

Continuous Duty Battery Guard

Intellitec's Continuous Duty Battery Guard is designed to protect the vehicle battery from run-down caused by the use of electro-hydraulic motor operated devices, such as lift gates, scissors lifts, or wheel chair lifts. Electro-hydraulic systems are used in a wide variety of mobile applications to provide heavy lifting or motion capability. This is a relatively simple method of achieving high mechanical forces without the operation of the vehicle engine. These electro-hydraulic systems consume large amounts of energy from the vehicle battery. Often, so much power is used from the battery that it doesn't have enough energy left to start the engine. This requires a maintenance call to "jump start" the vehicle, and is not only annoying, but also costly.



Part Number 00-00698-000

The Guard operates by controlling the coil current to the solenoid used to switch the pump motor. It can be added to almost any electro-hydraulic motor-pump, in the field or on new equipment. It operates by sensing the incoming battery voltage to determine the state of charge on the battery. If the battery voltage falls below a safe level for two minutes, a remote LED will begin to blink, indicating the battery is at a low level. In addition, a beeper on the unit will sound with the LED. A connection is available on the module to inhibit the beeper if silent operation is desired.

If the voltage remains below the threshold for an additional two minutes, the unit will turn off power to the solenoid, preventing the further use of the electro-hydraulic motor pump. Starting the vehicle, raising the battery voltage to the normal charging voltage, can then reset the unit.

The Guard can safely be mounted in a convenient place near the pump motor. It should be mounted in an orientation that will prevent the accumulation of water or debris in the connector area. It is immune to harsh shake and vibration found in the vehicle environment.

The unit includes a connection to allow the unit to be tested. Grounding this terminal with the engine off will disconnect the system. When the engine is started, the systems will reconnect.



Intellitec

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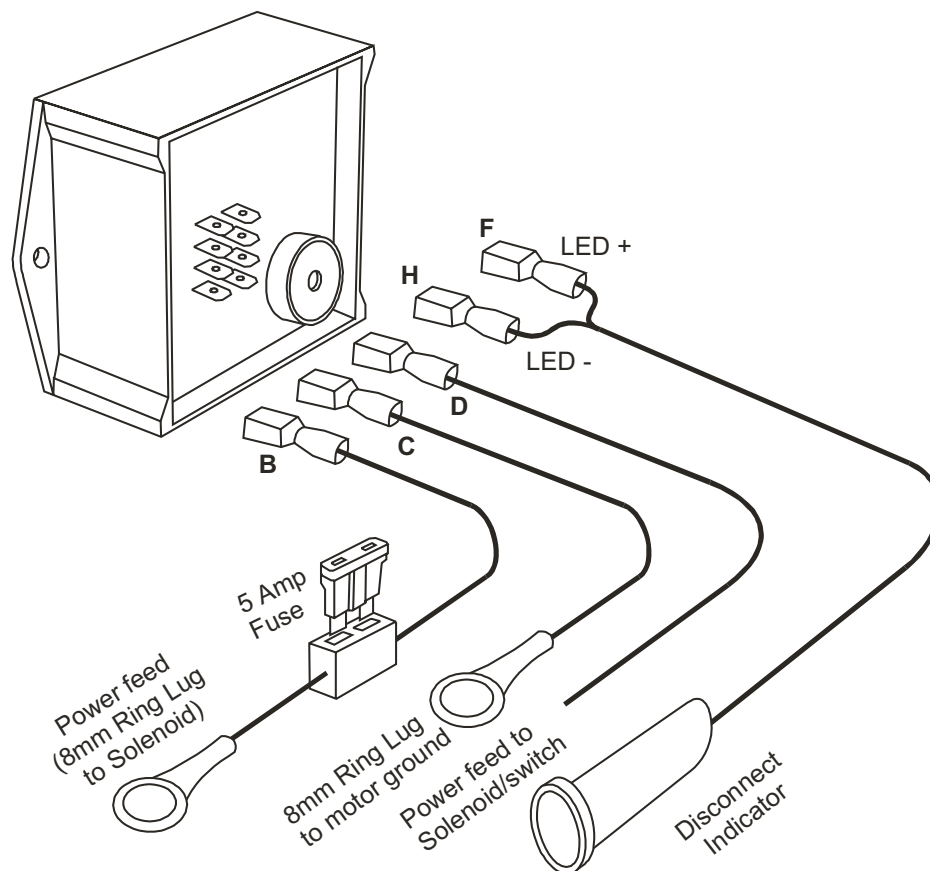
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Intellitec's Continuous Duty Battery Guard operates on the same principles as *Intellitec's* Battery Guard.

Specifications:

Part Number	<u>00-00698-012</u>	<u>00-00698-024</u>
Trip Threshold Voltage	12.0 Volts	24.0 Volts
Reset Voltage	13.3 Volts	26.6 Volts
Standby Current	0.010 Amps	0.006 Amps
Maximum Continuous Carry Current	10 Amps	
Maximum Ambient Temperature	185 Degrees F.	
Minimum Ambient Temperature	-40 Degrees F.	

Typical Wiring Diagram:



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