

## VACUUM CYLINDER TESTING

- 1 At the vacuum cylinder, remove both the hose clamps and vacuum lines (note the location of the lines).
- 2 Using your finger or thumb, create a seal on the end of either one of the two fittings.
- 3 Try to extend and retract the actuating rod of the cylinder. If a good seal was created over the fitting port, the cylinder will extend about ½" and then stop due to a vacuum being created inside the cylinder.
- 4 Move your finger over to the other fitting of the vacuum cylinder, create a seal.
- 5 Repeat step 3.
- 6 If the cylinder seals are holding vacuum (including note 1), reinstall the vacuum lines and clamps. Consult Pacbrake service procedure L5223, solenoid cleaning found at [www.pacbrake.com](http://www.pacbrake.com) under the header "Technical Literature".

### ADDITIONAL NOTES:

- 1 If the exhaust brake does not operate correctly only when the outside air temperature is either hot or cold, the above test should be performed at close to those temperatures as extreme temperatures can effect the vacuum seals.
- 2 If the cylinder actuating rod can be extended or retracted fully in and out of the cylinder without being limited by vacuum, the cylinder has an internal seal failure and must be replaced. Order Pacbrake cylinder replacement kit part number C11898.
- 3 When checking the vacuum cylinder for seal failure, if the main butterfly shaft does not rotate freely. Remove the lower e-clip and then the clevis pin, rotate the butterfly shaft checking for binding and seizing within the bore. If binding or seizing is noticed, contact Pacbrake Technical Service @ 1-800-663-0096.