

Inspection, Replacement and Maintenance Guidelines for TRW 8000 Series Sockets

Socket Wear Inspection

1. Make sure the stud is seated tightly in the steering arm taper, and the nut is tight.
2. With vehicle **engine on**, lightly rock the steering wheel while checking for looseness in any threaded joint, or any movement of the stud nut. Any looseness requires repair.
3. With the **engine off** and wheels straight ahead, push and pull the socket in and out by hand in the direction of the ball stud. If no movement is detected, the socket is operable. Any movement detected by hand requires replacement of the socket.

WARNING Do not use a wrench or other object to apply leverage when inspecting sockets. Applying leverage can give skewed results, and damage components. Component damage may ultimately result in loss of steering control.

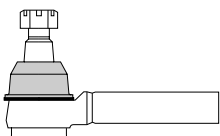
Lubrication Guidelines (on-highway vehicles only)

TRW Ball sockets should be lubricated with **#2 NLGI extreme pressure, lithium-based, moly-filled, heavy duty grease**, at regular intervals recommended by the vehicle manufacturer. General guidelines for lubrication are listed below, but each owner has the ultimate responsibility for making sure the sockets are lubricated appropriately for the vocation of the vehicle.

With Boot Seal

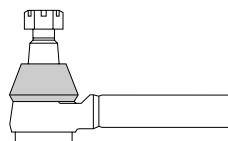
Severe Service - Lubricate socket every oil change or 10,000 miles, whichever comes first.

Normal Service - Lubricate socket every-other oil change or 20,000 miles, whichever comes first.



With Sliding Seal

Normal Service - Lubricate socket every oil change or more frequently when the vehicle is subjected to harsh environments.



Damage Inspection at Lubrication Intervals

Any form of tear or improper sealing requires seal replacement.

Steering arm to ball stud mating condition - Any rocking motion between the two mating parts requires replacement of one or both. After replacing either part, perform the Socket Wear Inspection to see if the mating part also needs to be replaced.

Seal replacement instructions are included with replacement parts. (Boot seal replacement bulletin #LNK-100, Sliding seal replacement bulletin #LNK-103.) The procedure for assembling the socket to the mating arm is as follows:

Assembly of Socket to Mating Arm

1. Clean and dry the tapered opening of the mating arm and the tapered section of the ball stud.
2. Insert the tapered section of the ball stud through the larger opening of the mating arm.
3. With hand pressure, attach the ball stud to the arm until it locks into position. No rocking motion is allowed between the stud and arm at this position.
4. Attach the slotted hex nut into the threaded portion of the ball stud. Torque the nut to the minimum value recommended by the vehicle manufacturer. If the cotter pin cannot be installed, tighten the nut to the next slot. Do not back off the nut when minimum torque is reached.