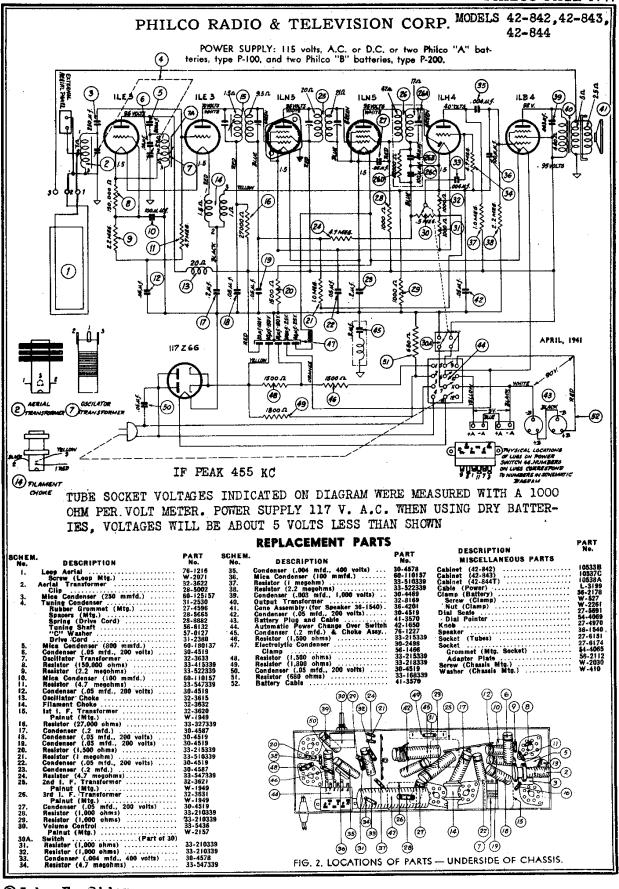
Philco Radio & Television Corp.			
	Model: 42-843	Chassis:	Year: Pre 1945
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
		Resources	
Riders Volume 14 - PHILCO 14-77			
Riders Volume 14 - PHILCO 14-78			
Riders Volume 14 - PHILCO 14-143			



MODEL .42-842(122)

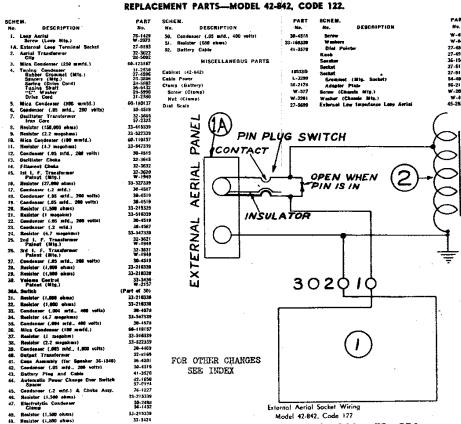
MODELS 42-642,42-843, PHILCO RADIO & TELEVISION CORP.

**42-844** 

MODELS 42-853,42-854

#### PRODUCTION CHANGES

Model 42-842, Code 122 is similar to gode 121 with the exception of the external "aerial input ponel, auxiliary plug-in loop aerial, cabinet and several parts. The schematic diagram, aligning instructions and specifications in service bulletin 391 for 42-842, code 121 applies to 42-842, code 121 applies to 42-842, code 121 applies to 42-842, code 121 with the parts and aerial panel change shown below. The Philos auxiliary plug-in loop aerial part No. 45-2935 should be used with this model when an outside aerial is required. This loop aerial is a low impedance type.



Filament Resistor Change in Models 42-842, 843, 844, 853, 854

In the above listed models, complaints may be received of a complete set of tubes testing weak. Replacement of the tubes restores normal operation for only a short time after which the same condition re-occurs.

The condition is caused by the overheating of the series filament resistor shown as No. 49 in Service Bulletin No. 391 and as No. 56 in Service Bulletin No. 388. When the overheating takes place, the resistor breaks down, its resistance value decreases, thus allowing an increased filament current to the tubes with resulting damage to the filaments.

An entirely new replacement resistor is available — Part No. 33-3424. This resistor is considerably longer than the one now in the set and is equipped with a protecting cover. The resistor is mounted vertically over one of the original holes in the chassis with a suitable drive screw. The tab on the cover is soldered to the chassis. The longer leads which are required for the installation and which should be fireproof, and not ordinary rubber covered, are brought down through the large hole in the chassis. The other large hole should be plugged up with a spring button, such as Philco Part No. W2232.

Although the Service Bulletin parts listing calls for resistor No. 33-218339, the number of the resistor which has been used is 33-3410. If a replacement is necessary, however, the new resistor No. 33-3424 should be used.

### NOTES. CHANGES

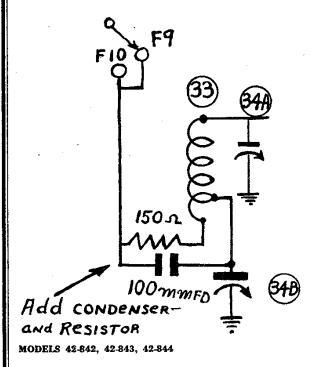
## PHILCO RADIO & TELEVISION CORP.

61 CONDENSER (.006 mfd.) 30-459

70 CONDENSER (.05 mfd.) 30-4519 200 volts 84 CONDENSER (.003 mfd.) 30-4582

400 volts 30-4610 30-4519 30-4609 200 volts 200 volts 30-4582 30-4608 (600 volts)

If trouble is experienced in padding the 22 M.C. normal tuning range (compensator 38A), the installation of a 150 ohm resistor Part No. 33-115339 and a 100 mmfd. condenser will improve the operation. These parts are installed in the circuit as shown in the diagram below.



To improve the tuning operation of the oscillator circuit the oscillator transformer (7) was changed from Part No. 32-3633 to 32-3685. The iron core for both of these transformers is Part No. 57-2325.

Power cord changed from Part No. L-3199 to L-3299. Correction: Resistor (49) shown as 33-218339 in the parts list should be changed to 33-3410.

#### MODELS 42-853, 42-854

Correction, Note B

The second line of this paragraph should read as follows: "adjusted, the image signal will be found by turning the signal generator 910 K.C. above the fundamental signal which will be 15.910 M.C."

#### MODEL 42-1001, CODE 121

## CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley countercleckwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

#### MODEL 42-1002, CODE 121-122

## CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

Follow instructions as for Model 42-1001

#### MODEL 42-1003, CODE 121-122

The light beam pick-up (9) of later production Code 122 chassis was changed from a metal tone arm Part No. 35-2517 to a plastic tone arm Part No. 35-2601. The counter-weight when using the plastic tone arm is Part No. 318-2863 (3 oz.). A new rubber bumper is also required Part No. 54-4167.

# CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

Follow instructions as for Model 42-1001

#### MODEL 42-1004, CODE 121

To improve the operating performance of the rectifier circuit, the wiring of rectifier tube 50Y6GT sucket was changed as follows:

Remove the bare wire between contacts 2 and 3. Connect a wire from contact 3 of the socket (see figure 3 in bulletin) to the lug of the filament resistor (43) to which condenser (40) is already attached. This change was incorporated in all chassis marked run 2. Sets prior to run 2 do not have this wiring change.

Beginning with chassis marked run 3 condenser (36) .01 mfd., 400 volts Part No. 30-4572 was changed to .006 mfd., 400 volts Part No. 30-4591. This change was made to improve the tone quality of the phonograph.

Loop Aerial (1) changed from Part No. 76-1368 to Part No. 76-1372.

## CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

Follow instructions as for Model 42-1001

#### MODEL 42-1005, CODE 121-122

Two types of Photo Electric pickups (9) were used on Code 122 models. One consisted of a metal tone arm Part No. 35-2531 and the other a plastic arm Part No. 35-2602. When using the plastic tone arm a 3 oz. counter weight Part No. 318-2863 must be used in the supporting end of the arm. A new tone arm bumper Part No. 54-4167 is also required.

# CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

Follow instructions as for Model 42-1001

#### MODEL 42-1006, CODE 122

Condenser (7) changed from Part No. 76-1161 to 76-1227. Values remain the same. Construction change only.

# CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

Follow instructions as for Model 42-1001