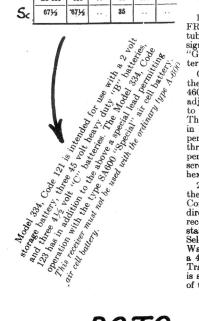


	Det Osc.	1st I. F.	2nd Det.	1st A. F.	Driver	Out- put	
FP	1C6	34	30	32	30		
	1.9	1.9	1.9	1.9	1.9	1.9	
	P-135 G2-120	135		40	135	135	
Sc	671/2	671/2		35			



ADJUSTING MODEL 334

DO NOT ATTEMPT TO ADJUST the compensating condensers mounted upon sections numbered 3 and 4 of the Tuning Condenser Assembly. These have been adjusted, and sealed, at the factory.

1—ADJUSTMENT OF THE INTERMEDIATE FREQUENCY—Remove the grid clip from the type 1C6 tube and connect the "ANT" output terminal of the signal generator to the grid cap of the tube. Connect the "GND" terminal of the signal generator to the "GND" terminal of the receiver chassis.

Connect the output meter to the primary terminals of the output transformer. Set the signal generator at 460 K.C. (the intermediate frequency of Model 34) and adjust each of the I.F. compensating condensers in turn, to give maximum response in the output of the receiver. The location of the I.F. compensating condensers is shown in Figure 2. Each of these transformers has a dual compensating condenser mounted at its top, and accessible thru a hole in the top of the coil shield. In the dual compensators, the Primary circuit is adjusted by turning the screw; the Secondary circuit is adjusted by turning the hex-head nut.

2—ADJUSTMENT OF THE WAVE TRAP—Replace the grid clip upon the Detector-Oscillator tube (Type 1C6). Connect the output leads from the signal generator directly to the antenna and ground terminals of the receiver. Set the Wave-Band Switch of the receiver to the standard broadcast band (Range 1) and the Station Selector at the low frequency (520 K.C.) end. Adjust the Wave Trap ② condenser to give MINIMUM response to a 460 K.C. signal from the signal generator. The Wave Trap ② is located at rear and underneath the chassis, and is shown in Figures 2 and 5. It is reached from the rear

3—ADJUSTMENT OF THE DIAL FREQUENCIES
Model 34 has four separate frequency bands or ranges,
each obtained by one of the four positions of the waveband switch. There is a compensating condenser for each

DUTPUT

WHITE

C-3 BLUE
C-7.5 GREEN
C- RED
C-3 RED-WHITE TR.

range, which must now be adjusted. In the following procedure, the frequency ranges referred to, and obtained by the different positions of the switch are:

Range	1				520 K.C.—1500 K.C.
Range	2				1.5 M.C.—4.0 M.C.
Range	3				.4.0 M.C.—11.0 M.C.
Range	4	 			.11.0 M.C.—23.0 M.C.

Connect the output terminals of the Model 091 or equivalent Signal Generator, to the "ANT" and "GND" terminals of the receiver chassis. Connect an output meter to the primary terminals of the Output Transformer of the receiver. Set the Wave-Band Switch to Range 4, and the Station Selector at 21.6 M.C. The sixth harmonic of the 3.6 M.C. crystal in the Model 091 Signal Generator is picked up at this point. Adjust the compensating condenser ® on Section 1 of Tuning Condenser for maximum response in the output of the receiver.

Turn the Wave-Band Switch to Range 3, and the Station Selector to 10.8 M.C. Here, the third harmonic of the 3.6 M.C. crystal will be heard. Adjust the compensating condenser (a) on Section 2 of Tuning Condenser for maximum response in the output of the receiver.

for maximum response in the output of the receiver.

Turn the Wave-Band Switch to Range 2, and adjust
the Station Selector to 3.6 M.C. The "Antenna" connection between the Signal Generator and the receiver chassis
must be removed for this adjustment, otherwise the output
of the Signal Generator will be too great. Adjust the
compensating condenser ③ to give maximum response in
the output circuit. This compensating condenser is
located underneath the chassis and is not accessible from
above. See Figure 5.

This concludes adjustments requiring the Model 091 (or equivalent) high frequency signal generator.

The Model 048 or its equivalent is now used again. Turn the Wave-Band Switch of the set to Range 2 and the Station Selector to 1.5 M.C. Set the Signal Generator at 1500 K.C. Make sure the "Antenna" connection between the Signal Generator and the Chassis has been restored. Adjust compensating condenser (a) located underneath the chassis, (Figure 5). Adjustment is made from the underside of the chassis.

Tune the Wave-Band Switch to Range 1 and the Station Selector to 1400 K.C. Set the Signal Generator at 1400 K.C. Adjust compensating condenser (4), which is located underneath the chassis. (See Figure 5). This adjustment is made from the underside of chassis.

Finally, with Wave-Band Switch at Range 1, and Station Selector at 520 K.C., set the Signal Generator at 520 K.C. and adjust compensating condenser ® (Figure 5). This compensating condenser is also mounted underneath the chassis, and reached from below.

For proper and accurate adjustment of Model 334, the procedure must be tollowed exactly in the order given. The adjustment should not be undertaken without proper equipment as mentioned above.

DATA SHEET

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PHILCO-26