1) Inspect load springs, walking beam end bushings, rebound straps, transverse and lateral torque rods for looseness or excessive wear.

2) If new load springs are to be installed, do so before proceeding any further.

**NOTE:** Tire removal is not necessary to replace auxiliary load springs.

3) Remove old auxiliary load springs.
   - Chock the front wheels of the vehicle.
   - Remove (3) ½” flanged head bolts from the saddle that retain the old auxiliary load spring.
   - Remove the old auxiliary spring from the load spring bracket.
     *(If necessary raise the frame to remove any load from the old auxiliary spring.)*

4) With empty vehicle sitting on a level surface, measure the distance on both sides between the under-side of the saddle and the top of the load spring shim.

5) Add or remove load spring shims *(ATRO p/n MS50-29791)* as needed to adjust the previously measured dimension to approximately 3 ¾”. Between 3 1/2” (more control) and 4” (softer ride) is acceptable.
   - To add or remove load spring shims remove (2) 1/2” flange nuts and bolts, add or remove load spring shim(s) and reinstall ½” flange bolts and nuts tightening to 90-105 lb-ft torque.
     *(See Figure 1)*

**NOTE:** Inspect existing load spring shim plates for wear and replace, if necessary. There MUST be at least (1) auxiliary shim per side. If adding additional plates, there must be at least (3) threads protruding through the locking flange nut.
6) Raise vehicle frame until there is sufficient room to install new ATRO Progressive Load Springs (LP50-24778-One on each side.)

7) Install the new ATRO Progressive Rate Spring (LP50-24778) onto load spring bracket.

8) Insert (3) ½” flanged head bolts through the rebound support angle assembly, load spring spacer and the saddle. Tighten to 90-105 lb-ft torque. *(See Figure 2)*

9) Secure with (3) ½” flanged lock nuts and tighten to 90-105 lb-ft torque.

10) Lower the frame and remove chocks.