

Battery Display Indicator (BDI) Operation

BDI Unit



Figure 1: **BDI with Magnet Mounts**



Figure 2: **Back of BDI unit**

STATE OF CHARGE (SOC)	ILLUMINATED LED COLOR	LIGHT FUNCTION
81-100% SOC	Green LED	Steady On
61-80% SOC	Green LED	Steady On
41- 60% SOC	Green LED	Steady On
21-40% SOC	Yellow LED	Steady On
0-20% SOC	Red LED	Blinks Slowly

FUNCTIONALITY

During Operation

- Press momentary switch once to turn on battery pack
 - When Battery Management System (BMS) boots up, all the LED's are illuminated from bottom to top, one after the other. Then the state of charge (SOC) is checked.
 - The corresponding LEDs will illuminate to denote to battery's SOC.
- Press on/off switch when BMS is running in order to turn off pack
 - Hold 10 seconds to force the BMS to shut down, and turn off the battery pack
- While Charging
 - Appropriate LED will blink to denote customer SOC while charging
 - If SOC is below 20%, Red LED blinks slowly.

TROUBLE SHOOTING

- System Fault: Red LED blinks slowly
 - Occurs if there's any Diagnostic Trouble Code (DTC) that causes the battery to shut down, not charge or start. DTC's include: NO_CHARGE, NO_DISCHARGE, SOFT_EPO, HARD_EPO, NO_START or NON_RESETTABLE
- System Fault: Buzzer sounds for 10 seconds and Red LED starts blinking. After 10 seconds, buzzer turns off and LED keeps blinking until the battery pack is power cycled.
 - Occurs if there's any DTC that causes current limiting, Early Warning Signal (EWS), Emergency Power Off (EPO)
- When BMS is in error state
 - If button is pressed then BMS will shutdown
 - There's a short time lag between pressing the switch and the BMS actually turning off
 - Hold 10 seconds to force the BMS to shut down, and turn off the battery pack

Communication Cable Choices



Figure 3: **Truck Communication Cable**



Figure 4: **Non-Communication Cable**



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