

VSETT 8 Motor Replacement

Updated 9/16/2021

Applicable Models: VSETT 8

Repair Difficulty: 2/5

Required Tools / Materials:

- Set high quality Allen wrenches
- 18mm Socket and ratchet for removing the axle nut
- Recommended: super glue or black silicone for fastening the axle nut covers

STEP 1: Disconnect the motor wire from the scooter

To remove the motor from the scooter, the motor wire needs to be free. This can be done by unplugging the motor wire and unscrewing the motor wire holding clip. Begin by unscrewing the motor wire holding clip, and then unplugging the motor wire by pulling each side with one hand. Take note of the motor wire orientation, where the connections touch – there are two arrows that should be aligned when the motor wire is reconnected.

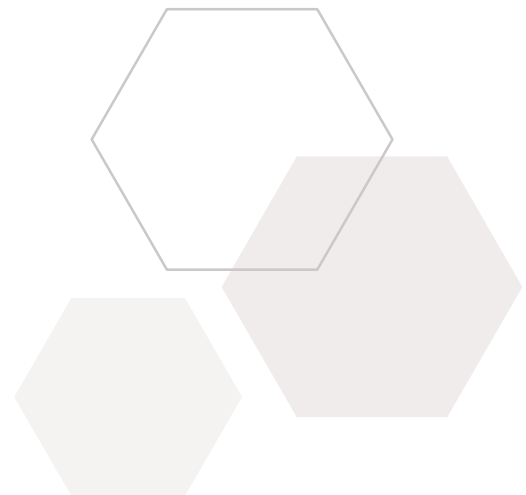


Figure 1a: Freeing the motor wire



STEP 2: Free the brake hardware

Once the motor wire has been removed, the brake hardware needs to be disassembled. To do this, see the following steps:

1. Unseat the brake line tube by pulling the tube out of the holding seat. Note: the brake hinge may be pushed to ease the removal of the tube. See figure 2a for reference
2. Remove the brake line by unscrewing the end cap, and then pulling the brake line out of the cross dowel
3. Remove the drum holding screw outlined in figure 2a

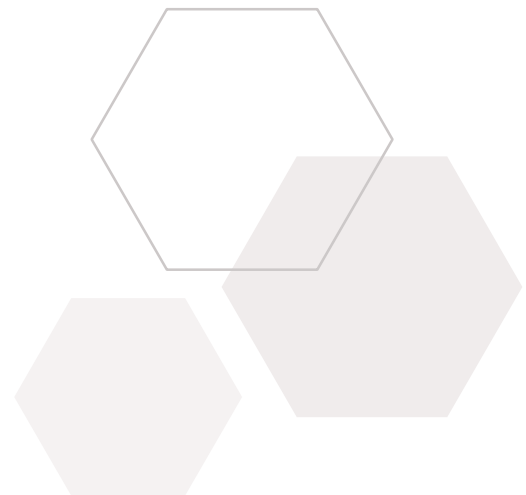


Figure 2a: Unseating the brake line tube



STEP 3: Remove and replace the motor

Once the motor wire and brake hardware have been disconnected, the motor is ready to be removed. Begin by loosening both axle nuts using an 18mm socket, and then removing the exterior washers from the motor. Once removed, the motor may be pulled out of the forks. Next, transfer the drum brake and washers to the new motor and insert the motor into the forks. Finally, place the exterior washers onto the motor and tighten the axle nuts.

STEP 4: Test and finishing up

Once the motor has been replaced, the brake hardware and motor wire can be reconnected by following this guide in reverse. When re-connecting the motor wire, be sure to line up the arrows on each side of the motor wire connector and press the connection together until the arrow meets the female connector.

Finally, test the motor by placing it on a stand, spinning the motor by hand, and then pressing the throttle. Note that the motor may need to be moving for the throttle to engage, as the scooter is by default set to kick start.

At any point throughout this replacement process, please call your dealer for any additional confirmation / questions.

