

10.6 Drive Motor

Inspection/Removal/Repair/Replacement

The following procedure outlines the drive motor maintenance:

1. Power-Off the AAU by removing the power cord from the APC Battery Backup. Follow your site “Lock-Out” procedure to ensure the power cord is not plugged back in until this procedure is completed.
2. Open the door to the SSIU panel.
3. Locate the two cables from the motor to the SSIU. Note the location and remove the four wires from the motor to the Drive PCB. Separate the four-wire plug/jack (p/j 22) between the encoder and the SSIU.
4. Using a 9/16” socket wrench, remove the four nuts securing the sub-panel within the SSIU. Once the four nuts have been removed, pull the sub-panel from the four threaded studs and swing the sub-panel away from the drive side of the SSIU.
5. Once the sub-panel is out of the way, use a 5/32” Allen wrench to loosen the four retaining bolts for the motor. (see figure 10.1.1)
6. Once the retaining bolts are loose, remove the drive belt.
7. **REMOVE** the drive pulley from the motor: Using a 7/16” wrench, remove the two bolts that secure the split-taper bushing to the pulley. (see figure 10.2.1)
8. Once the bolts have been removed, thread the bolts into the other two holes within the split-taper bushing. Using the 7/16” wrench alternate tightening the bolts until the split-taper bushing and the pulley separate. (see figure 10.2.2)
9. Use a 5/32” Allen wrench to remove the four retaining bolts for the motor. (see figure 10.1.1)
10. Using a 1/16” Allen wrench, remove the two screws holding the encoder to the motor shaft, and the two screws holding the encoder to the rear motor plate. (see 10.7.1)
11. Reverse this procedure to re-install the motor and encoder.
12. Once the unit has passed a visual inspection, shut and secure the SSIU door.
13. Return power to the unit and follow the restart procedure.

Note: To **INSTALL** the motor drive pulley: Place the split-taper bushing and the pulley onto the shaft. The pulley should be .25” from the back of the SSIU cabinet. Align the split-taper bushing and pulley so the non-threaded bushing holes line up to the threaded holes on the pulley. (see figure 10.2.3) To **TIGHTEN** a drive pulley: Insert the two bolts and begin alternately tightening the bolts so the bushing becomes joined to the pulley.