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## MIA316 ACTUATOR (BASE) INSTALLATION INSTRUCTIONS

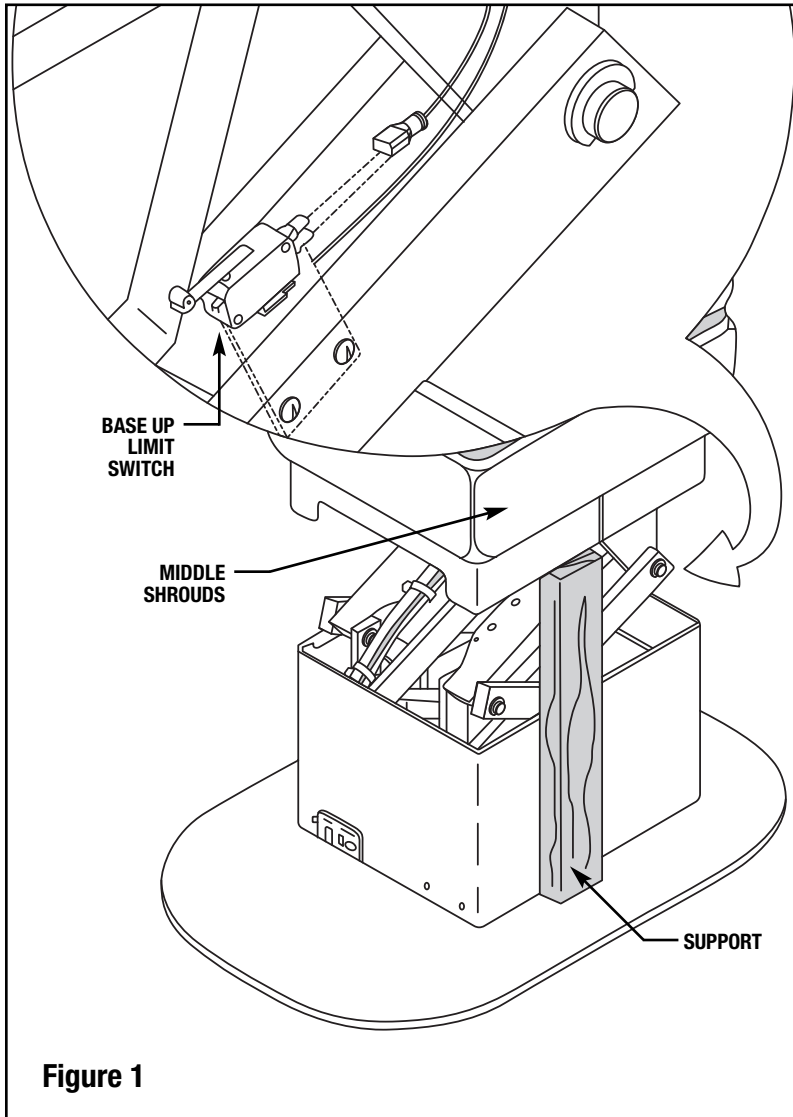


Figure 1

### REMOVAL

1. If the base function is operable, raise CHAIR UP all the way and then lower the table approximately 1 inch to release tension on the bellows.

2. Lift and support middle shrouds (*see Figure 1*).

**Note:** Chairs with serial numbers prior to BP6172 do not have a base up limit switch. Skip to Step #5.

3. Move wire from normally closed contact on base up limit switch to the normally open contact.

4. Depress BASE UP foot switch. Chair should raise slightly and then stop.

5. Unplug the chair power cord from the wall outlet. See "WARNING" note below.



**WARNING:** Disconnect the power from the chair before removing covers/shrouds or making any repairs to prevent the possibility of electrical shock, severe personal injury, or death.

6. Remove chair top.



**WARNING:** Chair is heavy. Use proper lifting techniques (and an assistant if necessary) to raise and lower chair. Failure to do so could result in injury.

7. Remove shrouds.

8. Remove (2) e-clips from clevis pin (*see Figure 2*).



**DANGER:** Gas spring(s) will cause the base subassembly to extend fully once the clevis pin is removed. Failure to keep base subassembly under control could result in injury.

9. Have an assistant apply downward pressure on base subassembly, while driving out clevis pin (*see Figure 2*). Allow base subassembly to extend fully.

10. Support base subassembly by inserting a safety support (large punch or screwdriver) thru both support holes. *Note: It may be necessary to lift up slightly on the base subassembly. See Figure 2.*

11. Cut cable ties securing the base actuator wire harness to other wire harnesses

12. Tag and disconnect wire from wire tap (if unit has base down limit switch). *See Figure 2.*



**DANGER:** Make sure base subassembly is supported as instructed in step 10. Failure to do so will allow base subassembly to collapse which could result in serious or fatal injury.

**Note:** Chairs with serial numbers BP-1000 thru BP-1363 will only have one gas spring; later units have two.

13. Remove shoulder screws, washers and gas springs from brackets.

**Note:** The ball screw cover may need to be rotated to shorten the actuator length and allow it to be removed.

14. Remove (4) screws, lock washers, bracket and base actuator assembly from base subassembly, Then remove bracket from actuator by removing the (2) actuator shoulder screws (*see Figure 2*).

15. If the actuator bearings need lubrication, loosen (2) actuator bearing set screws and remove the (2) actuator bearings from the brackets. Clean and relubricate the bearings as necessary (*see Figure 2*).

### INSTALLATION - refer to Figure 2

1. If removed, install (1) actuator bearing in each bracket and secure with the actuator bearing set screw.

2. Coat threads of (2) actuator shoulder screws with removeable Threadlocker 262 (RPI Part #RXA007 - included).

3. Install actuator bracket onto base actuator assembly and secure with (2) actuator shoulder screws.

4. Install base actuator/bracket assembly on base subassembly and secure with lock washers and screws. Tighten (4) screws to 23 - 28 ft-lbs (31.2 - 38 N•m).

5. Coat (4) gas spring shoulder screws and (8) washers with grease.

**Note:** The base subassembly may need to be raised (extended) slightly in order to align gas spring with brackets.

**Note:** Chairs with serial numbers BP-1000 thru BP-1363 will only have one gas spring; later units have two.

6. Install gas spring on brackets and secure with washers and shoulder screws.
7. Remove safety support from support holes (*see Figure 2*).

**Note:** The ball screw cover may be rotated to lengthen the actuator length and make installation easier.

**Tip:** Insert a punch thru mounting hole to assist in installing clevis pin.

8. Push base subassembly downward until base actuator assembly is aligned with brackets; then secure base actuator assembly in position with clevis pin and (2) e-clips.
  9. Connect wire to wire tap (if unit has a base down limit switch).
  10. Secure base actuator wire harness to other wire harnesses with cable ties (included).
  11. Move wire from normally open contact on base up limit switch to the normally closed contact (*see Figure 1*).
  12. Remove the support and install shrouds (*see Figure 1*).
  13. Install chair top.
  14. Plug the power cord into the wall outlet.
- Note:** The following step is necessary. Otherwise, the PC control board's home position will not match the mechanical home position of the base actuator assembly.
15. Run the AUTO RETURN function and return to service.

**Figure 2**

