

**Field Installation & Operation**  
**TEMPERATURE COMPENSATION**  
**REMOTE PROBE (p/n EJ5033-##)**

Upon opening this package, please inspect and check that the following items are received:

- (1) "A10" temperature probe (p/n EJ5032-00)
- (1) cable assembly of desired length
- (6) plastic cable ties
- Application Note (p/n [JD5003-00](#))

**INSTALLATION PROCEDURE**

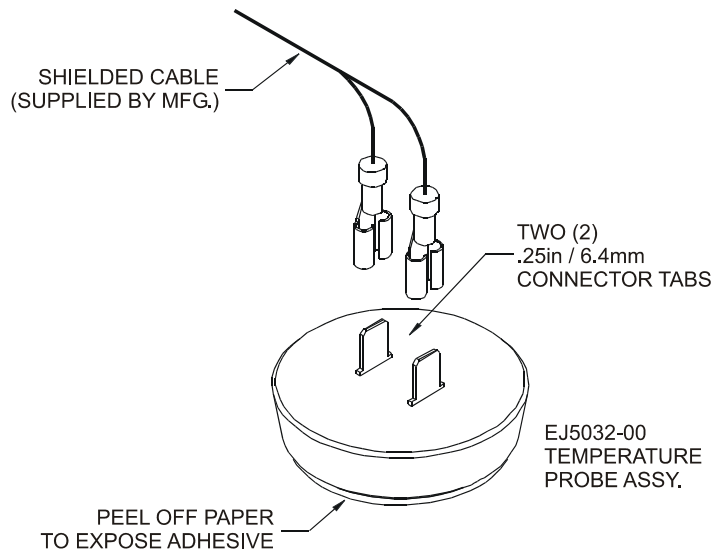
**⚠ WARNING** DISCONNECT AND LOCK OUT ALL AC AND DC POWER SOURCES TO THE BATTERY CHARGER BEFORE PROCEEDING. ONLY QUALIFIED SERVICE TECHNICIANS SHOULD PERFORM THE FOLLOWING PROCEDURES. FOLLOW YOUR EMPLOYER'S STANDARD SAFETY PROCEDURES.

- 1) Attach the probe in a location that will properly measure the battery temperature. DO NOT mount on the battery itself, on unpainted wood, bare metal, or on plastic surfaces.
  - Thoroughly clean and dry the mounting surface.
  - Remove the protective backing from the double face adhesive tape on the probe.
  - Securely press the probe onto mounting surface.
- 2) Install the interconnection cable supplied with the temperature compensation probe kit.
  - Start at the battery charger. Use the cable end that has two (2) stripped leads and one (1) nylon-shielded lead with a quick-connect terminal. Leave enough cable inside the battery charger enclosure to reach the two-position terminal block (**TB8**) on the main control pc board (A1), plus a service 2-3in / 51-76mm loop.
  - Run the cable through a conduit if possible, but do *not* run through a conduit containing any power wiring. Route the other end of the cable to the probe at the battery.
  - Coil up any excess cable at the probe end. Attach the two quick-connect lugs to the probe. Polarity is not important.
- 3) Connect the interconnection cable to the main control pc board (A1) inside the charger as shown on the drawing on page 2.
  - Route the cable within the battery charger enclosure so that it runs with the main wire harness to the back of the front panel, and reaches the main control circuit board.
    - a) For AT10.1 battery chargers rated 6-25 Adc: Remove the lug for wire #30 from the ground terminal (**J6**) on the main control circuit board. Connect the lug for the nylon-shielded wire to J6. Reconnect the lug for wire #30 onto the piggy-back connector featured on the lug for the nylon-shielded wire.
    - b) For all other AT10.1 & AT30 battery chargers: Connect the lug of the nylon-shielded wire to the ground terminal (**J6**) on the main control circuit board.
  - Connect the other (2) remaining wires to the "**BAT TEMP**" terminal block (**TB8**) at the bottom of the main control circuit board. Polarity is not important.
- 4) Using the supplied plastic wire ties, secure the temperature compensation probe interconnection cable to the existing wire harness.
  - Be sure that the cable conforms to the wire hinge through the safety shield and the door.
  - Cable ties should be tightened by hand only, to prevent damaging the wire insulation.
- 5) Check your work. Be sure that:
  - All connections are secure.
  - The shield is connected to the ground at the charger end only.
  - The charger door closes properly without pinching the wire harness or the interconnection cable.

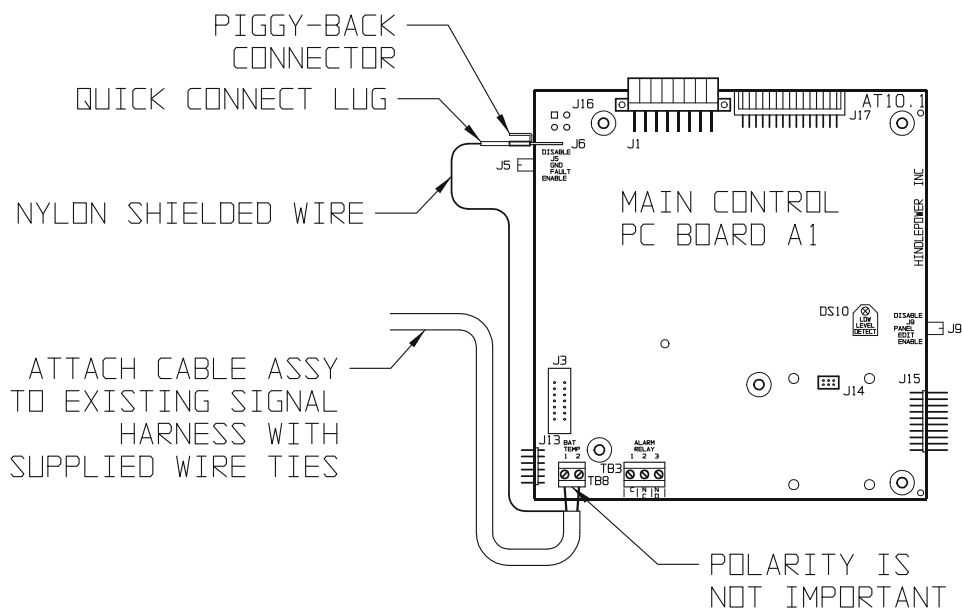
**OPERATING PROCEDURE**

- 1) Refer to the AT10.1/AT30 Series Battery Charger User's Manual for reenergizing the battery charger and using the temperature compensation probe.
- 2) If you are experiencing any inconsistencies with your AT Series battery charger when the temperature compensation probe is utilized, temporarily disconnect the probe, and refer to the Application Note ([JD5003-00](#)) for further details.

**DRAWINGS**



**TEMPERATURE PROBE DETAIL**



**INTERCONNECTION DIAGRAM**