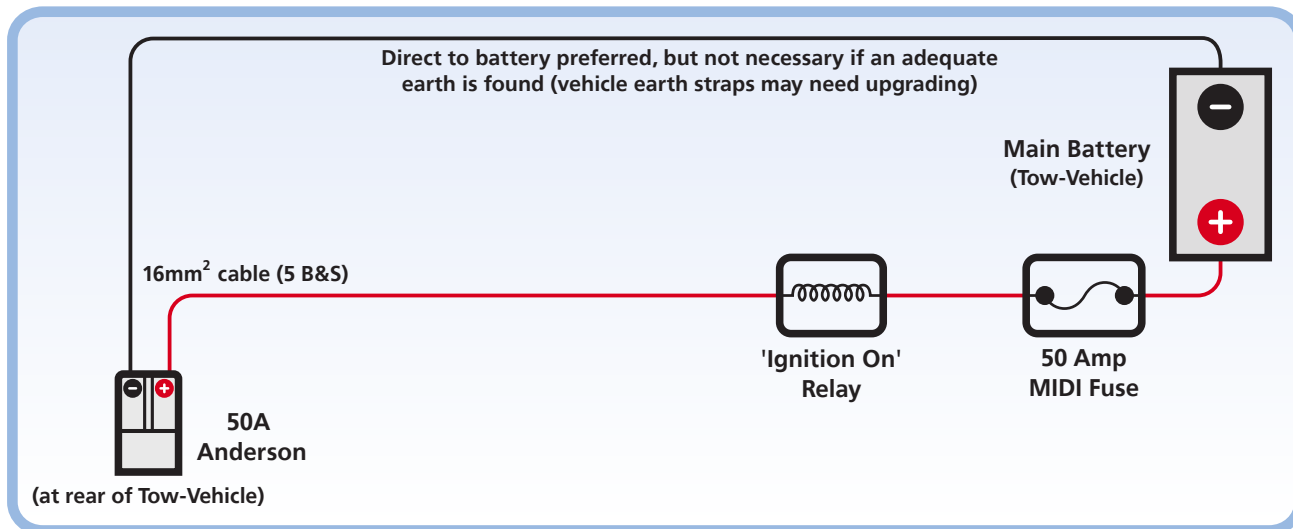


TOW-VEHICLE WIRING

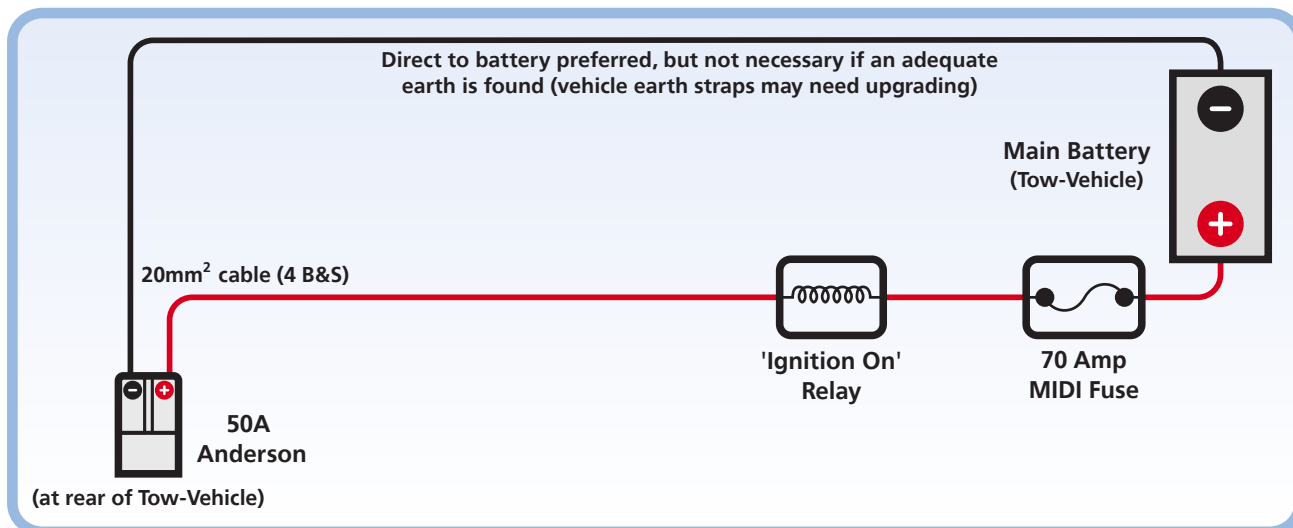
INFORMATION FOR X-SERIES OWNERS



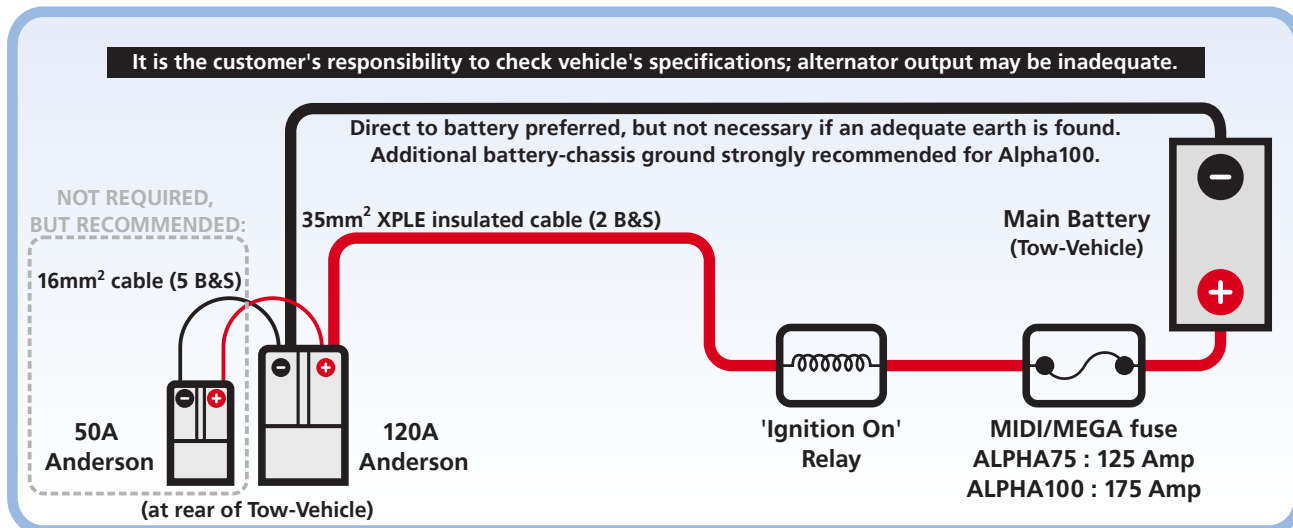
UP TO 30A (REDARC MANAGER30...):



UP TO 50A (REDARC ALPHA50...):

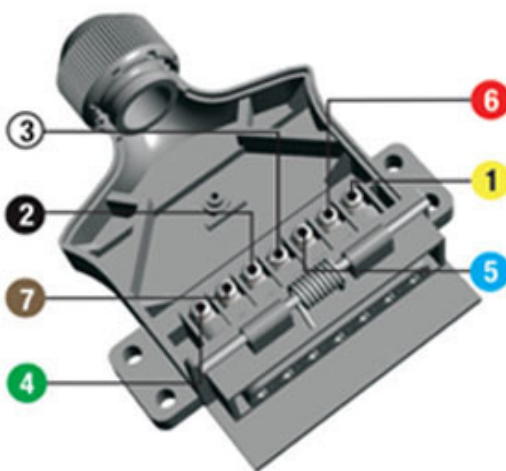


UP TO 120A (REDARC ALPHA75 & ALPHA100...):



7-PIN FLAT CONNECTOR:

- 1** Left Indicator
- 2** Reverse
- 3** Earth
- 4** Right Indicator
- 5** Service Brakes
- 6** Stop Brakes
- 7** Tail Lights



1 BRAKE CONTROLLER UNIT

- 1.1 Under Federal law, trailers with a GTM over 750kg and fitted with electric brakes must have the brakes controllable from the driver's seat of the tow vehicle.
- 1.2 Ultimate Campers recommends a 'proportional' type Electronic Brake Controller unit be installed into the tow vehicle by a qualified auto electrician. These units match the braking force applied to the tow-vehicle to the trailer's brakes. Suggested unit is the Redarc Tow-Pro Elite.
- 1.3 It is the customer's responsibility to ensure the vehicle is wired adequately for high drain. It is recommended to run brake controller wiring as a separate system, as the vehicle's factory-fitted wiring harness may not be suitable for brake controllers with high sensitivity to voltage drop. For the Redarc Tow-Pro Elite V3 we recommend:
 - 1.85mm² for Brake Light Trigger
 - 4.5mm² for Input, Output & Ground

2 7-PIN FLAT CONNECTOR

- 2.1 All Ultimate Camper models are fitted as standard with a **7-Pin Flat** connector plug. Your tow-vehicle will therefore need to be fitted with a **7-Pin Flat** connector socket.
- 2.2 In cases where your tow-vehicle is already fitted with another type of socket (e.g. Euro 7-Pin Round, 12-Pin Flat etc.) you will need to either have this changed over to a 7-Pin Flat socket by a qualified auto electrician, or acquire an adaptor cable to convert your vehicle's socket to a 7-Pin Flat socket.
- 2.3 All the tow-vehicle's rear lights and the brake controller wiring must be connected to the tow-vehicle's 7-Pin socket, as per standard wiring codes (with pin #2 to be wired to reverse lights). Trailer brake wiring should be minimum 4.5mm².

3 LED LIGHTING

- 3.1 The navigational lights (tail, parking, brake, reverse and indicators) fitted to Ultimate Campers are LED.
- 3.2 In some cases this can cause issues with some earlier model vehicles featuring 'Trailer Stability' electronics, where the sensing signals are unable to detect that a trailer is connected. As a consequence the Trailer Stability electronics are not activated and the camper's indicator lights will 'pulse' continuously. If this is the case with your vehicle, Ultimate Campers is able to rectify this by fitting a resistor device to your camper as required.
- 3.3 Ford Ranger (RA 2022-), Ford Everest (UB 2022-) and Volkswagen Amarok (NF 2022-) require Sequential Light Rectifiers to correctly operate the sequential indicators used on some Ultimate models.

4 NOTE

- 4.1 The wiring diagrams illustrated above must be followed as shown. Must be run directly from the vehicle's main starter battery; do not run from an auxiliary battery if fitted.
- 4.2 DC charging can be independently limited. If the tow vehicle is not capable of outputting an amount of charge OR the wiring is a limiting factor, the DC/DC must be limited.
- 4.3 At max output (100A-110A) the tow vehicle may be severely affected. E.g. voltage drop to camper / strain on vehicle's electrical system.