



# START GUARDS

## Battery Guard Information

For situations and applications where low voltage abuse is a risk, an Amber Valley battery guard system can be mounted in-line on the power cable from the battery to the supply of the lift. This device constantly monitors the battery voltage.

- If the voltage drops below 23.1V, the unit will tell the operator by means of an audible warning buzzer that the engine must be re-started.
- If the operator doesn't re-start the engine, the unit will cut off the power to the tail lift after 30 sec.
- Once the vehicle has been restarted, and the input voltage exceeds 26.0V, the unit will re-set and the tail lift can be used again.

The battery guard

- Is quick and easy to install
- Saves cost on vehicle down time, flat batteries, and component failure on the tail lift caused by this abuse
- Is available in 12V and 24V
- Operates at  $-40^{\circ}\text{C}$  to  $120^{\circ}\text{C}$
- Has a peak current capability of 1800A, and a continuous rating of 190A
- Is completely encapsulated against water, acid, oil and dust.

## Fitting Instructions

Locate the main +ve cable supplying power to the tail lift. Mount the battery guard in a suitable location, close to the power cable (see note 1).

Cut the power lead and terminate both ends with a suitable ring terminal.

Connect the power cable from the battery to the "+ve in" connector on the battery guard.

Then connect the power cable feeding the tail lift to the "+ve out" connector.

Connect the black lead to a good earth point in the power pack.

Connect the white wire to the +ve side of a led (if visual warning is being used).

Connect the audible warning unit.

If this unit is fitted externally, Amber Valley recommends the fitting of rubber boots over the connections to this unit, along with a protective grease (both not supplied).

Consideration must be given, when externally mounting this device, to the location & possibly the provision of a suitable enclosure to minimise water ingress or environmental damage.

