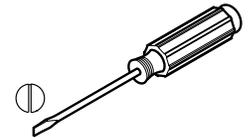
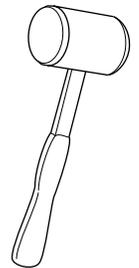


# Breton® - Pneumatic Cylinder Replacement

Models Affected: All 497 Pneumatics



Retainer Installation Tool



If you have a problem, question, or request, call your local dealer, or Steelcase Line 1 at 888.STEELCASE (888.783.3522) for immediate action by people who want to help you.

(Outside the U.S.A., Canada, Mexico, Puerto Rico, and the U.S. Virgin Islands, call: 1.616.247.2500)

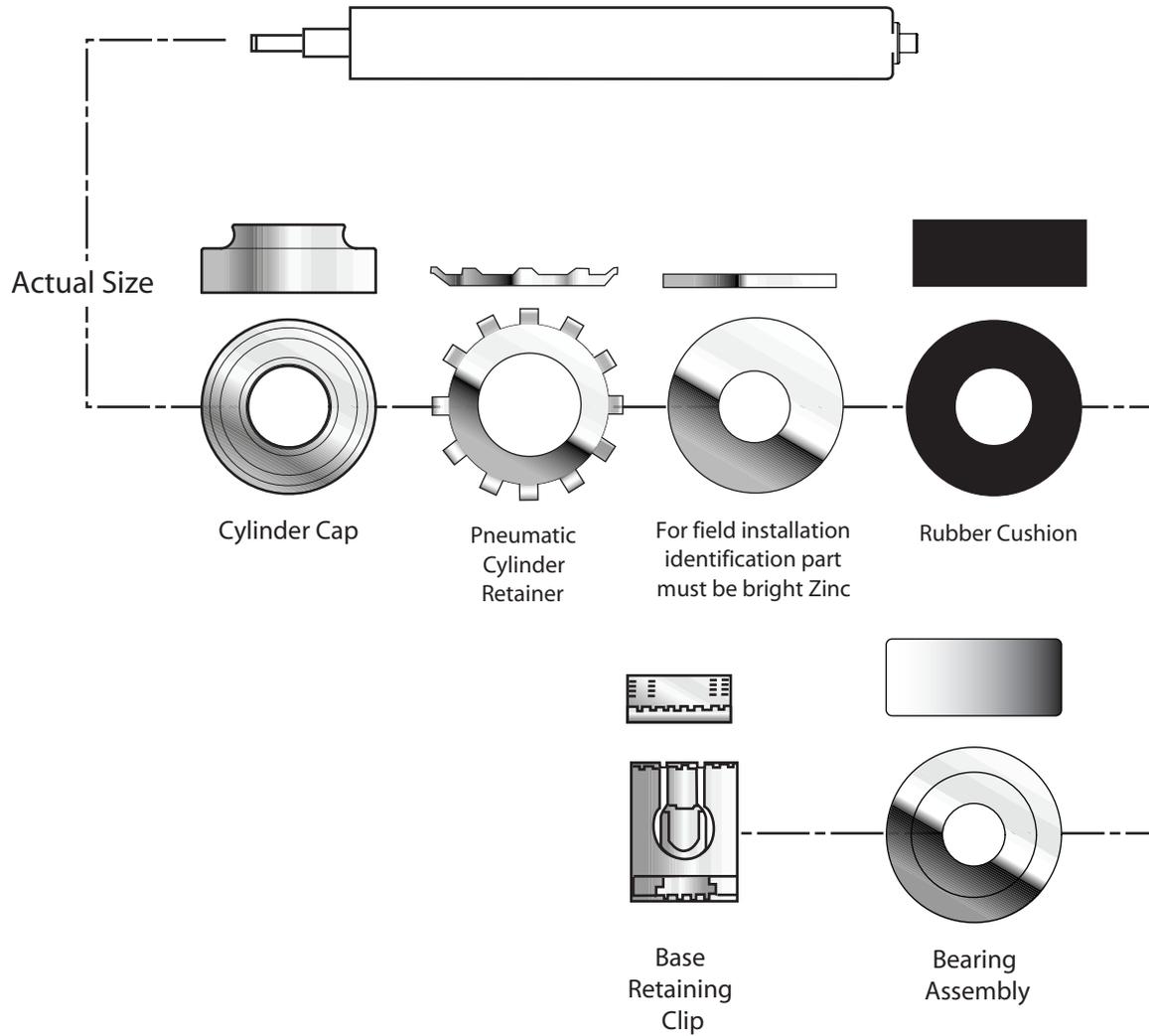
Or visit our website: [www.steelcase.com](http://www.steelcase.com)

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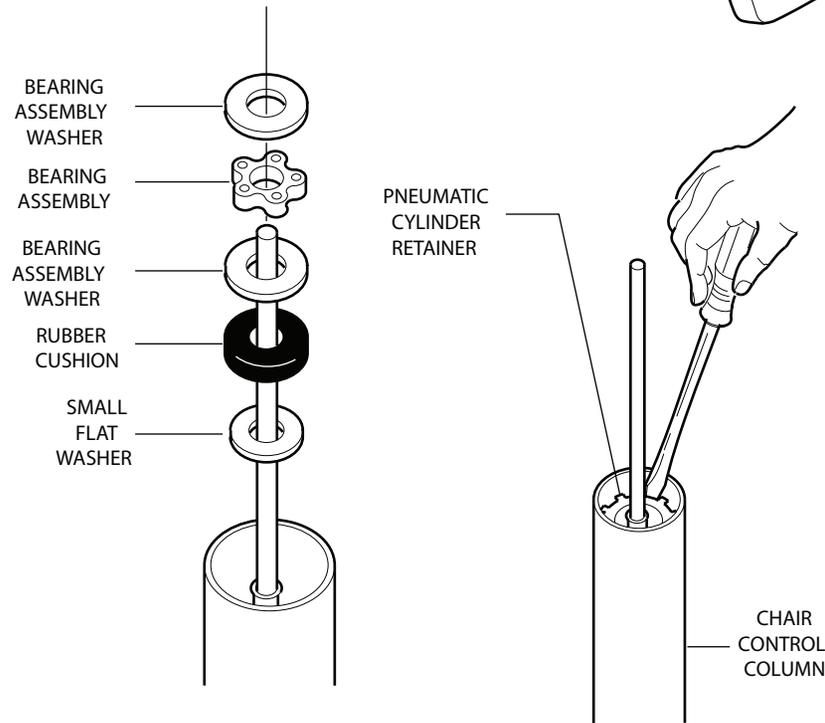
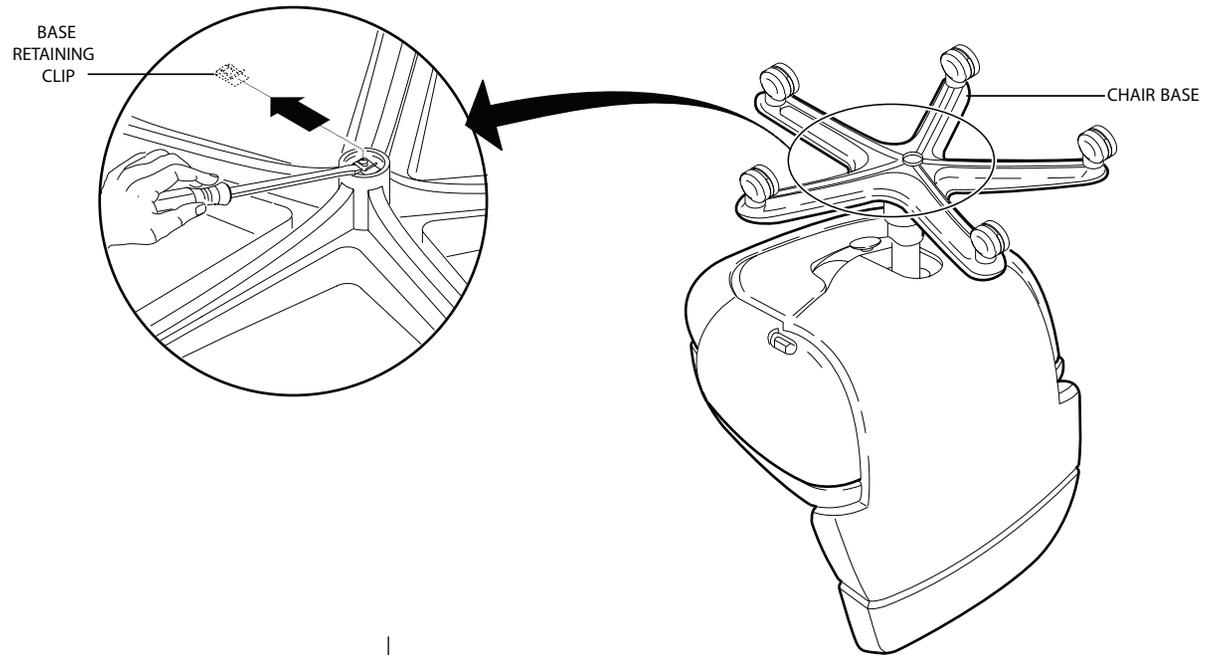
Grand Rapids, MI 49501  
U.S.A.

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Use the illustration to identify pneumatic cylinder replacement parts.



1. Turn the chair upside down and place on a clean padded work bench.
2. Remove and discard base retaining clip from the bottom of the chair base and carefully lift base up and off the chair.
3. Remove and discard (2) bearing assembly washers, bearing assembly, rubber cushion, and small flat washer from the end of the pneumatic cylinder. NOTE: Small flat washer may be resting against the bottom of the pneumatic cylinder.
4. Using the flat bladed screwdriver pry the pneumatic cylinder retainer out from the bottom of the chair control and discard.
5. Remove the cylinder from the chair control by pulling it up and out of the column. NOTE: Be careful not to move or shake the chair while the cylinder is out of the chair control. This may dislodge the actuation system, causing the height adjustment mechanism to malfunction after re-assembly.



6. Insert the new cylinder into the chair control column with the end that has the pin going in first. Then slide the cylinder cap over the cylinder.
7. Install a new cylinder retainer in the chair control column using the retainer installation tool. Use the following procedure:
  - A) Make sure projections on the outside edge of the pneumatic cylinder retainer are angled upward when placing it over the cylinder rod.
  - B) Push the pneumatic cylinder retainer into the chair column and against the plastic retainer guide at the bottom of the cylinder using the retainer installation tool.
  - C) After installation of the retainer there must be no movement of the cylinder up and down when it is pushed or pulled. Side to side movement is acceptable.
8. Apply grease to bearing assembly and column. Install new pneumatic cylinder components (Furnished with new cylinder) on the cylinder rod in the order listed.
9. Reinstall base on chair and snap base retaining clip into place. Return chair to up-right position.

