

	Ph	ilco Radio & Television (Corp.
	Model: 39-40	Chassis:	Year: Pre August 1939
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
		Resources	
Beitmans 1939 91			
Beitmans 1939 97			
Beitmans 1939 98			
Riders 10 (X) PHILO	CO 10-19		
Riders 10 (X) PHILO	CO 10-20		
Riders 10 (X) PHILO	CO 10-21		

PHILCO MODEL TH-4

Antenna Transformer	Resistor Presistor Presistor Resistor Resistor	Resistor (4 meg., 1/3 watt) Resistor (250,000 ohms, 1/3 watt Tubular Condenser (.01 mf., 400v Resistor (500,000 ohms, 1/3 watt Resistor (130 ohms, 4 watt)
Resistor (50,000 ohms, 1/3 watt). 22 Mica Condenser (110 mmf.) 23 Oscillator Transformer		Tubular Condenser (.03 mf., 400v Output Transformer For Speaker 36-1469-1
1st I.F. Transformer		Speaker. Tubular Condenser (.03 mf., 400v Flectrolytic Condenser(20-20mf.
Mica Condenser (250 mmf.)		Field Coil Part of Speaker Pilot Lamp

1 and 2 3 and 4 5 and 6 7 and 8
m in t

Setting Push-Buttons on Models: --- WA

39-25 39-30 39-31 39-35 39-40 39-45 WA

Circuits 540 50 1030 kilocycles 540 6 1030 kilocycles 5 and 4 500 to 1470 kilocycles 5 and 4 500 to 1470 kilocycles 5 and 4 500 to 1470 kilocycles 5 and 6 1100 kilocycles 5 and 6 1100 kilocycles 6 and 6 1100 kilocycles 7 and 8 1100 to be set on the first button.

(C) Turn the receiver Tuning Range Selector to position two ("Mamual Tuning") and turn the receiver to the station for the modulation control to "Modulation Off".

(D) Plug the output leads of the Station Setter to the "ANT" Connect the output lead of the Station Setter to the "ANT" connect the output lead of the Station Setter to the "ANT" and "Gal" jacks, and turn the output controls to maximum greeneyed. As the indicator is slowly tuned through the frequency of the station. When the indicator is on the frequency of the station will be heard.

(E) Set the modulation control of the Station Setter for "Modulation On." The modulated signal of the Station Setter will then be heard through the receiver.

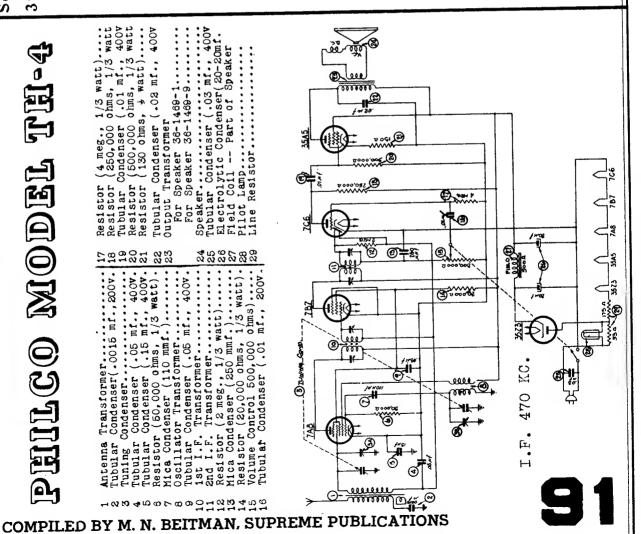
(E) Set the modulation control of the Station Setter for "Modulation On." The modulated signal of the Station Setter will then be heard through the receiver.

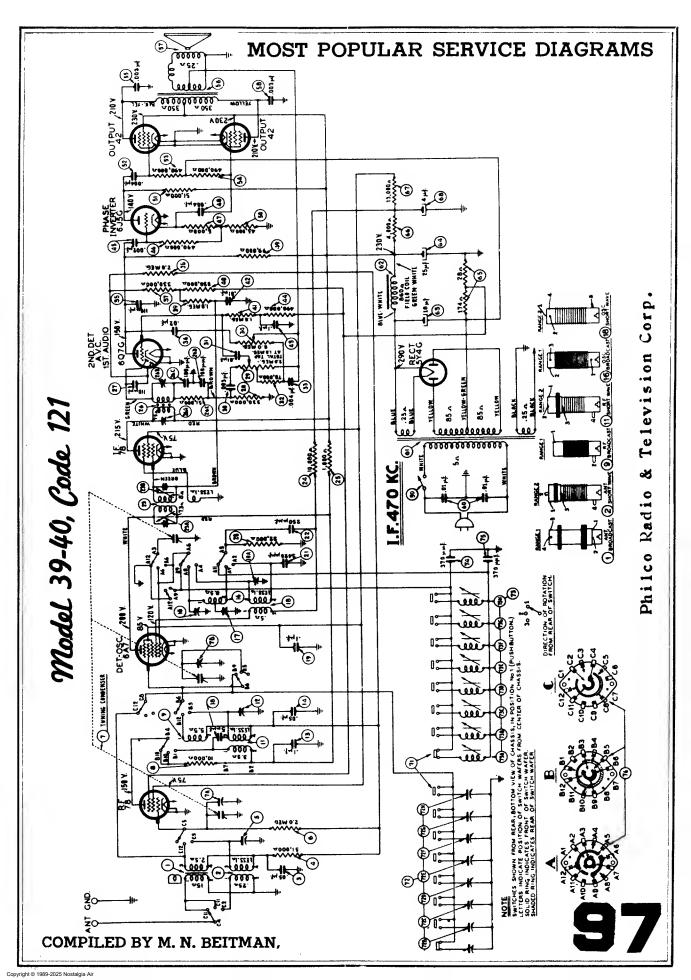
(F) Turn the receiver Tuning Range Selector to position one (Automatic Tuning) and push in the first button. Using the Part No. 45-2810 Insulated Serew Diver, turn the number 1 "OSC" serew until the modulated signal of the Station Setter from the "ANIT" serew in an antimum signal.

(G) Remove the output lead of the Philos Station Setter from the "ANIT" sere output lead of the receiver low, slowly turn the number 1 "OSC" back and forth until maximum output is received. Repeat the same procedure for the number 1 "ANT" serew.

After setting up the first station, the same procedure given After retting up the first station, the same procedure for the number 1 "ANT" serew.

under (C) to (H) is used for the other stations.





MANUAL OF 1939 MOST POPULAR SERVICE DIAGRAMS

Philco

Model 39-40, Code 121

		 				
	Adjust Compensators to Max. Reading	26B, 26A, 23B, 23A	15,7B,7A	17	15	15A, 12, 5
RECEIVER	Control Setting	Vol. Max. Range Switch Broadcast	ŋ	"	3	Range Switch S. W.
	Dial Setting	580 KC.	1550 KC.	580 KC.	1550 KC.	18.0 MC.
OR	Dial Setting	470 KC.	1550 KC.	580 KC.	1550 KC.	18.0 M.C.
SIGNAL GENERATOR	Dummy Antenna (Note A)	.1 mf	150 mmf	150 mmf	150 mmf	400 ohms
	Output Connections to Receiver	6A7	Ant. Ter.	Ant. Ter.	Ant. Ter.	Ant. Ter.
	Opera- tions	-	2	3	4	ນ

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

METHOD OF INSTALLING DRIVE CORDS ON TUNING CONDENSER DRUM

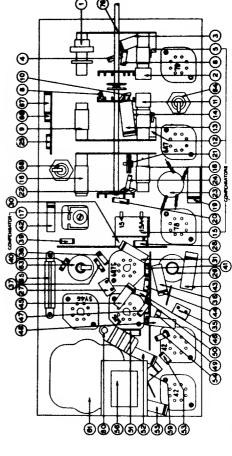
CORD NOTED MUST BE ON OUTER SIDE

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. To adjust

the dial, proceed as follows: With the tuning condenser closed (maximum capacity), set the dial pointer on the extreme left index line at the low frequency end of the broadcast scale. The arrangement of the drive cable is shown on page 3.

NOTE C-Compensators (7A) and (7B) are located on top of the tuning condenser. Compensator (7A) is the first one from the tuning drum side.



PART LOCATIONS UNDERSIDE OF CHASSIS MODEL 39-40

ELECTRIC AUTOMATIC PUSH BUTTON UNIT

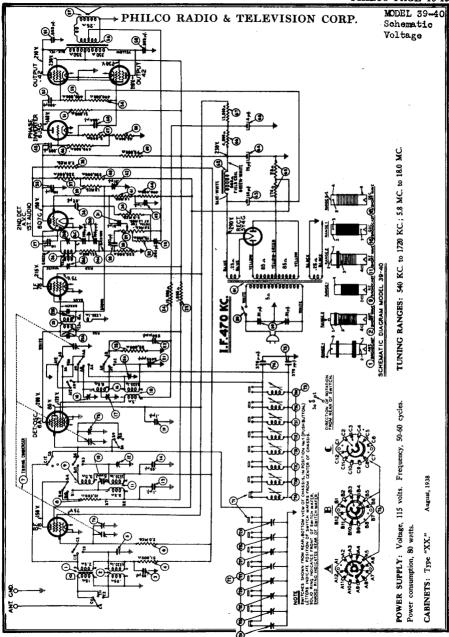
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COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS

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MODEL 39-40 MODEL 39-45

PHILCO RADIO & TELEVISION CORP.

MODEL 39-36 Tuner Data

Alignment Tuner Data

ADJUSTING ELECTRIC PUSE-BUTTON TUNING FOR MODELS 39-36.39-40. AND 39-45

In order to set the Electric Push-Buttons correctly for each station, the procedure as given below should be carefully followed. Accurate adjustment of the buttons requires the use of a Phileo Model 077 Station Setter and a part No. 27-7059 insulated screw

(A) Select eight of the most popular stations received in the locality and remove their call letters from the call letter sheets supplied. making s for whic button at screws is

Place the call lette	rs in the windows above the buttons,
sure that each butto	n covers the frequency of the station
th it is to be used	. Two adjustment screws for each
re located on the rea	r of the push-button unit. Each set of
s numbered and cove	ers a frequency range as follows:
Push-Button	Frequency Range
1 and 2	\$40,1030 KC

670-1160 KC.

000 1470 KC

1100-1600 KC. 7 and 8 Looking at the front of the cabinet, the first button on the left is adjusted by set screw No. 1, the next button by set screw No. 2, and the remaining buttons in the same order.

3 and 4

5 and 6

- (B) Connect the aerial and ground to the "ANT" and "GND" terminals of the receiver.
- (C) Turn the receiver Tuning Range Selector to position 2 (Broadcast) and tune the receiver to the station to be set on the first button.

(D) Plug the output leads of the Station Setter into the "High" and "Gnd" jacks, and turn the output controls to maximum.

Turn the modulation control to "Modulation On." Connect the output lead of the station setter to the "ANT" and "GND" terminals of the receiver and tune to the frequency of the station being received. As the indicator is slowly tuned through the frequency of the station, there will be two points at which a whistle will be heard, one above and one below the frequency of the station. When the indicator is on the frequency of the station the whistle will be eliminated and the modulated signal of the station setter will then be clearly heard through the receiver.

- (E) Turn the receiver Tuning Range Selector to position 1 (Push-Button) and press in the first button. Using the part No. 27-7059 insulated screw driver; turn the No. 1 "OSC" screw until the broadcast station identified by the station setter signal is tuned to Maximum Volume.
- (F) Remove the output lead of the station setter from the "ANT" terminal of the receiver and turn the indicator of the Station Setter off the frequency of the station. The program of the desired station will then be heard in the receiver without the modulated signal.
- (G) With the volume of the receiver low, slowly turn the No. 1 "OSC" screw back and forth until maximum output is received. Repeat the same procedure for the No. 1 "ANT" screw.
- After setting up the first station, the same procedure given under (C) to (G) is used for the other stations.

AT MICHTER OF MEDICAL MO. AO.

Operations Output Connections to Receiver		SIGNAL GENERATOR			RECEIVER		
	Output Connections to Receiver	Dummy Antenna (Note A)	Dial Setting	Dial Setting	Control Setting	Adjust Compensators to Max. Reading	Special Instruc- tions
1	6A7	.1 mf	470 KC.	580 KC.	Vol. Max. Range Switch Broadcast	26B, 26A, 23B, 23A	
2	Ant. Ter.	150 mmf	1550 KC.	1550 KC.	4	15, 7B, 7A	See Note B and C
3	Ant. Ter.	150 mmf	580 KC.	580 KC.	4 .	17	Roll Tuning Condenser
4	Ant. Ter.	150 mmf	1550 KC.	1550 KC.	"	15	
5	Ant. Ter.	400 ohms	18.0 M.C.	18.0 MC.	Range Switch S. W.	15A, 12, 5	

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

NOTE B .-- Dial Calibration. In order to adjust the receiver correctly, the

the dial, proceed as follows: With the tuning condenser closed (maximum capacity), set the dial pointer on the est one left index line at the low frequency end of the broadcast scale. The arrangement of the drive cable is about on page 3.

NOTE C-Compensators (7A) and (7B) are located on top of the tuning condenser. Compensator (7A) is the first one from the tuning drum side ALIGNMENT OF MODEL 39-45

	SIGNAL GENERATOR			RECEIVER			Special
Opera- tion	Output Connections to Receiver	Dunimy Antenna (Note A)	Dial Setting	Dial Setting	Control Setting	Adjust Compensators to Max. Reading	Instruc- tions
1	6A7	.1 mf	470 KC.	470 KC.	Vol. Max. Range Switch Broadcast	30B, 30A, 27B, 27A	
2	Antenna	150 mmf	1550 KC.	1550 KC.	"	21, 8B, 8A	See Note B and C
3	Antenna	150 mmf	580 KC.	580 KC.	ii ii	22	Roll Tuning Condenser
4	Antenna	150 mmf	1550 KC.	1550 KC.	"	21	
5	Antenna	400 ohms	5.0 M.C.	5.0 MC.	Range Switch Police	21A	
6	Antenna	400 ohms	18.0 M.C.	18.0 MC.	Range Switch S. W.	21B, 14, 4	

NOTE A—The "Dummy Antenna" consists of a condenser connected in series with the signal generator output lead (high side). Use the capacity 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. To adjust the dial, proceed as follows: With the tuning condenser closed (maximum

capacity), set the dial pointer on the extreme left index line at the low frequency end of the broadcast scale. The arrangement of the drive cable is shown on page 3.

NOTE C-Compensators (8A) and (8B) are located on top of the tuning condenser. Compensator (8A) is the first one from the tuning drum side.