bge
AN EXELON COMPANY

EmPOWER MARYLAND

PeakRewards℠ Trade Ally Program Policy and LCR Switch Installation Guidelines

The Trade Ally program is designed to allow HVAC contractors to participate in PeakRewards and generate residential customer leads.

Qualified leads include BGE customers who:

- ✓ Have a residential account
- ✓ Need to be reconnected
- ✓ Reside in a single family dwelling, duplex, townhome, condominium or property owned by the customer
- ✓ Have CAC or electric heat pump in good working order
- ✓ Are unenrolled due to inactivity

Non qualified leads include:

- BGE customers who reside in a multifamily complex or property owned by a commercial management company.

LCR Switch Installation Guidelines

Mounting

BGE prefers that the switch be mounted on the foundation of the home whenever possible. Mounting preference is as follows:


1 - Foundation


1 - Foundation


2 - Siding


3 - On Unit

A few things that prohibit mounting the switch to the home are:

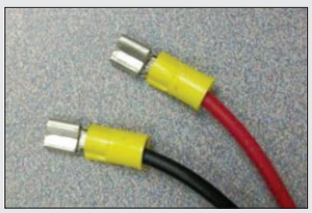
- Boulder style foundation
- Stucco over foam
- Asbestos siding
- AC unit is too far from wall

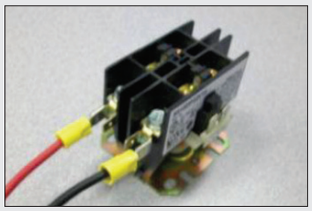
NOTE: Mounting directly to the unit is always a last resort.

Use 'liquid-tite' style conduit. Switches must have at least 18" of ground clearance and there must be a strap securing the conduit to the house within 12" of the switch. The switch should always be mounted higher than the entry point of the conduit going into the AC unit.

peak rewards℠
a BGE SMARTENERGY savers program®

Wiring



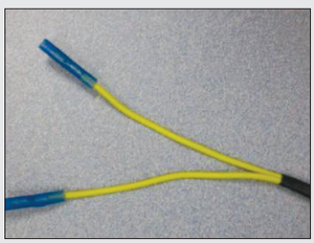


A. High Voltage Connection

Step 1: Measure line voltage to verify 240V service (the switch will not function on 208V service).

Step 2: Connect the 12AWG red and black wires to the line side of the contactor using ¼" female quick disconnects.

Step 3: If there are no extra ¼" male terminals on the contactor you may use wire nuts to attach to line voltage.

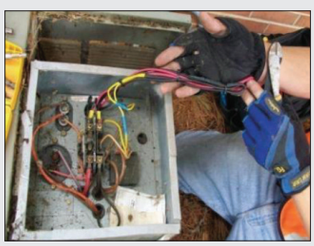


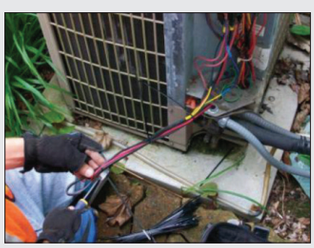
B. Low Voltage Connection

Split Systems

Step 1: Locate the Y wire coming from the thermostat and trace it as it exits the low voltage terminal box.

Step 2: Cut the Y wire just outside of the low voltage terminal box and connect the LCR's yellow wires to each end using crimp style butt connectors. Do not connect switch wires to Class II wiring.





Heat Pumps

Step 1: Locate the Y wire coming from the thermostat and trace it as it exits the low voltage terminal box.

Step 2: Cut the Y wire just outside of the low voltage terminal box and connect the LCR's yellow wires to each end using crimp style butt connectors. Be sure to make this connection before any defrost boards, timers or control circuits. Making this connection at the contactor is not acceptable.

Step 3: If the heat pump uses a terminal strip where the thermostat wires connect directly to a circuit board, you may butt connect one of the yellow switch wires to the thermostat wire and secure the other yellow wire to the terminal strip.

C. Secure all wires using wire ties

Testing

Step 1: Upon power up a red LED will illuminate on the switch circuit board

Step 2: While the red light is illuminated, the Y circuit is open

Step 3: After approximately 3 minutes the red LED will go out and the Y circuit will close

EmPOWER Maryland programs are funded by a charge on your energy bill. EmPOWER programs can help you reduce your energy consumption and save you money. To learn more about EmPOWER and how you can participate, go to BGESmartEnergy.com.