



NEW MOTOR (LH/RH) & ENCODER INSTALLATION INSTRUCTIONS QM7



Please read these instructions carefully before beginning the installation. Failure to understand and follow installation instructions may result in injury to installer and/or end user and may void the warranty. If you have any questions call Sunrise Medical Technical support at 800-333-4000.

Required parts:

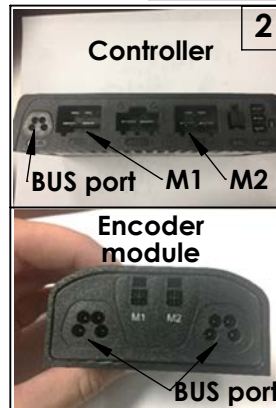
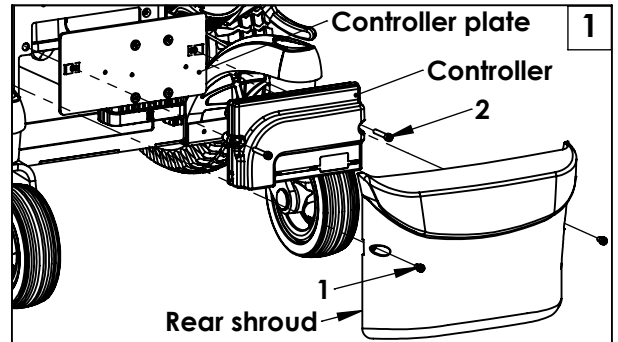
1. 2 ea Suretrac Enabled Motors (1LH, 1RH)
2. 1 ea RNet Encoder Module
3. 1 ea 12" RNet BUS Cable
4. 1 ea Heavy Duty Velcro

Tools required:

1. 5/8" Socket
2. 10mm Socket
3. 5mm Hex key
4. 4mm Hex key
5. 3mm Hex key

A. REMOVE EXISTING MOTORS: 1 2 3 4

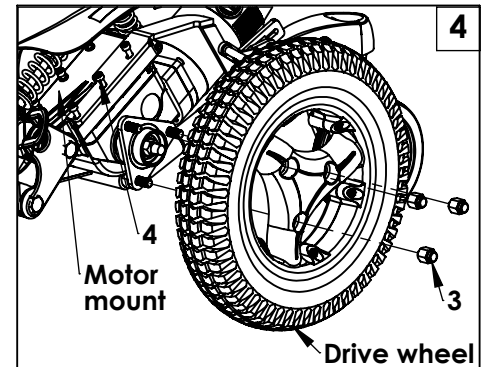
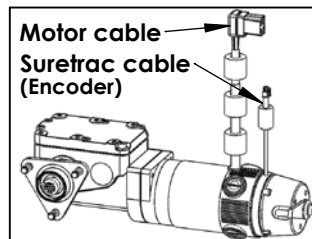
1. Power off the wheelchair.
2. Remove the rear shroud on the wheelchair base using the 4mm hex key, (1) Figure 1.
3. Remove the controller and controller plate using a 4mm hex key (2). If the serial number of your chair is QM710C, QM715C, QM720C, or greater, the controller plate will need to be removed separately using a 3mm hex key. Figure 1. Note- your controller may look different from the one shown.
4. Disconnect the cables coming from each motor from connection points M1 and M2 on the controller. Remove the cable from the wire saddles going from the controller to the motor. Figures 2 and 3.
5. Use a 5/8 inch socket to loosen the lug nuts (3) and remove the drive wheel. Figure 4.
6. Remove the 6 hex head cap screws (4) that attach the motor gearbox to the motor mount using a 10mm socket. Keep screws for later. Recycle old motors according to your local laws and regulations.
7. Repeat steps 5 and 6 on the opposite side of the wheelchair.



B. INSTALLING NEW MOTORS: 1 2 3 4 5

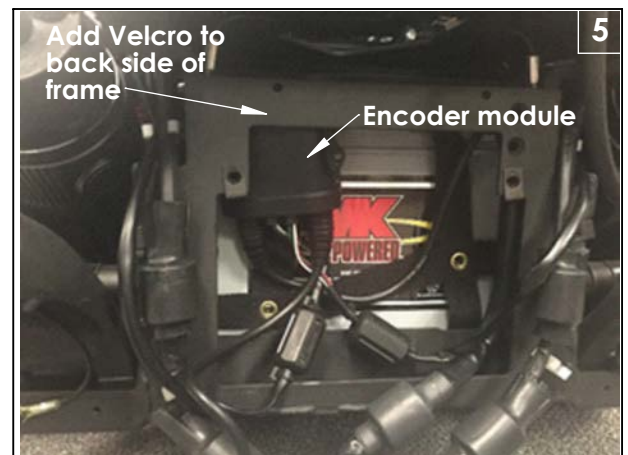
NOTE: IF CHANGING FROM MOTORS WITHOUT SURETRAC TO MOTORS WITH SURETRAC, PLEASE CONTACT SUNRISE MEDICAL TECH SERVICES. YOU WILL NEED A NEW PROGRAMMING FILE FOR SURETRAC TO FUNCTION PROPERLY.

1. Using the 6 hex head cap screws that were removed in Section A step 6, attach the new motor with Suretrac to the motor mount.
2. Using the wire saddles on the base, guide both the larger motor cable and the smaller Suretrac cable to the area where the controller mounts.
3. Remove the RNet bus cable that is connected to the controller. Connect the free end of the existing cable into the Encoder Module. Connect one end of the new RNet bus cable into the open bus port on the Encoder Module and the other into the bus port on the controller.



WARNING

4. WHEN CONNECTING THE MOTORS TO THE CONTROLLER AND THE ENCODER TO THE ENCODER MODULE, IT IS VERY IMPORTANT TO CONNECT THE PLUGS INTO THE CORRECT PORTS. THE LEFT MOTOR CONNECTS TO M1 ON THE CONTROLLER AND THE RIGHT MOTOR CONNECTS TO M2. IT IS IMPORTANT TO FOLLOW THIS SCHEME WHEN CONNECTING TO THE ENCODER MODULE. THE LEFT ENCODER CONNECTS TO M1 ON THE ENCODER MODULE AND THE RIGHT ENCODER CONNECTS TO M2.
5. After the connectors are in place, use the heavy duty Velcro to attach the encoder module in the location shown. Figure 5.
6. Reinstall the drive wheel, controller plate and rear shroud, following the opposite of steps 2, 3, 4, and 5 in Section A.



Sunrise Medical 2842 Business Park Ave Fresno, CA 93727 USA
In Canada (800) 263-3390



Customer service: 800.333.4000
or visit www.SunriseMedical.com

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