

ASC+ Auxiliary Battery Protect

EXTENDS BATTERY LIFE, CONSERVES POWER, ISOLATES



You leave the vehicle locked up over the weekend and the auxiliary batteries are flat on Monday morning. Not a good way to start the week!

The Auxiliary Battery Protect system is used on specialised vehicle auxiliary batteries to provide protection against deep discharge damage (going flat!). This system also has timed auto isolation after a preset period of inactivity, and a manual on/off control.

A permanent fused feed through is offered to power items such as clocks, radios and central locking which would normally require resetting if disconnected.

The unit comprises of a high performance latching contactor, a control box, isolator switch assembly and all connecting looms.

Simple to install, the auxiliary battery protect provides a complete solution to safeguard your investment in high performance batteries.

KEY FEATURES

- 12V and 24V versions
- “No-power” fully latching contactor
- Auxiliary loads 125A or 250A continuous
- Auto timed isolation
- Deep Discharge Sulphation protection
- Manual override and control
- Bypass power feeds available for small loads.
- Push button manual on/off control
- 3sec accidental isolation protection
- High intermittent capability up to 1500A
- Illuminated switch
- Minimal power consumption at all times
- Safety interlock
- Customised versions available

The system consists of a latching heavy duty contactor controlled by a remotely mounted microprocessor. The system is automatic in operation but can be controlled manually to provide isolation.

Low Voltage Isolation

The system protects the auxiliary battery bank by continuously monitoring the voltage. The system has two “dynamic” levels of isolation: a long period at 12.2V (24.4V) or below protecting the battery or a short period at 10.5V (21.0V). This allows for high, short-duration currents such as tail-lifts and winches to be operated but protects the load against low voltage damage and the battery from deep discharge damage.

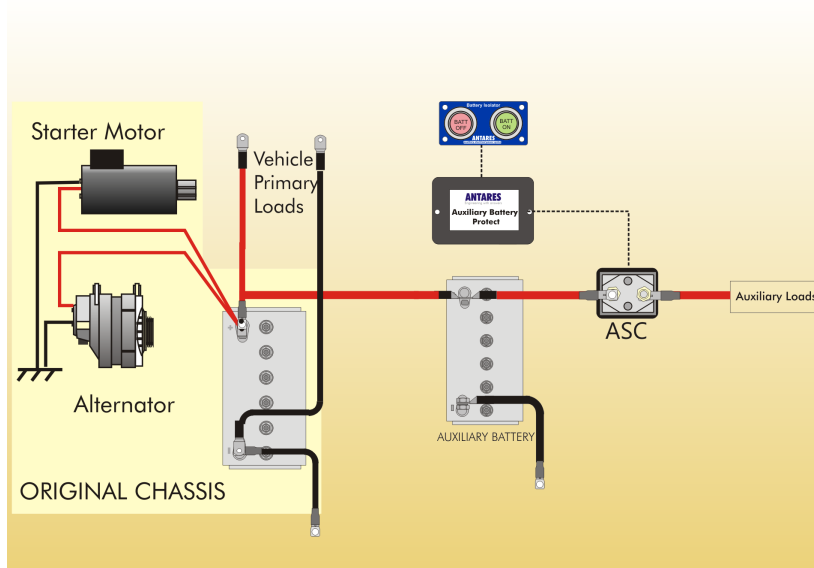
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manual isolator switch

When isolated the isolator switch blinks and is pressed to reconnect the loads.

Timed disconnect

The system also has an auto time out after the ignition key is removed. It will remain powering the loads for 90 minutes after the engine is switched off upon request. In applications with an on board charger, the system will remain active whilst the voltage remains above the cut off threshold. This feature eliminates unnecessary discharge when the vehicle is parked and not in use. Conserving charge will improve battery life and give operational cost savings. The automatic isolation is indicated by a flashing indicator switch. Once disconnected the system draws negligible current, it can be reactivated simply by pressing the conveniently located dashboard switch.

Installation

A complete set of parts is supplied. The contactor can be conveniently located close to the battery positive post connection and interrupts the power cable to the auxiliary loads. The control module is located close to the control switch in the cab.

Compatibility

The auxiliary battery protect is fully compatible with the auto split charge system and auxiliary battery protect system and can also be controlled via our SE04 multiplex task management system.

Customised versions

The controller contains a microprocessor and can be programmed with different operating regimes to suit different applications.

SPECIFICATIONS				
Part number	90904	90905	90914	90915
System voltage/current	12V/125A	12V/250A	24V/125A	24V/250A
Permanent feed	3A continuous 8A short term peak			
Contactor rating	125A continuous 950A peak	250A continuous 1500A peak	125A continuous 950A peak	250A continuous 1000A peak
Contactor connections	power: M8 studs	power: M10 studs	power: M8 studs	power: M10 studs
Auto time out (factory setting)	90mins without charging source upon request ie below 12.7V or 25.5VDC, (programmable to one week)			
Deep discharge protection	Std 30s below 10.5V		Std 30s below 21.0V 3 mins below 24.4V	
Controller dimensions	120mm x 70mm x 30mm (flange mounted)			
Contactor dimensions	97x50x38mm (excl mount)	152x55x70mm (excl mount)	97x50x38mm (excl mount)	152x55x70mm (excl mount)