

CHIBATTERY SYSTEMS

RANGER

FOR THE SUPER73



WWW.CHIBATTERYSYSTEMS.COM

USING YOUR RANGER

Make sure BOTH batteries are at 100% before connecting to each other. The Ranger and stock battery need to be at the same voltage to be utilized at the same time.

POWERING ON YOUR BIKE WITH THE RANGER MOD

- Turn on your stock battery first, and then power on your Ranger.

POWERING OFF YOUR BIKE WITH THE RANGER MOD

- Turn off your Ranger first and then turn off the stock battery

What happens if you do not follow this sequence for power on and off?

We have found it can sometimes (not all the time) result in a glitch where the display will not turn on and the trigger will not engage.

To remedy: Power the whole system off and then back on again in the correct order to resolve the issue. If this does not work then wait a few minutes and try again.

FAQ

What signifies on and off on the switch?

I is on and O is off.

What if I forget to turn on the Ranger and have already started riding?

You should not turn on the Ranger mid-ride if you forgot to turn it on at the start of the ride. Parallel batteries must be at the same voltage in order to be utilized together.

Can I ride the bike if I have removed the Ranger but left the battery mount on?

Yes you can! If you remove the Ranger and leave the mount on your bike will work just as normal. Just make sure both batteries are at 100% before you reconnect them later.

Will the battery gauge still be accurate with the extra battery?

Yes the circle on the display and percentage in-app will be accurate! The "miles-till-empty" feature will not be accurate.

Will The Ranger void my warranty with Super73?

Yes it will.

CHARGING YOUR RANGER



**IMPORTANT READ
BEFORE CHARGING**



WHEN BOTH BATTERIES ARE ATTACHED TO THE SUPER73

- 1) Turn ON stock battery
- 2) Turn ON Ranger
- 3) Plug charger into stock battery
- 4) Let both batteries charge (they will charge together)
- 5) Disconnect charger
- 6) Turn OFF Ranger
- 7) Turn OFF stock battery

OPTIONAL: If you would like to charge with two chargers at the same time, after step 3 plug the second charger into the Ranger. Even if the chargers are charging at different rates, it will charge the whole system at the sum of both charging rates.

WHEN ONE OR BOTH BATTERIES ARE REMOVED FROM THE SUPER73

- 1) Turn ON each battery
- 2) Plug a charger into each battery
- 3) Wait until both batteries are charged to 100%
- 4) Disconnect the chargers from both batteries
- 5) Reattach batteries to Super73

*TO GET THE SAFEST AND MOST EFFICIENT USE
OF YOUR RANGER, PLEASE FOLLOW THESE
CHARGING GUIDELINES.*

SMART BMS

Your Ranger is equipped with a Smart BMS. This helps you monitor your battery's health through the app.

To connect to the app for the first time, you will want to make sure your Ranger is plugged in and charging. Once this is achieved, you should be able to find your device in the app. To select the correct view, you will want to choose "single cell" when first entering the app.

The only things you will need to use within the app are the voltage, temperature, and cell levels. Other aspects of the app will give incorrect readings, so don't be alarmed if your app looks like it's giving strange readings, such as the amount of cycles.

If you are having trouble connecting, your Ranger has a Bluetooth reset on the charge port side of the battery. Flip that on to reset the BMS and try connecting again.

READING YOUR SMART BMS CELL LEVELS

You will find your individual cell levels under the name *Battery Strings*. Every once in a while you will want to make sure everything is balanced and within tolerance. Cell levels should stay even, but as your battery is used there will be some variation. If you have any questions about cell level differences please reach out to our support team!

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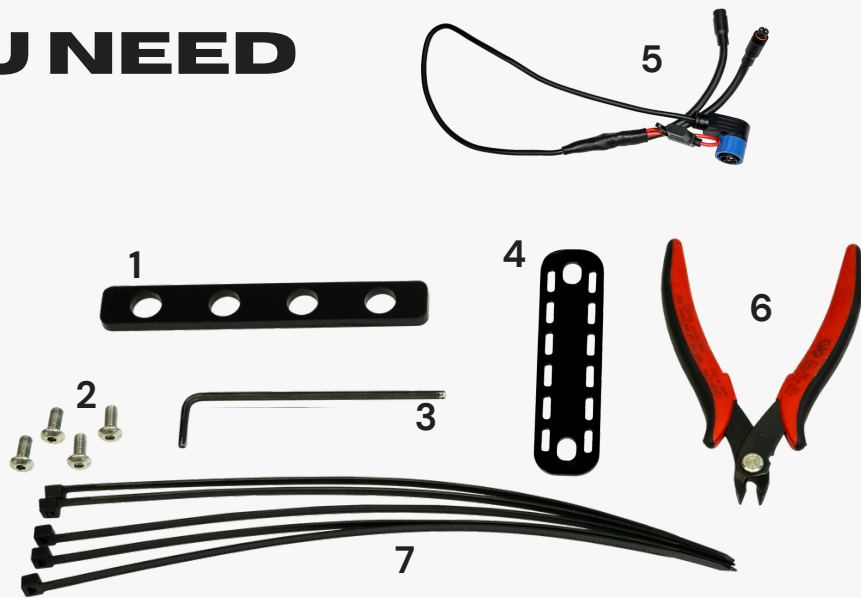
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CHIBATTERYSYSTEMS RANGER INSTALL GUIDE

Before you begin installing anything on your bike, remove your stock battery and charge both your stock battery and the Ranger to full. Full charge will be indicated by the light on the charger turning green. The Ranger will not arrive at full charge.

WHAT YOU NEED

- 1) SPACER
- 2) SCREW (X4)
- 3) 3MM ALLEN KEY
- 4) ZIP TIE BRACKET
- 5) HARNESS
- 6) FLUSH SNIPS
- 7) ZIP TIES



**[CLICK FOR VIDEO
INSTALL GUIDE](#)**

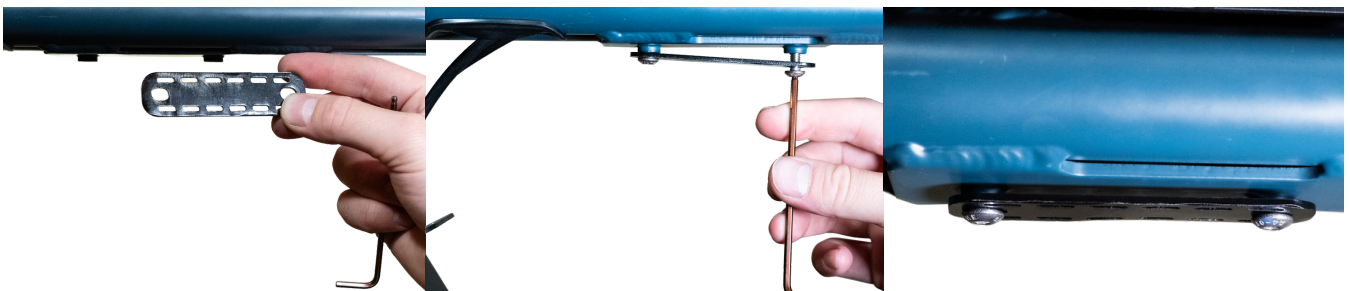
Step 1: Locate your mount and spacer. Take the spacer and line up the holes of the spacer with the mounting points on your bike. Place the mount over the spacer. Make sure the mount is in the correct position with the top lip with the hole facing up.



Step 2: Take the two of the four screws that came with your Ranger kit and utilize the 3mm allen key to tighten them down. When installing the screws, we recommend using Loctite to secure them. Your end result should look like the photo below.



Step 3: Take the remaining two screws that came with your Ranger kit and grab the zip tie bracket. Locate the mounting points underneath the top part of the frame. Use the 3mm allen key to screw in as shown below.



Step 4: Cut the zip tie under your seat that holds the plastic wire cover in place. Locate the large connector that runs through that section and detach it.



Step 5: Locate your Ranger power harness. Plug it into the connectors you just disconnected.



Step 6: Test fit your Ranger on the mount. Check the length of the wire, and plan where you want to mount it. Leave Ranger on if fully charged. If not continue charging to full. Make sure to leave some slack in order to avoid putting strain on the connector.



Step 7: Take the zip ties that come with your Ranger Kit. Feed the first one through the bracket you installed under the top of the frame and loosely secure it. Next, loosely secure a zip tie midway through the top of your frame. Lastly, loosely re-secure the zip tie on your wire cover under the seat. Once satisfied, tighten zip ties and clip excess length with flush snips. Again, make sure to leave some slack.



Step 8: Reattach stock battery once it is fully charged. Power on your bike in the correct order to make sure everything is working. Stock battery on first, then turn on the Ranger.

