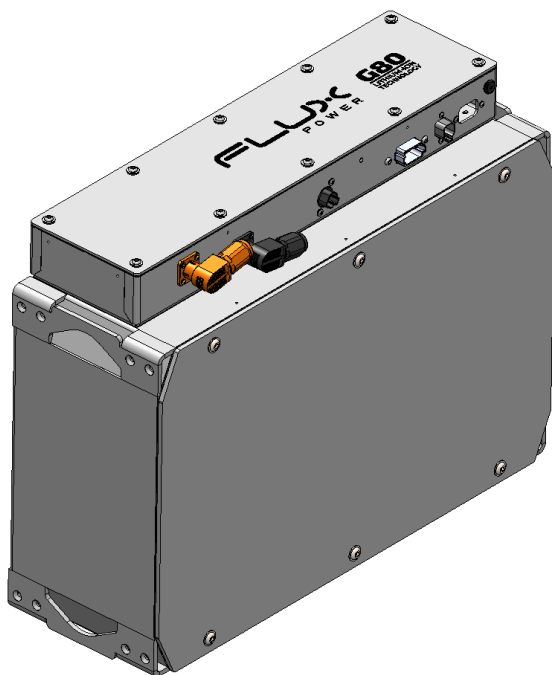


## Flux Power G80-G2 Installation Guide

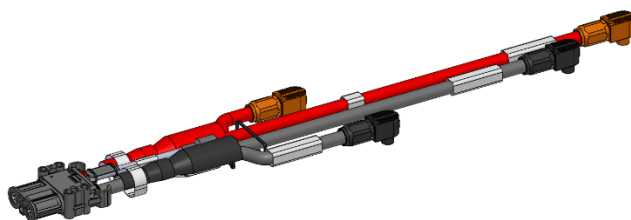


# Installation

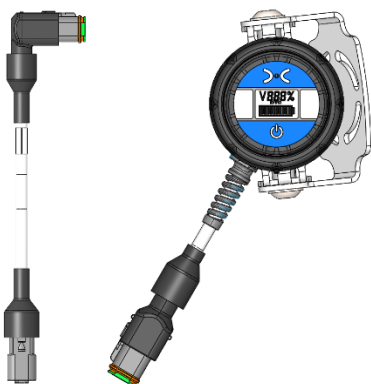
## 1 Deliverables



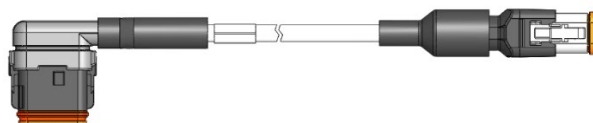
Battery (varying configurations)  
QTY: 1



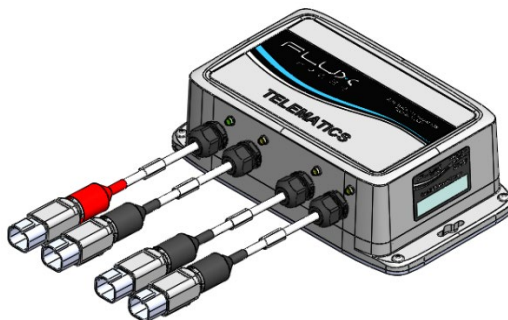
Power Cables (varying amount and configurations)  
QTY: 1



External BDI with Harness (varying amount)  
QTY: 1



External Harness (varying amount)  
QTY: 1



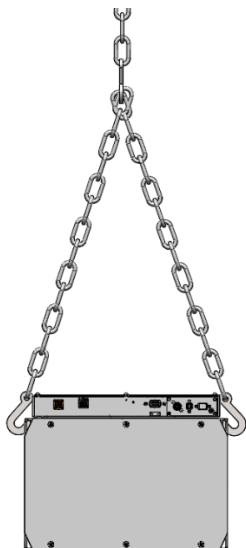
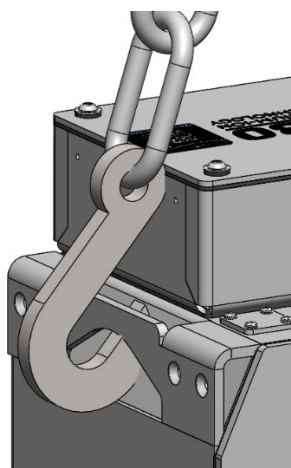
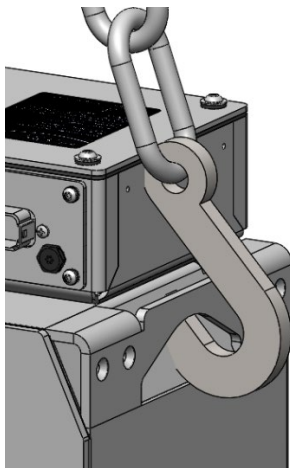
Telematics Box (varying configurations)  
QTY: 1

## 2 Battery Installation into Truck

### 2.1 Lifting Points

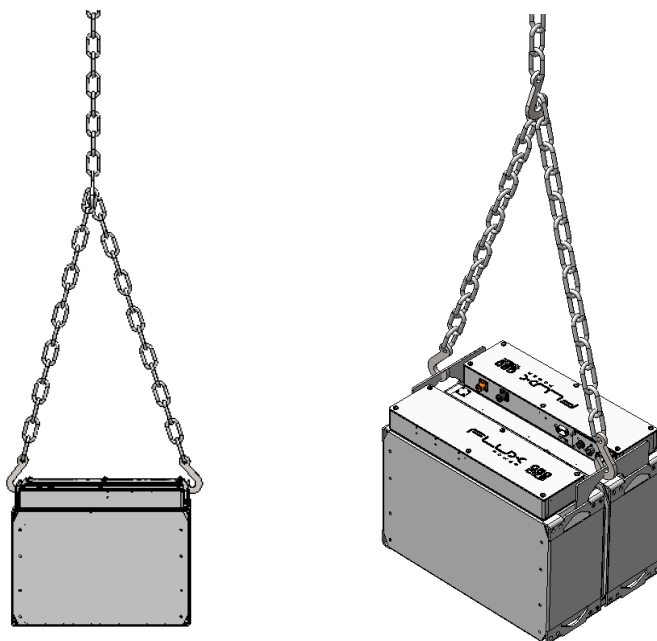
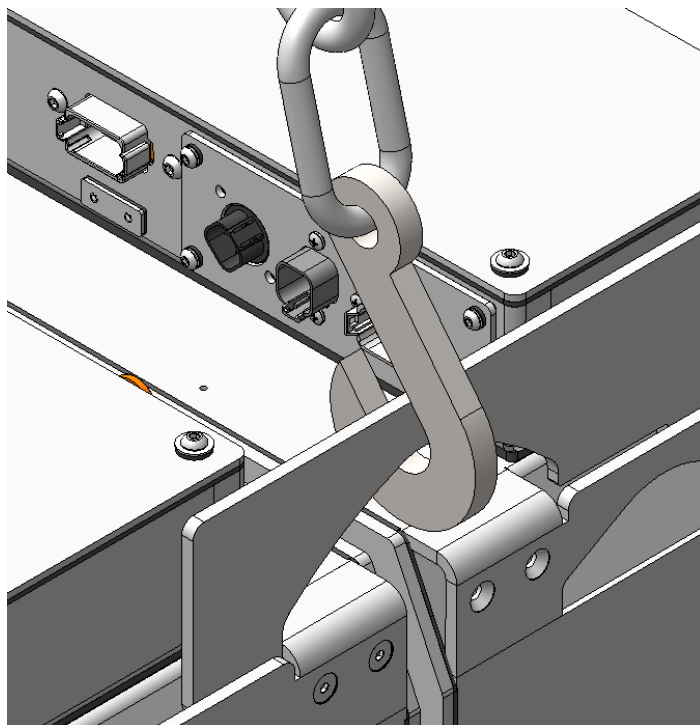
#### 2.1.1 1P Configuration

The battery has two lifting rings to be used as lifting points. A set of hooks with proper chains or lifting straps is recommended.



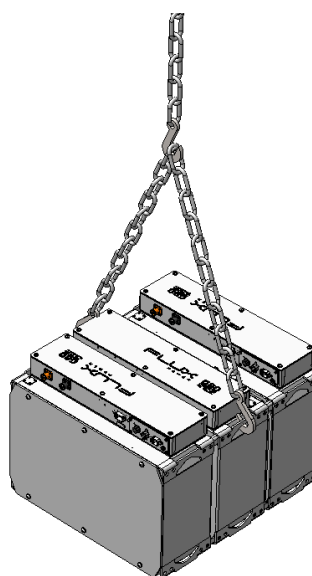
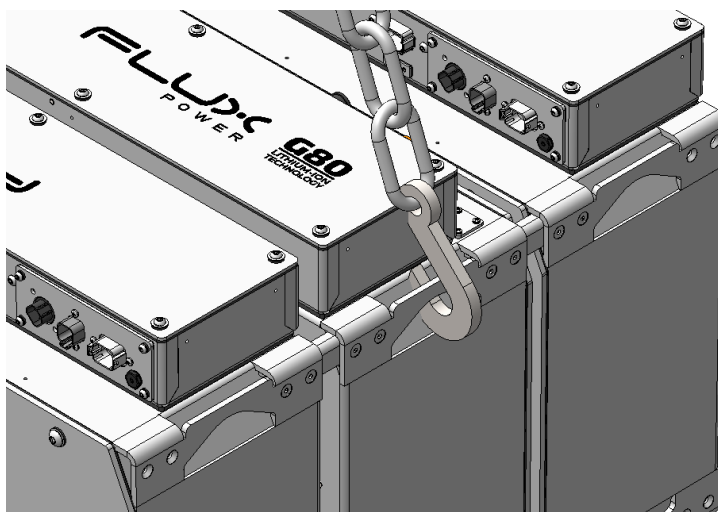
## 2.1.2 2P Configuration

This battery configuration has two brackets with slots that are designed to be used as lifting points. A set of hooks with proper chains or lifting straps is recommended.



## 2.1.3 3P Configuration

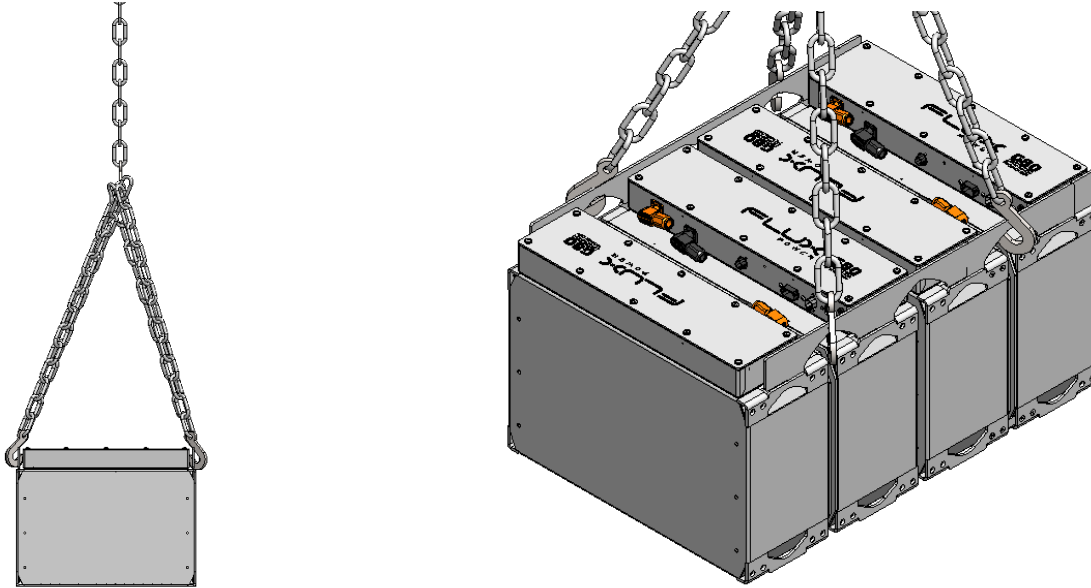
This battery configuration does not have a special bracket for lifting. The middle battery's lifting points can be used to lift the battery configuration. A set of hooks with proper chains or lifting straps is recommended.



# Installation

## 2.1.4 4P Configuration

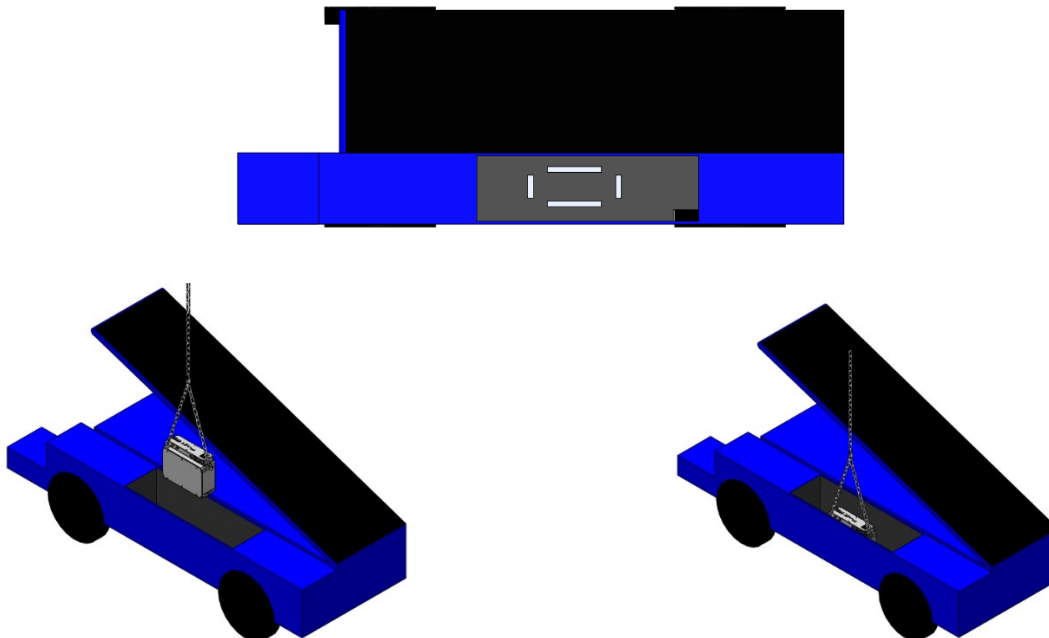
This battery configuration has two brackets with slots that are designed to be used as lifting points. The best method is to use 4 lifting points that converge at one point, then lift at that point. A set of hooks with proper chains or lifting straps is recommended.



## 2.2 Drop-in

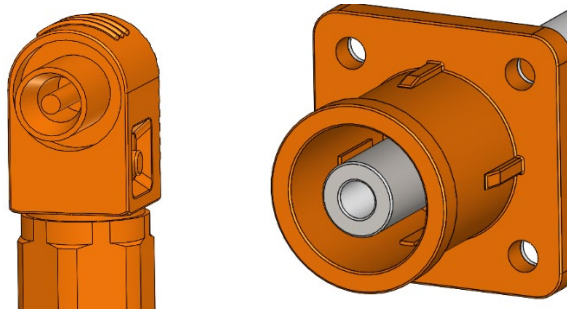
### 2.2.1 All Configurations

Lift and align the battery into the truck's battery compartment by positioning the battery in the center of the battery compartment of the belt loader. The battery compartment may have slots inside the battery compartment to contain the battery configuration. Each truck may have a different battery compartment configuration.



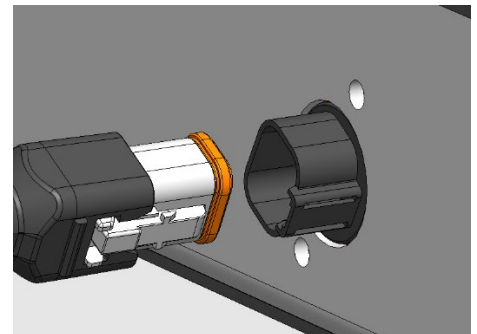
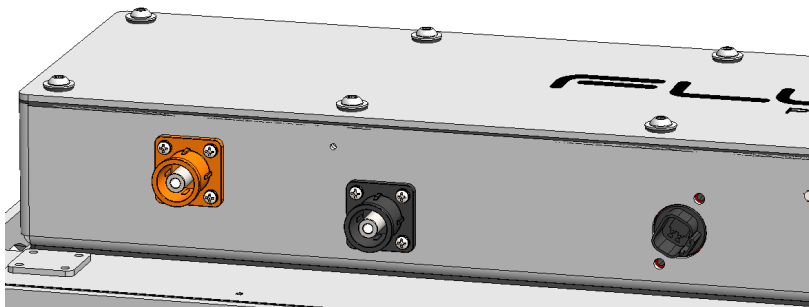
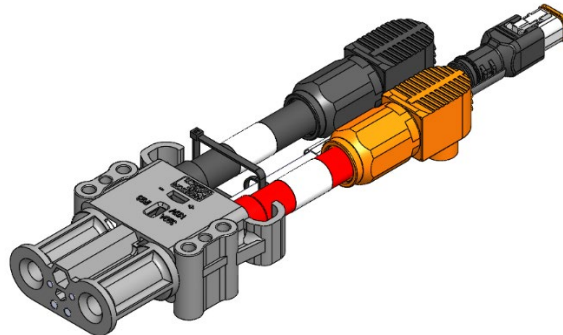
## 2.3 Installing Power Cables

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.



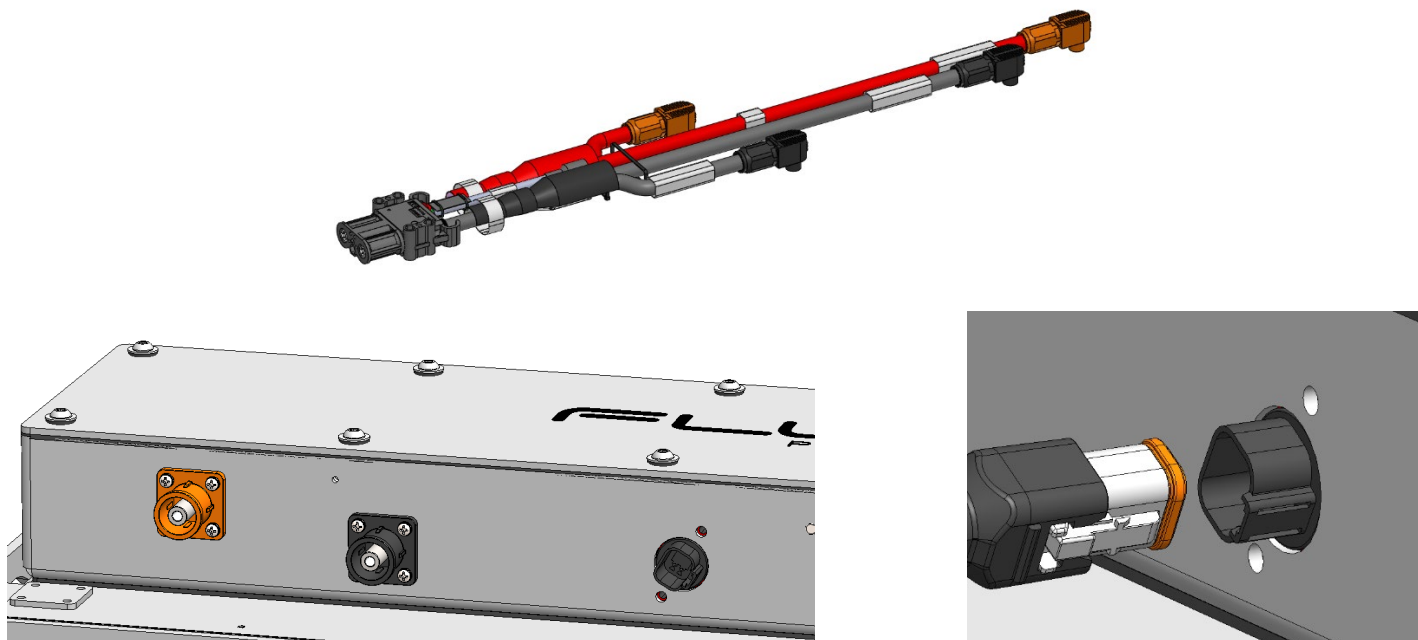
### 2.3.1 1P Configuration

This battery configuration uses only one set of power cables. The power cables also have a black 4-pin auxiliary harness. Connect this harness to the battery's black 4-pin receptacle.



## 2.3.2 2P Configuration

This battery configuration uses only one set of power cables. The batteries are in parallel, therefore each power connection from each individual battery will converge to one connection on the power cable connected. The power cables also have a black 4-pin auxiliary harness. Connect this harness to battery A's black 4-pin receptacle. The I.D. plate of each battery will display an A,B,C,D to identify which battery it is.



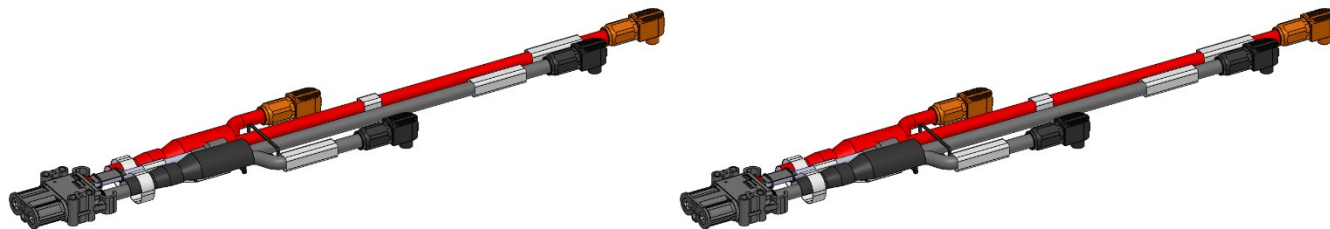
The power cables may have varying length and connector.

## 2.3.3 3P Configuration

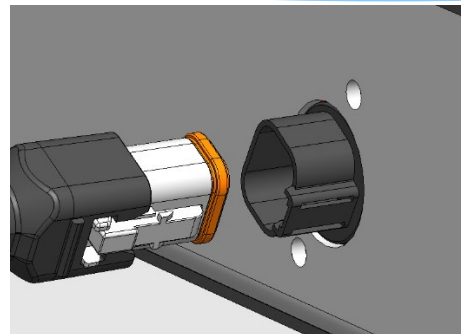
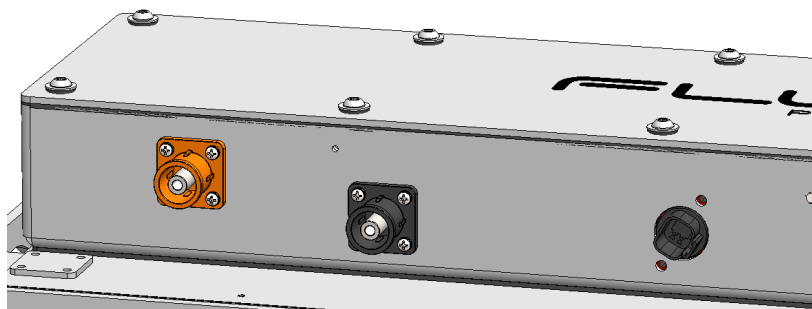
Flux Power does not supply the power cables for this configuration.

## 2.3.4 4P Configuration

This battery configuration uses two sets of power cables. All four batteries are in parallel, therefore one set of power cables is for two batteries. Each set of two batteries will have their power connections converge to one connection on the power cable connected. There will also be only one black 4-pin auxiliary harness. Connect this harness to battery A's black 4-pin receptacle. The I.D. plate of each battery will display an A,B,C,D to identify which battery it is.



# Installation



The power cables may have varying length and connector.

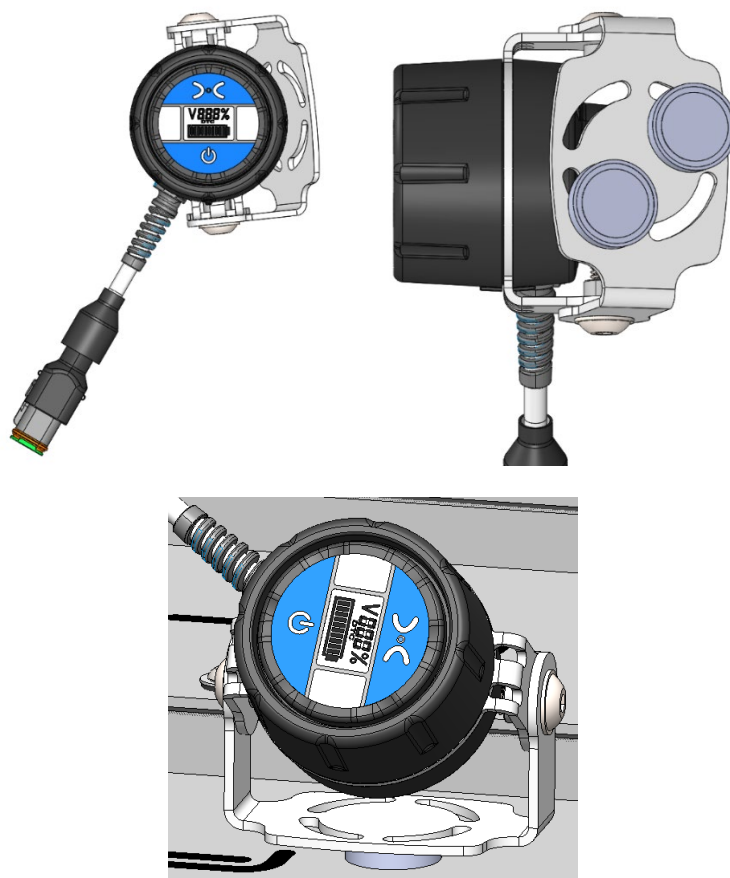
## 3 External Accessories Installation

### 3.1 External BDI

Each battery will need one external BDI connection.

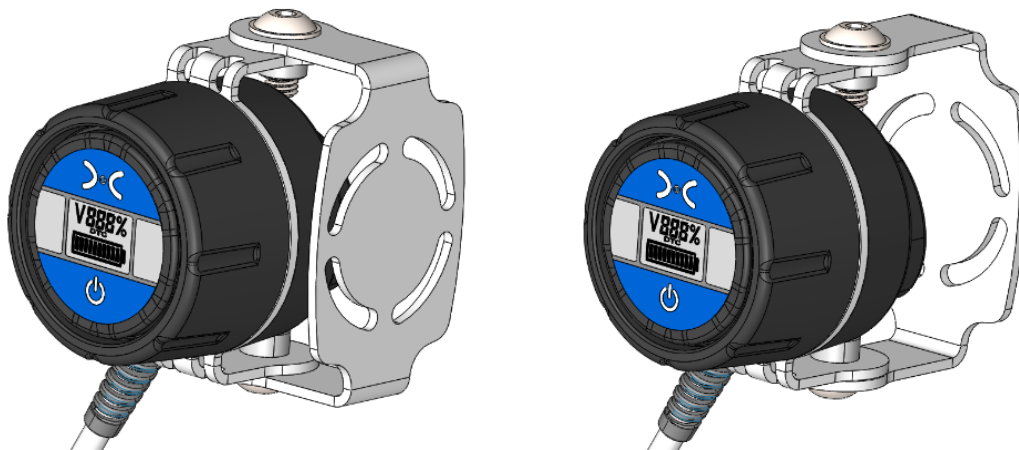
#### 3.1.1 Mounting Points

Use the magnets at the bottom of the mounting plate to mount to external BDI to the top of the batteries, the side of the batteries, or the interior truck frame. Some mounting plates may have one or two magnets.

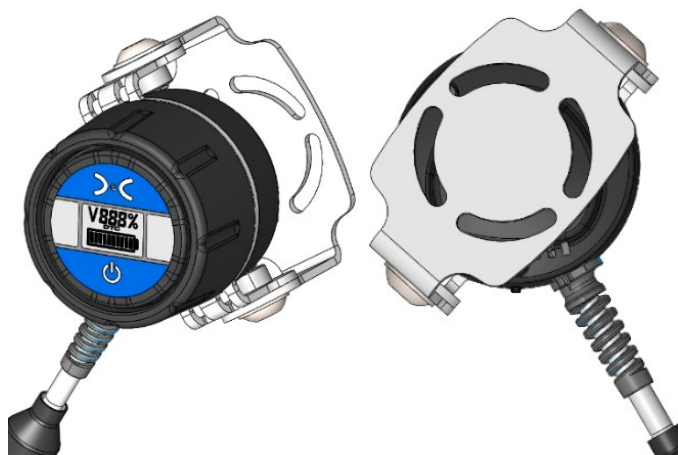
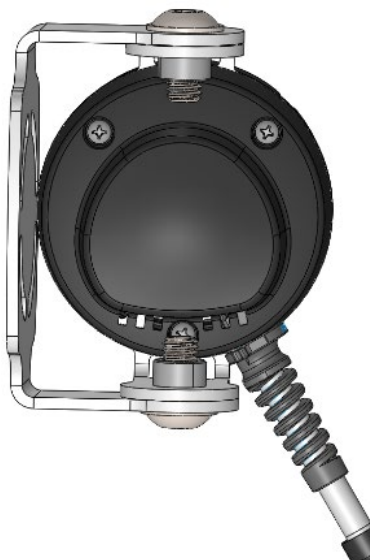


The two button head screws on the sides of the mounting plate can be loosened to change the angle of the external BDI. Tighten the screws once the preferred orientation is reached.

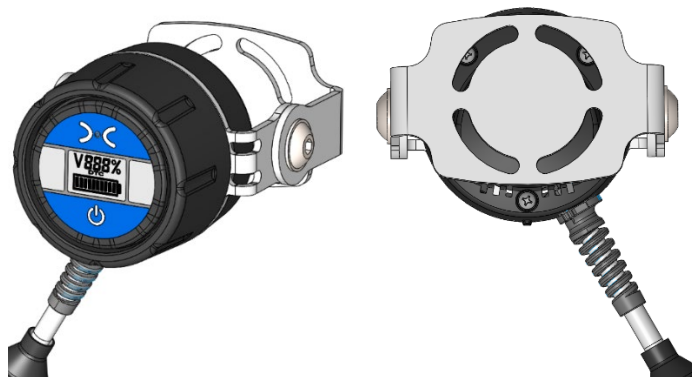
# Installation



The three screws on the back of the BDI's housing can be removed to change the location of the secondary mounting plate of the external BDI.



# Installation



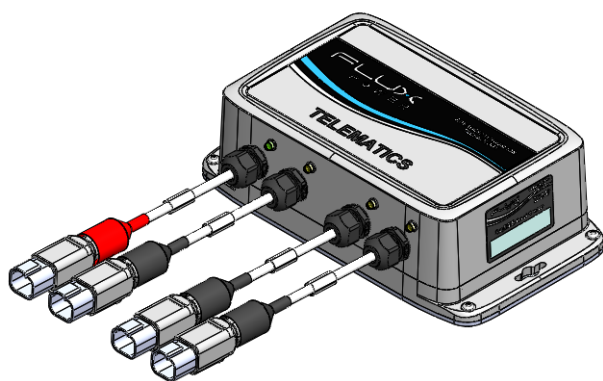
## 3.2 Telematics

### 3.2.1 Mounting Points

The telematics box is attached to a mounting plate with two large magnets.

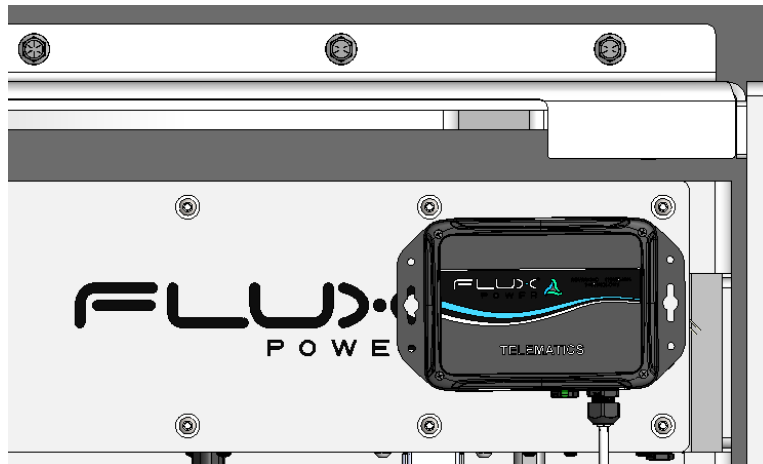


Some telematic boxes have multiple connections for multiple batteries to be connected to the same box.



### 3.2.2 Mounting Location

All four telematic boxes can be mounted onto the top faces of each battery.



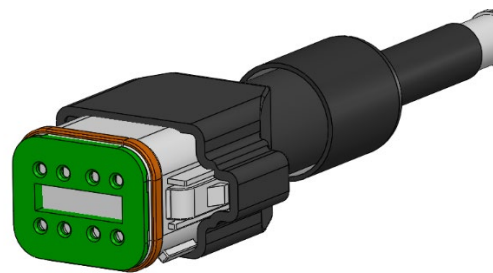
## 4 Operation

### 4.1 Discharging and Charging the Batteries

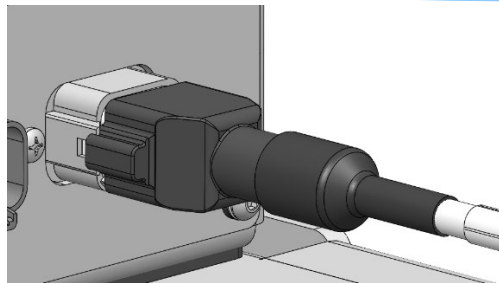
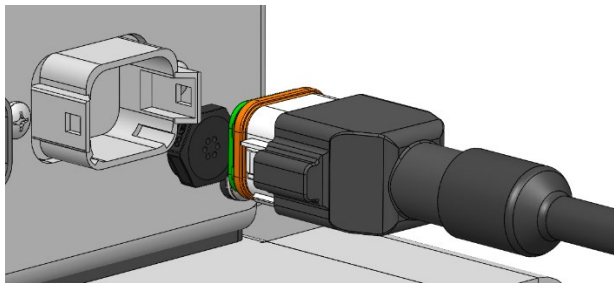
The batteries will need to have all external harness, and all connectors properly connected to any external accessories present to discharge. External harness connections will vary between different harnesses and truck configurations. An external harness will either connect to the battery's 12-pin communications port, 8-pin receptacle for the external BDI, 6-pin receptacle for the external CAN harness, 4-pin receptacle for the auxiliary harness. The battery's power cables will have a complimentary connector to the truck. The power cables are always connected to the truck.

#### 4.1.1 1P Configuration

External BDI connection is a 8-pin connection:

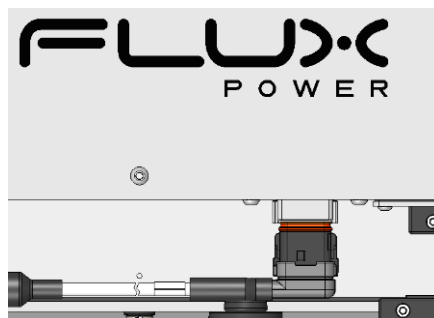
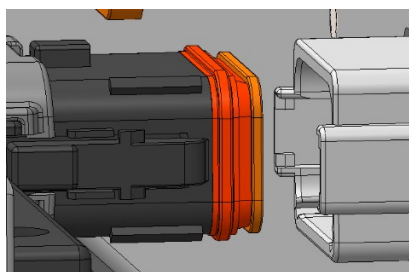


# Installation

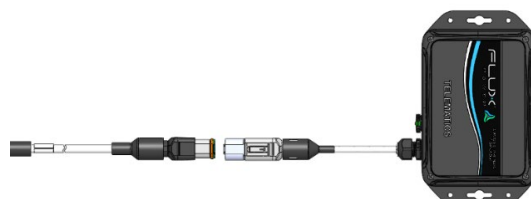
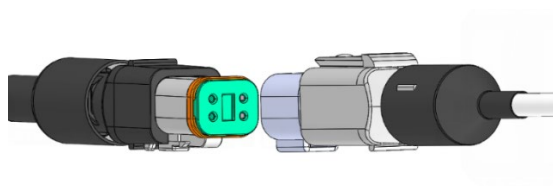


The battery is turned ON by pressing and holding the power button symbol on the BDI for at least 3 seconds. Each battery is turned OFF by pressing and holding the power button symbol for at least 3 seconds.

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



Telematics harness connection is a 4-pin connection:

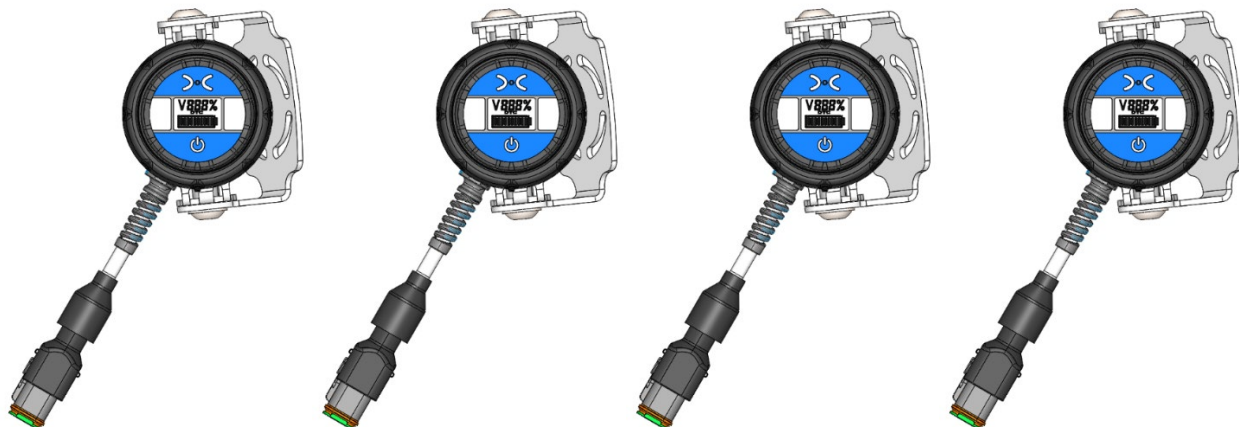


## 4.1.2 2P 3P and 4P Connections

Each battery will have the same connections as the 1P configuration. The additional connection will be a CAN harness connection between each battery to communicate with one another.

External BDI connection is a 6-pin connection:

Each battery is turned ON by pressing and holding the power button symbol on the BDI for at least 3 seconds. Turn ON all four batteries before operating the truck to properly use all four batteries. Each battery is turned OFF by pressing and holding the power button symbol for at least 3 seconds. Turn OFF all four batteries to properly turn OFF the system.



## 5 Flux Power Contact Details

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**WARNING – Risk of Fire – No User Serviceable Part**

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