Electronic Battery Isolator
12V / 24V Negative Ground Charging System

Operating Instructions
Please read these instructions before use

The GSL Electronic Battery Isolator range feature electronic current limiting, which operates when the isolator is subject to overload conditions. This setting will allow both main and auxiliary batteries to share available power while still giving priority to the main vehicle battery in the case of a heavily discharged main battery.

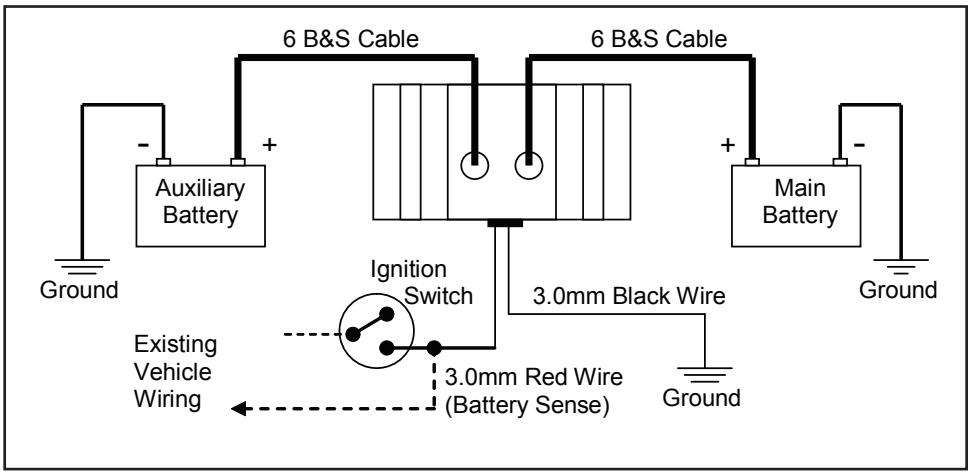
Product	Voltage	Application
EBI-100M	12V	For Charging Systems Up to 100 Amps
EBI-150M	12V	For Charging Systems Up to 150 Amps
EBI-100M-24	24V	For Charging Systems Up to 100 Amps

Warning: Before commencing work ensure that the negative terminals from the main and auxiliary battery have been removed. Do not short any wiring to bodywork except the black earth wire.

Wiring Instructions

1. Mount the isolator high up in the engine bay away from moisture and any source of external heat e.g. exhaust systems.
2. Scratch away the paint from the body surface and earth the black wire onto the body.
3. Connect the red wire to a ignition switched power source e.g. voltage side of the coil and the voltage side of the ignition switch. On EFI vehicles the accessory circuit can be used.
4. Connect the main battery terminal (Right hand side of isolator), using 6 B&S cable to the positive terminal of the main battery.
5. Connect the auxiliary battery terminal (Left hand side of isolator), using 6B&S cable to the positive terminal of the auxiliary battery.
6. Ensure that the second battery is correctly earthed using a minimum 3B&S cable.
7. Ensure that battery voltage on red voltage sense wire is as close as possible to main battery voltage.

Note: Any variance should be within 0.2 volts.



12V Recharging Sequence

CONNECTS
The auxiliary battery for charging only when the main battery reaches 13.6 volts

DISCONNECTS
The auxiliary battery from charging when the main battery voltage falls below 11.4 volts

24V Recharging Sequence

CONNECTS
The auxiliary battery for charging only when the main battery reaches 27.2 volts

DISCONNECTS
The auxiliary battery from charging when the main battery voltage falls below 22.8volts

Note: When installing the battery isolator, it is recommended that you fuse the red voltage sense wiring and that winches are powered from the main battery. Power secondary auxiliary loads such as fridges, lights etc from the auxiliary battery.

Warranty Conditions: Our products come with guarantees that cannot be excluded under the Australian Consumer Law.
The customer is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage.
The customer is also entitled to have the products repaired or replaced if the products fail to be of acceptable quality and the failure does not amount to a major failure.
GSL Electronics (GSL) warrants that its products will, under normal use and service, be free of defects in material and workmanship for a period of two (2) years from the date of the original purchase by the customer as marked on the customer's original invoice. Please refer to our website for full warranty and return information which can be found at http://www.gsl.com.au/faq.html

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