



**Power**  
to **DELIVER**

A M E R I C A N   A X L E   &   M A N U F A C T U R I N G



# AAM Pinion Seal Kit Installation Guide

AAM Power To Deliver Pinion Seal Kit – 74020005  
GM 7.6 / 8.0 [Rear Axle](#) – Kit includes new pinion  
seal, sleeve, collapsible spacer, pinion nut and

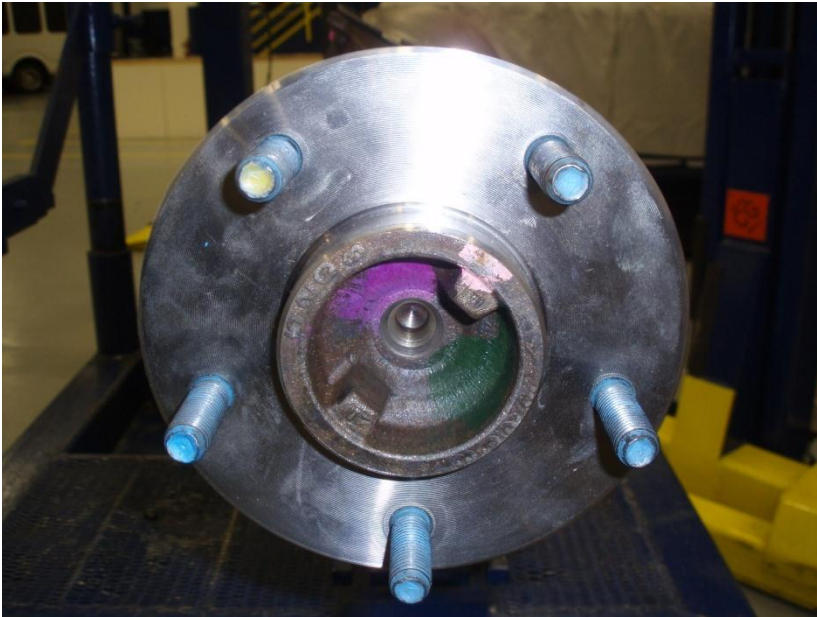


## Tools Needed

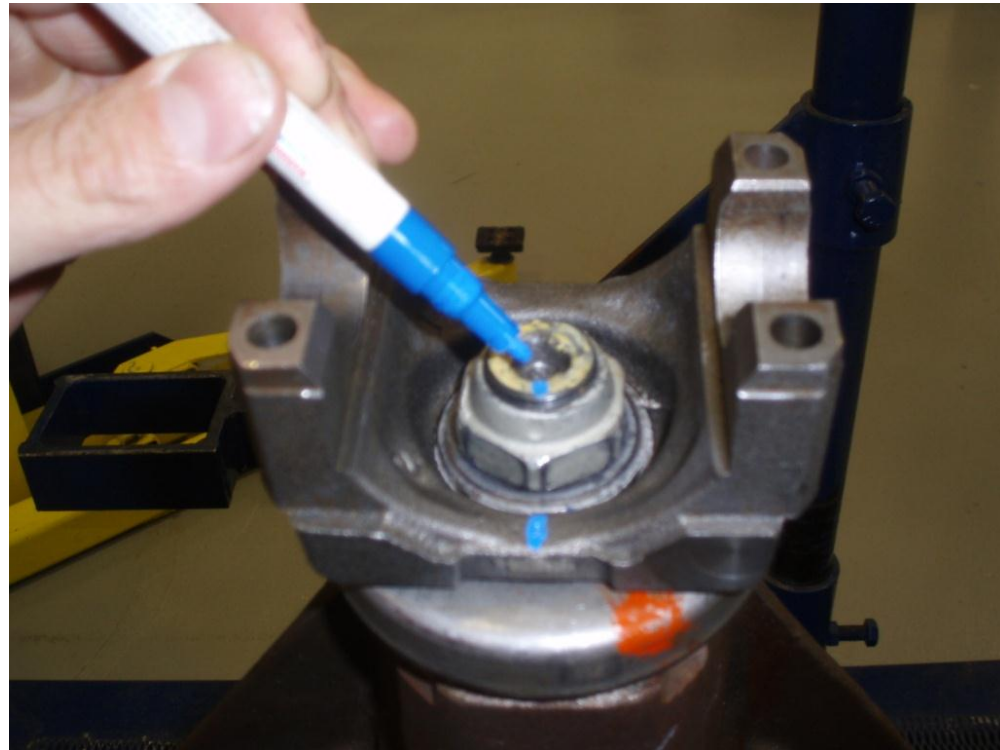
1. Pinion Yoke Holder
2. Pinion Seal Installer
3. Seal Remover (not pictured)
4. 1/2" Drive Socket Wrench
5. 1 1/4" Socket
6. 1" Socket
7. Hammer
8. Punch
9. Paint Marker
10. Spline Sealant
11. Lb. In. Torque Wrench
12. 5/16" x 24 tap and wrench
13. Shop press
14. Vise
15. Solvent Tank / Parts Washer



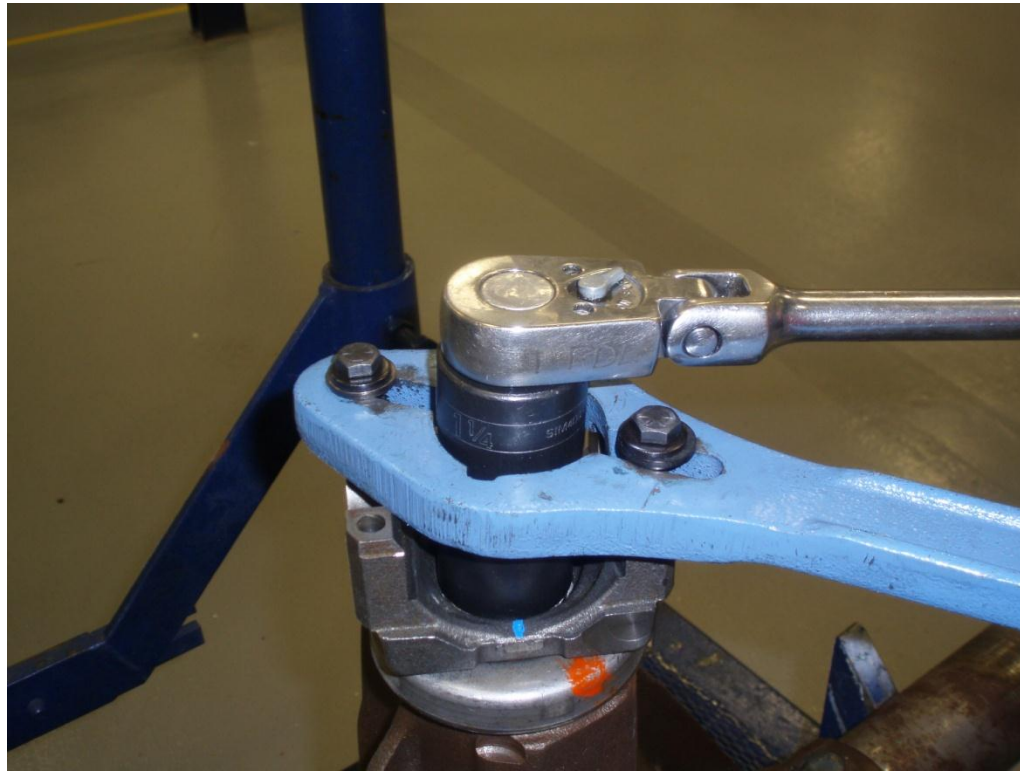
Remove brake drums or calipers. Using lb. in. torque wrench, measure and record amount of torque required to turn the pinion. This measurement will be used at reassembly.



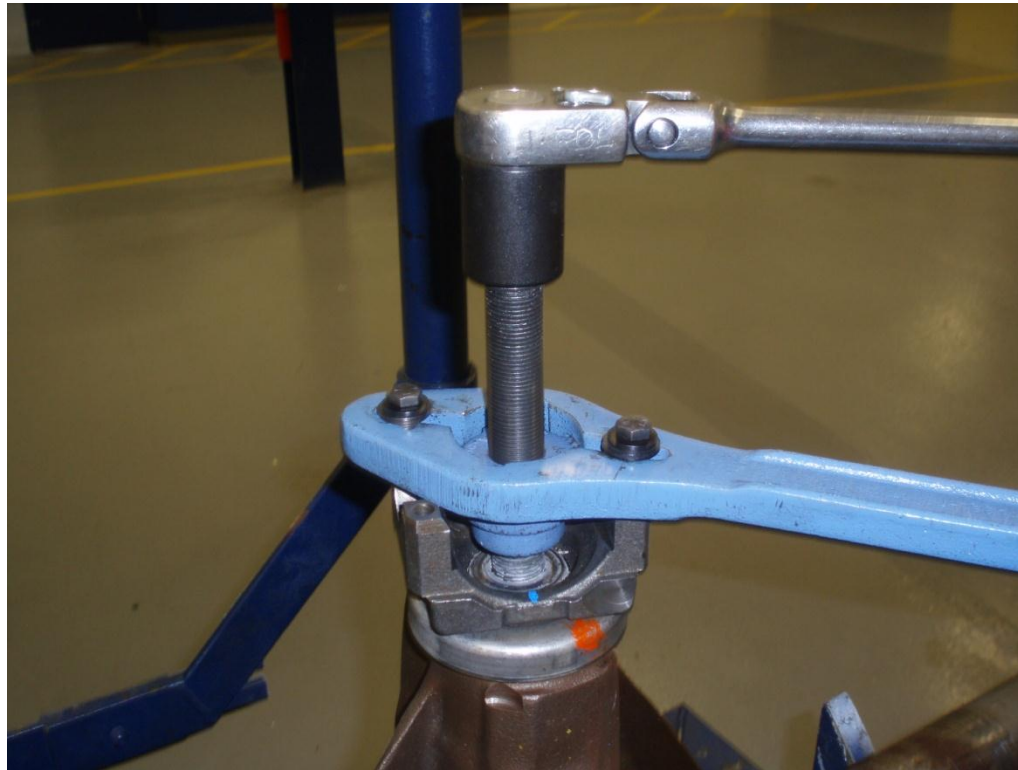
Using a paint pen or punch, place an alignment mark between the yoke and the pinion stem for reassembly. By marking and maintaining the relationship of the two components, system balance and NVH of the axle assembly when manufactured will be preserved.



Install pinion yoke holder tool and remove pinion nut and washer.



## Remove pinion yoke



Pry seal from housing using seal removal tool. Use care when removing to avoid damage to seal surface. Have a drain pan ready as some fluid may escape during removal.





Support yoke under dust shield and press off the shield and sleeve as an assembly.



After sleeve and shield have been removed, chase strap bolt threads with a tap, clean flange in solvent tank and dry with compressed air prior to reassembly.



Reassembly is done in two steps. Press dust shield on 1<sup>st</sup> and sleeve on 2<sup>nd</sup>. Be sure to press each component until it seats on the yoke.

Step #1



Step #2



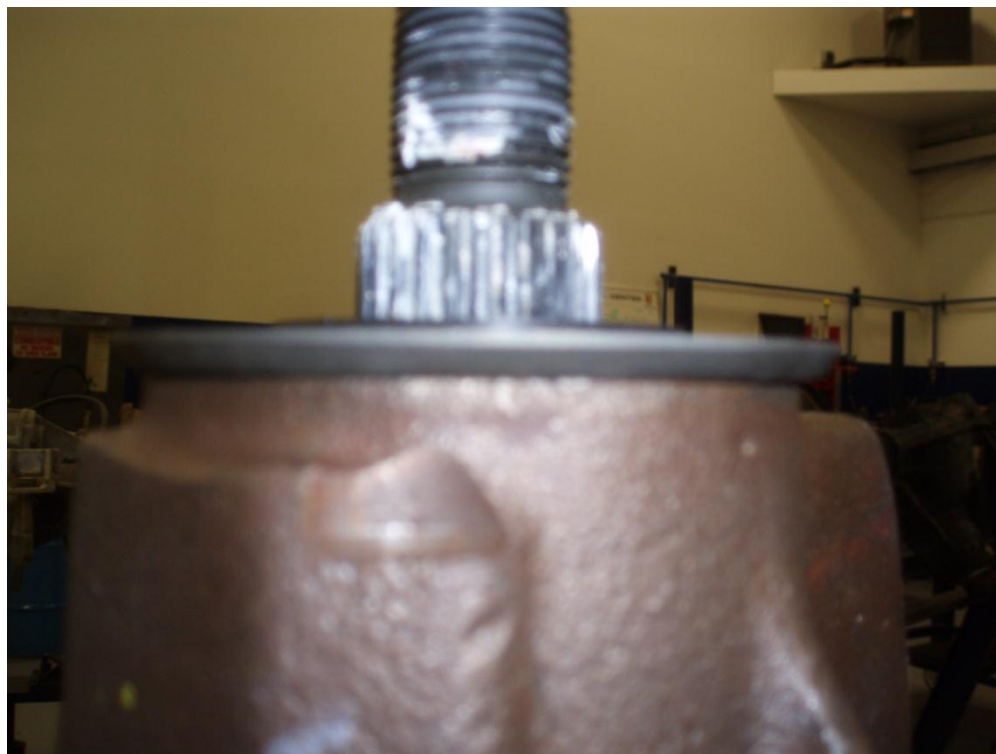
Note: Depending on application, some sleeves will seat below end of hub.



Obstructed vents can contribute to pinion seal leaks. Be sure to inspect and clear axle vent tube of any debris or foreign matter with compressed air or mechanics wire.



Place new pinion seal in bore, and seat by tapping installation tool with a soft faced hammer. Seal flange should sit flush with housing when properly installed.



Place a small bead of spline sealant around leading edge of splines. Using a soft faced hammer, lightly tap yoke until threads are exposed on pinion stem. If yoke can not easily be installed using this method, yoke should be installed with a press. Be sure to observe correct orientation of marks made at removal between pinion stem and yoke.



Place new nut and washer from kit on pinion stem, install yoke holding tool and tighten nut until all play is removed. Rotate yoke several times to seat bearings. Measure rotating torque with lb. in. torque wrench and compare to measurement recorded at removal. Tighten nut until rotating torque is 3-5 lb. in. greater than torque at removal. If torque is exceeded, a new collapsible spacer (included in kit) must be installed.



After pinion seal replacement is complete, remove fill plug, check lube level and top off as needed.

