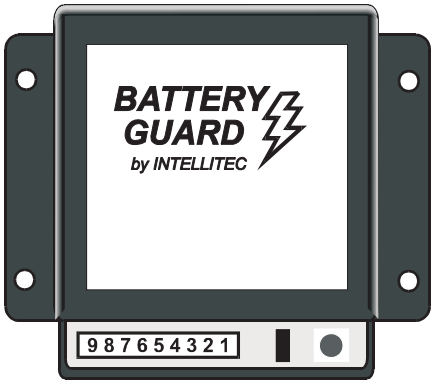
Battery Guard

INTELLITEC'S BATTERY GUARD system prevents "dead batteries" by disconnecting the battery before it is completely drained and cannot start the vehicle. It is designed to be used in vehicles with 12 (24V) volt electrical systems. The system consists of an Intellitec Battery Disconnect Relay, the Battery Guard Controller, and the dash mounted Battery Guard Reset Switch with LED indicator.



The heart of the system is the unique Battery Disconnect Relay (US Patent #4,628,289) that has been used by the transportation industry for over fifteen years. This rugged, latching relay is capable of carrying heavy vehicle currents even though it requires no power to maintain its open or closed positions.

Low Voltage Sensing - Battery Guard senses battery voltage to determine condition of charge. When the voltage is less than 12.0 (24V) volts for four minutes, the battery will be disconnected.

Dash Mount Reset Switch - When the battery has been disconnected, it can be re-connected by pressing the Battery Guard Reset Switch.

Disconnect Indicator - The Switch LED will blink to indicate that the battery has been disconnected.

Automatic Re-Connect - When the voltage rises above 13.0 (26V)volts, as with a "jump start" or connection of a charger, the battery will automatically be re-connected.

Ignition Override - When the ignition switch is turned on, the unit will not disconnect the battery, regardless of the voltage level.

System Test Switch - There is a "test" switch on the Controller that allows testing of the completed installation.

Disconnect Bypass -A terminal on the Controller provides constant battery power to the radio or phone memory, or as a solar panel connection.

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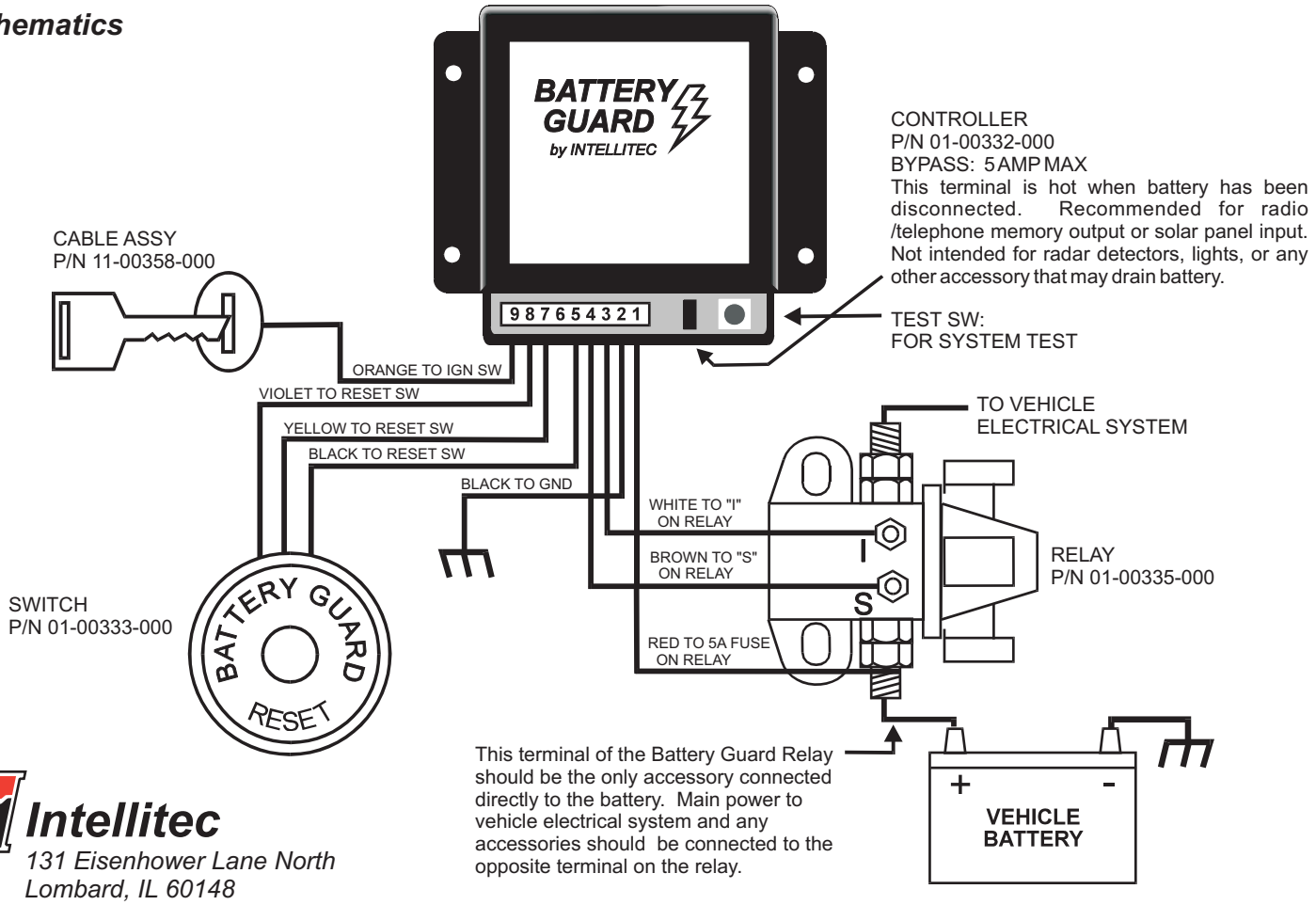
P/N 53-00317-000 Rev. B 011806

Battery Guard

Model Description:	12 Volts	24 Volts
Battery Guard System	00-00317-000	00-00514-200
Battery Guard Module	01-00332-000	01-00514-200
Battery Guard Relay	01-00335-000	01-00055-006

Specifications:		
Nominal Operating Voltage	12 Volts	24 Volts
Actuation Current	3 Amps	1.2 Amps
Minimum Actuation Voltage	9 Volts	18 Volts
Maximum Continuous Carry Current	100 Amps	100 Amps
Maximum Short Term Carry Current (30 seconds)	500 Amps	500 Amps
Maximum Ambient Temperature	185 Degrees F.	185 Degrees F.
Minimum Ambient Temperature	-40 Degrees F.	-40 Degrees F.
Contact Life at Full Load	Min. of 10,000 Cycles	Min. of 10,000 Cycles
Maximum Actuation Time	0.2 Seconds	0.2 Seconds
Standby Current	Less than 1 milliamp	Less than 1 milliamp
Short Term Over Voltage Protection to	+24 Volts	+24 Volts
Reverse Voltage Protection to	-300 Volts	-300 Volts
Positive Voltage Spike Protection to	+150 Volts	+150 Volts
Operating Environment	Interior of Vehicle, No exposure to outdoor weather conditions	

Schematics



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