

# C8 Energy Troubleshooting Guide – International LT

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Instead of the standard 8 lead-acid or AGM batteries, this truck now runs on a cutting-edge combination of SuperCapacitor and LiFePO<sub>4</sub> lithium battery technology (SkelStart Module #6730130 and C8 Battery #C8628A). This guide provides a structured troubleshooting approach to diagnose and resolve issues in the field.

## 1. Initial Checks – Power Issues

Start by identifying where the power interruption or issue is:

### A. LiFePO<sub>4</sub> Battery (C8628A)

#### 1. Accessory Mode Power Check

- Turn key to accessory: If cabin lights/screens work → battery delivers power.
- No power = BMS protection active or wiring/fuse issue.

#### 2. Remote ON/OFF Switch

- Located near OBDII plug under the steering wheel.
- Check if button LED is ON (system active). If OFF:
  - Press once to turn battery ON.
  - If no response, check extension cable connection at the battery.

#### 3. C8 Energy Battery Monitor App (iOS/Android)

- If app shows 13–14.2V and >10% SOC = battery active.
- If 0% SOC, battery may have entered auto-protection:
  - Press button to reactivate.
  - If still unresponsive: apply 30–40A briefly to wake BMS and crank the truck.

### B. SuperCapacitor Start Module (6730130)

- Button Test – located on top of the module.
- Press **briefly**: Solid green for 2 sec = Fully charged.
- One blink = Partially charged.
- No light: Hold button for 8 seconds to reboot – will turn green and start flashing if it was depleted.
- Voltage Check
- Measure between **Starter+** and Ground:
  - 10–14V = Ready to crank
  - 0–8V = Check LiFePO<sub>4</sub> connection or module is off

- Emergency Bypass
- Jump-start using Ground and **Starter+** terminal OR directly on the starter solenoid.

## 2. Fuses & Connections

- Inspect all fuses:
- Check Blue Sea busbars and fuse block terminals.
- Look for:
  - Loose, oxidized, or damaged cables
  - Blown fuse indicators

## 3. Common Scenarios

<u>Symptom</u>	<u>Likely Cause</u>	<u>Recommended Action</u>
No cab power	LiFePO <sub>4</sub> in protection or wiring issue	Check SOC via app, press button to reactivate.
Cab power OK, truck won't crank	SuperCap not charged or faulty	Run button test or voltage check.
Battery shows 0%	Battery auto-disconnected from over-discharge	Apply brief 30–40A recovery charge.
SkelStart button won't light up	SuperCap module off	Hold button for 8 seconds to reboot.
No voltage at Starter+	Loose cable or blown fuse	Inspect fuse and terminal connection.
Auxiliary loads not working	Disconnected or fused line	Check Webasto/AC wiring to busbars.

## 4. Support

For further assistance, please contact C8 Energy:

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