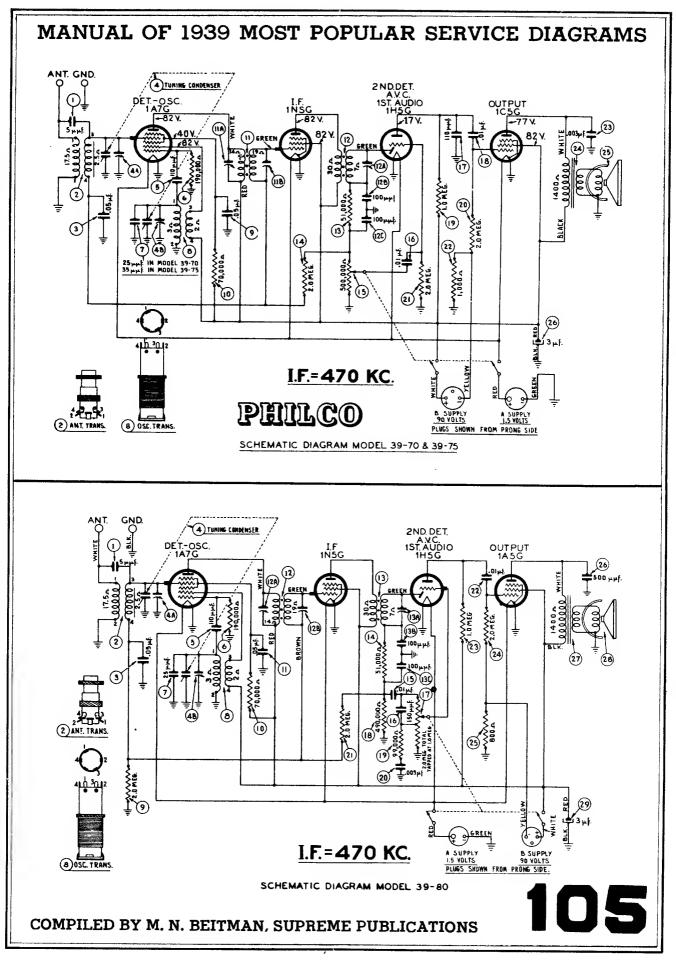


	Phi	Ico Radio & Television	Corp.
	Model: 39-70	Chassis:	Year: Pre August 1939
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
		Resources	
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Riders 10 (X) PHILCO	10-25		
Riders 10 (X) PHILCO	10-26		

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# MANUAL OF 1939 MOST POPULAR SERVICE DIAGRAMS PROCEDURE FOR MODELS 39-70 AND 39-75

	SIGNAL GENERATOR			RECEIVER			
Operations in Order	Output Connections to Receiver	Dummy Antenna Note A	Dia1 Setting	Dial Setting	Control Setting	Adjust Compensators	
1	1A7G Grid	.1 mfd.	470 K. C.	580 K. C.	Vol. Max.	12A, 11B, 11A	
2	Ant. (White)	225 mfd.	1550 K. C.	1550 K. C.	Vol. Max.	4B, 4A	

## **PROCEDURE FOR MODEL 39-80**

	SIGNAL GENERATOR			Receiver			
Operations in Order	Output Connections to Receiver	Dummy Antenna Note A	Dial Setting	Dial Setting	Control Setting	Adjust Compensators	
1	1A7G Grid .1 mfd.	470 K. C.	580 K. C.	Vol. Max.	13A, 12B, 12A		
2	Ant. (White)	225 mfd.	1550 K. C.	1550 K; C.	Vol. Max.	4B, 4A	

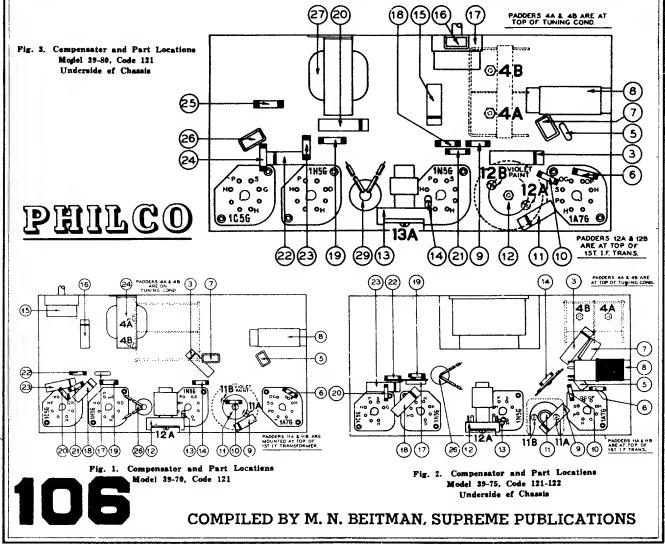
A—The "Dummy Antenna" consists of a condenser or resistor connected in series with the signal generator output lead (high side). Use the capacity or resistance as specified in each step of the above procedure.

**B**—DIAL CALIBRATION: In order to adjust the receiver correctly, the dial must be aligned to track properly with the tuning condenser.

Model 39-70 and 39-80—To adjust the dial proceed as follows: Turn the tuning condenser to maximum capacity (plates fully meshed). With the tuning condenser in this position, set the pointer horizontally across the dial.

Model 39-75—With the tuning condenser in the maximum capacity position (plates fully meshed), loosen the coupling screws connecting the push-button unit to the condenser. The pointer is then set on the extreme left edge of the index line (low frequency end of the scale) with the tuning condenser fully closed. The gang is then opened until the pointer is at the right edge of the index line. The push-button shaft is then turned counter-clockwise to its "stop." With the tuning condenser and push-button shaft in these positions tighten the coupling set screws.

C—The locations of the compensators in Models 39-70, 39-75 and 39-80 are shown in Figs. (1), (2) and (3) respectively.



#### PHILCO PAGE 10-25

#### PHILCO RADIO & TELEV. CORP.

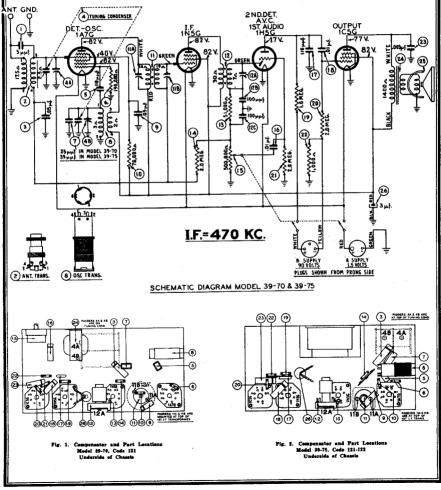
MODELS 39-70,Code 121, 39-75,Code 121,122 Schematic,Socket,Trimmers Chassis

## **Alignment Notes**

NOTE A .- The "Dummy Antenna" consists of a condenser or resistor connected in series with the signal generator output lead (high side). Use the capacity or resistance as specified in each step of the above procedure.

NOTE B--DIAL CALIBRATION: In order to adjust the receiver correctly, the dial must be aligned to track properly with the tuning condenser. Bodel 39-79 and 39-89-To adjust the dial proceed as follows: Turn the tuning condenser on maximum capacity (plates fully methed). With the tuning condenser in this position, ast the pointer borizontally across the dial. Madel 20-75--With the tuning condenser in the maximum capacity posime (spints (slip) meshed). Iossess the coupling screenes connecting activation of the start of the screeness of the scale) with the tuning condenser fully closed. The gang is then opened until the pointer is at the right edge of the index. Inc. The push-button shaft is then turned counter-clockwise to its "stop." With the tuning condenser and push-button shaft in these positions signet the coupling set screenes.

NOTE C--The locations of the compensators in Models 39-70, 39-75 and 39-80 are shown in Figs. (1), (2) and (3) respectively.



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	3 39-70,Code 121, Code 121,122 P	HILCO RADIO	. TELEV C	OBD			
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DĒL	39-80,Code 121	I.			•		
lignn			ENT PARTS				
	Colorer.	Models 39-70, Code 121,	and 39-75, Codes 17	61-122		Part No.	
	No. Description Condenser (5 mmf, mica) (Part of No. Antenna Transformer (Includes No.	30-1097 1)	14 Resistor (2.0 mego 15 Volume Control an Volume Control an	rerigina and 2016 Series, 19-70. tobular) trobular)		No. 33-5203 33-5290 30-4572 30-4572 30-4572 33-5103 33-5203 33-5203 33-5203 33-5203 33-22103 33-22103 30-4469 	39
	<ol> <li>Condenser (5 mml, mica) (Part of N.)</li> <li>Antenna Transformer (Includes No.</li> <li>Condenser (.05 mf, tubular)</li> <li>Tuning Condenser Assembly, 39-70</li> <li>Tuning Condenser Assembly, 39-75</li> </ol>	31-2300 31-2265 31-2265	16 Condenser (.0) mf 17 Condenser (110 m 10 Condenser (.0) mf	tubular). mf. mica). tubular).		30-4572 30-1031 30-4572	
	<ul> <li>Condenser (110 mmf, mica)</li> <li>Resistor (190,000 ohms, ½ watt)</li> <li>Condenser (25 mmf, mics), 39-70</li> </ul>	33-419339 30-1067 30-2067	19 Resistor (1.0 mego 20 Resistor (2.0 mego 21 Resistor (2.0 mego	am, ½ watt) bms, ½ watt) hms, ½ watt)		33-5203	19 39
	B Oscillator Transformer, 39-70 Oscillator Transformer, 39-75	32-3019 32-3083 30-4444	Volume Conference (a) and 14 Condenser (a) and 17 Condenser (b) and 18 Condenser (b) and 19 Resistor (10 mero 21 Resistor (20 mero 22 Resistor (20 mero 23 Condenser (00) and 24 Control Transform 25 Cone and Voice (c)	er il Assemblies—		30-4469 32-7995	
	<ul> <li>Condenser (.05 mf. tubular)</li> <li>Resistor (70,000 ohms, ½ watt)</li> <li>11 let I. F. Transformer Assembly, 39-7 lat I. F. Transformer Assembly, 39-7</li> </ul>	0	39-70 "B." Spi 39-70 "F" Spi 39-75 "B" Spi	rr. Pt. No. 36-1435 rr. Pt. No. 36-1447 rr. Pt. No. 36-1442			
	Solution         Description           1 Condenser (3 mol. miz) (12m et 8).         Condenser (3 mol. miz) (12m et 8).           2 Condenser (35 mol. mis), 397.         Condenser (160 mol. mis), 397.           4 Tangic Condenser (160 mol. mis), 397.         Condenser (160 mol. mis), 397.           5 Condenser (160 mol. mis), 397.         Condenser (160 mol. mis), 397.           6 Condenser (160 mol. mis), 397.         Condenser (161 mol. mis), 397.           6 Condenser (161 mol. mis), 397.         Condenser (161 mol. mis), 397.           1 Condenser (28 mol. mis), 397.         Condenser (161 mol. mis), 397.           1 Tangi Condenser (161 mol. mis), 397.         Condenser (161 mol. mis), 397.           1 Tangi Condenser (161 mol. mis), 397.         Condenser (161 mol. mis), 397.           1 Tangi Condenser (161 mol. mis), 397.         Condenser (161 mol. mis), 397.           2 Condenser (161 mol. mis), 397.         Condenser (161 mol. mis), 397.           3 Resistor (161 mol. mis), 397.         Sector (161 mol. mis), 397.	33-351339	26 Electrolytic Condes	nser (3 mf.)		30-2346	
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	Bezel Window		On-Off Indicator P Hub and Lever	fairts-		38-9658	
	Dial		Spring (Toggle Snap Fastener Pulley (Tuning C	Link and Brkt. Assy.) .		28-8925 56-1156 28-6662	
	Bead Window Cable (Battery) Dial Drive Cord. Dial Drive Spring Dial Fointer Knob	28-8751	Pulley Screw (Tu Shaft Assy, (Tuni Speaker ("B" Cal	arts- d Brkt. Assy. Link and Brkt. Assy.) ordenser) ning Condenser) inet) inet)		38-9658 38-9700 28-9925 56-1156 28-6662 W-1400 11-2290 36-1435 36-1447	
		W- J-1 26 75					
$z^{-1}$	Automatic Tuning Unit Complete Bezel (Dial)	31-2282 40-6364 27.0174	Knob (Volume) Knob (Tuning) Knob Screw (Tun	ning)		27-475	
	Bezel (Push-Button) Bezel Gasket (Push-Button) Dial	28-5929 27-9218 27-5420	Push-Button Push-Button Spri Sleeve-Short (To	ng ming Shaft, Code 121-12	2)	28-891	
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