



Part No's.

K13 Tail Lift Battery Guard 12v
K14 Tail Lift Battery Guard 24v

Key Features

- 🔧 Prevents tail lift from flattening batteries
- 🔧 Visual & audible warning of low battery condition prior to isolation
- 🔧 Fully waterproof
- 🔧 Delphi Packard IP 67 Connections
- 🔧 Night silent operation
- 🔧 Approved by Ratcliff, Ray Smith Group & Ross & Bonnyman
- 🔧 Can be installed OEM by your lift supplier
- 🔧 Easy retrospective installation
- 🔧 Can be used on many types of plant / electro hydraulic equipment

The Tail Lift Battery Guard has been developed specifically to protect the engine starting batteries from being excessively drained by the tail lift to a point where there is insufficient voltage to start the vehicle.

Using the technology from our other Battery Guard products, the Tail Lift Battery Guard monitors the available battery power when the tail lift is in use, if the battery voltage drops below 24.1v (12.1v) a 4 minute voltage sensitive timer is triggered on the ECU.

If the voltage remains below 24.1 volts uniformly for 2 minutes, the sounder on the ECU will begin to bleep & the LED will begin to flash.

Should the Battery voltage remain below 24.1v for a full 4 minutes, the Tail Lift Battery Guard will isolate the tail lift, to protect starting voltage.

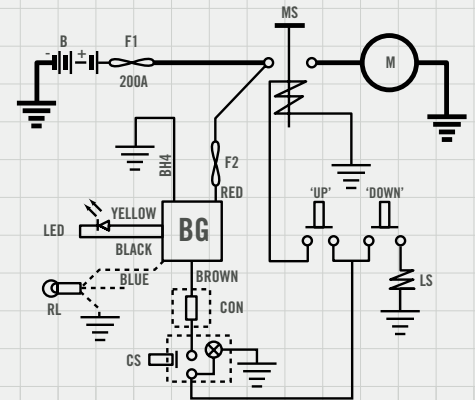
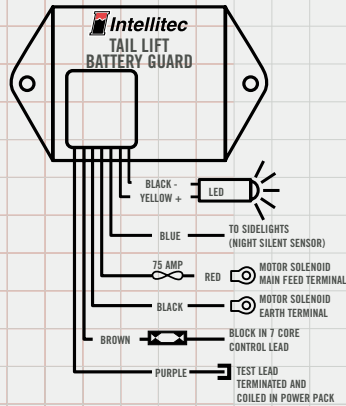
Once automatic isolation of the tail lift has taken place, the operator must start the vehicles engine to restore power to the tail lift, once the Tail Lift Battery Guard senses charging voltage go above 26.2v the ECU will automatically reset.

All connections are made locally inside the power pack, as a retrospective installation the Tail Lift Battery Guard should take no longer than 1 hour to install.

Tail Lift Battery Guard

Standard Installation

Circuit Diagram



B - Battery	CON - Connector
F1 - Fuse 200A	CS - Cab Switch
MS - Motor Solenoid	LED - Diode
M - Motor	LS - Lowering Solenoid
F2 - Fuse 75A	RL - Rear Lamp (vehicle)
BG - Battery Guard	

Installation

1. Isolate power pack before commencing.
2. Fit the guard inside the power pack enclosure ensure the surface is clean, utilise either fixing method.
3. Fit warning LED in a convenient location.
4. Connect wiring as indicated in diagram and secure using cable ties provided.
5. A night silent feature can be achieved by connecting into the rear lamps.
6. Attach labels to power pack.
7. Re-connect system and carry out manual test procedure as follows:
 1. Upon completed installation, start engine and wait until LED goes off.
 2. Stop Engine.
 3. Connect purple (test wire) to negative for 3 seconds until Battery Guard isolates, ensure LED is flashing.
 4. Tail Lift should be inhibited.
 5. Connect purple to negative.
 6. Tail lift should be operative & LED will go off.

Technical Information

Specifications	12 Volt	24 Volt
Nominal Operating Voltage	12.0 volts	24.0 volts
Maximum Current	10 Amps	10 Amps
Minimum Actuation Voltage	9.0 volts	9.0 volts
Reset Voltage	13.1 volts	26.2 volts
Maximum Continuous Carry Current	10 Amps	10 Amps
Ambient Temperature Range	-40°f to + 185°f	-40°f to + 185°f
Normal Input Voltage Range	10 - 16 Volts DC	20 - 32 Volts DC
Standby Current	< than 4 milliamps	< than 4 milliamps
Short Term Over Voltage Protection to:	+ 24 volts	+ 36 volts
Reverse Voltage Protection to:	- 300 volts	- 300 volts
Positive Voltage Spike Protection to:	+ 150 volts	+ 150 volts

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