

# 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.

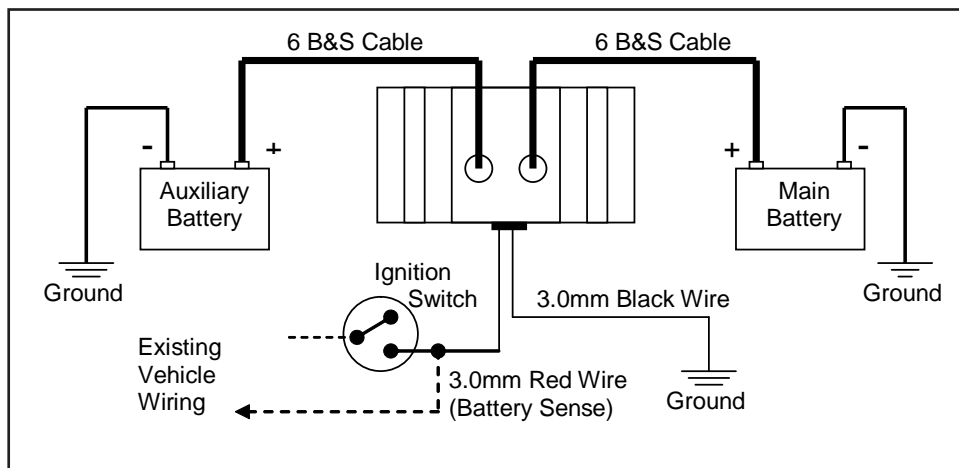
Product	Voltage	Application
EBI-100M	12V	For Charging Systems Up to 100 Amps
EBI-150M	12V	For Charging Systems Up to 150 Amps
EBI-100M-24	24V	For Charging Systems Up to 100 Amps

**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:** The product is warranted to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the date of sale. This warranty covers defective parts and workmanship provided that the product is shipped prepaid to the seller within 24 months of purchase of goods. This warranty is limited to the repair or replacement (at the manufacturers' discretion) of parts and shipping prepaid to the original despatch destination. We regret that no liability can be accepted for consequential or special damages of any kind howsoever arising in connection with products supplied by the seller. This warranty is in lieu of all other warranties expressed or implied. No representative is authorised to assume for the seller any other liability in connection with the seller's products.