

Date, 1-8-2021

Subject : Threaded Pin and Bushing

Issue; Worn Spring Shackle, REF LV6779 FSPR 34723

Western Star Trucks built in 2020 with threaded pins and bushings have been found with loose shackles on the rear of the steering axle suspension. The pins are seizing from lack of lube causing the shackle to rotate on the pin.

Instructions;

At Ryder

1-To determine if the truck has an issue, during maintenance, as normal service procedure, raise the front of the truck by the frame rails and lube the front and rear spring pins of the steering axle, if the lube passes each side of the pin and bushings in all 6 pin locations. Code the truck inspection as no problem found. If the grease will not purge both sides of the pins in all 6 locations, note the location and schedule the truck to ATG Freightliner.

At ATG Freightliner

2-Follow safety standards from section, truck is parked on level surface with wheels chocked and the parking brakes are set. Raise the front of the truck to unload the steering axle spring pins and bushings making sure to secure the truck with safety stands.

3-Remove the shackles and clamps at the front of the springs measuring the pins on both sides of the bushings protruding to insure the spring pins are centered in the bushings, (grease fittings on the pins should be to the outside of the frame rail) grease the pins and insure the lube passes on both sides of the pins and bushings. If pins and bushings do not flow grease, replace as needed.

4-Re-assemble the shackles and clamps for the springs but do not torque, loosen the steering axle u bolts only where the springs are loose to shift to align the shackles.

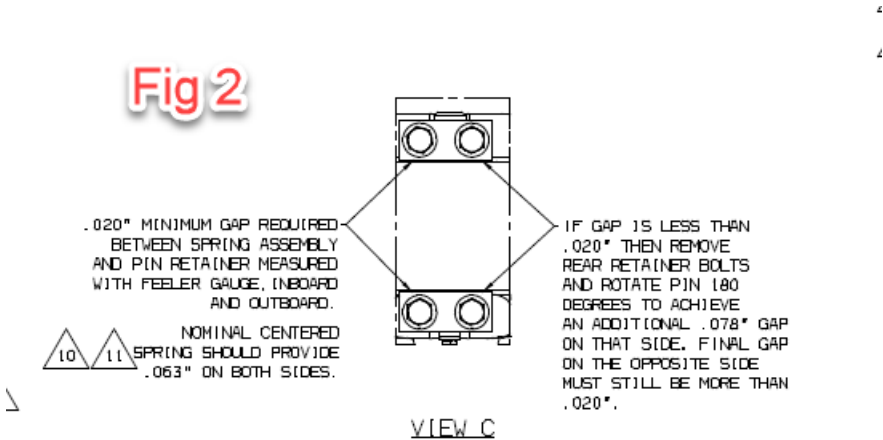
5-With the shackles aligned on the rear of the springs and the front spring pin centered in the clamps,) torque the clamps for the spring shackles (shackle bolts torque to 45 lbft +- 10) The front clamps following the installation instructions below (See Fig 2).

6-Torque the steering axle U Bolts (See Fig 1). While the suspension is raised, grease all 6 pins and bushings to confirm grease flows both sides of the pins and bushings.

7-Lower the truck returning to service.

Axle U-Bolt (or clamp bolt) High Nuts (Tighten in a diagonal pattern as shown in Fig. 1 .)	5/8–18	Stage 1: Hand-tighten Stage 2: 60 (81) Stage 3: 180–230 (245–313)
	3/4–16	Stage 1: Hand-tighten Stage 2: 60 (81) Stage 3: 200 (271) Stage 4: 270–330 (367–449)
	7/8–14	Stage 1: Hand-tighten Stage 2: 60 (81) Stage 3: 200 (271) Stage 4: 420–500 (571–680)
	1–14	Stage 1: Hand-tighten Stage 2: 60 (81) Stage 3: 200 (271) Stage 4: 520–600 (707–816)

Fig 1



Claim from the dealer will be filed as policy, OF code.