

PIVOTAL EDGE- PNEUMATIC HATCH (Assembly # 103843) PREVENTIVE MAINTENANCE SCHEDULE

Part No. / Task Description	Frequency			
	Pre-trip	Bi-weekly	First at 6 months	Thereafter every 12 months
Air lines and control box - Check operation	X			
Cover build-up / Cleanliness - Conditional		X		
Remove and Inspect cover			X	X

Tools and materials that may be required:

2 x Channel lock pliers, hammer, wooden block, 14" pipe wrench, anti-seize, dry lubricant, wire brush, emery cloth, small pry bar, 2- 15/16" wrenches, 2- 3/4" wrenches, scraper (putty knife).

Maintenance Procedure – Remove & Inspect Cover

- Close the supply air ball valve and deflate the seal by pulling the control box button out. Cycle several times to relieve all accumulated pressure on the system.
- Disconnect the airline at the control box for the rod, and base line
- Disconnect the seal airline at the quick-connect by the cover
- Remove the actuator at the rod end of the cylinder (15/16" wrench)
- Remove the hinge pin D ring, yellow plastic cover and 1.5" castle nut
- Pry the cover up using equal pressure
- Remove the 3/8" fitting and hose clamp on the end of the seal inflation tube
- Remove the seal
- Clean all surfaces, check and replace any visibly worn parts
- Check functionality of lock-out pin by apply a minimum of 5psi (**see note 1**)
- Lubricate the standoff connection points (dry lubricant)
- Reassemble: the Seal (**see note 2**) and connections, hinge pin, use anti-seize on threads, set tension for ½" of play just before closing, check for smooth operation prior to connecting actuator
- Connect airline and check for clearance
- Connect the actuator
- Open and close the cover by hand checking for smooth operation
- Connect the airlines and cycle the cover.

Preventive Maintenance Parts Recommendations		
Part		Recommended Action
No.	Description	
103755	Hinge pin cap	Replace every 12 months
103731	Bushing Cover	Replace every 12 months
103730	Bushing Flange	Replace every 12 months
103679	Hinge Pin	Visually assess and replace if necessary
103678	Thrust washer	Replace every 12 months
102665	Slider cover	Visually assess and replace if necessary
102664	Slider Flange	Visually assess and replace if necessary
102419	Seal inflatable (Seal)	Visually assess and replace if necessary

Note 1 (Optional equipment) Lock-pin functionality check: This line is connected to the tank pressure gauge line. Disconnect the supply line at the cylinder or at the tee connection point. Using a rubber tipped blow gun preferably reduced to 5-20 psi check the operation of the lock-out pin. Check that the pin in the retracted position is level with the flange.

Note 2 Seal installation: The ring that the seal seats into needs to be clean. It is helpful to use a air powered needle scaler. Start by feeding the inflation tube through the hole, a small amount of soapy water on the tube and seal will help this process. Press the seal into the groove at four equal points around the seal. Work the seal into the groove using your fingers or a large flat tip screw driver (dull). Upon completion the seal should be flush with the cover edge.