# Power bank- ELECTRICAL CONNECTIONS schemes

Schemes for ELECTRICAL CONNECTIONS of the power bank add-on, based on the specific versions of FD20

After you have assembled the structural part of the power bank (<u>Power bank - ASSEMBLY guideline</u>), you need to make sure all the wires are properly connected.

Each of the three FD20 versions require a specific wiring to make sure the add-on is installed correctly.

- Model year 2022 DOES NOT require any additional part
- Model year 2021 requires 1 pcs of 2050002
- Model year 2020 requires 2 pcs of 2050002, 1 pcs of 2050004
- Model year 2020 upgraded with lithium batteries requires 1 pcs of 2050002, 2 pcs of 2050004

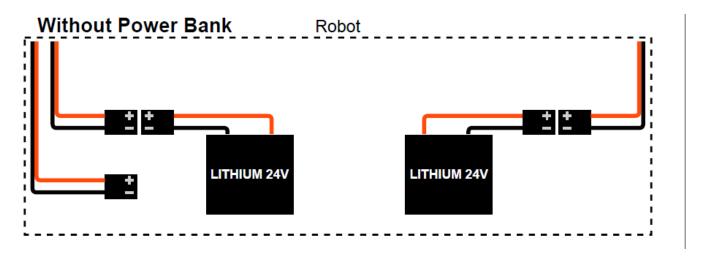
## >> Please remember to ALWAYS turn off the main switch, when connecting or disconnecting batteries! <<

Below, we have attached the connection schemes for each of the three model year, BEFORE and AFTER the power bank has been installed.

<u>Please pay attention to the schemes, as a misusage of these instruction could cause damage to your FD20.</u>

#### FD20 model year 2022 with Lithium battery packs

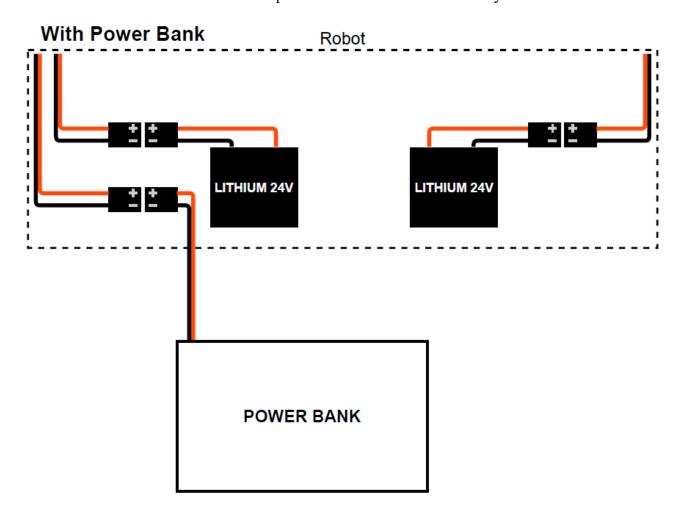
Here is the correct scheme BEFORE the power bank is mounted on model year 2022:







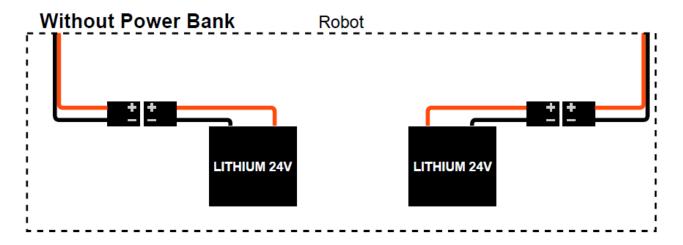
Here is the correct scheme AFTER the power bank is mounted on model year 2022:





### FD20 model year 2021 with Lithium battery packs

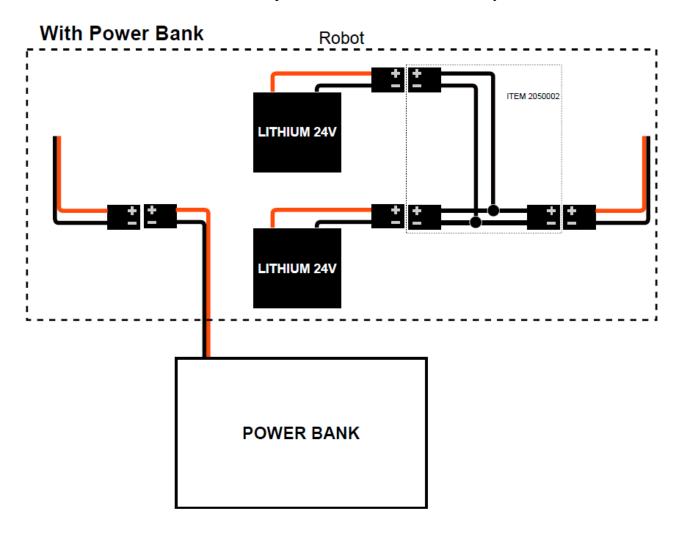
Here is the correct scheme BEFORE the power bank is mounted on model year 2021:







Here is the correct scheme AFTER the power bank is mounted on model year 2021:

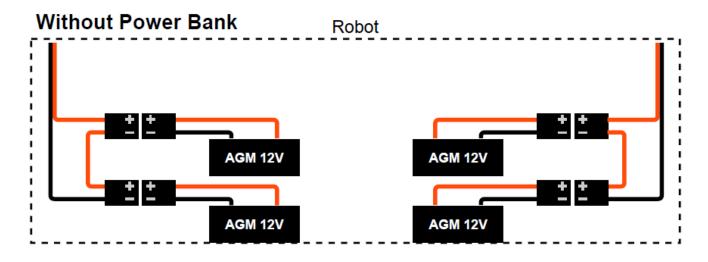






#### FD20 model year 2020 with AGM battery packs

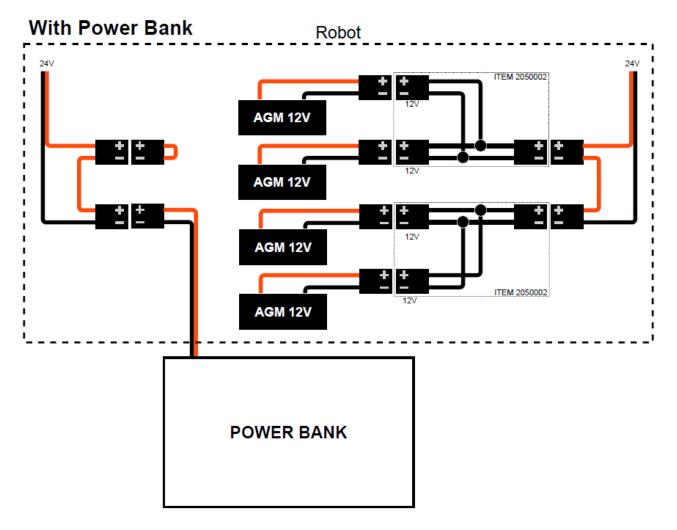
Here is the correct scheme BEFORE the power bank is mounted on model year 2020:







Here is the correct scheme AFTER the power bank is mounted on model year 2020:







Please, when mounting the battery pack to AGM equipped robots, please remember to change the "BATTERY DISCHARGED SET" value to 23V.

