

RAM



2. Check for presence of vacuum at actuator diaphragm on the axle tube. If the vacuum is present, proceed to step 4. If vacuum is not present, proceed to step 3.
3. Check for hard, cracked or missing vacuum lines. Replace vacuum lines as needed. Start engine and place transfer case in 4-wheel drive. Check for vacuum at actuator diaphragm. If the passenger side (right) axle still does not engage, proceed to step 4.
4. Check the diaphragm on the vacuum actuator. If it appears to be frozen or not working correctly, replace with one of the following:
 - OEM unit P/N 25031740
 - **Or install 4x4 Posi-Lok P/N PSL 400 (See App. Guide)**

SECTION 3

POSSIBLE AXLE DAMAGE

1. Unbolt the actuator housing from the axle tube by removing the four (4) bolts [Fig. 1]. Inspect the fork for damage or wear [Fig. 2]. If there is excessive clearance between the fork and the actuator shaft, it should be replaced with OEM P/N 4137727. Inspect the wear pads on the tips of the fork for wear [Fig 2]. If they are worn, replace them with OEM P/N 4137731.
2. Slide the collar side to side over the axle splines to confirm free movement [Fig 3]. (You may have to rotate one axle slightly for spline alignment.) If it does not slide freely, it is possible that there is damage or burrs on the collar and/or axles. The collar can be replaced with OEM P/N 4778548. Axle part numbers will vary based on the year and GVW of the vehicle.

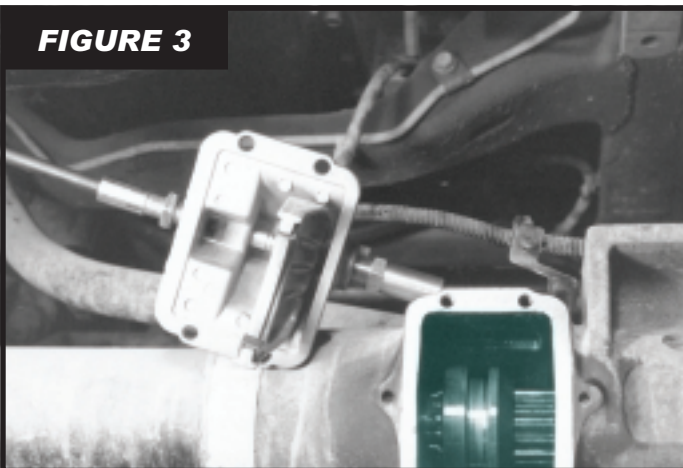
Note: *If a failing actuator has caused spline damage, the axle(s) and shift collar must be replaced before the new actuator or 4x4 Posi-Lok is installed.*

SECTION 4

PARTIAL ENGAGEMENT OR DISENGAGEMENT

Lack of vacuum, failing diaphragm, failing actuator (see section 1 or 2), and/or burred axle splines or shift collar (see section 3), may be factors in partial engagement or disengagement.

FIGURE 3



HOW 4X4 POSI-LOK WORKS

The failure prone vacuum actuator is replaced with the cable operated 4x4 Posi-Lok system. The vacuum actuator is removed from the axle tube and the 4x4 Posi-Lok assembly is attached and the cable routed to a convenient location under the dash. Engaging the transfer case and pulling the Posi-Lok T-handle will slide the shift fork and collar to connect the freewheeling right axle to the driven intermediate axle. Both front wheels are now engaged and pulling the vehicle. 4x4 Posi-Lok can be easily installed in one to two hours with basic hand tools.

DID YOU KNOW: Posi-Lok will give you 2-wheel drive low range.