

Battery Control Center

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The Intellitec Single Disconnect Battery Control Center is the ideal solution for the construction of special vehicles, the Single Disconnect BCC offers reliable battery control and fusing in a compact and easy to install solution.

Single Disconnect BCC includes a remote disconnect for the auxiliary battery, a bi directional isolator, boost start function and 10 fuses to supply protected power from the auxiliary battery and ignition switched sources. One of these outputs is hot only when the ignition is off. This can be used as a lock out for various functions such as slide outs, pc monitors, TV's etc.

The bi directional isolator relay delay (BIRD) function charges both batteries when either one is being charged. When the vehicle is being driven, both batteries will be charged from the engines alternator. If the vehicle is plugged into shore power, both batteries will be charged from the converter. If neither battery is being charged, the batteries are fully isolated. The controller also senses heavy loads on either battery to prevent the wrong battery from being inadvertently discharged.

The controller operates by sensing the voltages on both batteries. When either battery is being charged, the controller will close the isolator solenoid , connecting the two batteries together and charging them both. Anytime either battery voltage goes above 13.1 volts for approximately five seconds the solenoid closes. (Normal charging voltages are from 13.8 to 14.4 volts)



Part No 00-01087-000 12V

After the solenoid has been closed, the system continues to sense the voltage, if the ignition switch is off and the battery voltage drops below 12.6 volts for approximately five seconds, the solenoid is opened to prevent the chassis battery from being discharged by the electrical loads. If the ignition switch is on, the controller allows the voltage to drop below 11.9 volts for approximately five seconds before the solenoid is opened. This insures the alternators full output is available for important chassis functions.

The Single Disconnect BCC is mounted in a metal enclosure for mounting in the engine compartment if necessary. Battery cable connections are made directly to the isolator. The remaining connections are made through Mate-N-Lok connectors to make installation fast accurate and easy

For further information on this product,
please contact Intellitec.

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Specifications

Part No 12V	00-01087-000
Stand by current	< 1 milliamp
Ambient temperature range	-40C to +85C
Normal input voltage range	10-18 volts
Short term over voltage protection	+ 26 volts
Reverse voltage protection	- 300 volts
Positive voltage spike protection	+150 volts
Operating environment	Under hood, out of direct weather

Fuses

Fuse No	Function	Fuse Size (MAX)	Source
F1	Reverse Ign	15 Amp	Main battery
F2	Ignition switch	7.5 Amp	Main battery
F3	Ignition switch	15 Amp	Main Battery
F4	Ignition switch	10 Amp	Main battery
F5	Boost Function	5 Amp	BIRD
F6	Spare	10 Amp	Disconnected Aux Battery
F7	Spare	15 Amp	Disconnected Aux Battery
F8	Spare	15 Amp	Disconnected Aux Battery
F9	Spare	15 Amp	Disconnected Aux Battery
F10	Spare	25 Amp	Disconnected Aux Battery

Note: The sum of the continuous current through F2+F3+F4 must not exceed 30 Amps