## **MODEL TP-21**

## SPECIFICATIONS

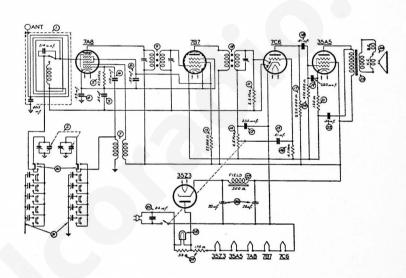
Model TP-21 is a five tube, electric push-button tuning superheterodyne radio with a manual tuning range covering 540 to 1580 K. C. In addition a loop aerial is built into the cabinet for portable use. Aerial connections are also provided on the rear of the cabinet for locations such as steel reinforced buildings, apartment houses or any other location where signal strength is weak. If an outside aerial is necessary, the Philco Utility Aerial, Part No. 40-6384, is recommended. Six electric push-buttons are provided on this model. Five are used for stations and one push-button for selecting dial tuning. The push-buttons cover a frequency range as follows: 540 to 1600 kilocycles. The procedure for adjusting and operating the electric pushbuttons will be found on page 10.

INTERMEDIATE FREQUENCY: 455 K. C.

POWER SUPPLY: Operates on either a 115 volt, alternating current (A. C.) or a 115 volt, direct current (D.C.) power supply.

PHILCO TUBES USED: One 7A8, converter; one 7B7, I. F. amplifier; one 7C6, 2nd detector, 1st audio, A. V. C.; one 35A5, audio output; one 35Z3 rectifier.

ALIGNING PROCEDURE: The aligning procedure for this model will be found on page (6).



## REPLACEMENT PARTS

SCHE No.	. DESCRIPTION	PART No.	SCHE.	DESCRIPTION	PART No.	SCHE.	DESCRIPTION	PART No.
12345678910112131441561171819022122	Description  Joop Antenna Assembly 3: Tuning Condenser (.05 mf., 200 v.), 4: Tubular Condenser (.05 mf., 200 v.), 4: Tubular Condenser (.10 mm.), 4: Mica Condenser (.10 mm.), 5: Mica Condenser (.10 mm.), 5: Mica Condenser (.10 mm.), 8: Oscillator Transformer 3: Tubular Condenser (.05 mf., 200 v.), 3: 1st I. F. Transformer 3: And I. F. Transformer 3: Resistor (2.2 megs., ½ watt), 3: Mica Condenser (250 mm.), 6: Resistor (27,000 ohms, ½ watt), 3: Tubular Condenser (.01 mf., 200 v.), 3: Tubular Condenser (.01 mf., 200 v.), 3: Resistor (4.7 megs., ½ watt), 3: Resistor (220,000 ohms, ½ watt), 3: Resistor (147, megs., ½ watt), 3: Resistor (147, megs., ½ watt), 3: Resistor (147, 000 ohms, ½ watt), 3: Resistor (130 ohms, ½ watt), 3: Resistor (147,000 ohms, ½ w	8-9937 1-2414 0-45198 0-45198 3-347154 0-1180 2-3152 2-3177 2-3178 3-522154 1-10033 3-327134 3-5206 3-427154 0-45728 1-0033 3-3427154 0-44798 3-427154 0-45728 1-10033 3-447154 3-427154	23	Output Transformer (for Speaker 36-1469-1) (for Speaker 36-1469-2) (for Speaker 36-1469-9) (for Speaker 36-1469-9) (for Speaker 36-1469-9) (for Speaker 36-1469-1) (for Speaker 36-1469-1) (for Speaker 36-1469-1) (for Speaker 36-1469-9) Tubular Condenser (-04 mf., 400 v. Electrolytic Condenser (20-20 mf., 150 v.) Field Coil Part of Speaker Nellot Lamp Line Resistor Push Button Switch Padding Condenser Strip  MISCELLANEOUS PAF Baffle and Grille Silk Cable (Power) Cabinet Back Cabinet Back	. 32-8047 32-8044 32-8044 36-4113 36-4132 36-413 36-413 36-413 36-413 36-413 31-328 31-328 31-328 31-328 31-324 31	No.	Clip (Coil Mounting) Drive Arm (Pointer) Drive Arm (Pointer) Drive Drive (Cond.) Drive Cord (Tail Pointer) Drive Shaft (Dial Pointer) Handle Handle Knob (Volume Tuning) Knob (Push-button Switch) Rubber Grommet (Switch and Padder Mtg.) Rubber Tubing (Driving Arm) Spring (Drive Cord) Screw (Chassis Mounting) Screw (Chassis Mounting) Screw (Chassis Mounting) Screw (Cabinet Back Mtg.) Screw (Cabinet Back Mtg.) Screw (Cabinet Back Mush.) Screw (Cabinet Back Mush.) Screw (Cabinet Back Mounting) Socket (Tubes) Socket (Flot Lamp) Tab (Dial) Tab (Dial)	. 28-5002 . 56-1376 . 66-6033 . 31-2358 . 31-2358 . 31-2370 . 45-6053 . 27-4824 . 27-4815 . 27-4824 . 27-4596 . 27-9334 . 36-1469 . 28-8751 . W-2176 g). W-2036 . 56-6056 . W-2029 g). W-2029 g). W-2029 . 38-9825 . 27-5528