# AT10.1 / AT30 Series Battery Charger
# BARRIER TYPE ALARM TERMINALS

## BACKGROUND (standard terminals)

All AT10.1 and AT30 Series microprocessor-controlled battery chargers feature a Summary (or "common") relay contact for all applicable internal alarms.  A common *option* for AT Series chargers is the Auxiliary Alarm Relay PC Board (p/n EJ1156-##).  Standard wiring to the optional twelve (12) Auxiliary Alarm contacts is detailed in Section 1.10 of the AT10.1 or AT30 O&SI manual.  The Auxiliary Alarm Relay PC Board (A5) features two (2) sets of form-C contacts, for the six (6) standard AT alarms.  These are accessible to the user via 36-position terminal block (TB4).  This terminal block features solderless compression screw terminals, accepting #22-14 AWG wire.

## OPTIONAL BARRIER TYPE TERMINAL SPECIFICATIONS

With this option (p/n EJ5130-01/02), one (1) or two (2) 18-position "barrier" type auxiliary alarm terminal blocks (TB4A/B-AUX) are supplied *external* to the Auxiliary Alarm Board (A5).  Standard pc board terminals (TB4) and optional *barrier* terminals (TB4A-AUX or TBA/B-AUX) are interconnected with black #18 AWG flame-retardant switchboard insulation system (SIS) type wiring, identified on each end with number-coded markers.  The user-accessed remote alarm terminal blocks (TB4A/B-AUX) are molded phenolic "barrier" type, and features larger 6-32 binder head screw terminals, accepting ring or spade lugs for #16-14 AWG wire.  Individual alarm contacts are clearly labeled, in the non-alarm condition, using laminated plastic engraved plates.
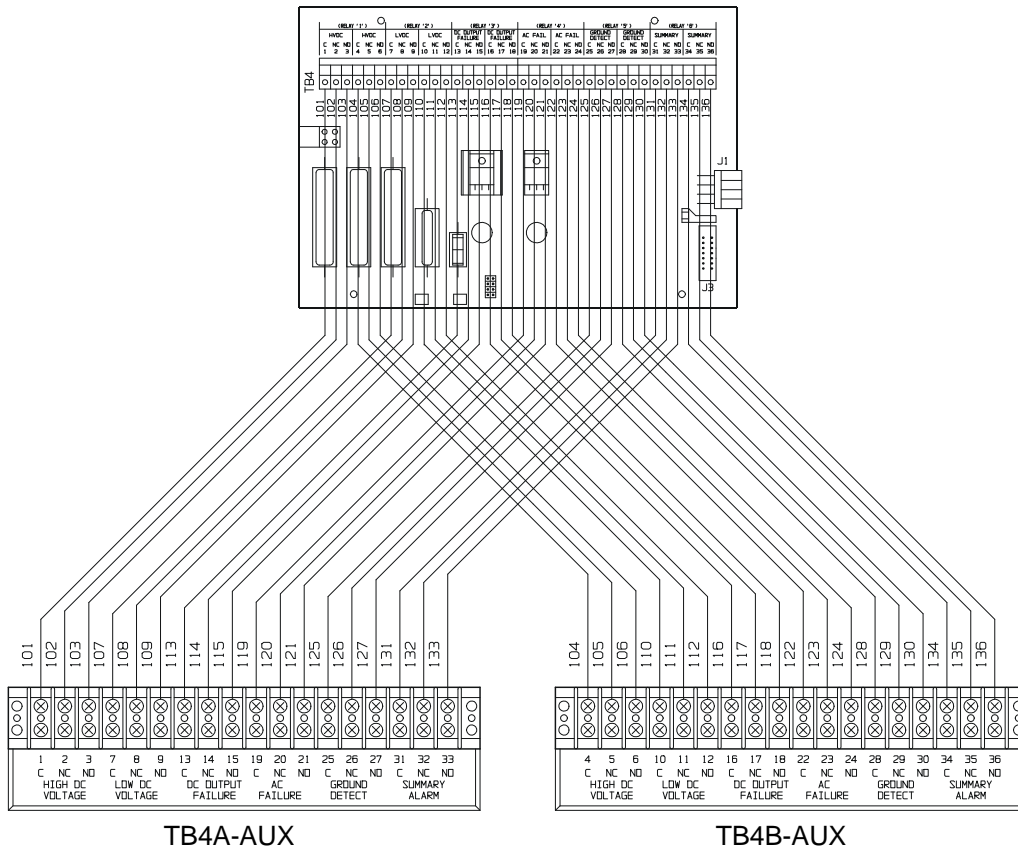
## MECHANICAL

The barrier type terminal blocks (TB4A-AUX or TBA/B-AUX) are mounted in different locations, based on enclosure type.  Refer to the table below for location and orientation.

| Enclosure Type | **TB4-AUX** location and orientation, one (1) form-C | **TB4-AUX** & **TB4B-AUX** location and orientation, two (2) form-C |
|---|---|---|
| Style-586 | mounted in top penthouse enclosure, directly in front of aux pcb (A5) | n/a |
| Style-594 | mounted in top penthouse enclosure, directly in front of aux pcb (A5) | n/a |
| Style-5017 | base-mounted in bottom-right corner, below I/O panel (TB1) | bracket-mounted in top-left corner, in front of inductor (L1) |
| Style-5018 | base-mounted in bottom-right corner, next to transformer (T1) | bracket-mounted in top-left corner, in front of inductors (L1/L2) |
| Style-5030 | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) |
| Style-163 | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) |
| Style-198 | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) | bracket-mounted in top-right corner of back panel, underneath aux pcb (A5) |
| | | |

**NOTICE**    The inclusion of various non-standard options may require relocation of the TB4A/B-AUX terminal block from their standard locations listed above.  Be mindful of complex chargers, and identify as needed.

## CONNECTION DIAGRAM

AUXILIARY ALARM RELAY PC BOARD (A5 w/TB4)



TB4A-AUX

TB4B-AUX

## REFERENCE IMAGES



| AUXILIARY ALARM RELAY PC BOARD (A5 w/TB4) | BARRIER TYPE TERMINALS (TB4x-AUX) |
|---|---|