RANGER BRAKE

TECH BULLETIN: IMPROPERLY CAGING POWER SPRING

DAMAGED CENTER ADAPTER

- Excessive tightening of the T-bolt hex nut during the power spring caging process can damage internal components and break the T-bolt. These types of damage can allow the full force of the caged power spring to instantaneously slam against the center adaptor and cause additional damage. Please refer to Figure 1.


FIGURE 1

SOLUTION:

- Below are two methods to properly cage the power spring.
- **Option A (with air pressure):**
  1. Pressurize parking port to 100-120 PSI
  2. **Caution**: do not exceed 120 PSI
  3. Manually Tighten T-bolt nut to 25-30 ft•lbs torque. **DO NOT USE IMPACT WRENCH**
  4. **Caution**: Applying torque above 30 ft•lbs may damage chamber
  5. Note: Power Spring should now be fully caged.
  6. Release air pressure slowly to -0- PSI
  7. Refer to Figure 2.
- **Option B (without air pressure):**
  1. Manually Tighten T-bolt nut to 25-30 ft•lbs torque. **DO NOT USE IMPACT WRENCH.**
  2. Note: Torque will increase slightly as hex nut is rotated.
  3. STOP rotating T-bolt nut at 25-30 ft•lbs. Torque is achieved.
  4. **Caution**: Applying torque above 30 ft•lbs may damage chamber.
  5. Note: power spring should now be fully caged.
  6. Please refer to Figure 3.

FIGURE 2

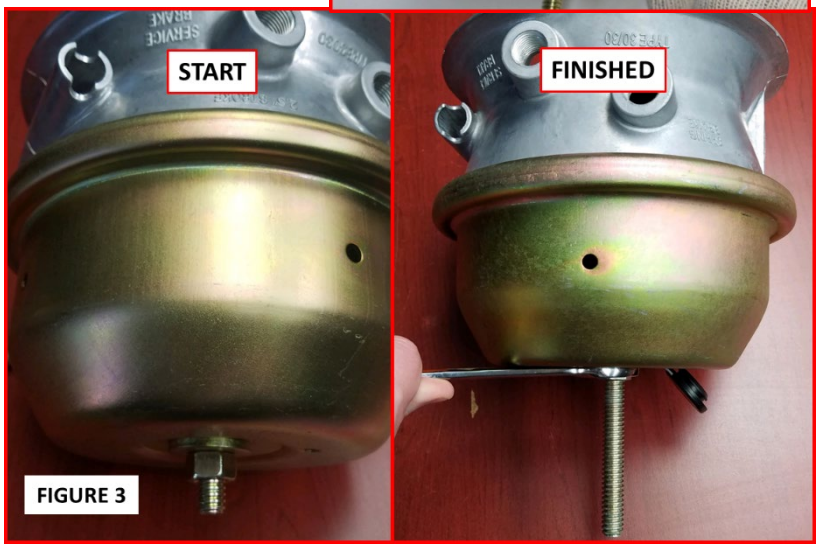

FIGURE 3