

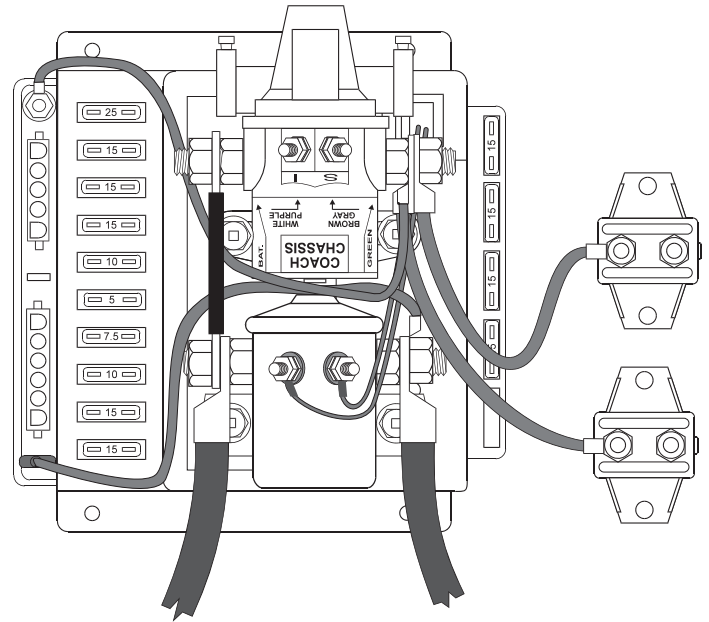
# Single Disconnect Battery Control Center

Intellitec's Single Disconnect Battery Control Center offers the battery control functions used in smaller motor homes. It includes a remote disconnect for the auxiliary battery, a bi-directional isolator, auxiliary start function, and nine 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*, to be used as a lock out for various functions such as slide outs and TV.

The bi-directional isolator relay delay (BIRD) function charges *both* batteries when *either* one is being charged. When the coach is being driven, both batteries will be charged from the engine's alternator. When the coach 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, charging them both. Anytime either battery voltage goes above 13.1 volts for approximately 5 seconds, the solenoid closes. (Normal charging voltages are from approximately 13.8 to 14.4 volts.)

After the solenoid has been closed, the system continues to sense the voltage. If the ignition



Part No. 00-00635-000

switch is off and the battery voltage drops below 12.6 volts for approximately 5 seconds, the solenoid is opened to prevent the chassis battery from being discharged by the coach loads. This might occur when the converter is heavily loaded.

If the ignition switch is on, the control allows the voltage to drop below 11.9 volts for approximately 5 seconds before the solenoid is opened. This insures the alternator's full output is available for important chassis functions.

The unit is housed in a plastic enclosure for mounting in an engine compartment. Battery cable connections are made directly to the isolator. The remainder of the connections are made through Mate-N-Lok connectors to make installation fast accurate and easy.

The remote disconnect can be used with Intellitec's BD-0 or BD-1 panels and cables or can be wired to a user supplied switch.

 **Intellitec**  
1485 Jacobs Rd.  
Deland, FL 32724  
386.738.7307

P/N 53-00635-000 Rev. E 032619

# Single Disconnect Battery Control Center

## Specifications:

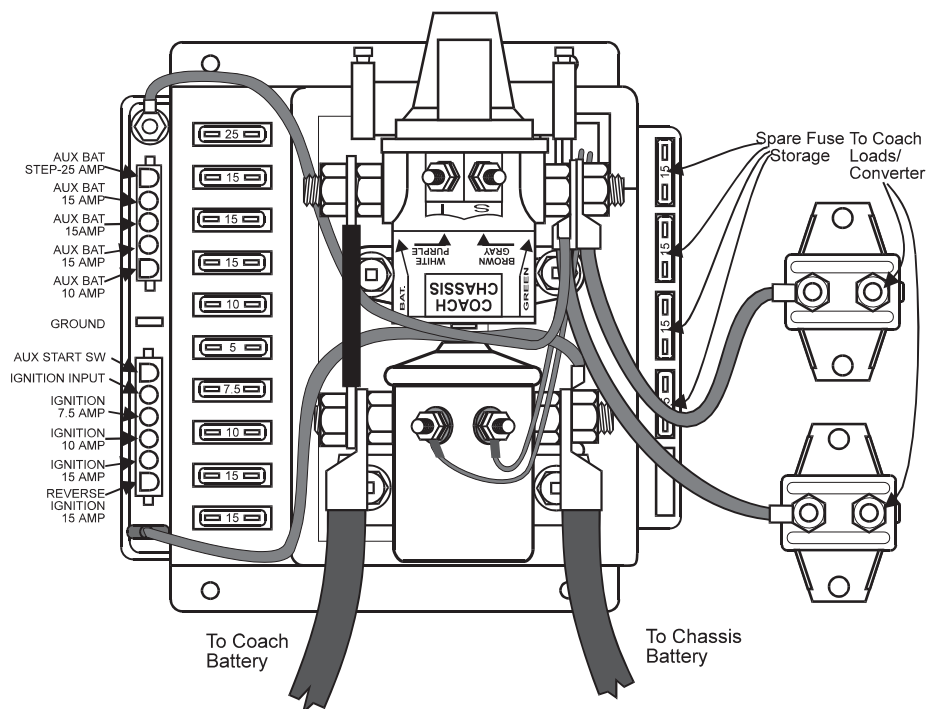
Part Number:	00-00635-000
Standby Current:	Less than 1 milliamp
Ambient Temperature Range:	-40C to +85C
Normal Input Voltage Range:	10 to 18 volts
Short Term Over Voltage Protection:	+26 volts
Reverse Voltage Protection:	- 300 volts
Positive Voltage Spike Protection:	+150 volts
Operating Environment:	Under hood, out of direct weather

## Fuses:

Fuse No.	Function	Fuse Size (Max.)	Source
F1	Reverse Ign	15 Amp	Main Bat
F2	Ign Sw	7.5 Amp	Main Bat
F3	Ign Sw	15 Amp	Main Bat
F4	Ign Sw	10 Amp	Main Bat
F5	Aux Start Sw	5 Amp	BIRD
F6	Spare	10 Amp	Disconnected Aux Bat
F7	Spare	15 Amp	Disconnected Aux Bat
F8	Spare	15 Amp	Disconnected Aux Bat
F9	Spare	15 Amp	Disconnected Aux Bat
F10	Step Power	25 Amp	Disconnected Aux Bat

**NOTE: THE SUM OF THE CONTINUOUS CURRENT THROUGH F2 + F3 + F4 MUST NOT EXCEED 30 AMPS.)**

## System Connections:



**Intellitec**  
 1485 Jacobs Rd.  
 Deland, FL 32724  
 386.738.7307

P/N 53-00635-000 Rev. E 032619