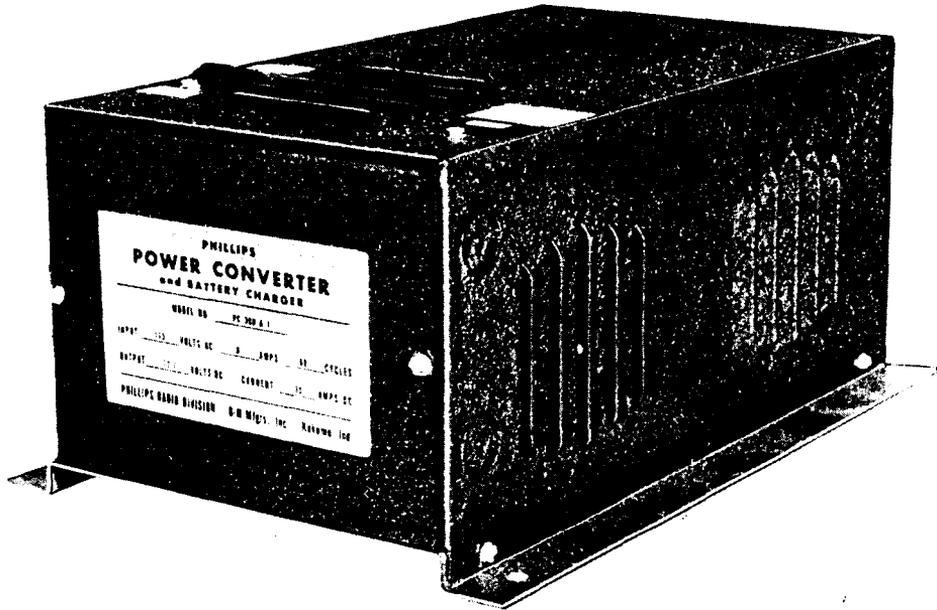


# PHILLIPS POWER CONVERTER



## OPERATION and SERVICE GUIDE for PHILLIPS POWER CONVERTER

Model No. PC-201-M-2

**IMPORTANT** --- This PHILLIPS Power Converter is built specifically for your modern Recreational Vehicle (RV) and will perform at maximum efficiency if installed and operated correctly. Please read this OPERATION and SERVICE GUIDE thoroughly so you will completely understand this Converter and its operation.

This PHILLIPS Power Converter contains these functions:

1. Provides 12 Volt DC power to operate all 12 Volt lights and 12 Volt DC motors in your Recreational Vehicle (RV) when connected to an external 110-120 Volt power supply source.
  - A. Model No. PC-201-M-2 will provide a maximum continuous load of 20 Amps at 12 Volts DC.
2. Features a MANUAL SWITCH in order to switch between the Converter and a storage battery (if one is used) for 12 Volt DC power for your RV.

A combination of functions no. 1 and no. 2 allows the electrical system of the RV to operate with 12 Volt DC at all times.

## 1. OPERATION OF 12 VOLT LIGHTS and MOTORS FROM PHILLIPS POWER CONVERTER

When the Recreational Vehicle (RV) is located where external 110–120 Volt AC power is available, this 110–120 Volt AC should be connected to the RV. Put the MANUAL SWITCH in the top panel of the Converter in "CONVERTER" position. The PHILLIPS Power Converter will then automatically convert this 110–120 Volt AC to 12 Volt DC to operate all the 12 Volt electric lights and 12 Volt DC motors.

Model No. PC–201–M–2 is designed to provide a maximum continuous load of 20 Amps for the above-mentioned 12 Volt electric lights and 12 Volt DC motors.

If the Converter is operated beyond this maximum continuous load limit of 20 Amps for an extended period of time, a Circuit Breaker built-into the Converter will automatically "Break" the power line running from the Converter to the 12 Volt lights and motors.

After a few seconds, this Circuit Breaker will automatically reset itself and the 12 Volt lights and motors will resume operation. However, the Circuit Breaker will shortly again "Break" this power line.

When this above "breaking" of the 12 Volt power line occurs, it is an indication that the RV 12 Volt load against the Converter is exceeding this maximum continuous load limit indicated above. A portion of this RV 12 Volt load—either lights or motors or both—should be turned off.

If this reduction of the 12 Volt load below the limit of the Converter does not stop this "breaking" of the RV 12 Volt power line, it is an indication that there may be a "short" somewhere along the RV 12 Volt power line or at a non-fused 12 Volt DC motor. In this case, a check of your RV 12 Volt power line and motors should be made. Locate the "short" and take the necessary steps to repair it.

## 2. OPERATION OF 12 VOLT LIGHTS and MOTORS FROM STORAGE BATTERY

When the Recreational Vehicle (RV) is not located where external 110–120 Volt AC power is available, put the MANUAL SWITCH in the top panel of the Converter in "BATTERY" position. This will automatically switch all 12 Volt lights and 12 Volt DC motors of the RV over to the RV storage battery for the necessary 12 Volt power to operate this equipment.

**IMPORTANT - - - -** When the RV 12 Volt lights and 12 Volt DC motors are operating off the RV 12 Volt storage battery, it is advisable to reduce the amount of 12 Volt equipment in use. In this manner, you will keep the 12 Volt current drain against the storage battery down to a minimum—thus conserving your 12 Volt power source as much as possible. An indication of this 12 Volt drain is the gradual dimming of the 12 Volt lights and slow-down of the 12 Volt motors.

If the storage battery will not operate the RV 12 Volt lights and 12 Volt DC motors, first check to make sure the MANUAL SWITCH in the top panel of the Converter is in "BATTERY" position. Next, check the storage battery to make sure it is not in a discharged state.

Also, check the two "BATT" terminals on the Converter terminal block to make certain the two wires from the storage battery are securely attached. Check the storage battery to make certain these two wires are also securely attached to the terminals of the battery.

Make certain the wire running from the "Positive" post of the battery is connected to the "Positive" lug on the "BATT" section of the Converter terminal block and that the wire running from the "Negative" post of the battery is connected to the "Negative" lug on the "BATT" section of the Converter terminal block.

When 110–120 Volt AC power is again available, connect it to the RV and turn the MANUAL SWITCH back to “CONVERTER” position. The Converter will now again supply all the necessary 12 Volt DC power to operate the 12 Volt lights and 12 Volt DC motors in the RV.

### 3. WARRANTY PROGRAM ON PHILLIPS POWER CONVERTER

B-W MANUFACTURERS, INC., Phillips Radio Division, warrants each new PHILLIPS Power Converter for two years from date of original owner purchase against any defect in material or workmanship. Further, it agrees to repair or replace any such defects—without charge for parts or labor—provided the defective unit is returned, prepaid, to the Phillips Radio Division; Kokomo, Indiana; within this two year period.

Responsibility is not assumed for damage due to accident, faulty wiring of Converter to Recreational Vehicle electrical system, use of incorrect wire sizes in conjunction with the Converter, or over-load of the Converter beyond the specified 20 AMP maximum continuous load limit.

If trouble does develop in conjunction with the PHILLIPS Power Converter, immediately contact our Customer Service Department at the address listed below. Repair work not covered by the above Warranty Program will be made at a nominal charge.

Customer Service Department  
B-W MANUFACTURERS, INC.  
Phillips Radio Division  
Kokomo, Indiana

Area 317 452-5444

 READ THIS WARRANTY CAREFULLY . . . PUT IT IN EFFECT  
BY MAILING INFORMATION REQUESTED BELOW 

understand this Converter and its operation.

contains these functions:

DC power to operate all 12 Volt lights and 12 Volt DC motors in Vehicle (RV) when connected to an external 110–120 Volt power

no. PC–201–M–2 will provide a maximum continuous load of 20 12 Volts DC.

AL SWITCH in order to switch between the Converter and a storage sed) for 12 Volt DC power for your RV.

functions no. 1 and no. 2 allows the electrical system of the RV 2 Volt DC at all times.