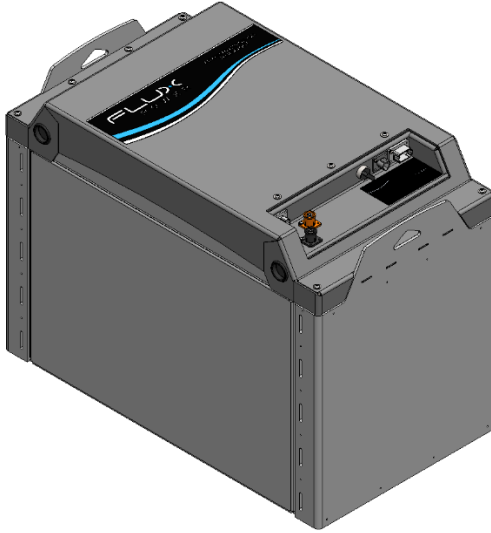


Flux Power GSE3 Installation Guide

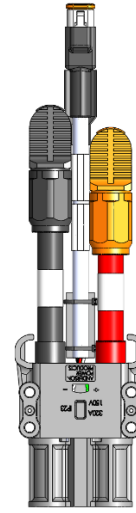


Installation

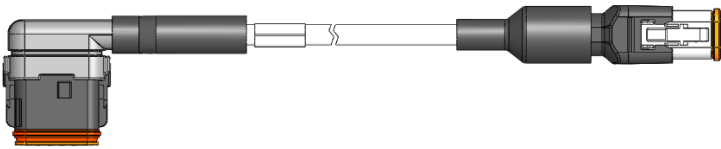
1 Deliverables



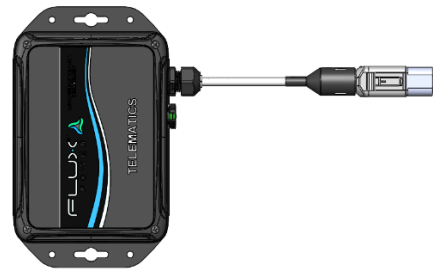
Battery
QTY: 1



Power Cables
Qty: 1



External Harness (if applicable, varying connector and length)
QTY: 1



Telematics Box (if applicable)
QTY: 1



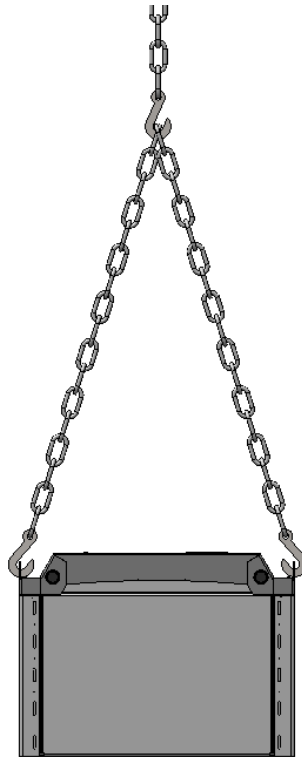
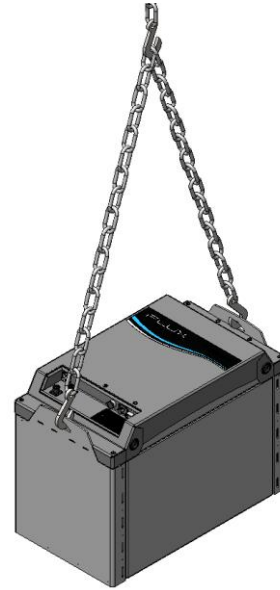
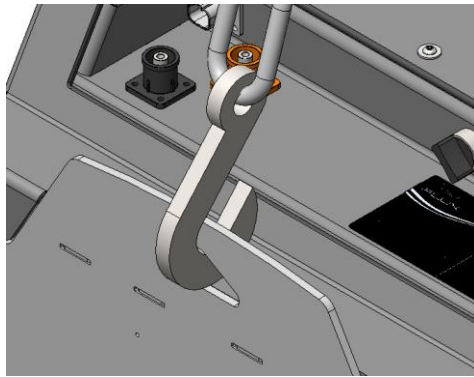
External CAN Harness (if applicable)
QTY: 1

2 Battery Installation

2.1 Installing Battery into Truck

2.1.1 Lifting Points

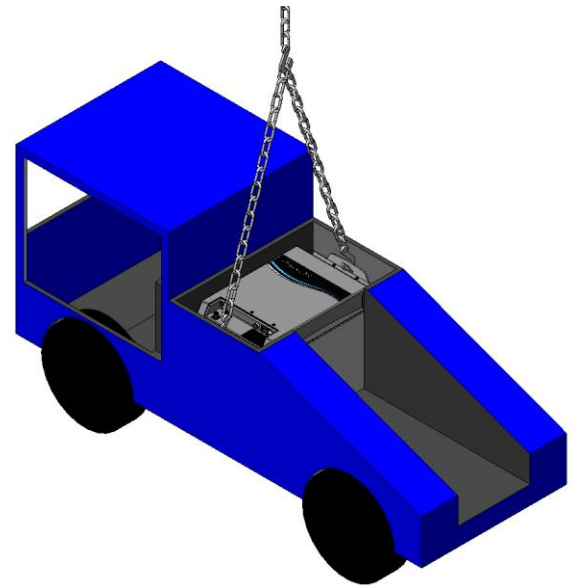
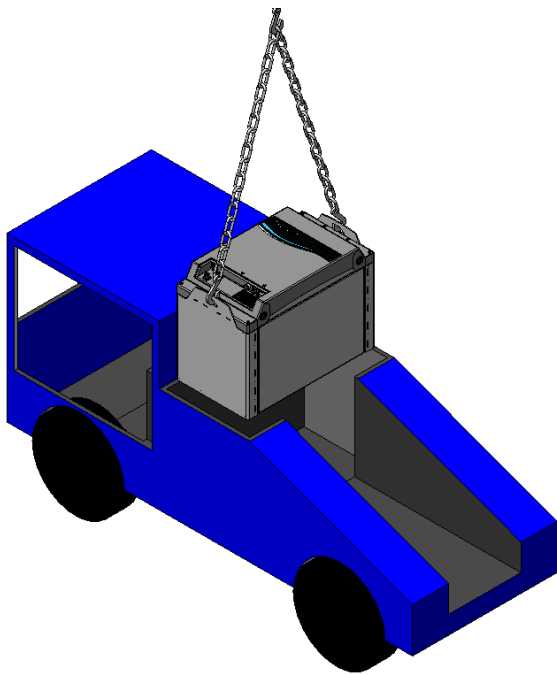
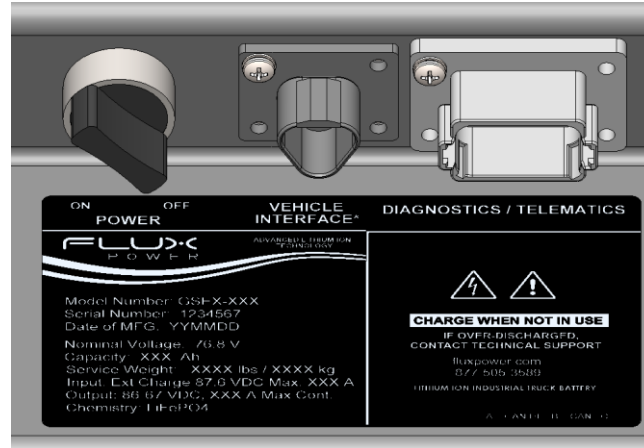
The battery has two lifting points on the front face and back to be used to lift and install the battery into the truck. A set of hooks with proper chains or lifting straps is recommended.



Installation

2.1.2 Tugger

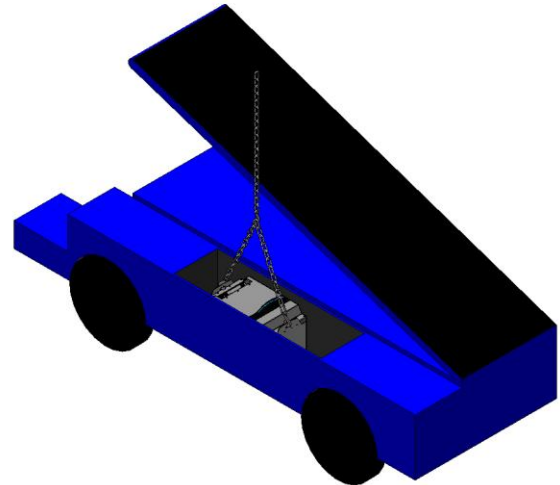
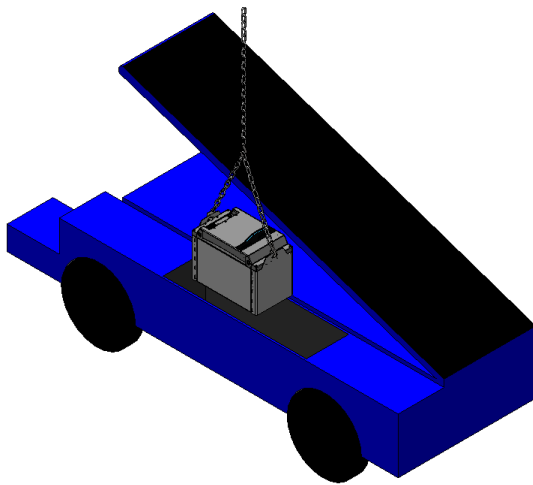
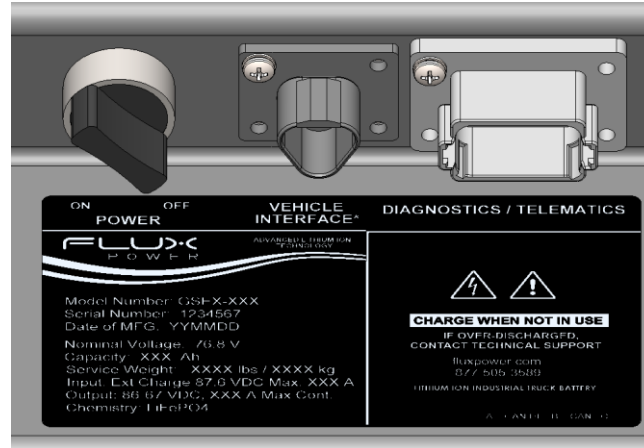
Lift and align the battery into the truck's battery compartment. Some trucks may have a top lid to cover the battery compartment. The power ON switch should be closest to the side of the driver. Tighten the truck gate and bumper if the battery compartment has adjustable stoppers present.



Installation

2.1.3 Belt Loader

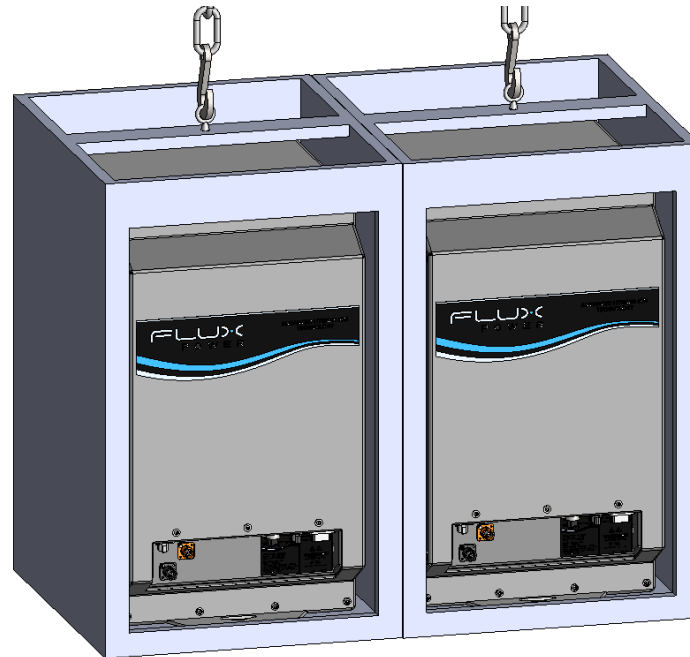
Lift and align the battery into the truck's battery compartment. Some trucks may have a top lid to cover the battery compartment. The power ON switch should be closest to the side of the driver. Tighten the truck gate and bumper if the battery compartment has adjustable stoppers present.



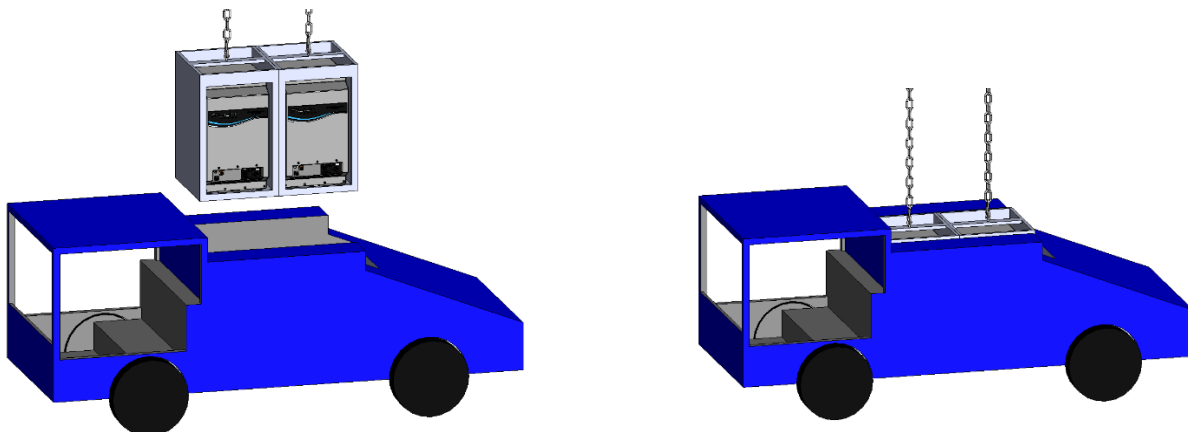
Installation

2.1.4 Push-Back

A push-back truck will require two batteries in parallel. The batteries will also be dropped into the truck on their side. The batteries do not have lifting points to properly lift them on their side for this orientation. Instead, the truck's battery compartment may come with a sleeve that has lifting points of its own to remove or insert each battery.



Lift and align each battery into the truck's battery compartment. Some trucks may have a top lid to cover the battery compartment. The power ON switch should be oriented downwards and closest to the side of the driver. Tighten the truck gate and bumper if the battery compartment has adjustable stoppers present.

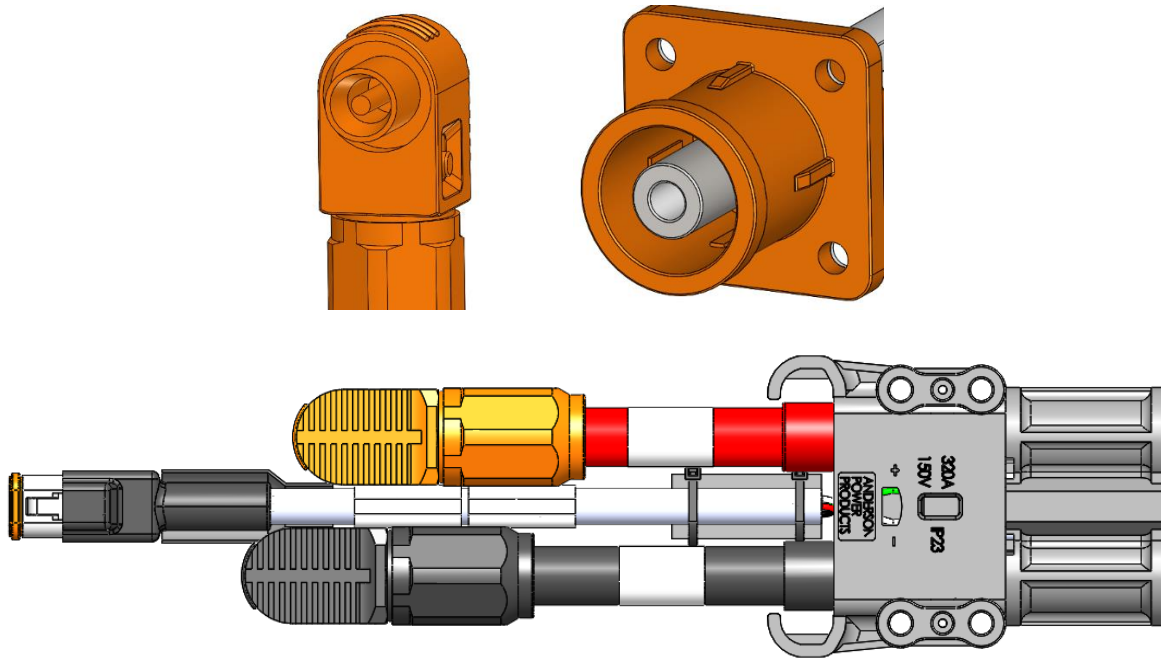


Installation

2.2 Installing Power Cables

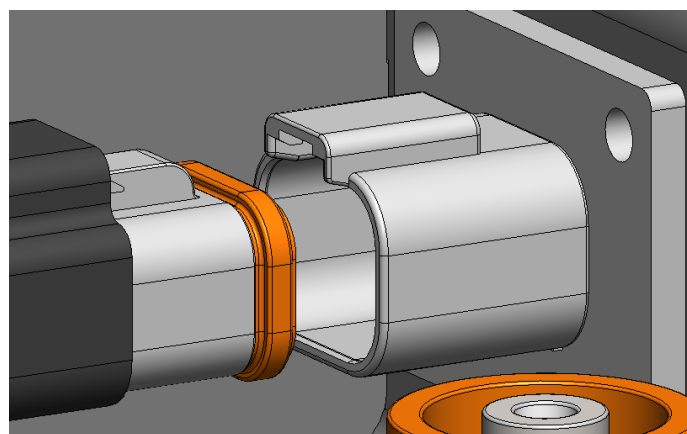
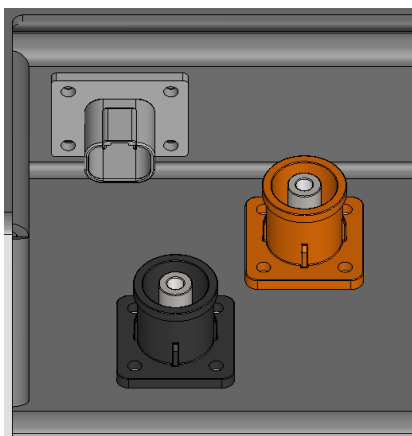
2.2.1 Power Connections

Power connections can only be inserted into the same color and key receptacles. An orange insert will slide into an orange receptacle, and a black insert into a black receptacle. Align the keys of the insert to that of the receptacle to properly insert the connection. A connector can also be removed by pressing the button on the side of the plug and pulling the connector straight out.



2.2.2 Charge Harness

Power cables will come with a 4-wire harness and a 4-pin connector at the end. This is the auxiliary charge harness. Insert this 4-pin connector to the 4-pin receptacle alongside the receptacles for the power cables.



3 External Accessories Installation

3.1 Telematics

3.1.1 Mounting Points

Use the 4 holes on the side to mount the telematics box onto the truck by tapping into the truck frame; or use the 2 slots on the side to zip-tie the telematics box onto the truck frame.



3.1.2 Mounting Location

Some battery compartments allow for the telematics box to be mounted on top of the battery without the battery compartment lid crushing the telematics box. When the battery compartment lid can be lowered without damaging the telematics box, the telematics box can be placed onto the top face of the battery. The slots on the telematics box can be secured to the top cover of the battery with one of the torque screws already present on the battery.



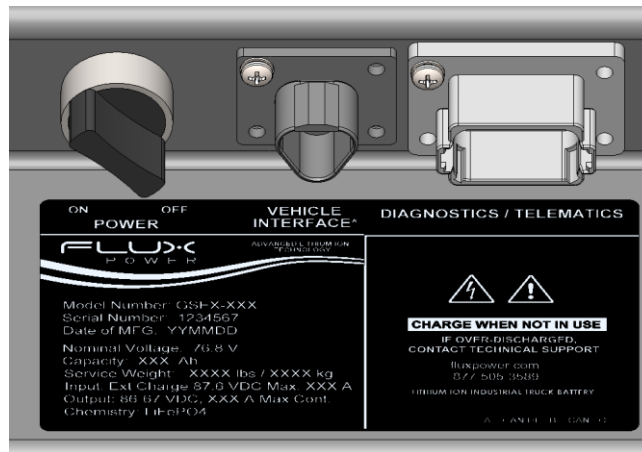
In instances where the telematics box cannot be mounted to the top face of the battery without being crushed by the battery compartment lid, the box can be zip tied to existing cabling inside the battery compartment.

Installation

3.2 12-pin External Harness

3.2.1 Mounting Points and Location

The battery will have a 12-pin receptacle to the right of the power switch. There may be a rubber dust cap covering this receptacle. If an external harness is shipped with the order, then it will be plugged into this receptacle. If one is not present, then the rubber dust cap should remain on.



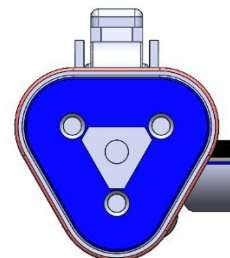
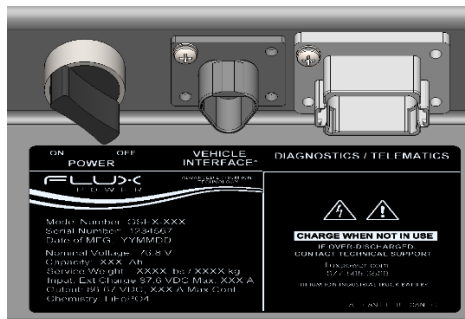
External harnesses should remain inside the battery compartment of the truck. Use zip ties to mount the external harness's body along the battery compartment interior. Different external harnesses have different connectors depending on the truck and the customer's order.

4 Operation

4.1 Discharging the Battery

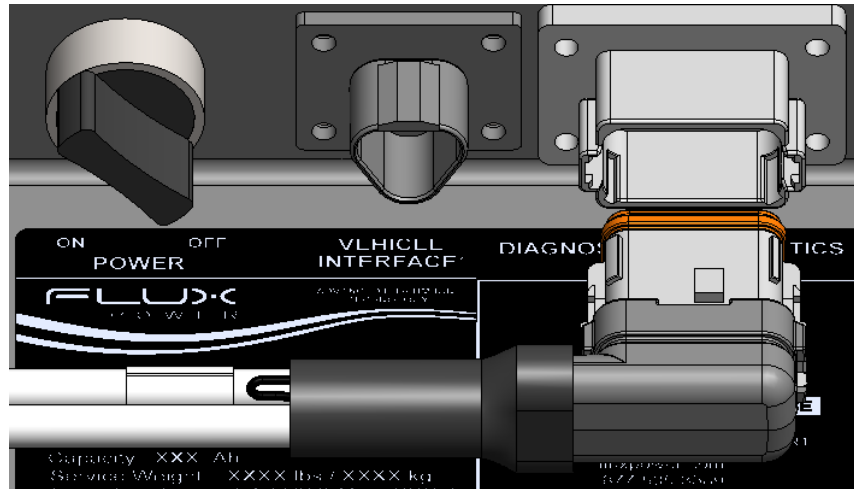
The battery will need to have an external harness and all connectors properly connected to any external accessories present to discharge. External harness connections will vary between different harnesses and truck configurations. An external harness will connect to the battery's 12-pin communications port. The battery's power cables will have a complimentary connector to the truck. The power cables are always connected to the truck. The truck may also have a 3-pin connection to the battery.

The battery is shipped with a 3-pin harness secured to the 3-pin receptacle next to the power switch. If the truck has its own 3-pin harness to be connected to the battery for CAN, then disconnect the existing harness on the battery and attach this harness instead.

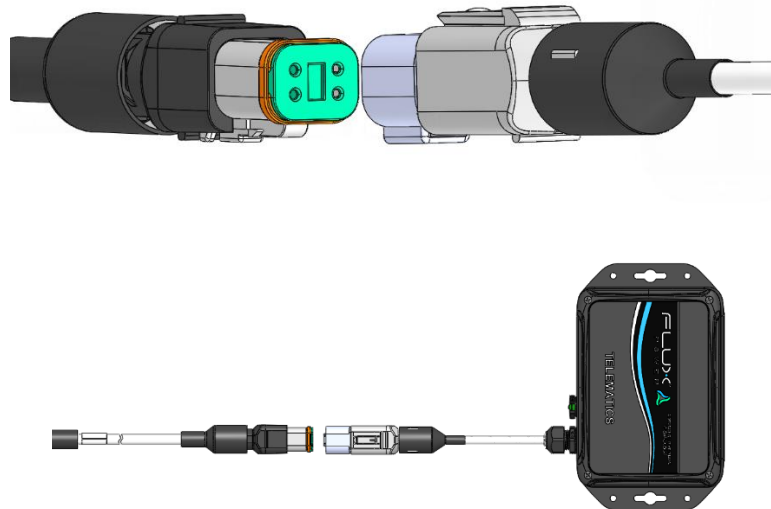


Installation

An external harness connection to the 12-pin communications port's connection:

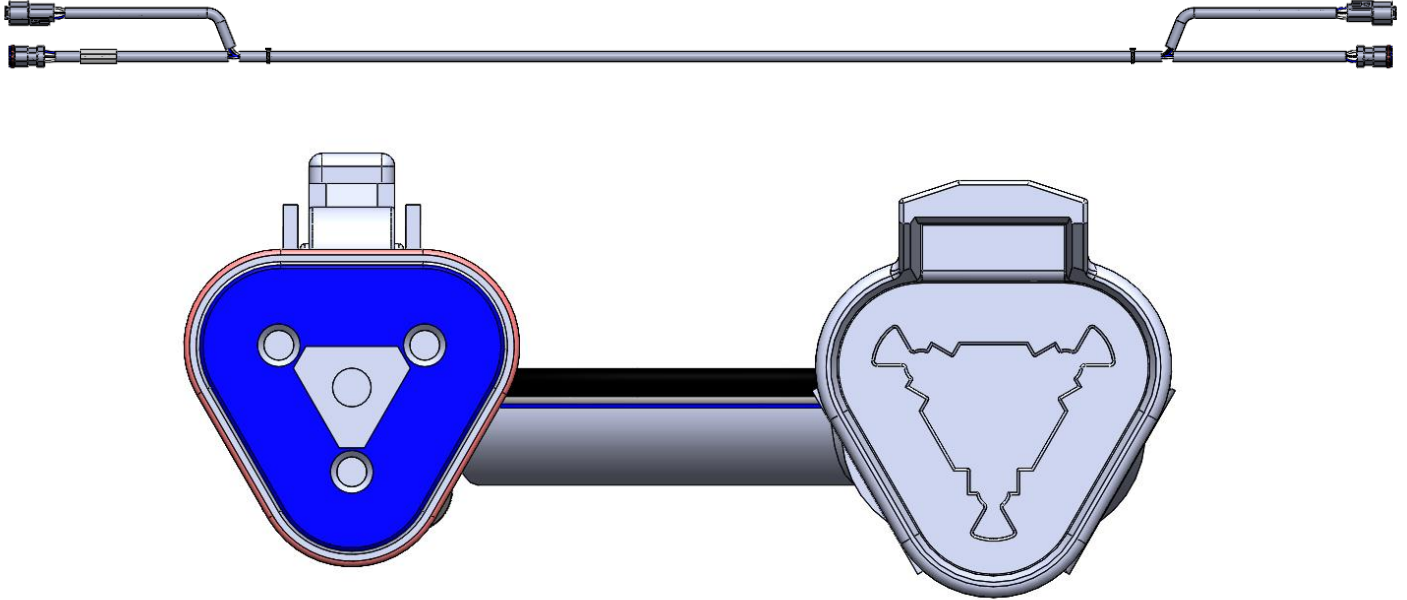


Telematics harness connection is a 4-pin connection:

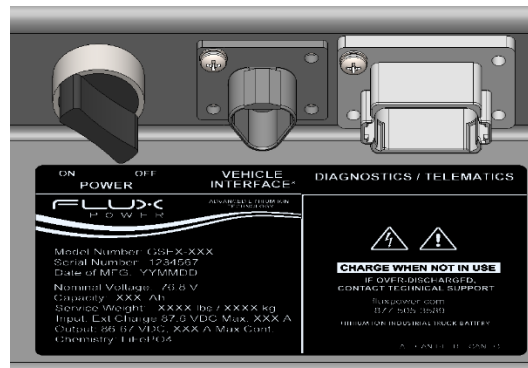


Installation

In a Trepel configuration both batteries need to communicate with one another. Harness 500670 will be shipped with these configurations. This harness will have four connections. The two plugs on this harness will connect to the battery's 3-pin receptacle. The other 2 receptacle ends will be connected to the truck. If the truck only has one connection then leave the second receptacle unpopulated.



The battery is turned ON by moving the power switch onto the ON position as shown on the label. The battery is turned OFF by switching the power switch onto the OFF position.



4.2 Charging the Battery

The battery is not charged directly, but instead by a charge port on the truck. The battery will cut power to the truck when it detects that it is plugged in to charge. If the charger's connector is not fully inserted into the charge port, then the battery will not charge.

5 Flux Power Contact Details

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Email: Support@fluxpower.com

Web: www.fluxpower.com

WARNING – Risk of Fire – No User Serviceable Part

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