

Dealer Manual

for installing

SPECIAL BRUNSWICK



Socket Power AB

in the

Brunswick-Radiola

Cordova (6-Tube) Uses Philco Unit—AB-4638-B or AB-4238-B

Cordova (8-Tube) Uses Philco Unit—AB-4638-B or AB-4238-B

Philadelphia Storage Battery Company

Philadelphia, Pa., U. S. A.

Installation

1. The Philco Socket Power Units AB-4638-B and AB-4238-B are made to fit Brunswick-Radiola Cordova 6-tube and 8-tube models. The dealer must make sure that the customer receives the correct type of Socket Power for the current supply in his house. If in doubt, call up the local electric company.

Type AB-4638-B is correct for 50 or 60-cycle, 105 to 125-volt alternating current and must not be used where the frequency is below 50 cycles. Type AB-4238-B is correct for 25, 30, 40, 50 or 60-cycle, 105 to 125-volt alternating current. These types will not operate on, and may be ruined if connected to, a direct current supply.

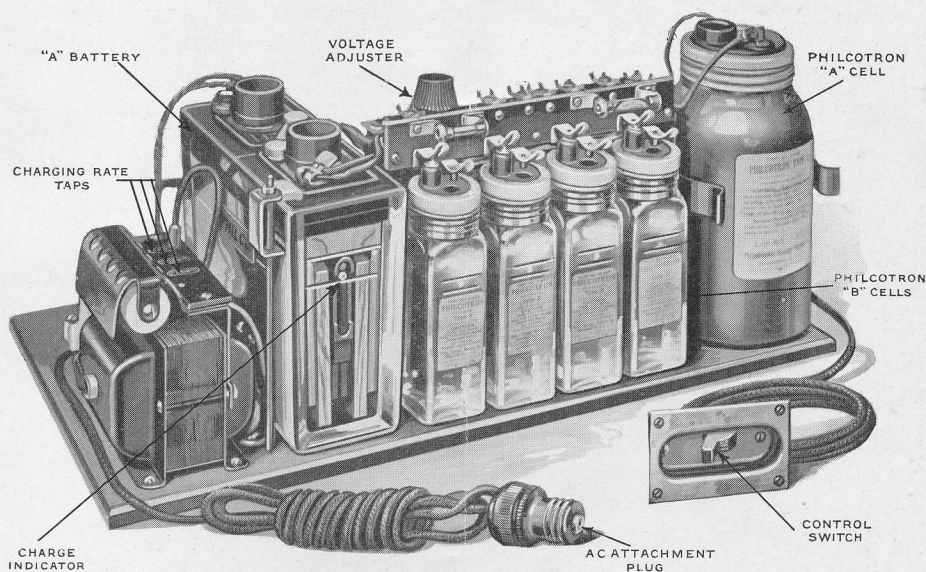


Fig. 1

Preparing Socket Power Unit for Installation

2. Unpack carefully and discard all packing material. Instruct customer that a regular 40-watt Mazda lamp must be placed in the lamp socket.

3. **A Philcotron.** The large rectifier cell (Type A Philcotron) is packed outside of the Socket Power in a compartment at the end of the shipping box. It is partly filled at the factory with concentrated solution and is tightly corked. To prepare it for use remove the cork and add pure water to bring the solution level (bottom of oil layer) to one-half inch below the narrow neck of the jar. **Do not put the cork back.** Fit the Philcotron cell into place in the Socket Power and connect the two loose wires to the Philcotron cell terminals. The Philcotron terminals are so arranged that the wires cannot be connected wrong.

4. B Philcotrons. The four B Philcotron rectifier cells are in place in the Socket Power when received. They are correctly filled and tightly corked at the factory. **It is necessary only to push in the corks. Never put a Socket Power into operation before opening the vent hole in each B Philcotron by pushing the cork down into the cell, using the stick supplied with the Socket Power for the purpose.**

5. Filling Battery with Electrolyte. The type UD-44 Philco Battery used is shipped Drynamic, that is, dry with the plates in a partially charged condition. The dealer should prepare it for service as follows: Unscrew and remove the two vent tubes and fill each cell exactly to the high level line (one-half inch above top of lead plates) with Philco Electrolyte. (This is high-grade sulphuric acid solution of 1.285 specific gravity packed with the unit.) Use a small glass or china pitcher—never metal—for pouring the electrolyte into the battery cells. Pour slowly and **do not overfill**. If any electrolyte is spilled on top of the battery or elsewhere, neutralize and remove it with a cloth dampened in a weak solution of ammonia or soda, after which replace the vent tubes, screwing them down tight. Instruct that the vent tubes be left in place in the future. Water when needed should always be added through the vent tubes so as to wash back any acid film that may tend to form in the vents.

Do not allow any of the battery electrolyte to get into the Philcotron cells. A very small amount will ruin them.

6. To install the Philco Socket Power Unit in the two Cordova models, the cabinet should be prepared as follows:

Remove rear battery compartment doors. Remove cable clamp which is attached to the top partition (near the right end) of the lower battery compartment. (This compartment was primarily designed for the "A" dry cells, as shown in the Brunswick Instruction Book.) This will permit this part of the cable to be pulled up and removed entirely from this section of the battery compartment. Remove condenser clamp and the two cable clamps which are attached to the partition which separates the B and A battery compartments. Remove this partition by taking out four wood screws (two are inserted in the lower part, holding partition to the floor of the cabinet, the other two are inserted in the upper part, holding this partition to the partition which separates the "C" battery compartment from the "B" battery compartment).

The Philco Unit can now be placed in the cabinet as shown in Figure 2.

7. The control switch plate is to be located on the narrow panel at the rear of the Radio panel board as shown in Figure 3. Remove small piece of veneering held in place by four wood screws.

Remove Philco control switch plate from switch body held together by two round-head screws. Extend switch body and control cable through opening in rear narrow panel provided for this purpose. Reassemble switch



Fig. 2
Rear View with Philco Unit Assembled

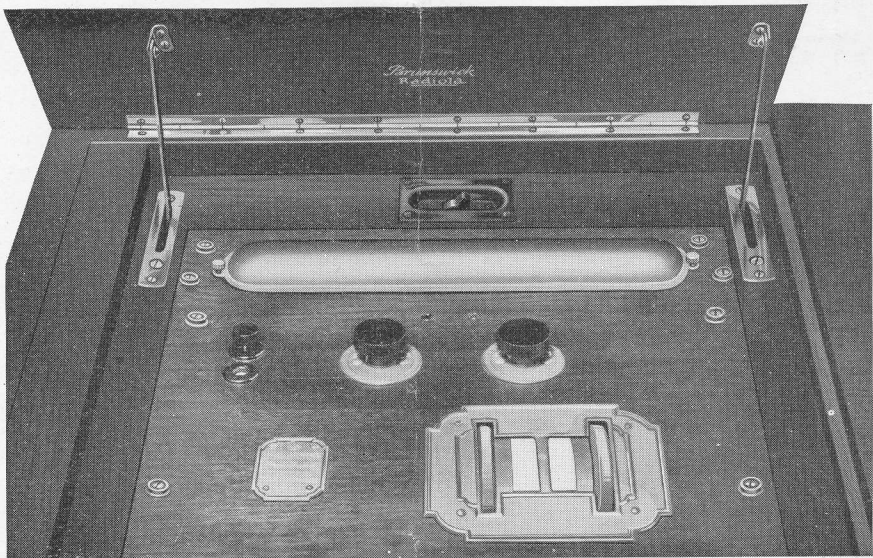


Fig. 3
Panel View Showing Philco Switch Location

plate to switch body by means of the two round-head screws and attach switch plate to narrow panel with wood screws that previously held veneering in place.

8. The push-pull switch on the Radiola panel board must be left in the "up" or "on" position at all times. A small clip is furnished which must be placed around the stem of the switch under the head, which will prevent this switch from being accidentally turned "off." The dealer should place this clip in its position and instruct customer not to disturb this switch in the future.

Cable Connections for 6-Tube Set

9. To connect the Brunswick battery cable of the 6-tube set to the Socket Power terminals, consult wiring diagram Figure 4 and proceed as follows: Connect double lead tagged "A+" (yellow with red tracer) to Philco terminal marked "A+." Connect lead tagged "A-" (black with yellow tracer) to Philco terminal marked "A-." Connect double lead tagged "-" (one black with red tracer and one yellow with red tracer) to Philco terminal marked "B-." **Do not connect any set wires to K terminal.** See instructions under "Radio Operation" in customer's instructions for connections to be made to this terminal. Connect double lead tagged "+45" (one maroon and red and one black) to Philco terminal marked "B+ Amp." Connect lead tagged "+45BX" (black with brown tracer) to Philco terminal marked "B+ PWR." Connect lead tagged "+45" (black) to Philco terminal marked "B+ DET."

10. **C Battery.** The Socket Power does not eliminate the C battery. A C battery as recommended in the Brunswick Instruction Book must be placed in the upper battery compartment and connected according to tagged cable leads.

11. Before replacing battery compartment doors extend the A.C. attachment plug through one of the vent holes.

Cable Connections for 8-Tube Set

12. To connect the Brunswick battery cable of the 8-tube set to the Socket Power terminals, consult wiring diagram Figure 5 and proceed as follows: Connect double "A+" lead (yellow) to Philco terminal marked "A+." Connect double "A-" lead (black with yellow tracer) to Philco terminal marked "A-." Connect triple lead tagged "-" (one black with red tracer, one yellow with red tracer and one yellow) to Philco terminal marked "B-." **Do not connect any set wires to K terminal.** See instructions under "Radio Operation" in customer's instructions for connection to be made to this terminal. Connect double lead tagged "+45B" (maroon and red) to Philco terminal marked "B+ Amp." Connect lead tagged "+45B" (red) to Philco terminal marked "B+ PWR." Connect triple lead tagged "+45B" (maroon) to Philco terminal marked "B+ Det."

13. C Battery. The Socket Power does not eliminate the C battery. A C battery as recommended in the Brunswick Instruction Book must be placed in the upper battery compartment and connected according to tagged cable leads.

14. Before replacing battery compartment doors extend the A.C. attachment plug through one of the vent holes.

15. The dealer should read and become thoroughly familiar with all instructions on the use and care of the Philco Socket Power. Be sure to pass along to the customer the booklet on use and care of the Philco Unit.

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