Battery Display Indicator (BDI) Operation

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 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 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 cause NO_CHARGE, NO_DISCHARGE, SOFT_EPO, HARD_EPO, NO_START or NON_RESETABLE
- System Fault: Buzzer sounds for 10 seconds and Red LED starts blinking. After 10 seconds, buzzer turns off and LED keeps blinking until the 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 pack

Communication Cable Choices

Figure 3: **Truck Communication Cable**

Figure 4: **Non-Communication Cable**

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