

DC Fuses

Instructions for replaceable automotive type fuses are located on the upper right hand corner of the faceplate. Maximum fuse size and circuit identification are provided to the left of the fuse holders. To maintain safe and proper operation, use only Littlefuse type 25/7 fuses.

Connection of a 12 volt TV or Stereo

The 6500 Series power converter does not provide "filtered" DC to operate electronics that "require" such as connected directly to the TV signal cable. MagneTek does have a filter choke available that will allow television to operate directly from the converter at filtered output. This filter (part number 07004), rated at 1 amp maximum, is suitable to operate most AM/FM cassette radios. Consult your local dealer for more information. MagneTek assumes no responsibility for equipment damage due to connection to the unfiltered output of the power converter.

Date Code

A manufacturing date and color code is stamped on the lower left of the label of each unit next to CODE. The date code is as follows: first digit(s) = month (1-12), second digit = week (1-5), third digit = last number of the year (1983 = 3, 1984, CODE 148CH = fourth week of January, 1984, Change and 15:15 (year).

Warranty Statement

MagneTek warrants each converter to be free from defects in materials or workmanship under normal use and service and limits the remedies to repair or replacement.

This warranty extends for one year from the date of retail purchase and is only valid to the original owner and within the continental limits of the United States and Canada.

If a problem should occur with your converter within the first 12 months of purchase, please contact a dealer that handles warranty on your brand of TV.

This warranty does not cover damage due to improper installation, abuse or accidents. All lead traces should be installed by a qualified electrician.

NO USER SERVICEABLE PARTS INSIDE.

DO NOT DESTROY THIS MANUAL

For future warranty reference, record:

Date of RV purchase _____
Converter _____
Model # _____
Code _____

Specifications

MODEL 8808

Input: 120 volts, 60 hertz, 12 amps
Output: 12 volts, 6 amps
Dimensions (H, W, D): 6.625" x 12.25" x 3.38"
Faceplate: 7" x 14" Cut-out: 6.25" x 12.75"
Weight: 6 pounds
UL Listed for Canada and U.S.A.

MODEL 8812

Input: 120 volts, 60 hertz, 2.4 amps
Output: 12 volts, 12 amps
Dimensions (H, W, D): 6.625" x 2.25" x 3.38"
Faceplate: 7" x 14" Cut-out: 6.25" x 12.75"
Weight: 8 pounds
UL Listed for Canada and U.S.A.

MODEL 6520

Input: 120 volts, 60 hertz, 3.5 amps
Output: 12 volts, 20 amps
Charger: 5 amps max, 14 volts fresh charge
Models with CODE C only
Dimensions (H, W, D): 5.625" x 12.25" x 5.0"
Faceplate: 7" x 12" Cut-out: 6.25" x 12.75"
Weight: 11 pounds
UL Listed for Canada and U.S.A.

MODEL 9526

Input: 120 volts, 60 hertz, 4.0 amps
Output: 12 volts, 26 amps
Charger: 5 amps max, 14 volts fresh charge
Dimensions (H, W, D): 5.625" x 12.25" x 5.0"
Faceplate: 7" x 14" Cut-out: 6.25" x 12.75"
Weight: 18 pounds
UL Listed for Canada and U.S.A.

12 Volt DC output wiring to RV circuitry

Red - Battery Positive (and charger if applicable)
White - Battery and DC Appliance Negative
Blue - Positive DC output circuit #1
Blue/White stripe - Positive DC circuit #2
Blue/Black stripe - Positive DC circuit #3
Blue/Red stripe - Positive DC circuit #4

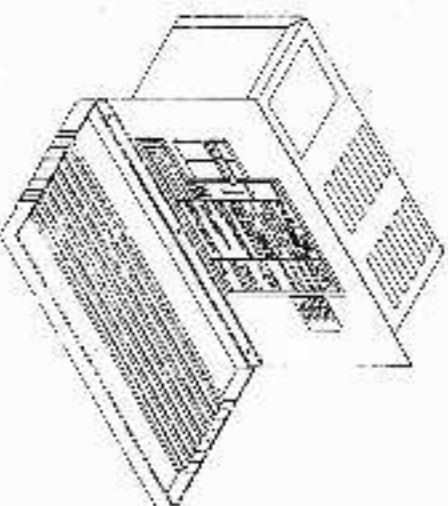
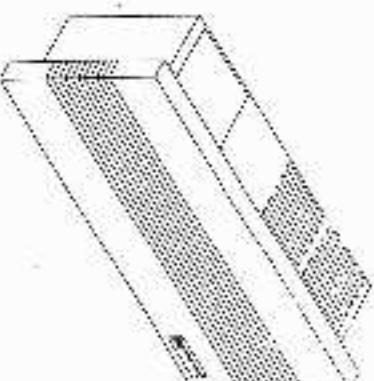
Mounting (all units)

Horizontal mount only in a vertical plane, with the bottom edge of the faceplate 1" (one inch) above the floor for door opening clearance. Do not mount in the same compartment as battery or flammable material such as gasoline.

MagneTek

RV & Marine
305 North Briant Street
Huntington, Indiana 46750

6500 Series
Power Converter
Owners' Manual



Introduction

The 6800 Series power converter installed in your RV is the heart of the DC electrical system. It is manufactured with pride in the U.S.A. by MagnTek.

We are confident that it will give you outstanding performance for many years. If you have any questions or comments about this product, please contact MagnTek's customer service representative at the address or phone number listed below.

MagnTek

505 North Brent Street
Huntington, Indiana 46750
(219) 341-7101

General Information

Primarily, the 6800 Series converts the park 120 volts AC into 12 volts to operate your DC appliances such as 12 volt lights, fans, furnace and water pump. The 6800 Series also contains the RV's 120 volt AC breakers that protect the AC appliances and outlets.

All 6800 models (and 6800 models with code "C") also contain an automatic battery charger that will charge the RV battery while the RV is plugged into shore power.

All user functions (resetting breakers, replacing DC fuse, and manual power transfer) are accessed by grasping the upper arms of both sides of the power cover and pulling.

Operation

The power converter operates only when the RV is plugged into a 120 volt receptacle. The 6800 Series models are rated for use with a standard 120 volt 30 amp RV type shoreline cord. All 6800 Series models contain over temperature protection. If the unit is loaded beyond the rated amp rating or the ventilation slots are obstructed, the unit will cycle off then automatically turn back on.

12 Volts DC From Converter (models 6806, 6612)

To operate DC appliances from the converter, plug in the shoreline cord of the RV to a 120 volt 30 amp receptacle. A manual "converter-to-battery" switch, located behind the plastic converter door, on the lower right hand corner of the faceplate, must be in the "CONVERTER" position.

No damage will result if the switch is left in the "BATT-HEAVY" position, but the DC appliances will be operating "on battery power", which will eventually be depleted.

Operation (continued)

12 Volts DC From Converter (models 6820, 6626)

To operate DC appliances from the converter, plug in the shoreline cord of the RV to a 120 volt 30 amp receptacle. An automatic relay will disconnect the battery from the DC appliances and switch them to converter power. No user adjustments are necessary.

All 6820 models and 6820 models with code "C" will automatically charge and maintain the RV battery while the converter is on. No user adjustments are necessary.

For more information, see the section titled "Automatic Battery Charge."

12 Volts DC From Battery (models 6806, 6612)

To operate the DC appliances from battery power, such as when 120 volts AC is not available, the manual "Converter-to-Battery" switch must be in the "BATTERY" position.

The manual switch is located behind the plastic converter door and on the lower right hand corner of the faceplate.

NOTE: If batteries are not recharged, the DC appliances will only operate when the converter is on and the switch is in the "CONVERTER" position.

The switch also has a center "OFF" position for long term storage of the RV. Putting the switch in this position will disconnect all DC appliances from the converter, eliminating the possibility of the battery being discharged. Note that if the DC loads are connected directly to the battery, they will not be turned off by the converter switch.

MagnTek recommends specifying and ordering the TV battery once a month during long periods of non-use to maintain the life of the battery.

12 Volts DC From Battery (models 6820, 6626)

To operate the DC appliances from battery power, the RV shoreline cord must be unplugged or you must shut off the AC branch circuit that protects the converter, which is the first 15 amp breaker from the left on the converter faceplate.

When the shoreline cord is unplugged or the converter AC circuit is off, an automatic relay connects the DC appliances to the battery. This same relay disconnects the battery from the 120 volt AC.

appliance when the shoreline cord is plugged into 120 volts AC, allowing the power converter to operate those appliances.

Note: If batteries are not recharged, the DC appliances will only operate when the converter is on.

Automatic Battery Charger

(Standard on model 6820, code "C", on model 6800)

The 6800 Series charger is fully automatic and regulated, which means it always maintains the desired voltage and sends the correct amount of current needed to recharge and maintain the battery without over-charging.

The charger is protected by a 5 amp automatic reset circuit breaker. In the event of the charger being overloaded, the breaker will "trip" off, and reset, automatically. If the condition continues for more than 30 minutes, the charger may be damaged permanently.

Note: If the converter charger is left on for long periods, the battery fluid level should be checked once a month.

All batteries "gas" as they are used (discharge) and "recharge" causing the fluid level in the battery to evaporate. If this fluid level drops below the battery plates, exposing them to air, the battery performance will be greatly reduced eventually causing the need for battery replacement.

During long periods of non-use, MagnTek recommends plugging in the RV shoreline over night, once a month to maintain the life of the battery.

AC Power Distribution Section

All 6800 Series converters contain the AC breakers that protect the AC appliances. These appliances may include, but are not limited to, AC receptacles, the power converter and roof air conditioners.

If a breaker trips because of an overload, reset it first by turning the breaker off (pushing the handle down), then turning the breaker back on by moving the handle up.

NOTE: If the breaker trips again, there exists an electrical malfunction and help from a qualified RV or electrical technician must be obtained.

The ratings of the circuit breakers in the 6800 Series are indicated on the breaker end by the color code (blue, standard or the lower right of the front label (different to CODE. Below is the code and description:

C - Charger (optional on 6820 only)
D - 30/15 duplex, 15/20 duplex

H - 15/15 duplex
C - 15/20 duplex

leg. CODE 6840 - manufactured the second week of May, 1984. Contains 30/15 and 15/20 breakers.)

AC branch circuit identification is provided on the front label directly below the breakers. The converter will always be connected to the first 15 amp breaker on the left.