



Mate S electric foldable bike controller Replacement

take out the defective controller and connect the new controller. Each cable is described.

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 **TOOLS:**

- [Phillips #00 Screwdriver](#) (1)

 **PARTS:**

- [New controller](#) (1)
-

Step 1 — Placement



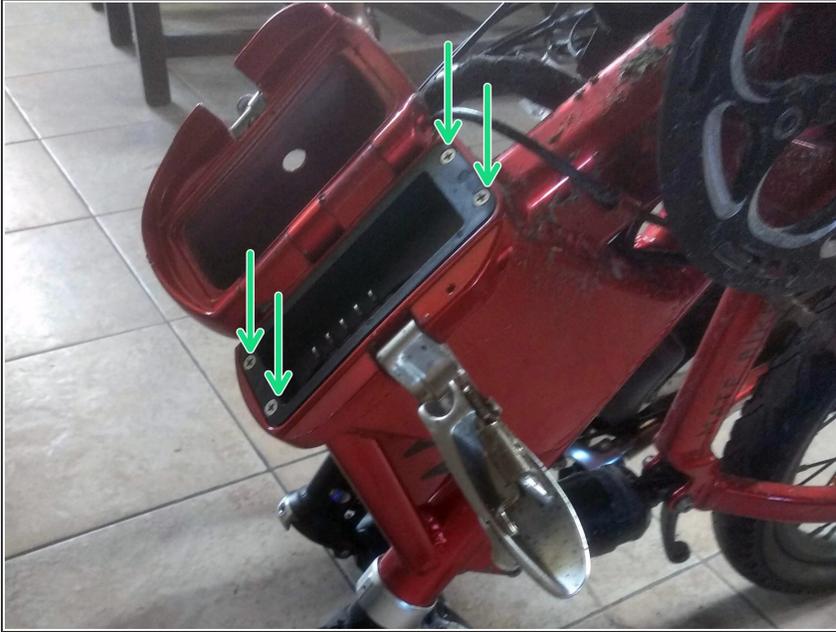
- Fold the bike and turn it on its head, so you can reach the battery slot easily

Step 2 — Remove battery



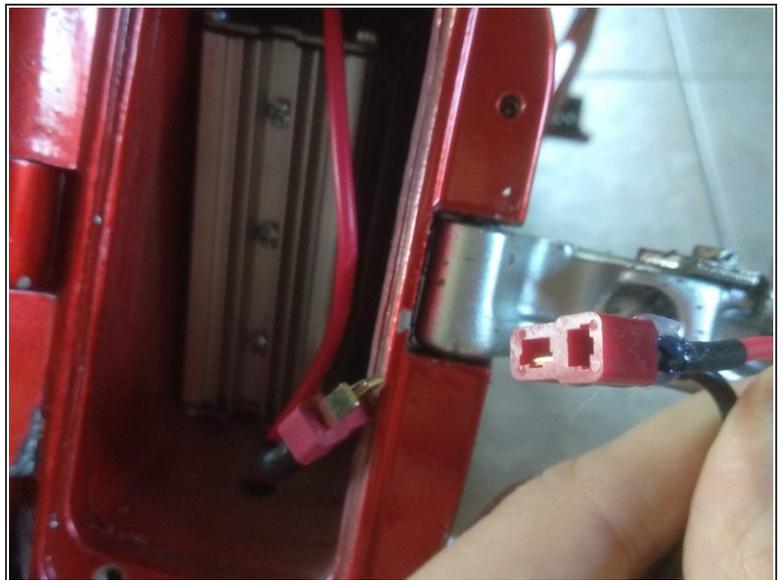
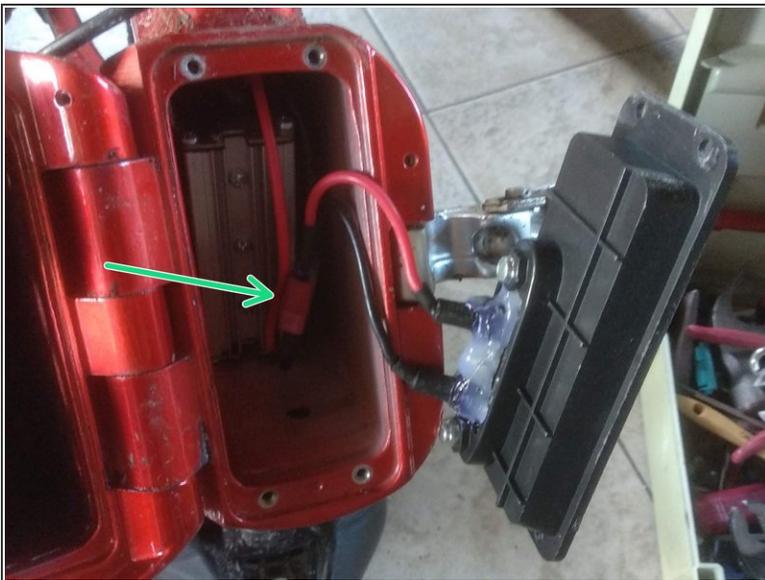
- take out the battery as a safety precaution

Step 3 — Remove cover screws



- Unscrew the 4 outer screws on the controller cover plate near the base of the saddle
- Make sure to put the screws in a container, so you don't lose them.

Step 4 — Remove cover



- Once the cover plate is loose, disconnect it from the controller

Step 5 — release the electric motor cable



- The first cable goes from the controller to the electric motor
- The cable is held into place by 4 hooks. To get the cable out of the hooks, move one side out of one hook.
- the move the cable up, between the 2 hooks
- the move it the opposite way to clear the second hook
- repeat for the other 2 hooks

Step 6 — Disconnect the electric motor cable



- Disconnect the cable by pulling the 2 parts apart in a straight line. Do NOT twist the connector or you will damage the pins.

Step 7 — Disconnect the control cable



- the cable is located near the base of the saddle.
- You will need to pull the ticker cable out of the housing where the controller is located.
- Once it is exposed, disconnect it similar to the last cable, by pulling both ends apart in a straight line.

Step 8 — Disconnect the front light cable



- Even if your bike doesn't have a front light, the cable will still be present, so you can add a light in the future
- The cable starts from the enclosure where the controller is located and goes through a protective cable cover towards the front of the bike.
- pull the cable from the protective cover starting at the end of the cable, near the front of the bike.
- There are 2 points where the cable is held by a bracket. Pull the cable through underneath the bracket. You might need to adjust the other cable to the sides, so the light cable can pass.

Step 9 — Disconnect the front gear cable



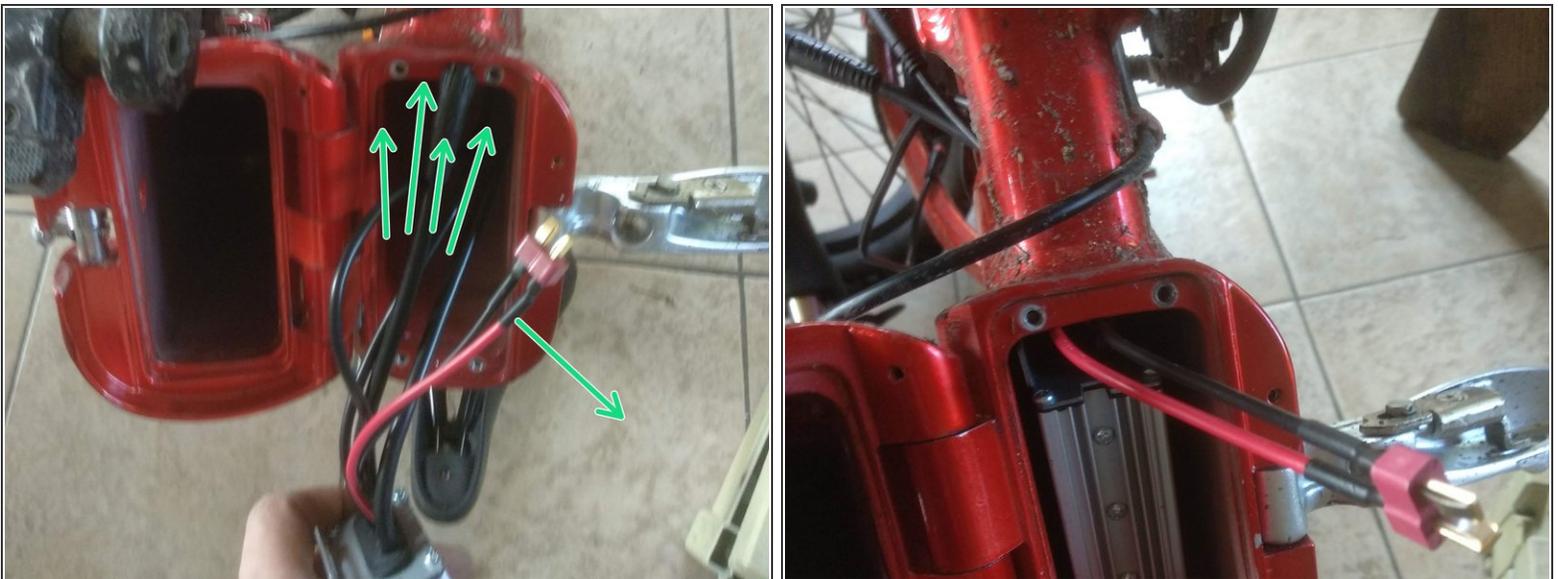
- Trace the cable from the front gear towards the controller enclosure
- Gently pull out the cable connector from the controller enclosure
- disconnect the connector

Step 10 — Remove the controller



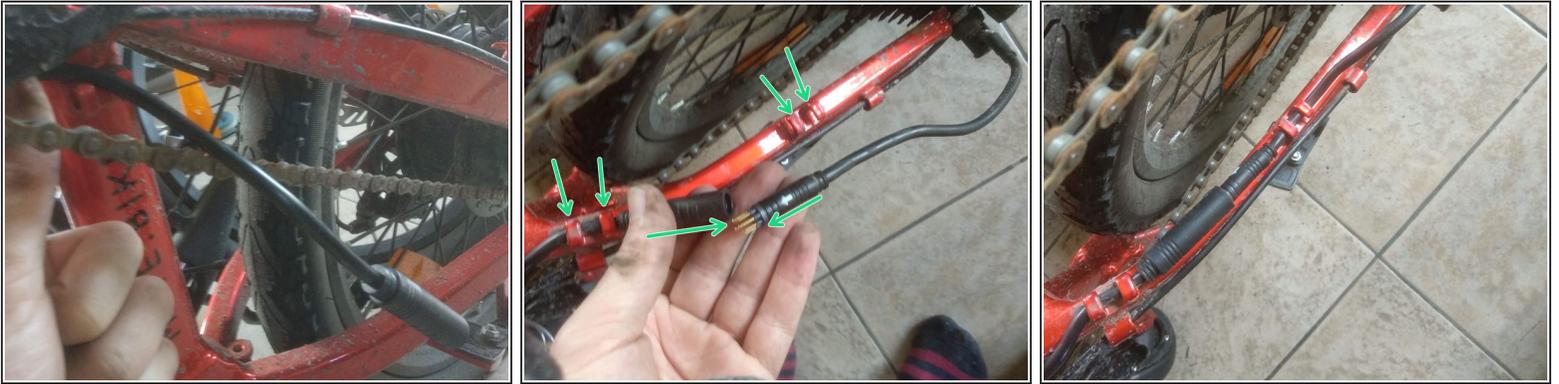
- Push the cables disconnected cables gently back into the controller enclosure while pulling out the controller starting at the bottom
- Now the controller is free. We're halfway.

Step 11 — Insert new controller



- Insert the new controller by pulling all the cables except one through the hole in the enclosure.
- The only cable that should stay outside is the black and red closure cover cable
- The other cables should be pulled through the opening. Best to start with the longest cable first. Also make sure to pull the cables to the correct side of the bike, so you don't need to adjust them afterwards.

Step 12 — Reconnect the electric motor cable



- The electric motor cable is the thick longer cable coming from the controller.
- Start by putting the part that comes from the controller back into its holding hooks on the frame
- then connect the cable, but make sure you line up the arrows on both connectors, so the pins will be in the correct position
- then put the cable back into its other hooks

Step 13 — Reconnect the control cable



- Reconnect the short thick cable coming from the controller to its counter part coming from the front of the bike.
- Again pay attention to the arrows on the connectors

Step 14 — Place the light cable back



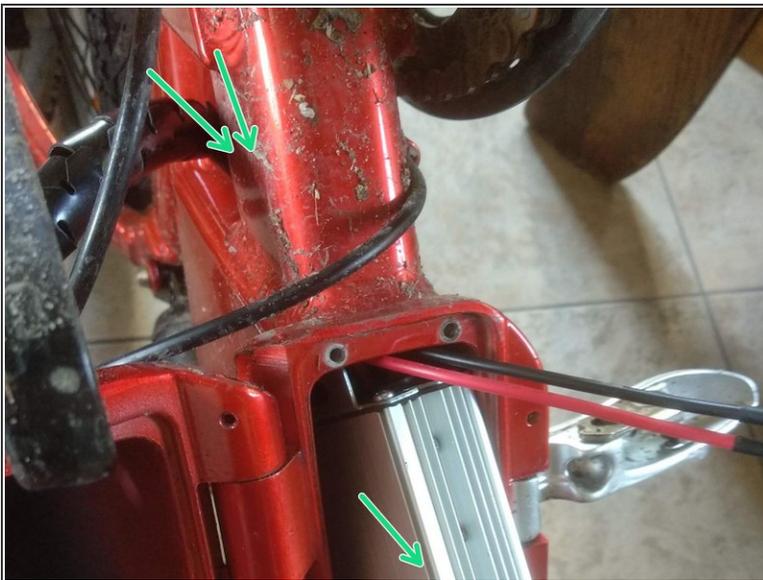
- The thin cable with the red ending is the front light cable.
- Put it back into the cable cover and pull it through both brackets
- You can use a screwdriver to open the cable cover to make it easier to push the cable in

Step 15 — Connect the front gear cable



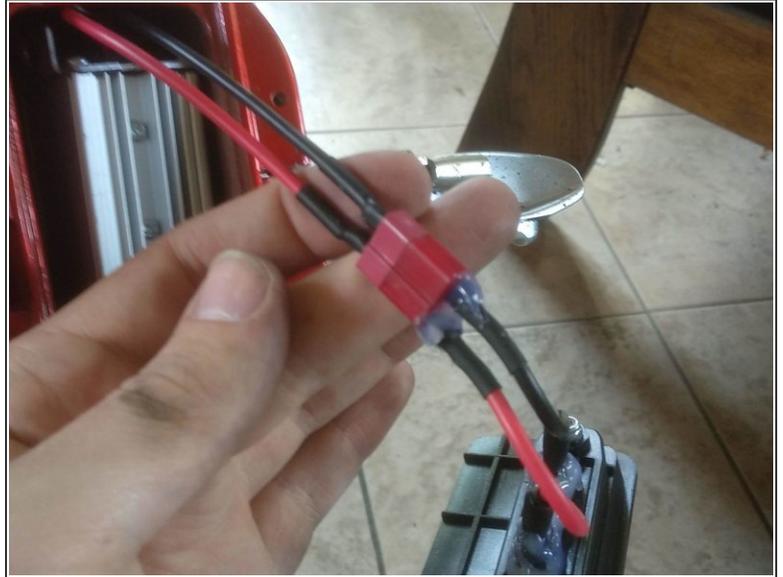
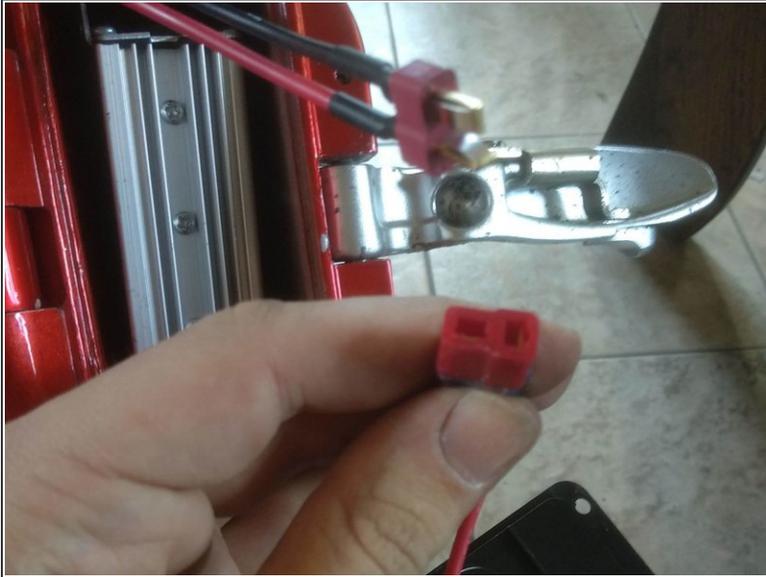
- Connect the orange connectors back together

Step 16 — Push cables inside enclosure



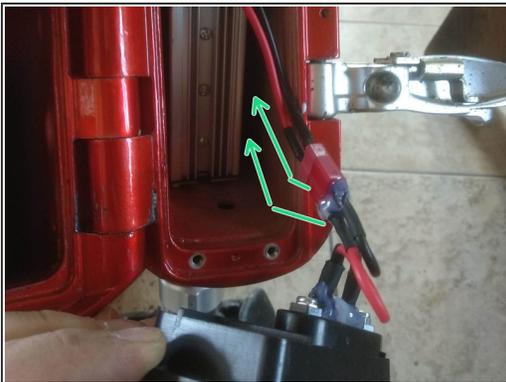
- Push the orange and thick connector inside the enclosure behind the controller. You might need to pull the controller slightly out of the enclosure to make some room
- Then push the controller back into the enclosure until it clears the opening

Step 17 — Reconnect the cover plate



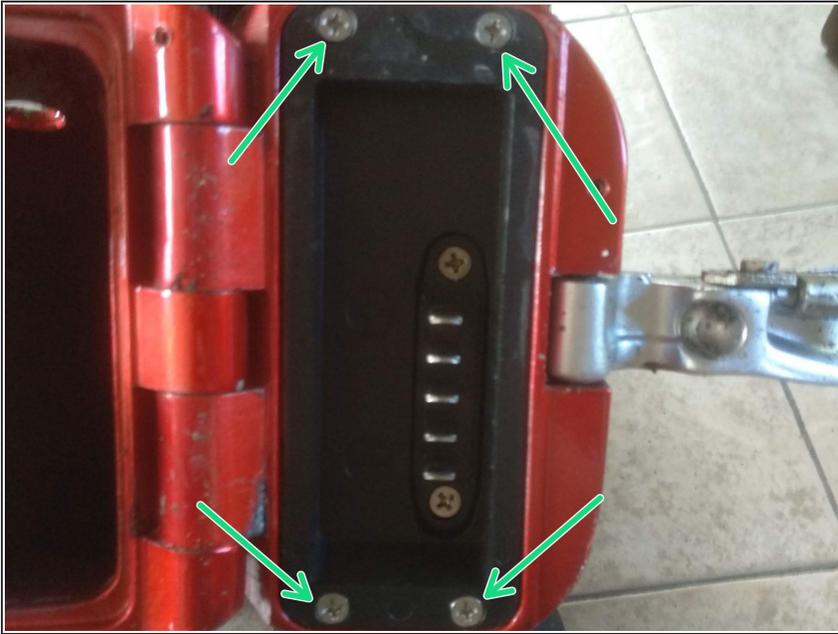
- Reconnect the cover plate

Step 18 — Place the cover plate



- Before you put the cover plate on make sure the last connector is placed next to the controller.
- Gently push the cover plate into place

Step 19 — Screw on the cover plate



- Screw in the 4 screws

Step 20 — Insert the battery



- Put the battery back into its socket with your key

Try out your bike with its new controller, preferably outside.