



AC Power Control Module™ Retrofit Kit Model 071015 Revision 01



IMPORTANT! The information presented here is retrofit instructions only. Refer to the included Installation and Operator's Manual for complete safety/hazard warnings and testing instructions.

This kit's components were selected to maximize the utility of a home standby generator system. Full description of transfer switch operation is described in the included Installation and Operator's Manual.

IMPORTANT: Installing this retrofit kit with home standby units other than 12KW, 15KW or 20KW units may result in generator overload and possible equipment damage.

If you have questions about this retrofit procedure, call 1-800-743-4115 between 8:00 AM and 5:00 PM CDT.

The following items are included in this retrofit kit:

- AC Power Control Board (1)
- Current Transformer (2)
- Upgrade Decal (1)
- Contacts Rating Decal (1)
- Current Transformer Warning Decal (1)
- Patent(s) Pending Decal (1)
- Wire Circuit Class Decal (1)
- Loose Hardware:
 - Cable-Mounting Wire Ways (2)
 - Locking Circuit Board Supports (2)
 - #6-32 Spacers (4)
- This Installation Sheet (1)
- Installation and Operator's Manual (1)

Retrofit/Assembly Sequence

IMPORTANT:

Intended for use only with 12KW, 15KW and 20KW home standby units. Only licensed electrical contractors should install this transfer switch retrofit kit. Installation must strictly comply with all applicable federal, state and local codes and regulations.

1. Turn generator switch to OFF, remove generator control panel fuse.
2. Disconnect all power to transfer switch.

WARNING	
	Risk of electrical shock or personal injury.
<ul style="list-style-type: none"> • More than one disconnect switch may be required to de-energize the device for servicing. 	

NOTE: The transfer switches shown herein may differ in appearance with the actual transfer switch being retrofitted. Consult the wiring diagram/schematic in the supplied manual.

3. While holding retrofit board near installed control board, transfer each supervisory wires A-A and B-B from the installed board terminal strip to the matching terminals on the retrofit board.

If supervisory control was not previously installed, continue to step 4 and complete the retrofit installation. Continue below if supplied:

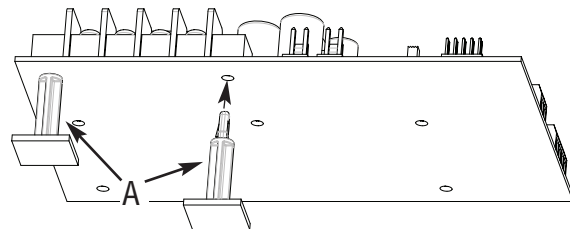
NOTE: There are two wireways provided to keep the supervisory loads separated from each other.

Terminals "A-A" on control module are rated for 24 VAC and air conditioner contactor control.

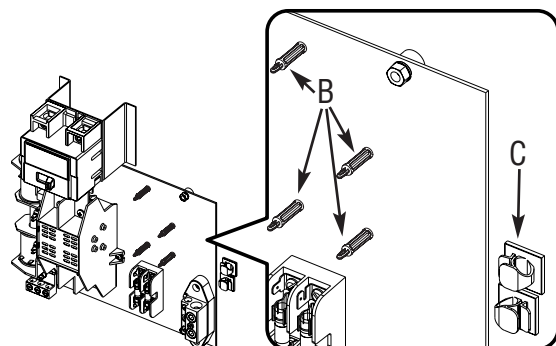
Terminals "B-B" on control module are rated for 1 Amp 125 VAC and installer-supplied contactor.

Refer to the supplied Installation and Operator's manual, *Supervisory Control Wiring*, for detailed information on supervisory contact rating and system setup.

4. Transfer the six control wires from the installed board to the matching tabs on the retrofit board.
5. Remove installed control board. Save screws.
6. Insert locking circuit board supports (A) into rear of retrofit board, locating them at each end of board's terminal strip.

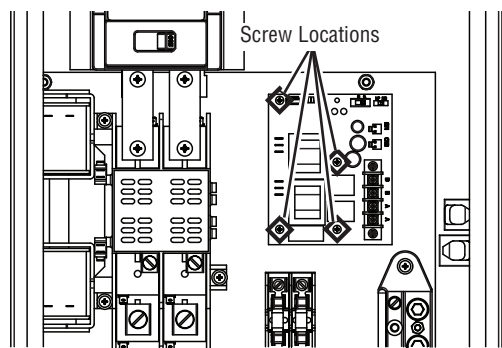


Item	Name
A	Locking Circuit Board Supports
B	#6-32 Spacers
C	Wire Ways

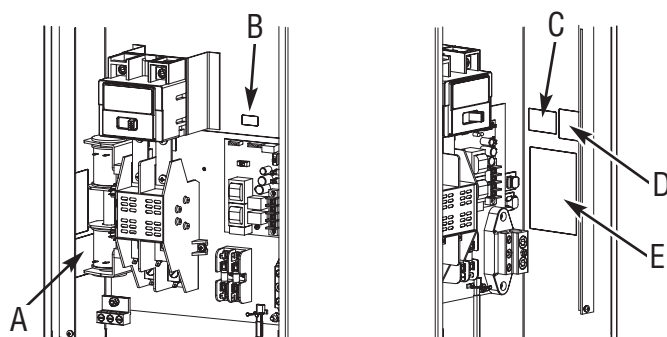


7. Install spacers (B) and wire ways (C) onto existing transfer switch in locations shown.

8. Install retrofit board into transfer switch using screws (removed in step 5) in locations shown. Snap board onto spacers.



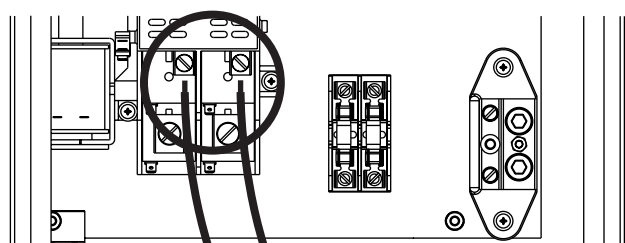
9. Install decals in locations shown.



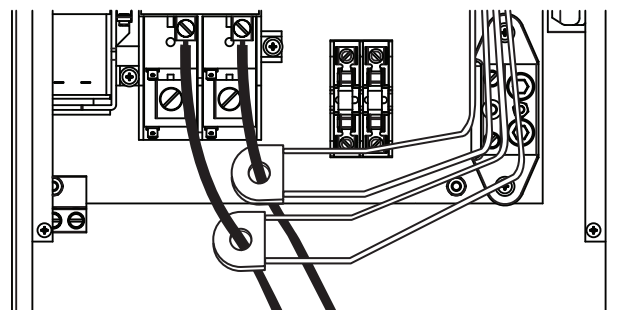
Item Decal Name

- A Upgrade
- B Patent(s) Pending
- C Contacts Rating
- D Wire Circuit Class
- E Current Transformer Warning

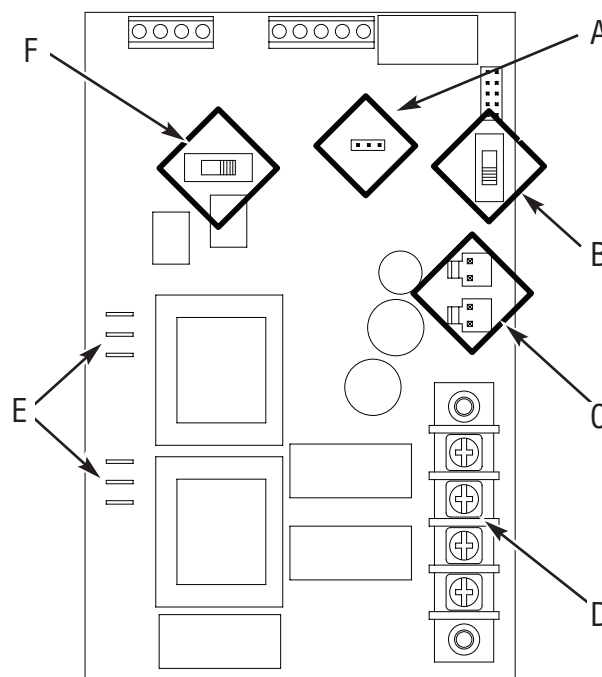
10. Disconnect generator power supply leads from transfer switch terminals.



11. Slide one current transformer (CT) over each generator power supply lead and reconnect generator power supply leads to contactor terminals.



12. Plug CT connectors into retrofit board CT1 and CT2 connectors (C).



13. Set LP/NG (B) and 12/15/20 (F) switches on retrofit board to match existing home generator system.
14. If generator is installed in an area regularly subjected to temperatures below 40°F (4°C), select a 50 second warm-up time by moving jumper (A) from '20' position to '50' position.
15. Confirm that supervisory control wires were attached to these terminals (D) in step 3 and transfer switch control wires were attached to these terminals (E) in step 4.
16. Torque all terminals properly (recommended torque values are listed on a label inside transfer switch enclosure).

The transfer switch retrofit process is now complete. Refer to the supplied Installation and Operator's Manual (I/O Manual) to perform the following setup and tests:

- 17. Apply Utility power to transfer switch.
- 18. Reinstall generator control panel fuse and set generator switch to **AUTO** mode.
- 19. Test system operation (refer to I/O Manual, *System Test*)