REMOVAL AND INSTALLATION

Primary LOP	Related LOP	Description	Skill Level	Skill Category
02 12 10 01	-	Seal, drive pinion oil All others	1 - Semi Skilled	3
02 12 15 01	-	Flange, front axle propeller shaft - Replace	2 - Skilled	3
03 50 20 01	-	Seal, drive pinion oil All Others	1 - Semi Skilled	3

Special Tools:

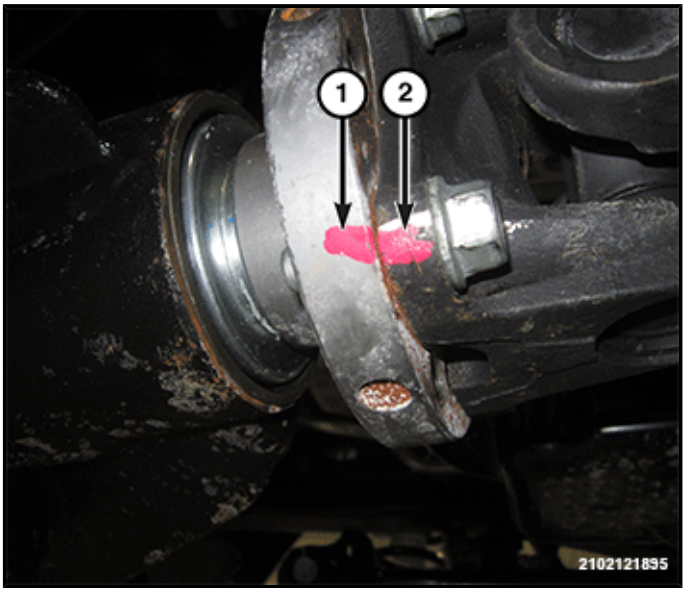
Click here to launch the form to order any tools you need.

	C-3281 - Holder, Flange **Originally Shipped In Kit Number(s) 9202, 9202A-CAN, 9202CC, 9299, 9299CC, 9299CC, 9300A-CAN.**
	C-452 - Puller, Companion Flange
	7794-A - Remover, Seal **Originally Shipped In Kit Number(s) 6645.**
	C-4171 - Driver Handle, Universal **Originally Shipped In Kit Number(s) 9202, 9202A-CAN, 9202CC, 9299, 9299CC, 9299CC, 9300A-CAN.**
	9684 - Installer, Seal **Originally Shipped In Kit Number(s) 9656.**
	2054200030 - Installer, Pinion Flange

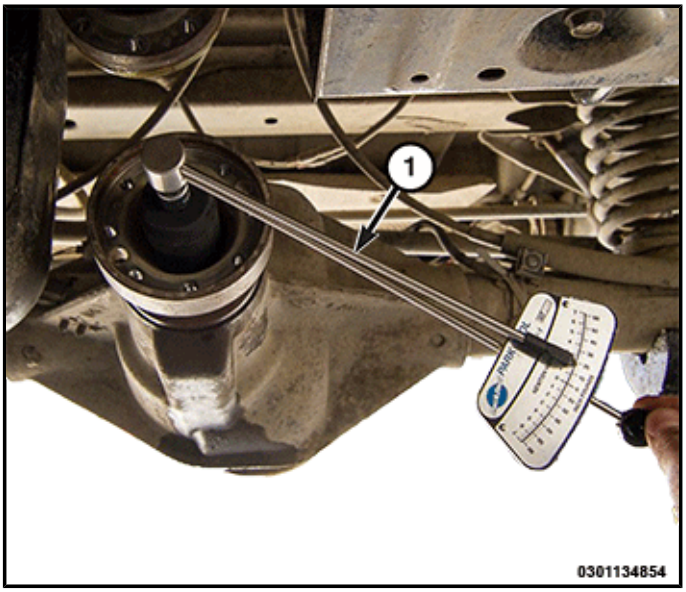
REMOVAL

1. Raise and support the vehicle (Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure).

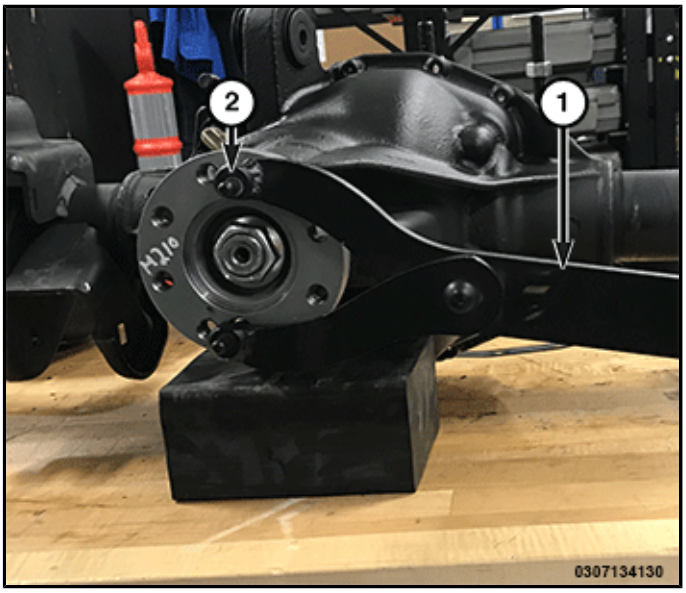
2. Mark the front driveshaft flange (2) and pinion flange (1) for installation reference.
3. Remove the front driveshaft (Refer to 03 - Differential and Driveline/Propeller Shaft/Removal and Installation).
4. Remove the brake calipers to prevent drag (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/CALIPER, Disc Brake, Front/Removal and Installation).
5. Rotate the pinion gear three or four times and verify it rotates smoothly.



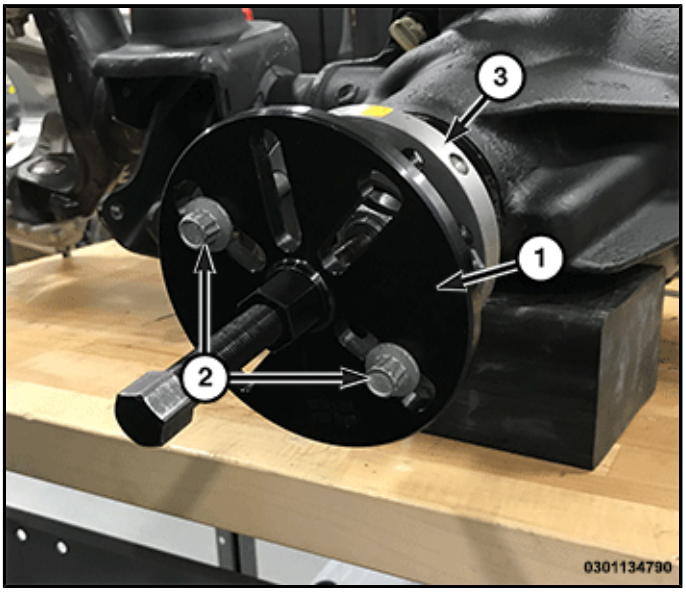
6. Record Pinion Torque To Rotate (PTTR) with an inch pound torque wrench (1) and record the value for installation reference.



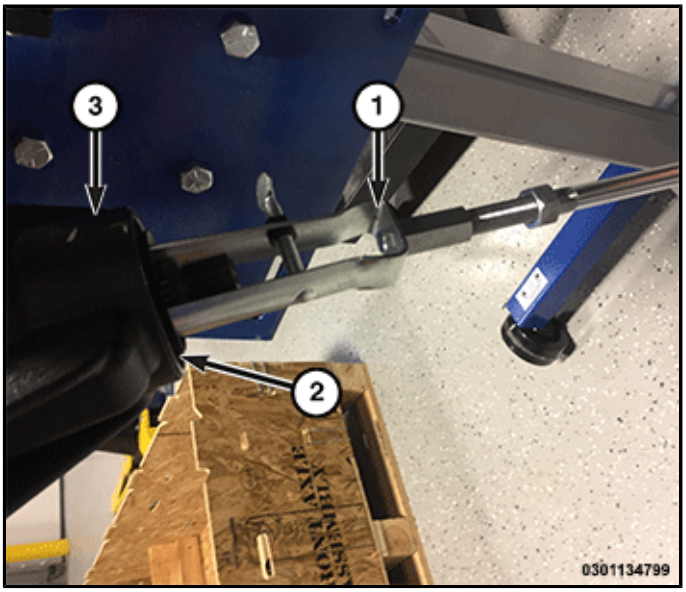
7. Hold the pinion flange (2) using the C-3281 (1) and remove the pinion nut.
8. Mark a reference line across the pinion shaft and flange for installation reference.



9. Remove the pinion flange (3) using the C-452 (1).

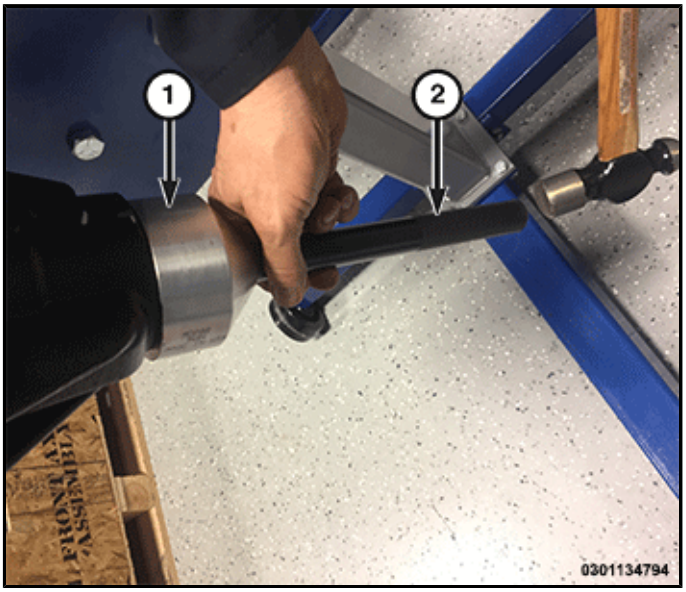


10. Remove the pinion seal (1) using Remover, Seal 7794-A and a slide hammer.

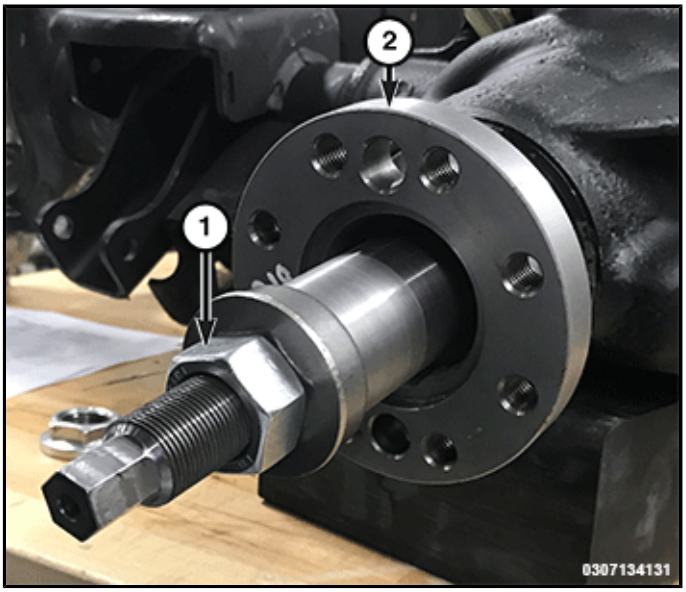


INSTALLATION

1. Apply a light coating of gear lubricant on the lip of pinion seal. Install the **NEW** pinion seal using the C-4171 (2) and the Installer, Seal 9684 (1).

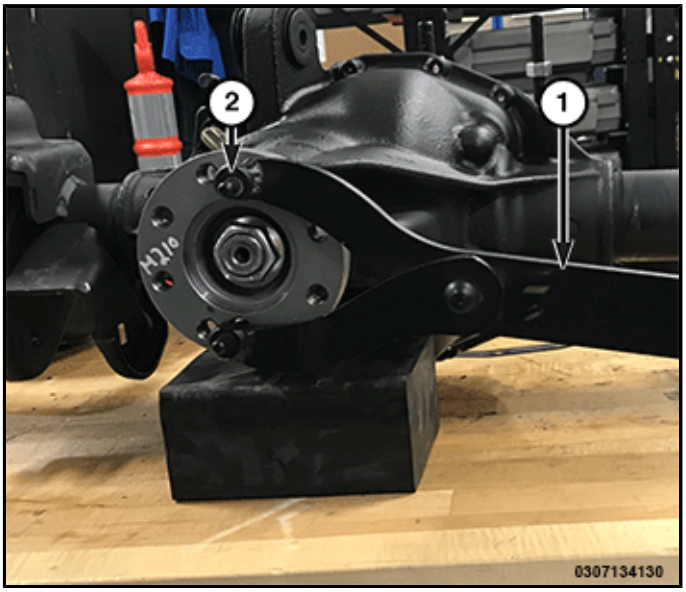


2. Place the pinion flange on the pinion shaft with the reference marks made during removal aligned.
3. Install the pinion flange (2) using the Installer, Pinion Flange 2054200030 (1).



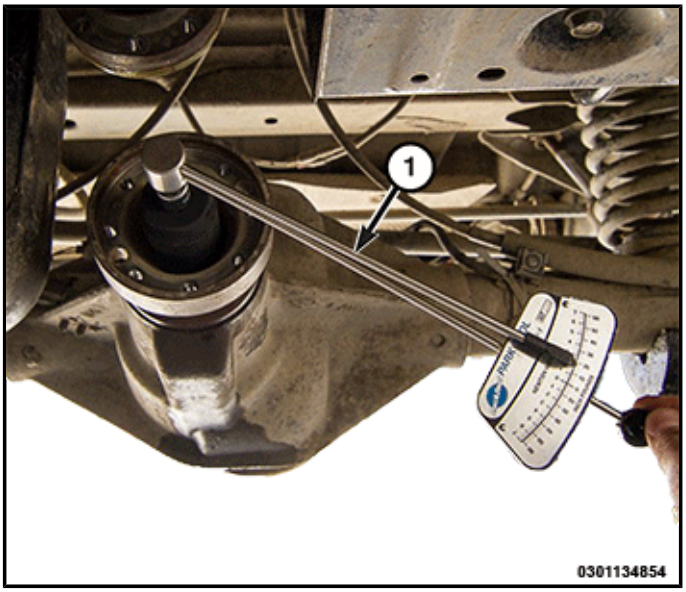
4. Install a **NEW** pinion nut.

5. Hold the pinion flange (2) using the C-3281 (1) and tighten the pinion nut to the proper (Torque Specifications).



6. Measure the Pinion Torque To Rotate (PTTR) with an inch pound torque wrench (1). PTTR is recorded reading plus 0.56 N·m (5 in. lbs.). If torque to rotate is low, tighten the pinion nut in 6.8 N·m (5 ft. lbs.) increments until torque to rotate is achieved.

CAUTION: If maximum tightening torque of 542 N·m (400 ft. lbs.) is reached before torque to rotate is achieved, the collapsible spacer may have been damaged. Never loosen pinion gear nut to decrease pinion gear bearing rotating torque and never exceed specified preload torque. Failure to follow these instruction may result in damage.



7. Install the driveshaft (Refer to 03 - Differential and Driveline/Propeller Shaft/Removal and Installation).
8. Install the brake components (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/CALIPER, Disc Brake, Front/ Removal and Installation).
9. Check and add differential fluid if necessary (Refer to 04 - Vehicle Quick Reference/Capacities and Recommended Fluids/Specifications).