

SERVICE BULLETIN

PROPER SHACKLE BOLT INSTALLATION



PURPOSE: To identify proper installation of suspension hardware on double eye and slipper suspensions.

Safety Precautions

Before making any modifications or repairs to a vehicle, make sure that the vehicle is properly supported with lifting or support devices that have the correct capacity.

CAUTION

Never depend on the axles and jacks alone to support the vehicle when making repairs or modifications. A vehicle that is not adequately supported can fall and cause severe injuries or death.

CAUTION

Personal protective equipment must be worn when making vehicle repairs or modifications. This includes, but is not limited to, safety glasses, steel toe boots and gloves.

Models Affected

D3, D5, D7, DE, DG, DL, DM, DT, DT1, DV, DX

Suspension hardware affected: AX9001104 BOLT SHACKLE 9/16"x3" 7/16THRD; ax4113-7 Bolt .5625" x 3.5

OVERVIEW:

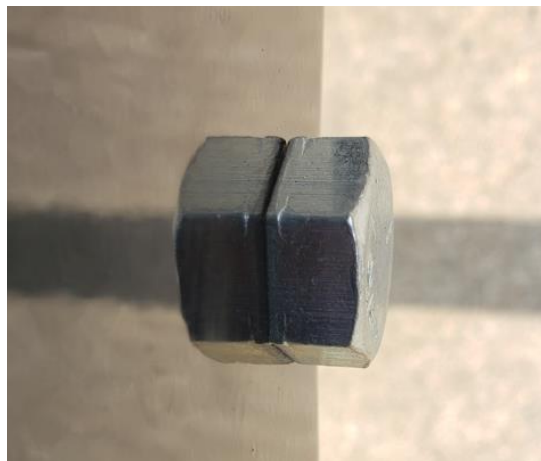
This bulletin pertains to all affected models produced between Jan 1st 2026 – Mar 13th 2026. Due to a recent incident where suspension hardware was not properly torqued, we are requesting that all suspension hardware for the affected models be inspected prior to sale. This inspection should include a visual inspection, to ensure the bolts are properly seated in the hangers and that all hardware is present & properly tightened. Pictorial examples and torque specs and procedures are shown below.

EXAMPLE OF BOLT SEATED AGAINST HANGER (BOTH BOLT SIZES):

Poorly Seated Bolt



Correctly Seated Bolt

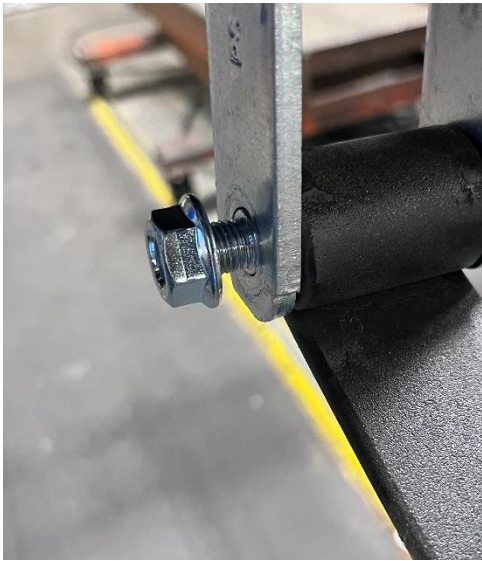


If the bolt is not fully seated in the hanger it is not necessarily an indication of the suspension being loose. If this condition is noted, the head of the bolt will need to be properly seated by using a small single hand sledgehammer. The tightness of the nut should be checked afterwards in the manner shown below.

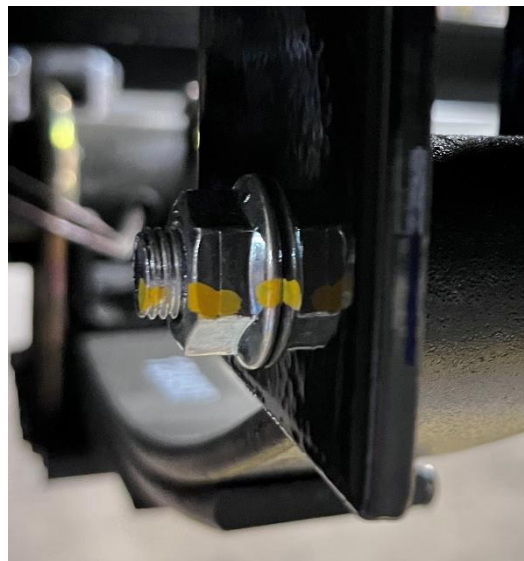
EXAMPLE OF NUT FULLY TIGHTENED ON SHACKLE BOLT:

9/16 SHOULDER BOLT WITH 7/16" THREADS (10K GVWR & DOWN):

INCORRECT



CORRECT



INSPECTION PROCESS:

Whenever loose suspension (shackle bolt/nut) is suspected, inspect the torque of the nut using the following method:

- Using a 13/16" wrench, hold the head of the bolt.
- Using a torque wrench (13/16" socket) set to 40 ft. lb. tighten the nut until the set torque value is reached.
- Repeat this process with all the shackle bolts.

SUSPENSION FASTENER TORQUE VALUE:

Item	Torque (Ft. Lbs.)	
	Min	Max
Shoulder Type Shackle Bolt with 7/16" threads	30	50

9/16" Bolt (14K GVWR & UP):

INCORRECT



CORRECT



9/16" Bolt (14K GVWR & UP) Cont.:

INSPECTION PROCESS:

Whenever loose suspension (shackle bolt/nut) is suspected, inspect the torque of the nut using the following method:

- Using a 13/16" wrench, hold the head of the bolt.
- Using another 13/16" wrench or socket and ratchet, securely tighten the locknut until it sits flush, usually ensuring at least two threads extend past the nut (see image above).
- Repeat this process with all the shackle bolts.

Non shoulder type with 9/16" threads	
Shackle Bolt	Snug fit only. Parts must rotate freely. Locking nuts or cotter pins are provided to retain nut-bolt assembly.
Spring Eye Bolt	
Equalizer Bolt	