

SUPER LAWN TRUCK SERVICE BULLETIN - Battery Drain & “Parasitic Draw” Prevention

A “parasitic draw” is electrical power being consumed from the truck batteries while the truck engine is shut off. If electrical accessories are left on overnight, over a weekend, or for several days, the batteries can discharge and leave the truck unable to start.

Super Lawn Trucks are equipped with a number of electrical systems designed to improve productivity, add convenience, and enhance safety. To receive the best performance from your vehicle, crews should carefully monitor these systems and turn them off when the truck is not in active operation.

Power drains can often be corrected with proper use. But please be aware that power drains could be related to issues not covered in this service bulletin.

Our primary recommendation is simple:

Shut down all unnecessary electrical systems whenever the truck is parked or idle.

ELECTRICAL SYSTEMS TO MONITOR

1) Dome Light Master Switch

Located inside the cab to the left of the steering wheel.

- Amber indicator light shows the circuit is ON.
- This switch controls interior body lighting circuits and fuel station power.
- Turn this switch OFF daily for:
 - Fuel system security
 - Prevention of battery draw from interior lights

If left on, batteries may discharge if lights or accessories remain active inside the truck body.

2) Interior Truck Body Lights

Switch located inside the rear of the enclosed body.

- Interior body lights only function when the master dome light switch is ON.
- The more interior lights installed, the greater the power draw.
- Always turn body lights OFF when the truck is idle.

Leaving these lights on overnight can quickly discharge the batteries.

3) Isuzu Headlights

Isuzu truck headlights require MANUAL shut off.

- Headlight control is located on the left side of the steering column.
- If headlights are left on, batteries can discharge very quickly.
- Verify headlights are OFF before exiting or parking the truck.

4) Air Compressor Accessory

This is one of the highest electrical draw accessories on the truck.

- Compressor is controlled by a pressure switch.
- If left ON and the air system has even a small leak, the compressor will cycle automatically to refill the tank.
- Repeated cycling can discharge batteries rapidly while the truck is parked.

Recommendations:

- Repair all air leaks promptly.
- Turn the compressor pressure switch OFF whenever not in use.
- Do not leave the compressor system energized overnight or during extended idle periods.

This accessory can drain batteries faster than almost any other electrical system on the truck.

5) Power Inverter Accessory

Used to power:

- Refrigerators
- Microwave ovens
- Battery chargers
- Electric tool charging systems

Important Information:

- Inverters create parasitic draw whenever left ON.
- The Toggle switch to turn OFF is located on the inverter itself.
- Turn the inverter OFF at the end of each workday.

If power tool batteries are left charging overnight without supplemental charging support, dead truck batteries should be expected.

Remember: The same batteries starting your truck are powering the inverter.

The standard inverter system is intended for intermittent use during truck operation while the engine is recharging the batteries.

Recommendations:

- Turn the inverter OFF nightly.
- If charging equipment overnight:
 - Connect a battery maintainer/charger to the truck batteries, OR
 - Consider the Solar Lawn Truck charging system.

6) Safety Strobe Lights Accessory

Controlled by a manual toggle switch located left of the steering column.

- LED safety strobes have relatively low power draw.
- However, extended operation with the engine OFF will eventually discharge the batteries.
- Lights may operate several hours before battery voltage becomes critically low.

Recommendations:

- Turn safety strobes OFF whenever the truck is parked overnight.
- After extended strobe use, start and operate the truck to recharge batteries.

7) Fuel Station Accessory

Fuel station master power is controlled by the push-button dome light master switch.

This switch must be OFF when the truck is unattended for:

- Fuel security
- Battery protection

Each fuel tank also includes an individual pump toggle switch.

Important:

- Never leave fuel pumps running unattended.
- Pumps can overheat or damage components if left operating continuously.
- Running pumps unnecessarily also increases battery draw.

Recommendations:

- Turn pump switches OFF immediately after fueling.
- Turn the dome light/fuel master switch OFF daily.

Final Test and Inspection for Parasitic Draw:

- The fuel station power is managed with a master switch inside the cab of the truck. That master switch energizes a relay mounted on the fuel tank assembly. In the event the relay (mounted on the back side of the fuel tanks between the frame of the truck and the fuel tanks) is wired incorrectly, a power drain could occur.
- Please review the fuel tank system wiring diagram and make sure the master switch power wire (white 16 gauge) and main power wire (red 10 gauge) from the battery are not wired backwards.
- These two wires are run inside of black plastic wire loom. It is easy to identify these two wires because they pass through the frame of the truck just behind the fuel tanks. If these wires are hooked up backwards, the relay could be energized full time and create a parasitic draw.
- You will have to remove electrical tape or pull back the black wire loom to inspect the connections between the fueling station and the frame of the truck. The wire loom has a slit in it and so opening it up is very easy. You should pull it back far enough to verify the colors of the wires at the point of connection.
- Call Super Lawn Trucks for questions about this issue.

FINAL RECOMMENDATIONS

To reduce the risk of dead truck batteries:

- Turn off all accessories daily
- Repair air leaks immediately
- Monitor crews for proper shutdown procedures
- Recharge batteries after extended accessory use
- Use supplemental charging systems when operating overnight loads

Proper shutdown procedures help maximize:

- Battery life
- Productivity
- Reliability
- Crew efficiency

If you experience an ongoing problem with dead batteries, please call Super Lawn Trucks to request assistance. Visit your nearest Isuzu Service Center when you have truck repair needs..

Thank you for choosing Super Lawn Trucks.

For additional support and repair information:

 **Super Lawn Trucks Service Support:**
866-923-0027

 **Repair Guides & Technical Support:** <https://superlawntrucks.com/repair-guide/>
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