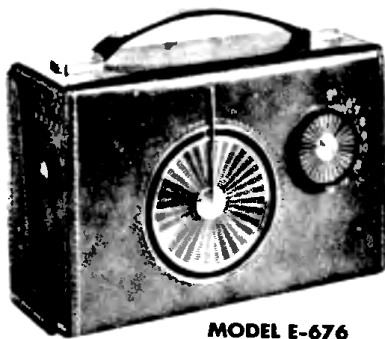


PHILCO

E-670, E-672, E-675 AND E-676



MODEL E-676

ALIGNMENT PROCEDURE

General—Allow set and test equipment to warm up for fifteen minutes before starting the alignment.

Dial Indicator—Before alignment, the dial knob should be set as follows: with the condenser gang plates fully meshed, the indicator on knob should be pointing straight up.

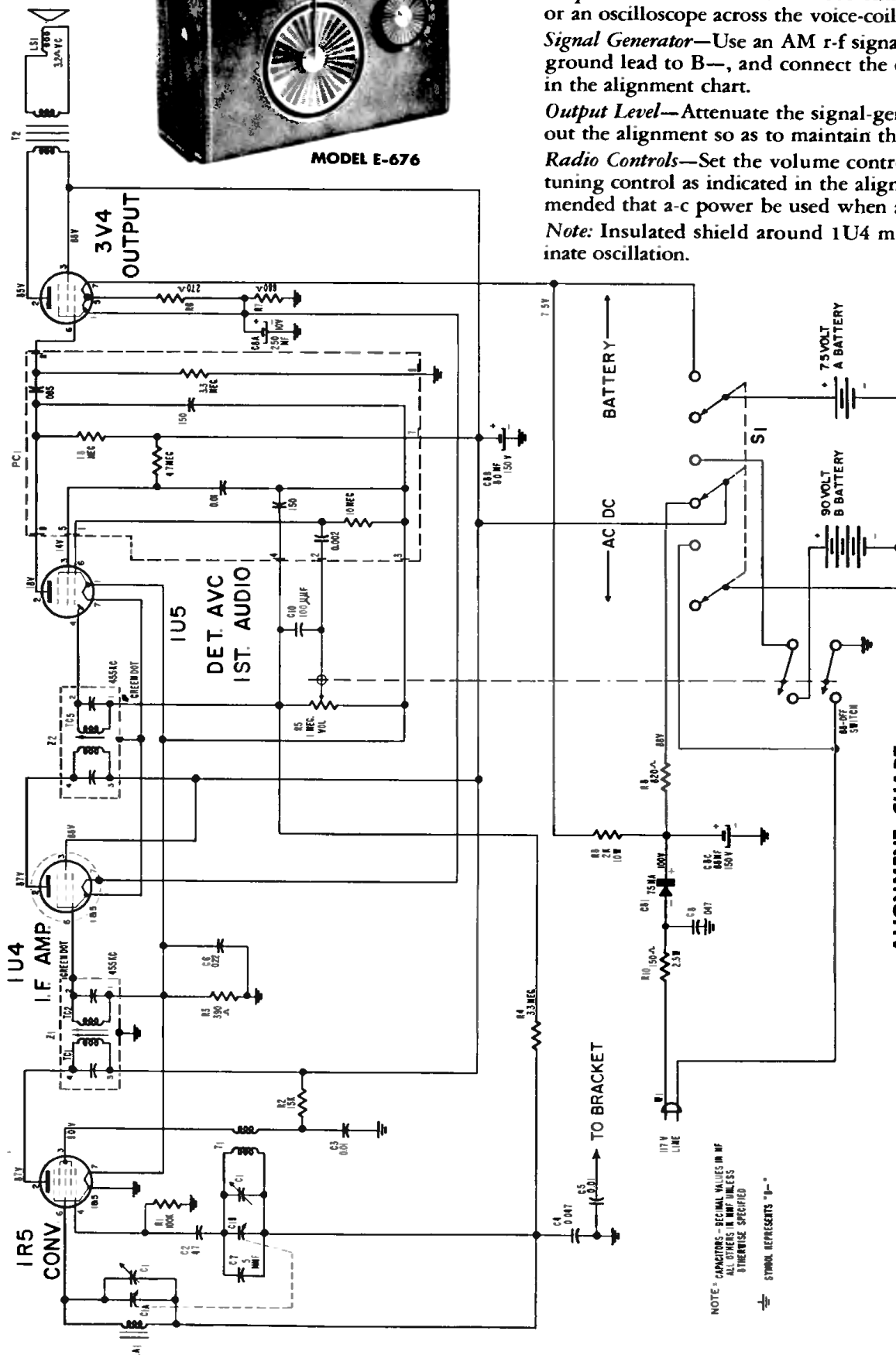
Output Indicator—Connect a 1000-ohms-per-volt a-c voltmeter or an oscilloscope across the voice-coil terminals.

Signal Generator—Use an AM r-f signal generator. Connect the ground lead to B—, and connect the output lead as indicated in the alignment chart.

Output Level—Attenuate the signal-generator output through-out the alignment so as to maintain the output below .4 volts.

Radio Controls—Set the volume control to maximum. Set the tuning control as indicated in the alignment chart. It is recommended that a-c power be used when aligning the radio.

Note: Insulated shield around 1U4 must be in place to eliminate oscillation.



ALIGNMENT CHART

STEP	SIGNAL GENERATOR CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	RADIO SPECIAL INSTRUCTIONS	ADJUST
1	Connect signal generator through a .1 mfd condenser to pin 6 (converter grid) of 1R5.	455 kc.	Tuning gang fully open.	Adjust for maximum output in order given.	TC3—2nd I-F sec. TC2—1st I-F sec. (top Z1) TC1—1st I-F pri. Bot. Z1)
2	Use radiating loop (See note one below).	1620 kc.	1620 kc. (See note 2 below.)	Adjust for maximum.	C1B—osc. trimmer
3	Same as step 2.	1400 kc.	1400 kc. (Tune for signal.)	Adjust for maximum.	C1A—ant. trimmer

NOTE 1: Use a 6- to 8-turn, 6 inch diameter loop made up of insulated wire. Connect to generator terminals, and place about one foot from radio loop.

NOTE 2: The tuning condenser can be set to the proper frequency for the oscillator adjustment as follows: Fully open the tuning gang and insert a .006 non-metallic shim between the heel of the rotor and the top of the stator plates. Close the gang sufficiently to hold the shim in place, and then remove the shim without disturbing the gang setting.