

MODEL 5120 ACTUATOR REPLACEMENT GUIDE

INSTALLATION INSTRUCTIONS

1. Remove front cover of unit.
2. Plug the power cord into a 115V outlet and cycle the arm to the open position.
3. Shut off the toggle switch and pull the power cord plug so the arm remains in the open position.
4. Remove the finger guard (#14).
5. Remove the two screws that hold the printed circuit board (PCB) assembly to frame. Keeping the wires intact, pull the assembly towards you so that there is working room to get the actuator to disconnect the arm assembly from the actuator.
6. Loosen jamb nut (#5) until rod end (which is threaded into the actuator barrel) is removed from barrel by turning the barrel away from jamb nut.
7. Remove the nut, washer and 3/8-16 x 1 3/4 (#23) cap screw that holds the motor actuator assembly (#1) to frame.
8. Lean the assembly towards you so you can remove the two nuts and star washers that hold the motor to the actuator.
9. Replace actuator being sure that the rubber coupler is properly positioned between motor shaft and the actuator gear shaft.
10. Reinstall the motor actuator assembly securely to the frame. The unit is now ready to be "timed in".
11. To "time in" -- rotate the barrel clockwise so that the barrel is tight against the cast housing of the actuator (no threads will be showing on the actuator screw gear).
12. Rotate the barrel away from actuator base exposing the threads on the screw gear:
 - a. For a left hand unit, turn the barrel away from the actuator base (CCW) 3 full turns.
 - b. For right hand unit turn the barrel away from the actuator base (CCW) 2 full turns.

MODEL 5120 ACTUATOR REPLACEMENT GUIDE

13. Now line up the threads of the rod end to the threads of the actuator barrel and begin threading the barrel onto the rod end (the barrel will be moving away from the actuator base).
 - a. Note: As the barrel is threading on to the rod end, the arm will be retracting into the frame and may seem to get more difficult to turn.
14. At this point, the arm will start to move out, even though you are still turning the barrel away from the actuator base. Once the arm is flush with the outside of the frame, you are ready to tighten the jamb nut against the barrel.
 - a. If the arm reverses before it has properly retracted into the frame repeat step #8, increasing barrel turn about 1/2 turn (CCW).
 - b. If the arm comes in too far and jams against the frame before reversing direction, repeat step #8, decreasing barrel turn about 1/2 turn (CW).
 - c. *Note: It is important to use a few drops of Loctite to secure the jamb nut.*
15. Reinstall the PC Board assembly.
16. Power the unit and signal the operator to open the arm to its full open position (should be about 107 degrees).
17. Shut off the power and install the finger guard.
18. Power up and let arm cycle closed to be sure the "timing" step was performed properly.