

Indoor Panelboard Installation Instructions CAT. NO. 00-10020-000, -200, -300, -400 PANELBOARD & SUB PANEL CAT. NO. 00-10020-100 PANELBOARD

Remove Branch KO's

Remove Branch Knock-Out's; place screwdriver as shown and tap end to remove KO. If KO is not completely removed, twist out with pliers.

Main wires

Mains must be installed through this opening using a 1" connector. If a 1-1/4" connector is required, remove Knock-Out ring; place screwdriver as shown and tap end to remove KO ring. If KO is not completely removed, twist out with pliers.



Mount Box

Flush mount box into a 15-5/8" X 8-5/8" opening. Remember to leave 17-1/2" X10-1/2" minimum clearance for the cover. Using six (6) #8 screws (not provided) attach box to wall using the mounting holes shown. Note: Box may be mounted as shown or rotated 90° clockwise.



Wire Main, Branch & optional Sub-Panel Circuits

The following breakers are suitable for MAIN and Branch breakers: Cutler-Hammer: BR, BD, GFCB, Filler Plate BRFP Siemens: QP, QT, Filler Plate QF3 GE: THQL SquareD: HOM, HOMT Make Certain circuit breakers are in the OFF position prior to installation.

Torque Specifications:

Ground/ Neutral Bar		
Wire AWG	Inch-lbs	
14-10	25-35	
8	30-40	
6-4	35-45	
D		

Breaker Hold Down Clamp 3-5 inch-lbs



IMPORTANT:

Tighten all electrical connections before energizing. Follow Torque Specifications on the Inside Cover Label.



120/240VAC present inside Panelboard posing potential lethal electrical shock. This equipment should only be serviced by a qualified Service Technician.



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PCS Control Installation Instructions CAT. NO. 00-10020-500 50AMP PCS CONTROLLER

Install only in Power Control System Panelboards CAT. NO's. 00-10020-000, 00-10020-100 Read & follow Panelboard Instructions for complete Installation

- Prepare Main Supply Cable by removing outer Jacket and cutting and stripping wires to lengths shown.
 Red Line 2 White - Neutral Black - Line 1
 Bare - Ground 6 "______
- In the same manner used for the Branch Circuit Knock-outs, remove the rectangular KO to provide access to the 12VDC, and communication connections.
- 3) Install Circuit Breakers into Panel Board.
- Using 1" Connector, (1-1/4" if KO ring is removed) install Main Supply Cable into AC Panel Board knock-out shown, and secure main cable to housing.

3	
2	
	L'ALLON
	020
	0
4	200000

8 "

3/8"

- 5) Bend Ground Wire towards back of box, run along the back, and connect to Ground Block.
- 6) Bend White Neutral Wire towards back of box, run along the back and connect to Neutral Block.

Note: Bend Ground and Neutral wires to clear the Current Sensor Cup for the next step.

Note: it is critical to maintain L1 & L2 relationship throughout the entire installation. For example, the Black wire must go through the L1 Current Sensor hole, connect to the L1 Main circuit breaker, and the PCS Control L1 screw terminals must be connected to the L1 Branch breakers.

- 7) Slide the Black-Line1 and Red-Line2 wires through Current Sensor Cup holes.
- Continue to slide the Sensor Cup/Barrier Wall assembly into the housing guides, until the Wall touches the back of the box.



9) Secure Current Sensor/Barrier Wall Assembly to Housing using 8-32 X 7/16" screw provided.



11) Both Black and Red wires should be below the level of plastic post for easier cover attachment.



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- 12) Wire PCS Control Screw Terminal Block per the diagram.
 Screw Terminal Block Torque: 9-in-lbs Note: The three Voltage Sense terminals must always be wired for proper voltage sensing and operation, even if corresponding relays are not used.
- Tip: Things like Water Heater, whose circuit breaker is occasionally turned off, should not be wired to Relay 3 or Relay 5.
- 13) Make 12VDC connections through the rectangular knock-out located in the back of the box per the diagram on the right and pin-out below. 01 GROUND 02 COACH BAT 03 AIR COND 1 NO 04 AIR COND 1 COM 05 AIR COND 1 NC 06 AIR COND 3 NO 07 GEN SET RUN 08 AIR COND 2 NC 09 AIR COND 2 COM 10 AIR COND 2 NO 11 AIR COND 3 NC 12 AIR COND 3 COM Mating Connector: MOLEX MINI-FIT JR 12-PIN, #39-01-2120 Contact: MOLEX MINI-FIT JR 5556 18-24 AWG, 39-00-0039

Four different Air Condition Compressor wiring options are shown on the right. Relay Contacts are drawn in Non-Shed or Operation Mode.



View of connector is from contact insertion side

- AIR COND 3 NO AIR COND 1 NC AIR COND 1 COM AIR COND 1 NO COACH BATTERY 5 AMP FUSE SYSTEM GROUND
- AIR COND 3 COM AIR COND 3 NC AIR COND 2 NO AIR COND 2 NO AIR COND 2 NC AIR COND 2 NC GEN-SET HOUR METER

Option 1, A/C sheds with Ground Signal

Connect to Ground COM

Option 2, A/C sheds with +12V Signal



Option 3, A/C operates with Ground Signal

Connect to Ground COM Connect to Air Cond

Option 4, A/C operates with +12V Signal Connect to +12 V COM

NO -