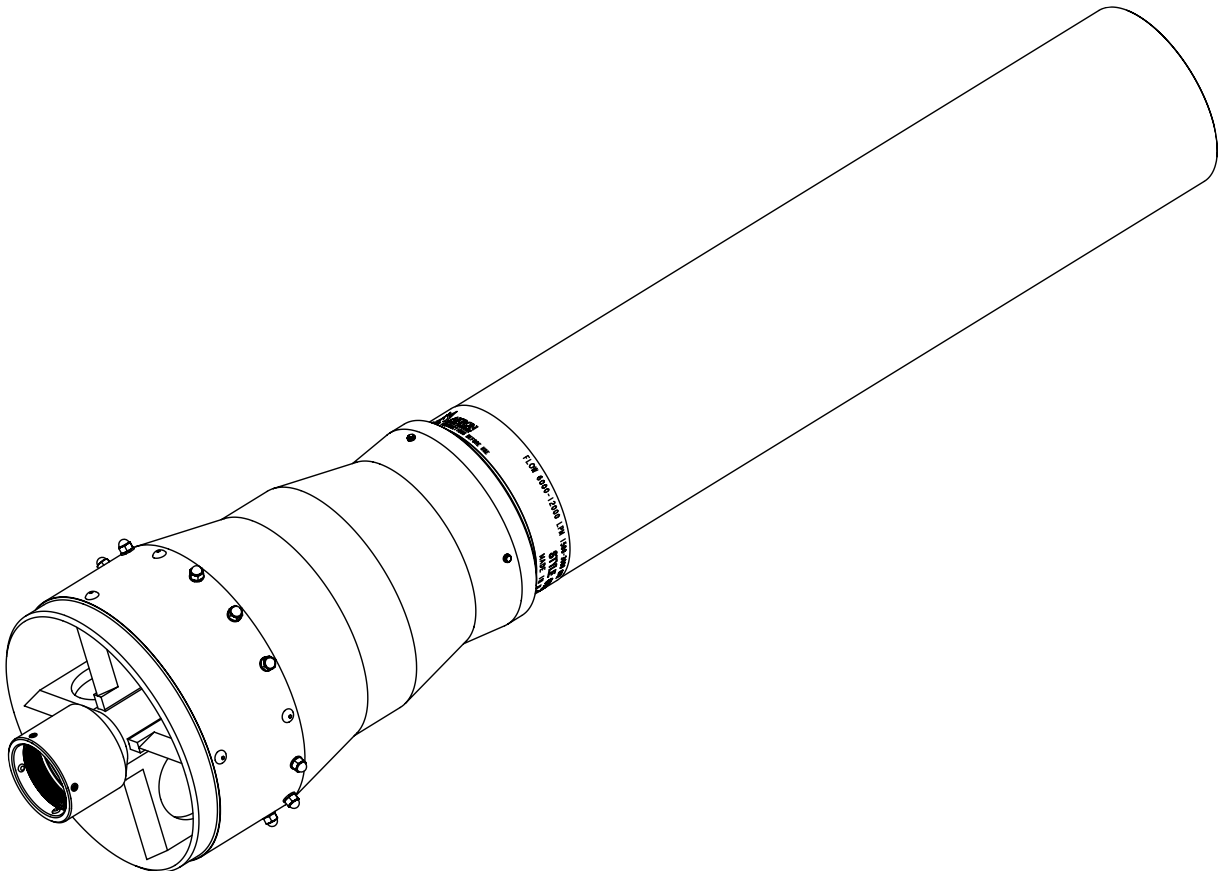




## STYLE 0730 AEROMASTER 12 FOAM TUBE OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating the AeroMaster12 Foam Tube Style 0730.





Read and follow the operating instructions before use.



For firefighting use only.

### Product Ratings

Flow Range: 6000 to 12000 LPM (1500 to 3000 GPM)

Rated Pressure: 10 BAR (150 PSI) @ monitor style 3000 inlet

Maximum Pressure: 18 BAR (250 PSI)

Reach:

Flow (LPM)	Flow Condition	Reach (m)		Maximum Height (m)
		Effective	Overall	
10000	Water	95	100	22.5 m @ 55 m from foam tube
12000	Water	100	105	NA
10000	Foam	NA	105	NA
12000	Foam	NA	100	NA

### Tools Required For Assembly

- Allen wrench (hex key) 1/8-in to secure foam tube set screws on to the baffle cap threads.

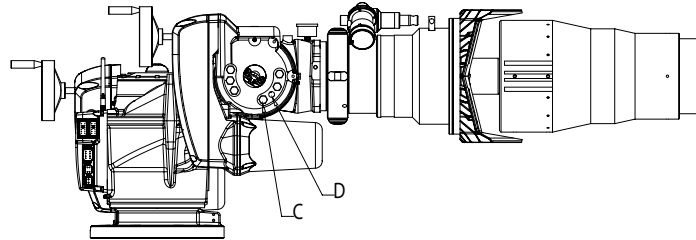
## Product Warnings

- ⚠ DANGER** • Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.
  - ⚠ WARNING** • Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.
  - ⚠ CAUTION** • Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
  - NOTICE** • Addresses practices not related to personal injury.
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- ⚠ DANGER** • Do not operate the style 3000 monitor and style 3700 nozzle with the attached style 0730 foam tube without first installing the gas spring provided with the foam tube.
  - ⚠ CAUTION** • The monitor style 3000 is capable of rotating in elevation farther than the gas spring can travel. Failure to insert stops in the appropriate locations may cause damage or failure of the gas spring and monitor.
  - ⚠ CAUTION** • The travel limit stop is intended to be a safety feature on the monitor in the event that the programmed soft stop would fail to limit travel. Continuous, repeated impact into the hard stop may cause damage or failure to the monitor.
  - ⚠ WARNING** • Ensure the foam tube is aimed in a direction that is safe, prior to flowing.
  - ⚠ WARNING** • Ensure the thread on the nozzle swivel is matched to the thread on the monitor style 3000.
  - ⚠ WARNING** • Ensure the foam tube spider is threaded onto the baffle cap until it contacts its stop and is secured by 4 set screws. Don't attempt to further tighten the spider once it contacts the baffle cap stop.
  - ⚠ WARNING** • When threading the foam tube onto the baffle cap users should be alert to pinch points in areas between the flat pattern ring and the foam tube.
  - ⚠ WARNING** • Charge all lines slowly to facilitate a controlled water pressure build-up during start-up. Open and close slowly. Rapid opening will produce a sudden thrust. Rapid opening and closing can cause water hammer. Have your monitor properly supported to control the reaction force created by the stream.
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- NOTICE** • For use with fresh water or standard firefighting foams only. Not recommended for use with salt water. After use with foam or salt water, flush with fresh water.
  - NOTICE** • The nozzle and foam tube are configured for optimum performance. Do not alter their assembly in any manner.
  - NOTICE** • Periodically, an unanticipated incident may occur where the foam tube is used in a manner that is inconsistent with standard operating practices and those listed in IFSTA. A partial list of potential misuses follows:
    - Operating above maximum rated pressure and flow.
    - Not draining, and allowing water to freeze inside the foam tube.
    - Dropping the foam tube from a height where damage is incurred.
    - Prolonged exposure to temperatures above +130 degrees F, or below -25 degrees F.
    - Operating in a corrosive environment.
    - Other misuse that might be unique to your specific firefighting environment.
  - NOTICE** • There are many signs that indicate foam tube repair is in order, such as:
    - Inoperable or difficult to operate controls.
    - Excessive wear.
    - Poor discharge performance.
  - Water leaks.
  - NOTICE** • If the tag on the foam tube is worn or damaged and cannot be easily read, it should be replaced.

## Installation

### Foam Tube

The style 0730 foam tube attaches to the style 3700 nozzle by threading the foam tube spider onto the nozzle baffle stem on the front of the nozzle. Thread the foam tube on to the nozzle until it contacts the stop and then tighten the 4 set screws around the outside diameter of the threaded socket. In order to facilitate installation, both the foam tube spider and the nozzle baffle stem have pilot features to avoid damage to the threads.



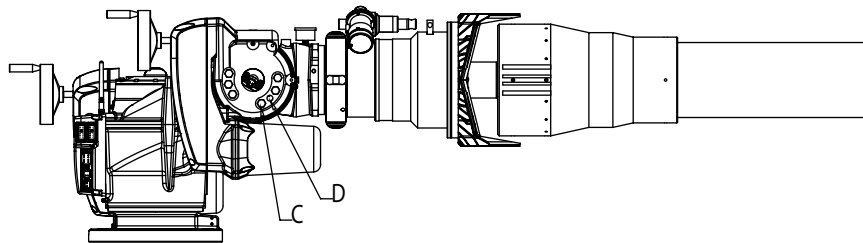
### Gas Spring

When a foam tube is added to the AeroMaster12 monitor style 3000, a gas spring must be added to the monitor to assist in lifting the additional weight of the foam tube. The electric elevation actuator is designed to work with the gas spring. If the foam tube is purchased separately from the monitor, the gas spring is supplied with the foam tube. If the monitor is purchased with a foam tube, the gas spring will be supplied with the gas spring assembled. The gas spring does not need to be removed if the foam tube is removed.

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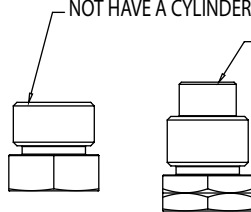
### Gas Spring Installation Steps

1. Ensure that there is not a hard stop screw in position "C" (+47°) or "D" position (70° Foam Tube Max) on the elevation stop. It is acceptable to have a plug in either position. (For all hard stop locations, reference figure 4 in monitor operating instructions).

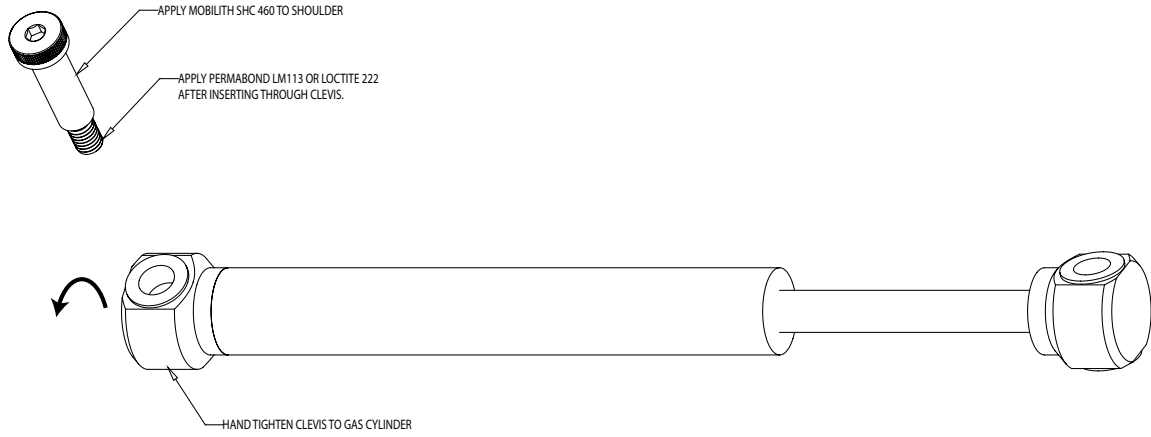


A PLUG IS MADE FROM POLYMER AND DOES NOT HAVE A CYLINDER ABOVE THE THREADS.

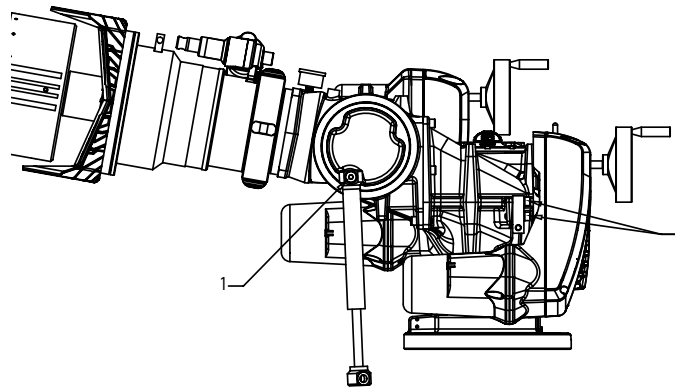
HARD STOP SCREW IS MADE FROM STAINLESS STEEL AND HAS A CYLINDER ABOVE THE THREADS TO STOP THE MONITOR TRAVEL.



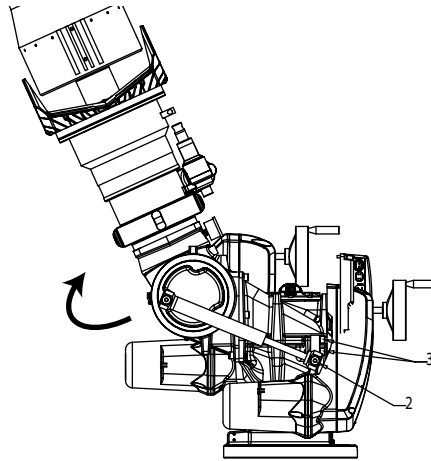
2. Manually tighten the clevis onto the cylinder end of the gas spring. Apply Mobilith SHC 460 to the shoulder of the shoulder bolt and insert it into the bushings of the clevis. Once the shoulder bolt is inserted through the clevis, apply Permabond LM113 or Loctite 222 to the threads of the shoulder bolt. See Figure 4 below.



3. Assemble the gas spring to the monitor (1) as illustrated in Figure 5 below. Loosely assemble the mounting block, washers, and bolts (2) to the monitor. Apply Permabond LM113 or Loctite 222 to the threads.

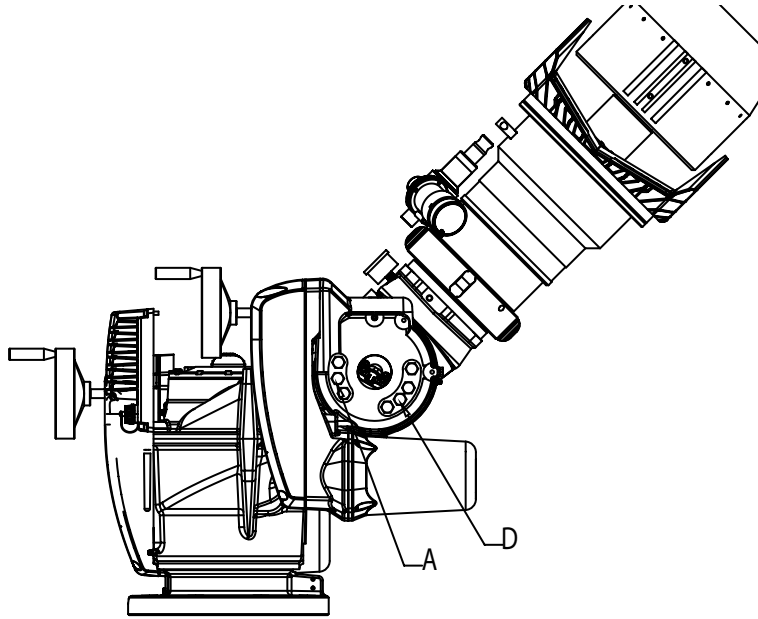


4. Manually tighten the clevis on the rod end of the gas spring.
5. Adjust the elevation (1) of the outlet elbow to about 70°. Apply Mobilith SHC 460 to the shoulder of the shoulder bolt. Loosen the clevis until the shoulder bolt is inserted through the clevis, apply PermaBond LM113 or Loctite 222 to the threads of the shoulder bolt. See Figure 6 below.



6. In order to align the free end of the gas spring to the threaded hole in the gas spring block, the rod end clevis will need to be loosened slightly, the elevation of the outlet may need adjusted slightly, and the gas spring block may need to be loosened slightly. While aligning the shoulder bolt to the hole in the gas spring block (2), adjust the elevation angle and adjust the clevis to tighten the shoulder bolt (2).
7. After the shoulder bolt is tightened, tighten the bolts that attach the gas spring block (3).
8. Reduce the elevation of the outlet to approximately 45°.

9. Insert stop bolts in positions "A" and "D". See Figure 7 below.



10. Set soft stops inside of the range of travel limited by the hard stop bolts.

### Maintenance

Under normal conditions, periodically flushing the foam tube with clean water and cleaning grit and dirt from around exterior moving parts will allow the foam tube to operate as designed.

Over time the seals and gaskets may need to be replaced. This can be accomplished by purchasing the appropriate Akron repair parts. Use qualified maintenance mechanics or return the foam tube to Akron Brass for repair.