



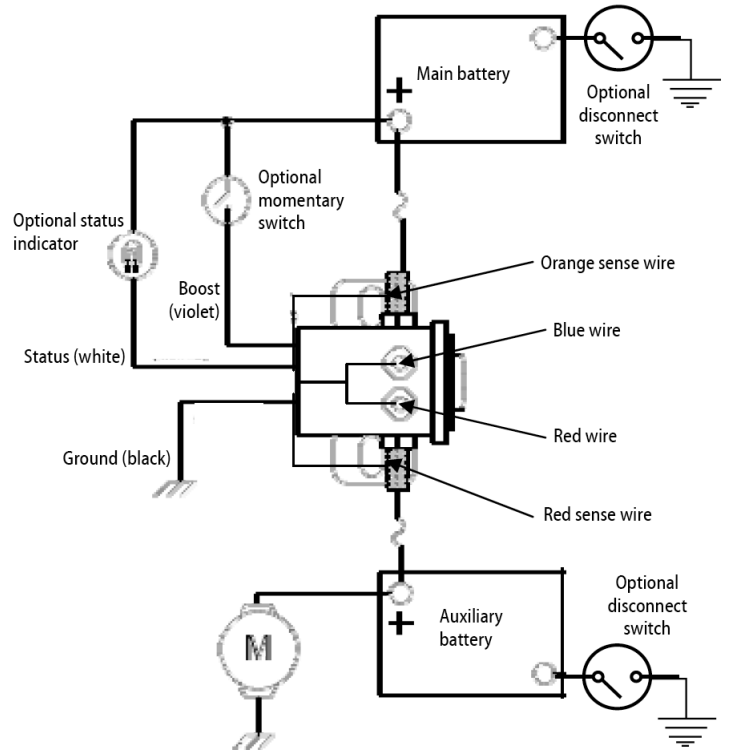
Smart Battery Isolator

THAI-85 & THAI-200



Connections

- 1) Disconnect the battery or power supply or switch it off with the master disconnect switch before installation.
- 2) Connect the THAI-85 or THAI-200 MAIN BAT+ stud to the positive terminal of the main battery (also called starting battery or chassis battery). Use appropriate heavy gauge cable and proper fusing.
- 3) Connect the THAI-85 or THAI-200 AUXILIARY BAT+ stud to the positive terminal of the auxiliary battery (also called the coach battery). Use appropriate heavy gauge cable and proper fusing.
- 4) Connect black "Ground" wire to ground.
- 5) Optional circuit connections:
 - a) Connect violet "Boost" wire to a normally open momentary switch. Connect the other side of the switch to +12V DC.
 - b) Connect white "Status" wire to a 12V DC, 50mA audio/visual alarm. Connect the other side of the alarm +12V DC.
 - c) Unused wires should be capped or otherwise insulated from active circuitry.
- 6) Reconnect the batteries.



Operation

- 1) The two batteries are electrically connected together when either battery voltage is above 13.2V for 2 minutes (e.g. during charging).
- 2) The two batteries are isolated when both battery voltages are below 12.7V for 1 minute.
- 3) The BOOST function connects the two batteries to provide more starting energy.
 - a) To enable the BOOST function, connect the violet wire to 12V DC via a momentary switch or through the ignition switch.
- 4) The STATUS indicator and the on-board LED are turned on when the two batteries are connected together.

Specifications

Environmental:
Electrical:

SAE J1455 and J1113
9-16V DC
200A/85A continuous
750A inrush
8 mA quiescent current
+/- 100 mV

Accuracy:
Power studs:
Wire connections:

5/16" -24 copper studs
18 AWG, SXL, 6"
a. violet – BOOST
b. black – GROUND
c. white – STATUS
5/16"x19/32" on 2 13/64" centers
(7.9 x 15.1 on 56 mm centers).
3.4" x 3.4" x 3.1"

Mounting:

Dimensions: