



# NEW MOTOR (LH/RH) INSTALLATION INSTRUCTIONS QM7 WITH SURETRAC



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:

- 2 ea Suretrac enabled motors  
Part numbers: 243289 LH 243290 RH (8KPH)  
243285 LH 243286 RH (10KPH)  
243287 LH 243288 RH (13KPH)
- 80amp battery harness kit

### Tools required:

- 5/8" Socket
- 10mm Socket
- 5mm Hex key
- 4mm Hex key
- 3mm Hex key

## A. REMOVE EXISTING MOTORS: 1 2 3

- Power off the chair.
- Remove the rear shroud on the wheelchair base using the 4mm hex key, (1) Figure 1.
- Remove the controller and controller plate using a 4mm hex key (2). If the serial number on 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 differently than the one shown.
- 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.
- Use a 5/8 inch socket to loosen the lug nuts (3) and remove the drive wheel. Figure 3.
- 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.
- Repeat steps 5 and 6 on the opposite side of the wheelchair.

## B. INSTALLING NEW MOTORS: 1 2 3 4 5

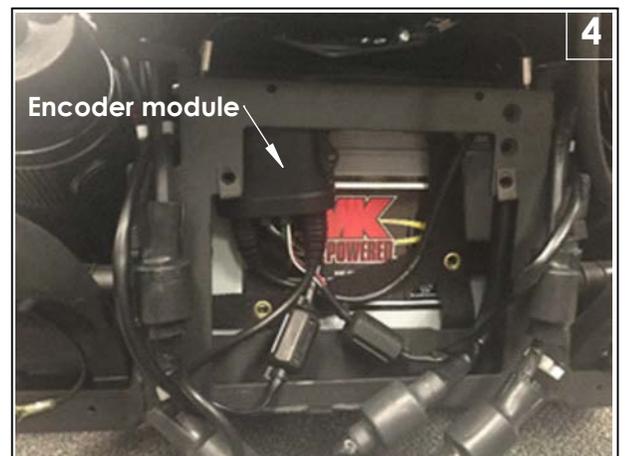
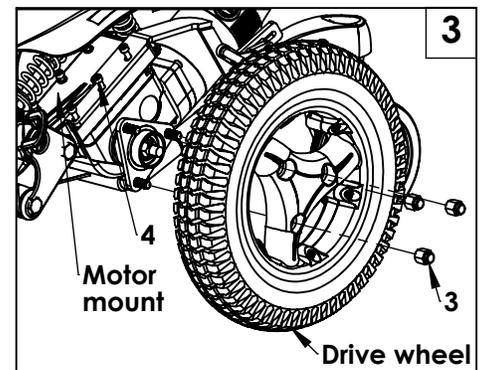
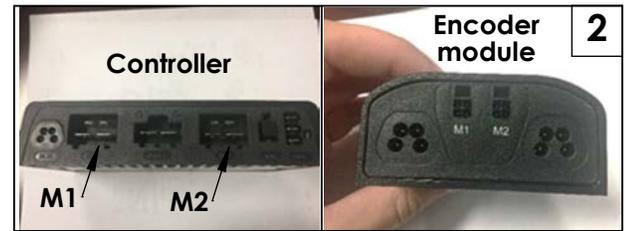
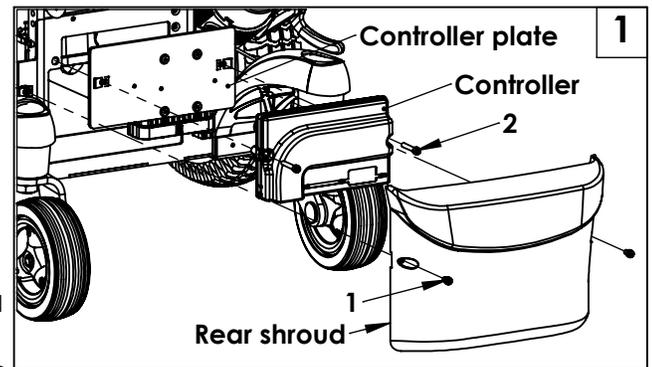
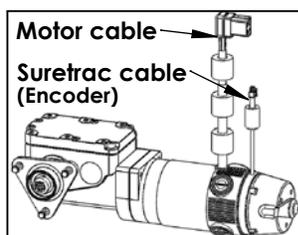
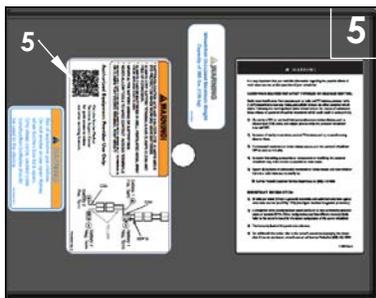
**NOTE: IF CHANGING FROM MOTORS WITHOUT SURETRAC TO MOTORS WITH SURETRAC, PLEASE CONTACT SUNRISE MEDICAL TECH SERVICES. YOU WILL NEED A NEW PROGRAMMING FILE FOR SURETRAC TO FUNCTION PROPERLY.**

- Replace current battery harness with 80amp harness. Follow instructions included with 80amp harness kit.
- Cover existing battery label on the underside of the battery cover with new label (5) supplied in 80amp harness kit, Fig. 5.
- 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.
- 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.



### WARNING

- 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 ALSO. THE LEFT ENCODER CONNECTS TO M1 ON THE ENCODER MODULE AND THE RIGHT ENCODER CONNECTS TO M2.
- Reinstall the drive wheel, controller plate and rear shroud, following the opposite of steps 2, 3, 4, and 5 in Section A.



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