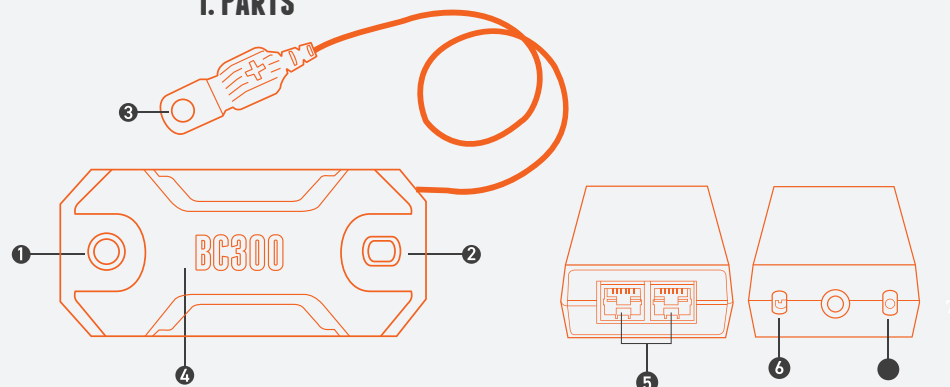


# BC300 + COMMLINK INSTALL GUIDE

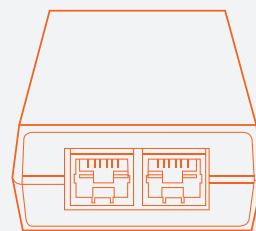
The BMPRO BC300 External Shunt and CommLink provides additional battery monitoring for your BatteryPlus35 and J35 battery management systems, connecting directly to battery via the BC300 External Shunt. This enhances system behaviour with temperature monitoring of the battery for greater protection.

The addition of the BC300 to the BatteryPlus35 and J35 battery management systems allows monitoring high current loads and external charge sources.

## 1. PARTS



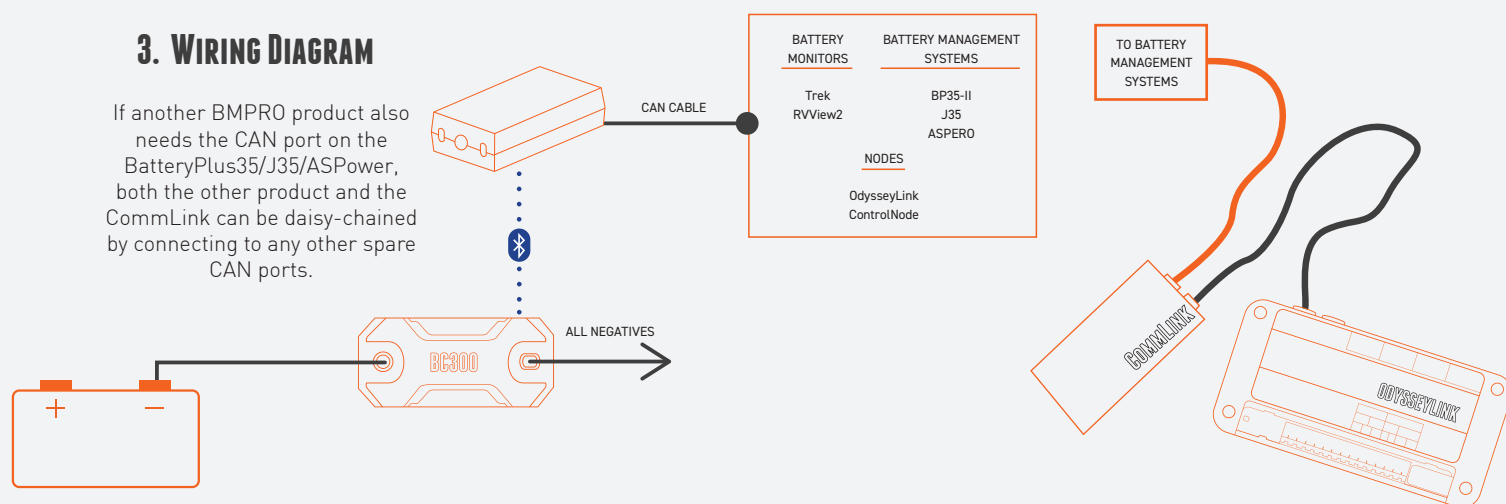
## 2. COMMLINK CONNECTION POINTS



The CommLink connects to the BatteryPlus35/J35/ASPower via a CAN Cable.

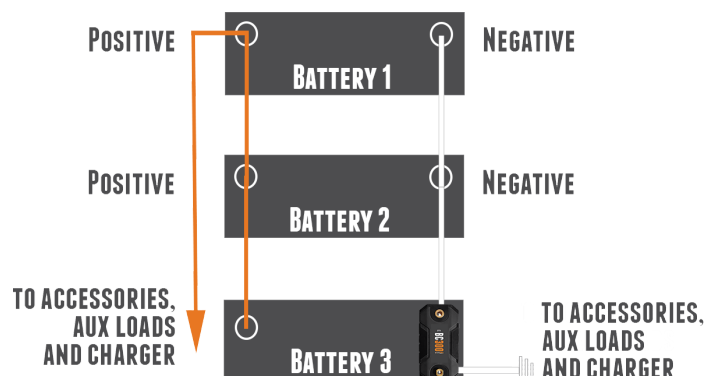
## 3. WIRING DIAGRAM

If another BMPRO product also needs the CAN port on the BatteryPlus35/J35/ASPower, both the other product and the CommLink can be daisy-chained by connecting to any other spare CAN ports.



## 4. CONNECTING THE BC300 AND COMMLINK

1. Disconnect and remove all connections to the battery.
2. Using the CommLink data cable, connect the CommLink to the BatteryPlus35/J35/ASPower CAN bus.
3. Connect the negative battery connection to the battery negative terminal using the provided connector or directly to the battery.
4. Ensure the correct terminal on both the battery and the BC300 is used.
5. Connect all negative load connections to the new negative terminal connection on the BC300.
6. Connect all positive load connections including the BC300's positive flying lead to the battery positive terminal.



## 5. PARALLEL BATTERY INSTALLATION

When connecting to a parallel battery installation, the earth strap linking the batteries must remain on the battery terminals and must be located on the negative battery connection side of the BC300.

## 6. PAIRING THE COMM LINK WITH THE BC300

When the BC300 is connected to the battery it will enter pairing mode for two minutes, shown with a flashing blue LED. It must be paired to the CommLink during this time.

With a pen or similar, press the CommLink pair button. The CommLink status indicator will flash blue. It may take up to one minute for pairing to complete.

## 7. TROUBLESHOOTING

CommLink not pairing to BC300

If the CommLink flashes orange, it has not paired to the BC300.




1. Disconnect and reconnect the BC300's positive flying lead from the battery positive terminal.
2. Repeat the pairing process. If there are continued failures, install the CommLink closer to the BC300 or identify possible interference sources.

CommLink flashes red





If the CommLink flashes red, it is not receiving data.

1. Hold down the CommLink pair button with a pen or similar until the status indicator changes from red to orange. This should take 5 seconds.
2. Pair the CommLink with the BC300 again.

## 8. BC300 LED STATUS INDICATOR

LED COLOUR	STATUS
	AVAILABLE FOR PAIRING
	NORMAL OPERATION
	One or more battery fault conditions detected: i. Battery voltage outside 8V-16C range ii. Battery current exceeding $\pm 300A$ iii. Battery temperature outside -20C to 70C range iv. BC300 external shunt temperature outside operating limits

## 9. COMM LINK LED STATUS INDICATOR

LED COLOUR	STATUS
	NOT PAIRED
	PAIRING
	NORMAL OPERATION
	NOT RECEIVING DATA FROM THE BC300



PRODUCT PAGE



MANUAL



DATASHEET