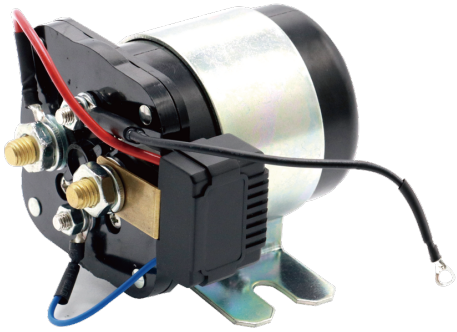
IB-SRL80
Smart Battery Isolator

The Smart Battery Isolator is designed specifically for use in multi battery applications as a solenoid priority system to protect the start battery from being excessively discharged by auxiliary loads, whilst still allowing the auxiliary battery to supply non essential loads. Put simply, once the start battery has had some charge from the alternator, the Smart Battery Isolator will connect an auxiliary battery to the charge circuit. Similarly, if the start battery voltage drops too low, the Smart Battery Isolator will disconnect any auxiliary batteries or loads from the start battery to conserve charge.

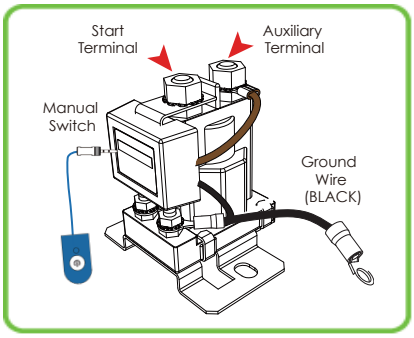
SPECIFICATIONS

Part Number	SRL80	
System Voltage	9 - 16V	
ON Volts	> 13.2V	
OFF Volts	< 12.7V	
Turn ON Delay	5 sec	
Turn OFF Delay	10 sec	
Max. Cont. Current	80 Amps	
Standby Current	< 5mA	



INSTALLATION INSTRUCTIONS

1. Mount the Smart Battery Isolator securely in a convenient location near the start battery bank. Do not mount in direct engine heat.
2. Install in the order described below:
   - Make sure the auxiliary battery negative is properly grounded to the vehicle chassis.
   - Ground Connection. Connect the Smart Battery Isolator ground terminal to chassis ground. Remove any paint to ensure a good ground connection. Note: A good ground will ensure correct switching voltage.
   - Select correct Circuit Breaker/Fuse sizes and install at battery end of both positive cables.
   - Connect the cables in the order shown on the next page.
   - Manual Start Switch (optional). Plug in the manul start switch into the 3.5mm jack. To manually operate the Smart Battery Isolator, press the manual switch and the isolator will manually operate for 60 seconds.



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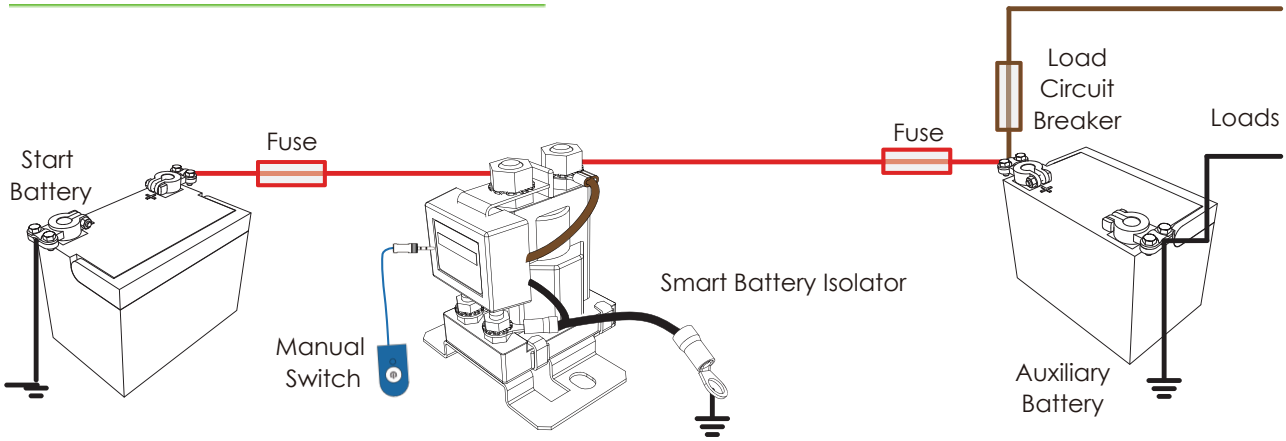
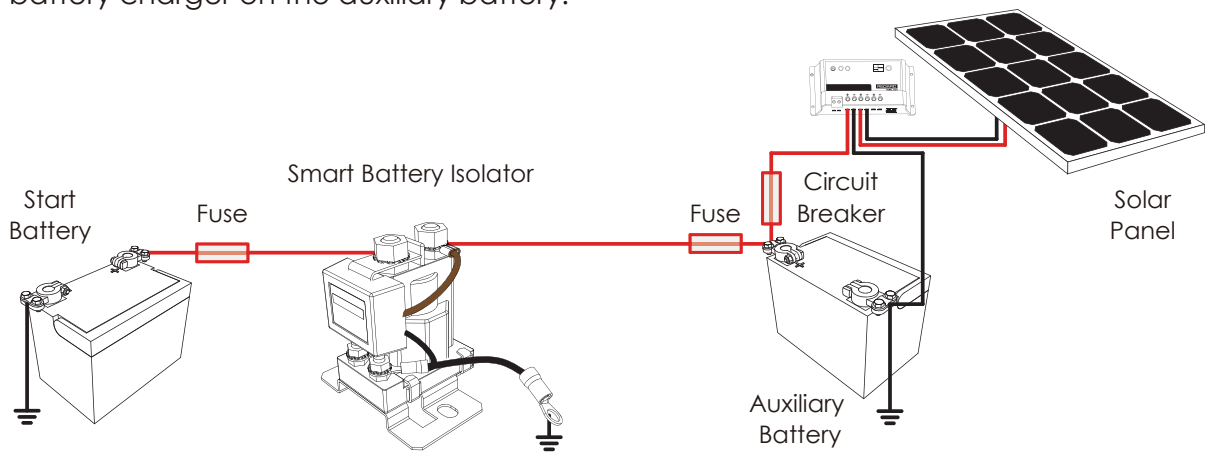
STANDARD WIRING DIAGRAMS



DUAL SENSING SMART BATTERY ISOLATOR

Dual Sensing Smart Battery Isolators monitor both the start battery and the auxiliary. If the unit detects that either battery has exceeded 13.2V the isolator will be connected. The benefit of the dual control enables the user to charge the main battery from a solar panel or battery charger on the auxiliary battery.



FAULT INDICATION

NOTE: The LED may stay ON for a period after the vehicle is turned OFF. This in NOT a fault. Should a fault occur, the LED in manual switch is set to notify the operator of the fault. The LED will flash with the following sequences:

CODE 1	2 Flashes	Over-Voltage>15.5V
CODE 2	3 Flashes	Voltage Drop <12.7V

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