SPLeinonen

Fully electronic main circuit breaker.

INSTALLATION INSTRUCTIONS:

The device is installed in the main power cable from the battery.

When the orange and purple wires are connected, the main circuit breaker is switched on. At the same time, the red AUX output activates the engine control unit, ignition relay, ECU wake-up signal, or another circuit required to keep the engine running.

When the control signal is disconnected, the AUX output is switched off, shutting down the engine. The main power output is also disconnected, and current can only flow towards the battery. This helps prevent alternator voltage spikes, so a separate kill resistor is not required

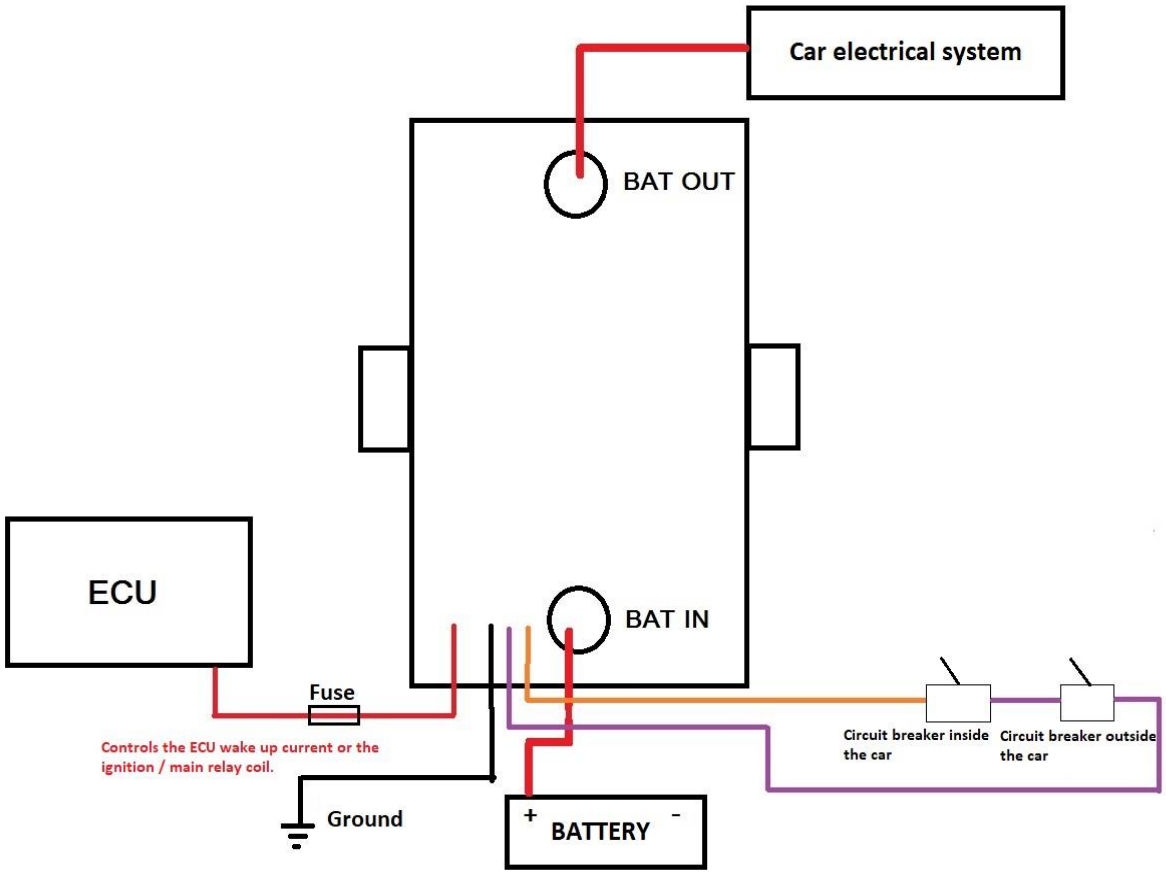
Rated for 180 A continuous current, suitable for a typical passenger car installation. Peak current: over 1200 A.

Connections:

BAT IN	Located at the same end as the control wires. Connect to the battery through a main fuse.
BAT OUT	Located at the opposite end from the control wires. Connect to the vehicle electrical system, starter cable, etc.
Orange	Main circuit breaker ON/OFF control output. Use only this wire for the control circuit.
Purple	Main circuit breaker ON/OFF control return.
Red	AUX output. Controls the engine control main relay, ignition relay, ECU wake-up signal, or another circuit where loss of power will shut down the engine. Use a maximum 15 A fuse for this output.
Black	Ground. Connect to a clean chassis ground point or directly to the battery negative terminal.

WARNING! Do not use illuminated switches. Illuminated switches can damage the main circuit breaker.

EXAMPLE ON THE OTHER SIDE OF THE PAGE



Note:
After wiring the switches, check the switch circuit with a multimeter. The resistance should be close to 0 ohms, or the same as the multimeter shows when its test leads are connected together.

If there is resistance in the switch circuit, it may cause malfunction of the device. Check the wiring and switches if any resistance is detected.

The use of a main fuse is recommended. It protects the wiring and the connected devices. The main circuit breaker does not include internal overcurrent or short-circuit protection.

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This device is intended for use at your own risk in non-road vehicles and applications. SP Leinonen is not liable for any damage, loss, injury, or consequential damage resulting from the installation or use of this device.