Lithium battery Functionality & Storage

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Bulletin No:	23-085	**Make(s):**	Jayco & Entegra Coach
Model Year (s):	2022-2024	**Model(s):**	Ethos LI, Launch, Expanse LI, Swift LI, Terrain Solstice LI

Incident:	**Properly shutting down the lithium battery system**
Affected Units:	**2022-2024 Jayco Swift LI, Terrain, Solstice & 2022-2024 Entegra Coach Ethos LI, Launch, Expanse LI**

Lithium battery Functionality & Storage

There is not a need at the time of pick up for a delivery driver to operate the Lithium Battery System. The system will properly shut down on its own for long-term storage after normal driving conditions.

At the time of delivery, Dealer should verify functionality of the Lithium Battery System:

1. Turning on the lithium battery: Turn battery on with the self-locking switch and self-resetting switch
   A. Press and release the self-locking switch (Figure 1) (typically installed behind an access panel near the lithium battery).
      i. **NOTE:** Self-locking switch should be 'ON' at all times except for long periods of storage.
   B. Press and hold the self-resetting switch (Figure 2) (typically installed overhead cabinet near Firefly touchscreen) for approximately 5-10 seconds to turn on the battery. There will be a series of clicks count to 5 after the last one.
2. Turn on Inverter by pushing button on Inverter remote switch. Green light will turn on the remote switch when inverter is on. (Figure 3)
   A. **NOTE:** Turn off inverter when not charging by shore power or using 120V outputs outlets and Timberline Heater) for short storage to preserve battery SOC%. Leaving their inverter ON when the system is not in use can result in a 15-20% loss in SOC per day.

Fig. 1

Fig. 2

Fig. 3

3. To turn on 12V power, press and release the momentary switch located near the rear of the sliding door. Note that the red light by switch is illuminated when the 12V power is active. To turn off the 12V power, press and release the switch again and the red light by switch will turn off. (Figure 4)
4. Turn on the Firefly Touchscreen and select the Renogy Battery icon (Figure 5):
    A. Verify voltage
    B. State of Charge
    C. Current
    D. Faults

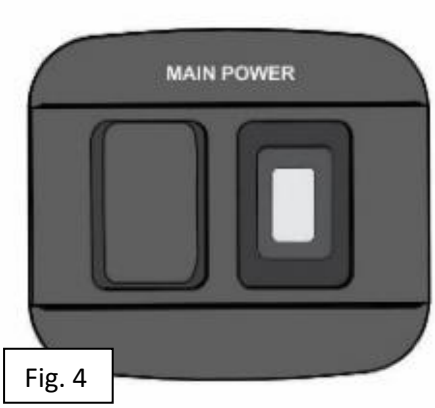


Fig. 4

Fig. 5

With system verification completed, power down the system for storing unit:

1. Verify all charging sources have been disconnected (Figure 6 & 7):
    A. Engine
    B. Shore Power
    C. Rooftop Solar – disconnect near battery in the 'OFF' position
    D. Side Solar
        i. **NOTE:** "ALL CHARGERS" need to be off or disconnected including Engine, Shore Power, and both Rooftop and External Solar.


Fig. 6

Fig. 7

Turn off the 12V disconnect switch and ensure that the "Total Current on the Renogy Monitor = 0A".

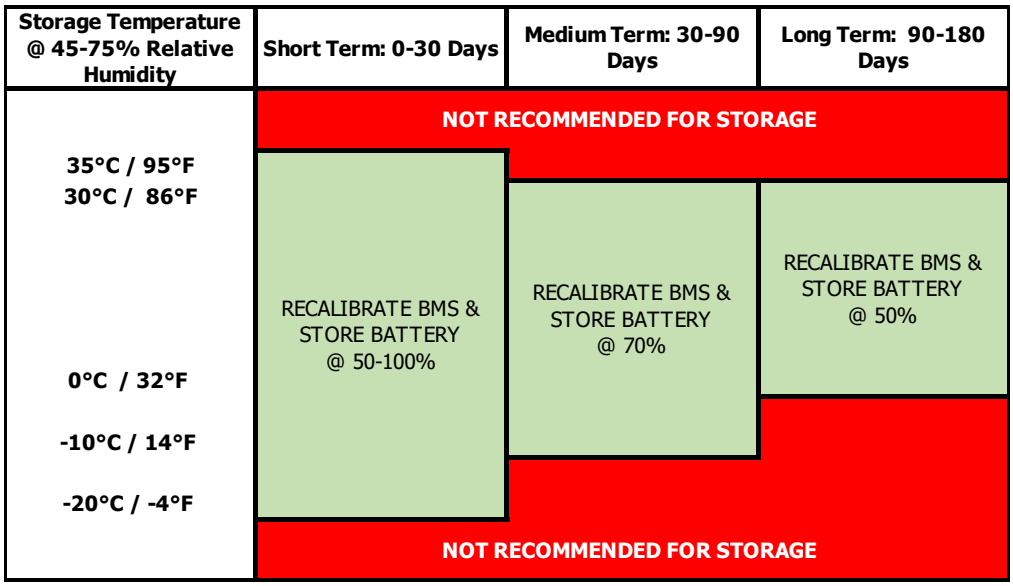
2. Turn off the 12V Master Disconnect (Main Power) located near the rear of the sliding door.
3. Turn off the Inverter by pushing button on Inverter remote switch.
4. Press and release the Self-Locking Battery Switch. The button will be flush in the 'OFF' position.
    A. In order to avoid a cold and dead battery, it is **highly recommended to utilize the Short Term Storage method**. Once a month, operate the battery system including discharging/charging the system and verifying the battery SOC is between 50 to 100%.
    B. There are three different storage terms listed below, and each have their own unique specific criteria. The important part is to determine which storage method, or combination of methods suit the intended storage.
    C. **Short Term Storage** is defined as storage in which the battery is shut down, unused for up to one month, 30 continuous days. It is important to note that the temperature and humidity range for

short term storage is greater than medium or long term storage. This is important to pay close attention to this detail because the aforementioned environmental criteria will define the maximum length of time the battery can be stored.

i. Short Term Storage: up to 1 month, 30 continuous days
ii. Storage temperature and humidity range: -20°C to 35°C / -4°F to 95°F, 45% to 75% Relative Humidity
iii. Charge the battery to 100% SOC before putting it in storage mode

D. To prepare the battery for short term storage, you can charge the battery up to up to 100% SOC, and not lower than 50% before putting it in storage mode. If the storage temperature is less than 10°C or 51°F, then it important to charge the battery to, or as close to 100% SOC.

- **For complete details surrounding Storage and Cold Weather Recovery, review the B-Van Lithium Operation Manual located in the goody bag.**



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