

INSTRUCTION MANUAL



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Airshore



Quick Connect Upgrade



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Typical Barrel End Cap Upgrade

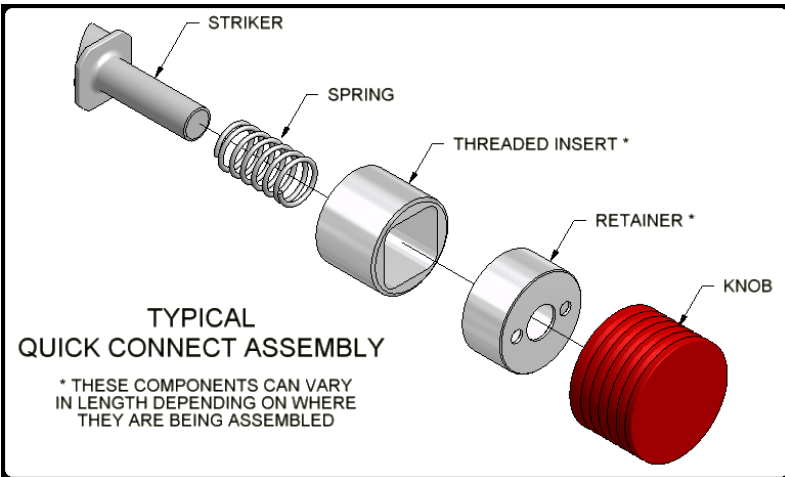
Always think safety while doing this work. Wear safety glasses and secure the equipment while working on it.

A close-up photograph of a metallic, cylindrical component, likely a part of a machine tool or a specialized valve. A drill bit is positioned at the end of the component, suggesting a drilling or machining process. The component has a polished, reflective surface and a small, circular feature on its side.

To convert the barrel end cap begin by drilling out the hole directly under the air nipple. Use a Ø53/64" drill.



Using a Ø7/8-20 UNEF (extra fine) tap, thread the Ø53/64" hole that was drilled previously.



If Quick Connect assembly is assembled take it apart.



NOTES



Upgrade kits available for older ART struts and extensions:
Not recommended for Industrial (silver) Struts

Quick Connect Kits:

PAR-AMQCB Quick Connect Kit for Strut Barrels

- PAR-QC-RK Knob
- PAR-QC-RCS Small Retainer
- PAR-QC-TI Threaded Insert
- PAR-QC-SP Spring
- PAR-QC-S Striker

PAR-AMQCP Quick Connect Kit for Strut Pistons and up to 24" Extensions

- PAR-QC-RK Knob
- PAR-QC-RCL Large Retainer
- PAR-QC-TI Threaded Insert
- PAR-QC-SP Spring
- PAR-QC-S Striker

PAR-AMQCBE Quick Connect Kit for 36" 48" & 72" Extensions

- PAR-QC-RK Knob
- PAR-QC-RCS Small Retainer
- PAR-QC-TI Threaded Insert
- PAR-QC-SP Spring
- PAR-QC-S Striker

377A351 EC Collar Upgrade

- 224A026 Collar
- 215A186 Socket Head Screws
- 159A185 Instructions w/Template



With a simple modification to the strut barrel, the EC collar will replace the old style collar. The advantage to the EC collar is it will be captured on the barrel and will not slide up and down on the piston during transport.



Old pin w/Chain

189A077 Ball Detent Pin w/Lanyard

- PAR-0056 Ball Detent Pin
 - PAR-0057 Lanyard
- Replaces old ART pin/lanyard assemblies that are chain or tension lock type pins.



New pin w/Lanyard

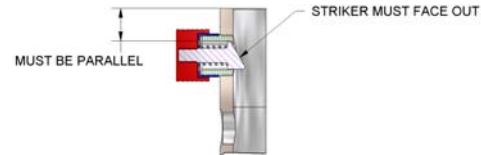


Begin with the threaded insert. Apply a small amount of Loctite 262 (red) to the threads.

3



Spin threaded insert into tapped hole. A 1/2" drive ratchet can be used for final adjustment. NOTE: Drying Time is at least 2 hours.



Threaded insert should be flush with the inside of the end cap. It should also be parallel with the edge of the end cap. See illustration. Also shown is an inside view of the threaded insert. A test fit should be done with an attachment to ensure the insert does not interfere.

4

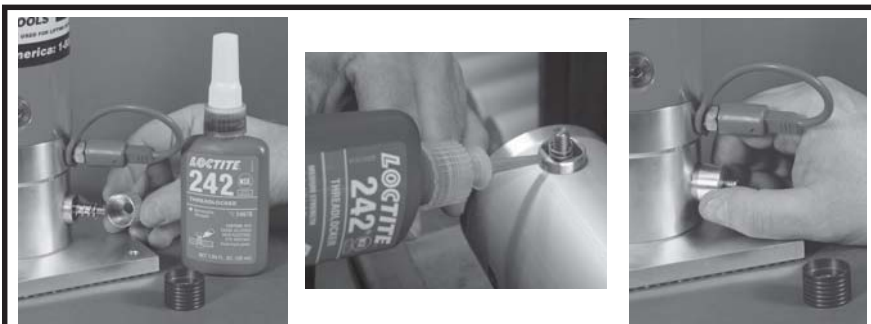


Insert the striker as shown. The striker should always face out, away from the center of the strut.

5

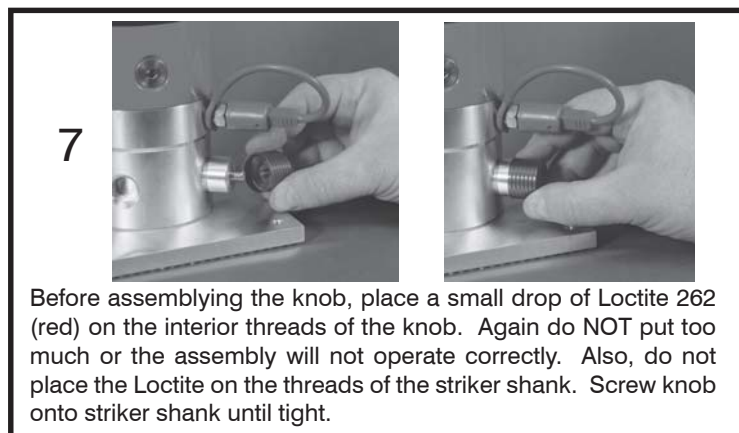


Install spring over striker shank.



6

Place a small drop of Loctite 242 (blue) on the threads of the insert already assembled in the end cap. It is important not to use too much Loctite. Wipe off any excess Loctite otherwise the entire assembly could cease up when dry. Assemble the cap over the striker and screw onto the threaded insert until tight.



7

Before assembling the knob, place a small drop of Loctite 262 (red) on the interior threads of the knob. Again do NOT put too much or the assembly will not operate correctly. Also, do not place the Loctite on the threads of the striker shank. Screw knob onto striker shank until tight.



Completed Quick Connect assembly in barrel end cap.



Completed Quick Connect assembly in strut piston.

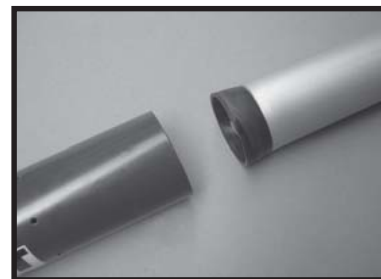
It is VERY important to allow at least two hours for the loctite to dry completely before putting the strut back into service.

GENERAL STRUT MAINTENANCE INFORMATION

**Periodic cleaning and inspection should be standard procedure.
This should be done after EVERY use.**

While the struts are out of service for the Quick Connect Upgrade it is a good opportunity to take the time to check the following on each strut:

Rubber Cup

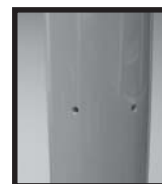


1. Loosen t-handles on collar
2. Pull piston complete with collar out of barrel.
3. Remove any dirt, sand or water. DO NOT immerse rubber cup in solvents or petroleum based products.
4. Inspect for any signs of damage. Check the rubber cup attached to the bottom of the piston. It should be secure and round. Every 2-3 months "flare" out the rubber cup by hand. This will help the cup retain its shape. Periodically spray the cup with a non-petroleum based silicon.

Debris



Nipple and Air Ports in barrel. Make sure there is no debris blocking any air holes.



Make sure threads on collar and T-handles are free of dirt and debris.



Cleaning

5. Clean strut by wiping, washing or steam cleaning. DO NOT use any solvents or petroleum based products.
6. Assemble piston/collar back into barrel.
7. Pull piston up and down to ensure free, smooth movement.
8. Clean and inspect all accessories and bases. Ensure all adjusting screws, bolts, pins and connectors are in place and in good working order.

* Storage Tip *

When storing the struts it is important to pin the piston so that it is not fully resting on the rubber cup. Over time the rubber cup could deform.