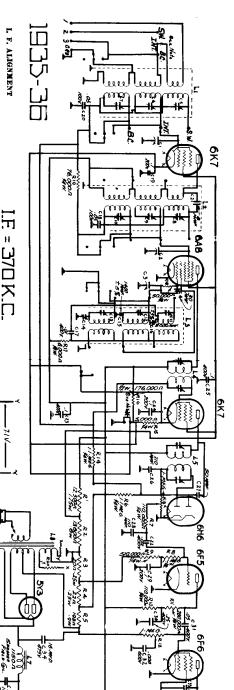
	5	Stewart-Warner Corp).	
	Model: R-185	Chassis:	Year:	
	Power:	Circuit:	IF:	
	Tubes: Bands:			
		Resources		
Radio College O	of Canada - STEWART WARNER	29		



Set the test oscillator to exactly 370 k.c., connect the output leads of oscillator through an .02 mfd. coupling condenser to the 6-A-8 control grid to ground. Set the range switch (lower left-hand knob) to the broadcast position (clockwise). Carefully adjust the LF. transformer trimmer Nos. 10, 11, 12 and 13, for maximum output, beginning with 2nd LF, trimmers Nos. 12 and 13. Repeat the four adjustments since the adjustment of each trimmer has some effect on the others.

BROADCAST BAND ALIGNMENT

1. Check the position of the dial pointer on the condenser shaft by pushing the rotor plates of the gang condenser to maximum capacity position. The pointer should be set on centre of the black dividing line on 560 k.c. end of dial. Please note that the plates should be pushed with the flagers, and not turned by means of the dial drive knob.

The range switch (left-hand knob) should set to the maximum clockwise position, which the broadcast setting.

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4. Wherever possible, use a broadcast station signal between 1300 and 1400 k.c. to calibrate the receiver dial. If no such station can be heard, you can use a 1400 k.c. signal from your oscillator, provided that it is properly calibrated. To call brate the set, turn the dial pointer to the exact frequency setting of the signal, then carefully adjust trimmer No. 7 (broadcast oscillator shunttrimmer) until the signal is tuned in with maxivolume at ite frequency setting.

With the test oscillaor set at 1400 k.c., carefully tune receiver to the signal; adjust trimmer No. 4 (broadcast R.F. trimmer) and trimmer No. 1 (broadcast antenna shunt trimmer) for maxi-

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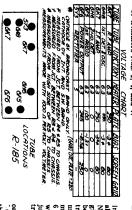
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OSC. Trimmer B.C.

anum output meter reading and check the adjustments BEETHOVEN receiver

e 6. Set the test oscillator to approximately 600 h. kc., and tune the receiver to the signal. Adjust k trimmer No. 14 (broadcast oscillator series pad) e to get maximum output meter defection. Retune the receiver dial pointer to a peak, and readjust the trimmer. Continue this procedure of adjusting the trimmer until the output meter reading e cannot be increased. Trimmer No. 14 should also be used to adjust calibration of 560 kc. end of dial. This procedure must be followed or the receiver will not be properly adjusted.

7. With a 1400 b of trimmers Nos. 1, k.c. signal, 1, 4, and 7. recheck alignment



VERY IMPORTANT—A 400-0hm, 1-wait carbon resistor ONLY must be connected in series with the antenna lead to the oscillator. DO NOT OMIT THIS RESSISTOR OR THE ALIGNMENT WILL BE INCORRECT. SHORT-WAVE ALIGNMENT

> 2. Set the test oscillator to give a 15000 ke. signal. If the oscillator cannot reach this frequency use the second harmonic of 7500 kc., the third harmonic of 8000 kc., which will give a 15000 monic of 3750 kc., all of which will give a 15000 k.c. signal.

trimmer screw farthest oit. Then adjust trimmer No. 6 (short wave R.F. shunt trimmer) for maximum output. (When adjusting trimmer No. 6 two peaks may be found. The correct one is when trimmer is turned farthest in). Then adjust trimmer No. 3 (short wave antenna shunt give maximum output. Generally, two be found. Align on the peak secured 3. To calibrate this point, turn the receiver dial indicator to 15 (15 megacycles or 15,000 k.c.) on short-wave position of dial, and adjust trimmers No. 9 (short-wave oscillator shunt trimmer) to trimmer) for maximum output. Generally, two peaks will the peak secured with the

strong as the 15,000 it shows that the trimmer No. 6 is not properly adjusted. If no signal is received at 14,260 k.c., but one at 15,740 k.c., it shows that trimmer No. 9 is aligned on wrong frequency, and thus both No. 6 and No. 9 must be readjusted at the proper frequency. 4. With a strong 15,000 k.c. signal from the oscillator, tune the receiver to 14260 k.c. and check 'or the image signal which abould be weaker than 15,000 k.c. signal. If the 14260 signal is as wave band position (centre position). Turn the receiver range switch B.C. OSC. Series Pad (19) and I.F. Trimmer and OSC Trimmer S.W (OS C. Trummer INTO

(B)

181 LF Trimmer Cond. PILOT LIGHT BULB- 6-81

0

2) Ant Trimmer Int

(1) Ant. Trimmer B.C.

RANGE SWITCH POSITIONS
LEFT-INT OR POLICE BAND
CENTRE- SW BAND.
RIGHT - BROADCAST BAND.

PF Trimmer BC

to the short-

A 400 ohm resistance for dummy antenna should be used the same as in short-wave band.

signal. left position. 2. Set the test 1. Turn the receiver range switch to the extreme oscillator to give a 5000 k.c

3. To calibrate this point, turn the receiver dial pointer to 50 (500) on middle wave frequency (inside band), and adjust trimmer No. 8 (2nd band oscillator shunt trimmer) to give maximum output. The correct signal will be the one found when the trimmer is screwed the furthest out, or the lowest capacity setting. Adjust trimmers Nos. 5 and 2 for maximum output

Note—If the 6-A-8-G or 6-K-7G Octal base tubes are interchanged with the 6-A-8 and 6-K-7 type metal tubes, the receiver should be completely realigned, otherwise a very noticeable reduction in sensitivity and selectivity will result. INTERMEDIATE OR POLICE BAND SAF Trimmer Int DATA SHEET

STEWART-WARNER-29