

CELESTRON

MOTOR CONTROLLER REMOVAL PROCEDURES

The following instructions will walk you through the process of safely removing your motor control electronics from your NexStar 11 GPS telescope so it can be **FACTORY REPROGRAMMED**. This procedure will upgrade the software of your motor control electronics from V1.0 to V4.1. Once reprogrammed, you will receive **YOUR** motor control electronics back for re-installation.

Upgrade kit contents:

1. Anti-static bag
2. Hang tag
3. Bubble wrap
4. Motor controller removal instructions
5. Return mailing label

WARNING: THESE PROCEDURES REQUIRE PERSONAL CONTACT WITH TELESCOPE ELECTRONICS. DO NOT PERFORM THIS REMOVAL PROCEDURE ON A CLOTH SURFACE, OR WHILE STANDING ON ANY CARPETED SURFACE!

Release the Altitude clamp and rotate the optical tube to its original shipping position. (Figure 1) Position the telescope so the upper fork arm handle faces you. (Figure 2) Gently lay the telescope on its side (to your right). (Figure 3) Using a 3/16" Allen wrench, remove the 2 hex bolts holding the upper handle to the fork arm and remove the handle. (Figure 4) Using a 9/64" Allen wrench, remove the 4 hex bolts attaching the upper cover to the fork arm. (Figure 5) Using the template provided on page 2 (Figure 11), VERIFY the color-coding on each cable attached to the motor controller (some cables do not have color coding). (Figure 6) Remove each connector, one at a time, by firmly grasping the connector and pulling it away from the motor controller. DO NOT PULL ON THE CABLE TO REMOVE THE CONNECTOR. (Figure 7) **WARNING: Removal of the motor controller requires the removal of two screws and one washer. Take care during their removal to prevent this hardware from entering the base of the telescope.** Remove the lower screw holding the motor controller to the fork arm. (Figure 8) LOOSEN the upper screw holding the motor controller to the fork arm. (Figure 9) While holding the motor controller by its corners with one hand, remove the upper screw. (Figure 10) Attach the hangtag through one of the screw holes. Fill out the hang tag with the RA #, telescope serial number, and your name. Slide the motor controller into the anti-static bag, enclose in bubble wrap, and put into shipping box. Seal shipping box, apply shipping labels and return to Celestron.

Note: All images referenced to are located on page 2.



Figure 1



Figure 2

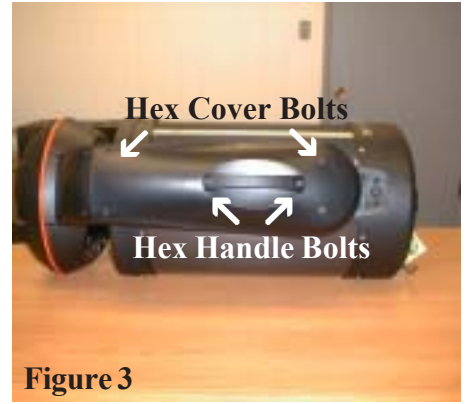


Figure 3



Figure 4



Figure 5

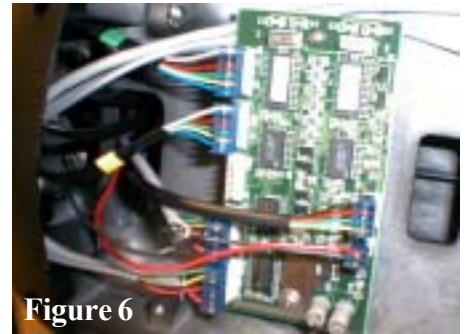


Figure 6

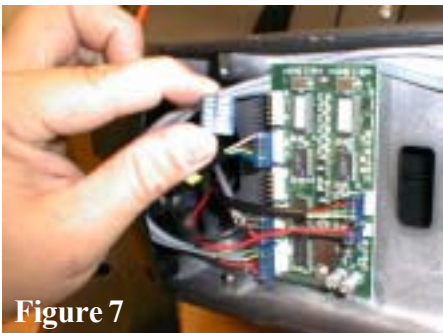


Figure 7

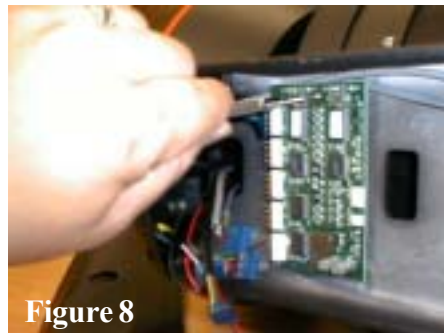


Figure 8



Figure 9



Figure 10

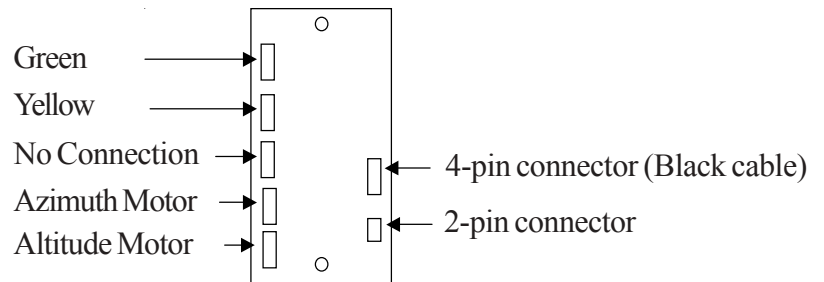


Figure 11