



**BroadBand Conversion Kit  
Additional Generator  
Status Monitoring**

**User's Manual**

990-1217 07/02



# Chapter 1 General Information

The Conversion Kit is used to provide additional status monitoring capabilities for the Generac-Bowman generator.

## Safety

This Safety Guide contains important instructions that should be followed during installation and maintenance of the APC equipment and batteries. It is intended for APC customers who setup, install, relocate, or maintain APC equipment. **Changes and modifications to this unit not expressly approved by APC could void the warranty.**

**Installation, initial start-up, and maintenance should be carried out by a qualified electrician.**

**Read the Safety Information included in the User's Manual for the generator.**

**Failure to observe these warnings may result in serious injury, or death, or damage to the equipment.**

### Electrical Warnings

Do not work alone under hazardous conditions.

Do not handle any metallic connector before the power has been disconnected.

Servicing this equipment may require working with protective covers removed and AC power connected. Use extreme caution during these procedures.

High current through conductive materials could cause severe burns.

When grounding cannot be verified, disconnect the equipment from the utility power outlet before installing or connecting to other equipment. Reconnect the power cord only after all connections are made.

Check that the power cord(s), plug(s), and sockets are in good condition.

Replacement of fuses or other parts must be with identical types and ratings. Substitution of nonidentical parts may cause safety and fire hazards.

### Overhead Warnings

Never stand below anything while it is hoisted. Always wear a hard hat.

### Lifting Warnings

Transformer modules are heavy. Use proper lifting equipment and techniques to avoid injury.

### Battery Warnings

Danger of explosion if battery is incorrectly connected or replaced. Replace batteries only with same or equivalent type recommended by the manufacturer.



**Batteries must be recycled.** Deliver the battery to an appropriate recycling facility or ship it to the supplier in the new battery packing material.

## Chapter 2 Installation and Maintenance

Only trained service personnel should install and maintain the Power Supply.

### Unpacking

The packaging is recyclable; save it for reuse or dispose of it properly.

Check the package contents. The package contains the following:

<b>Quantity</b>	<b>Description</b>
1	Relay, 12VDC
2	Butt Splice
1	Long Wire Harness
1	Short Wire Harness

## Power Shutdown Procedure

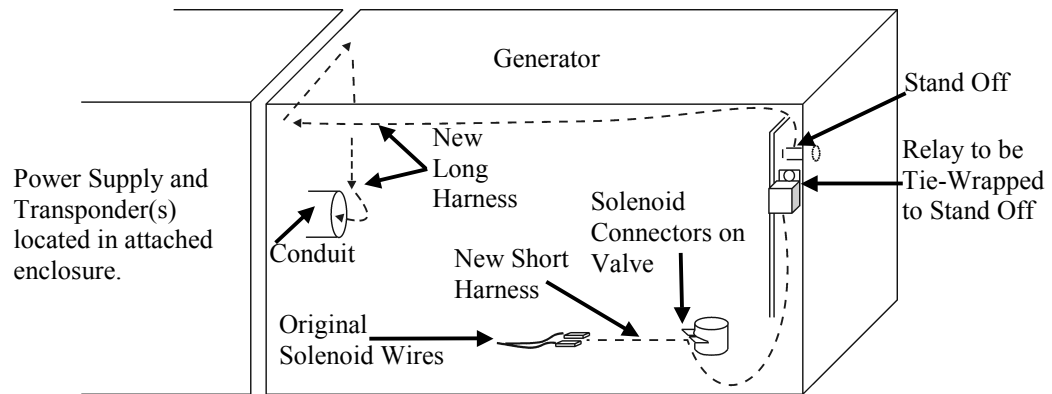
**The generator power supply must be shutdown prior to installing the Conversion Kit.**

1. Ensure that the CTEG4M Enclosure is NOT running on generator power.
2. Disconnect the cable from the negative (-) battery terminal in the generator enclosure.
3. Switch the battery circuit breaker to the OFF position.
4. Switch the utility circuit breaker to the OFF position.

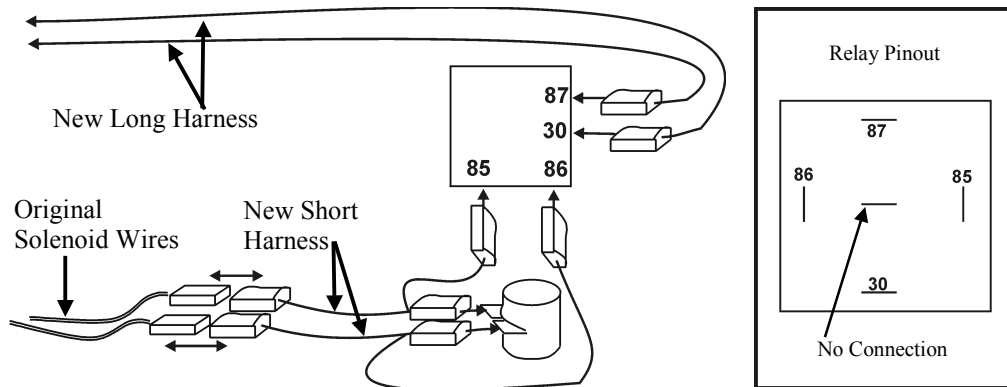
## Conversion Kit Installation

1. Open the generator enclosure.
2. Locate the gas solenoid valve and pull the two connectors off of the solenoid.

### Front View Generator Enclosure

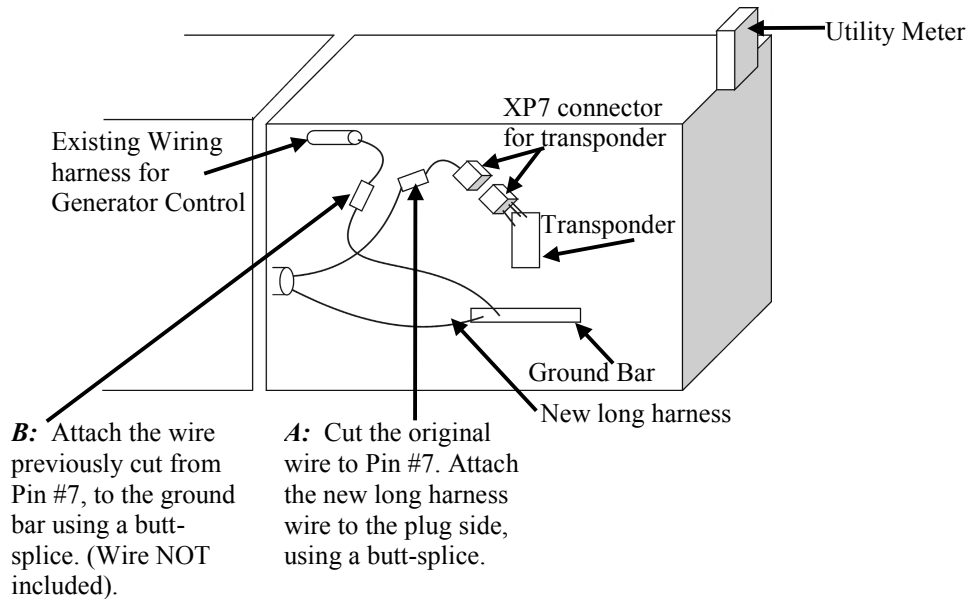


3. Replace the original wiring with the new long and short harnesses. See figure below for details.



4. Route the new long harness along the outer edges of the enclosures following the path of the original wiring as closely as possible. Use tie-wraps when necessary.
5. Attach the new long harness to the transponder in the CTEG4M Enclosure. See figure below for details.

Rear View CTEG4M Enclosure



6. Verify system functionality.
  - Force the engine to crank, allowing failure to start. An error message should appear at the head-end site.
  - Turn the generator ON. Head-end site operators should see the engine status as ON.
  - Turn the generator OFF. Head-end site operators should see the engine status as OFF.

Connect Power to the Enclosures

1. Reconnect the battery in the generator enclosure.
2. Switch the battery circuit breaker ON.
3. Switch the utility circuit breaker ON.

# Chapter 3 Service, Contact and Warranty Information

## Service

APC makes every effort to ensure parts and equipment arrive in working condition. Occasionally, it may be necessary to return parts or equipment that are not in working condition.

If the unit requires service do not return it to the dealer. Instead, follow these steps:

1. Contact APC Customer Service through the APC web site, [www.apc.com/support](http://www.apc.com/support).
  - Note the product model number, the serial number, and the date purchased. If you call APC Customer Service, a technician will ask you to describe the problem and try to solve it over the phone. If this is not possible the technician will issue a Returned Material Authorization Number (RMA#).
  - If the product is under warranty, repairs are free. If not, there is a repair charge.
  - Procedures for servicing or returning products may vary internationally. Refer to the APC web site. Select the appropriate country from the country selection field. Select Support from the tab at the top of the web page.
2. Pack the product in its original packaging. If the original packing is not available, refer to the APC web site for information on obtaining appropriate packing materials.
  - Pack the unit properly to avoid damage in transit. Never use Styrofoam beads for packaging. Damage sustained in transit is not covered under warranty.
3. Mark the RMA# on the outside of the package.
4. Return the unit by insured, prepaid carrier to the address given to you by Customer Service.

## How to Contact APC

In the USA ...	Outside the USA ...
Refer to the APC web site, <a href="http://www.apc.com/support">www.apc.com/support</a> .	Refer to the APC web site, <a href="http://www.apc.com">www.apc.com</a> . Select the appropriate country from the country selection field. Select the <i>Support</i> tab at the top of the web page.

## Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

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