

03 - Differential and Driveline/Rear Axle - M220/BEARING, Axle Shaft/Removal and Installation

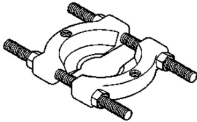
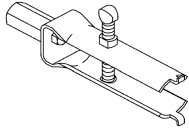
REMOVAL AND INSTALLATION

Labor Operations: Click to hide the list of LOPs associated with this procedure

Primary LOP	Related LOP	Description	Skill Level	Skill Category
03200506	-	Bearing, axle shaft (semi-float) axle All other axles-Right or left	2 - Skilled	3
03200507	-	Bearing, axle shaft (semi-float) axle All other axles-Right or left	2 - Skilled	3

Special Tools: Click to hide the list of tools used in this procedure

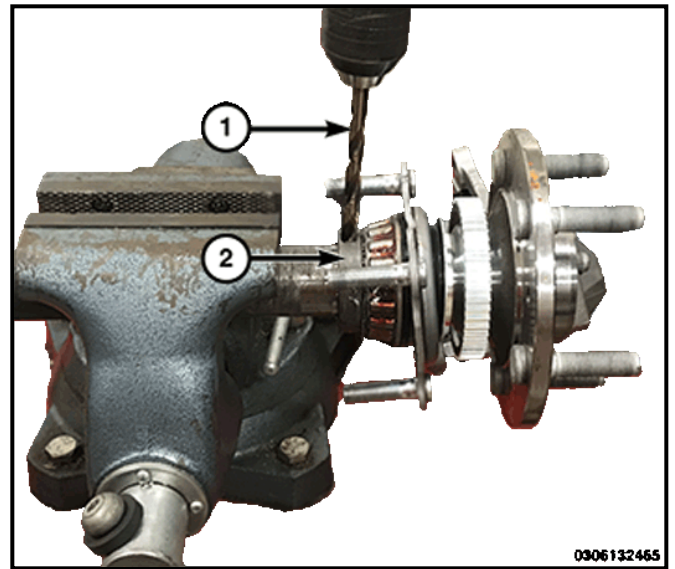
[Click here to launch the form to order any tools you need.](#)

	<p style="text-align: center;">1130 - Splitter, Bearing/Gear</p> <p style="text-align: center;">Originally Shipped In Kit Number(s) 6745, 6947, 6949, 9202, 9202A-CAN, 9202CC, 9299.</p>
	<p style="text-align: center;">9664 - Remover, Bearing Cup</p> <p style="text-align: center;">Originally Shipped In Kit Number(s) 9675, 9685, 9695.</p>

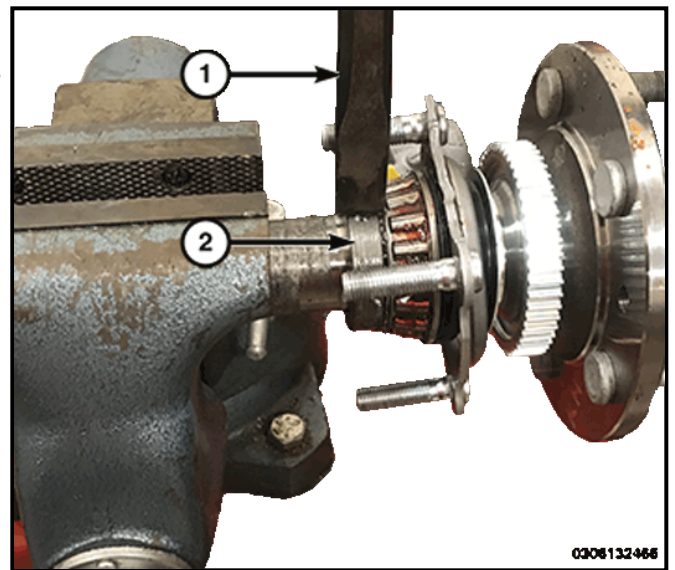
REMOVAL

1. Raise and support the vehicle (Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure) .
2. Remove the tire and wheel assembly.
3. Remove the brake caliper and rotor (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/ROTOR, Brake/Removal and Installation) .
4. Remove the parking brake shoes (Refer to 05 - Brakes, Base/Parking Brake/SHOES, Parking Brake/Removal and Installation) .
5. Remove the axle shaft(s) with the backing plate from the vehicle (Refer to 03 - Differential and Driveline/Rear Axle/SHAFT, Axle/Removal and Installation) .
6. Remove the axle shaft ring (2) by staking it with a center punch and drilling (1) the axle shaft ring.

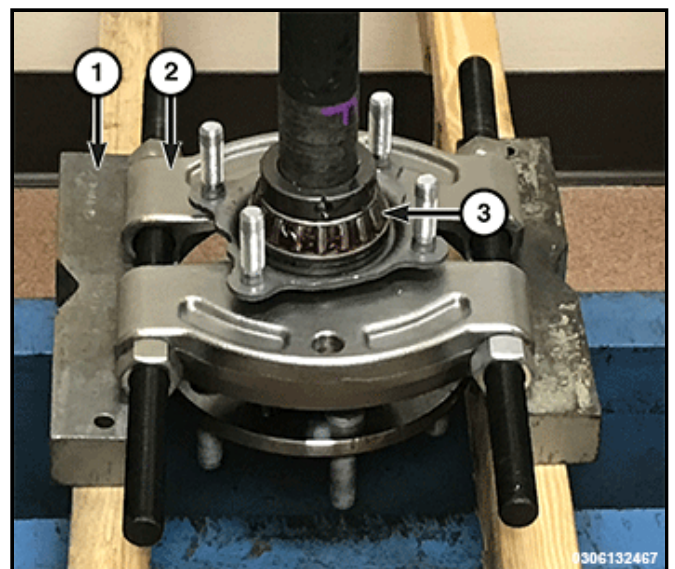
NOTE: Be careful not to drill into the axle shaft. Mark the drill bit with tape or paint to set a depth limit.



7. Split the axle shaft ring (2) with a chisel (1) and remove the ring from the axle shaft.

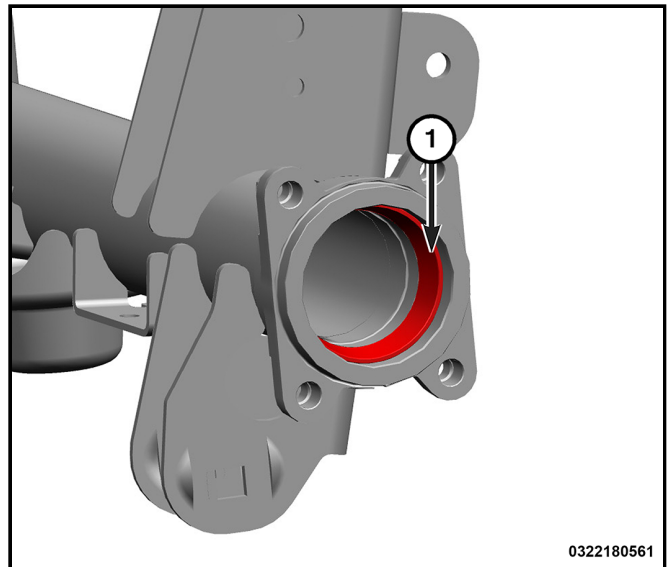


8. Remove the bearing using the bearing splitter (2) 1130 and a press. Position the splitter (2) between the axle shaft retainer plate and tone ring and press the assembly off shaft.



9. Remove and **DISCARD** the axle shaft ring, bearing, and seal from the axle.

- Using Remover, Bearing Cup 9664 and a slide hammer, remove the bearing race (1) from the axle housing.



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INSTALLATION

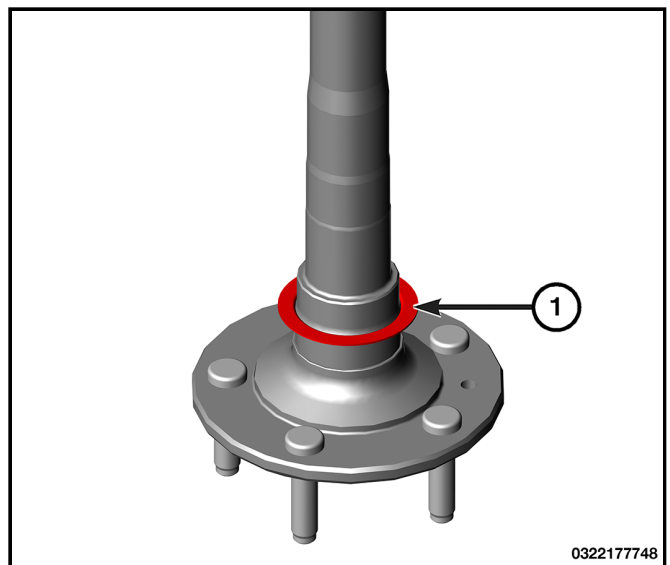
NOTE:

Inspect the axle shaft retaining plate, if the plate is bent or warped replace the plate.

NOTE:

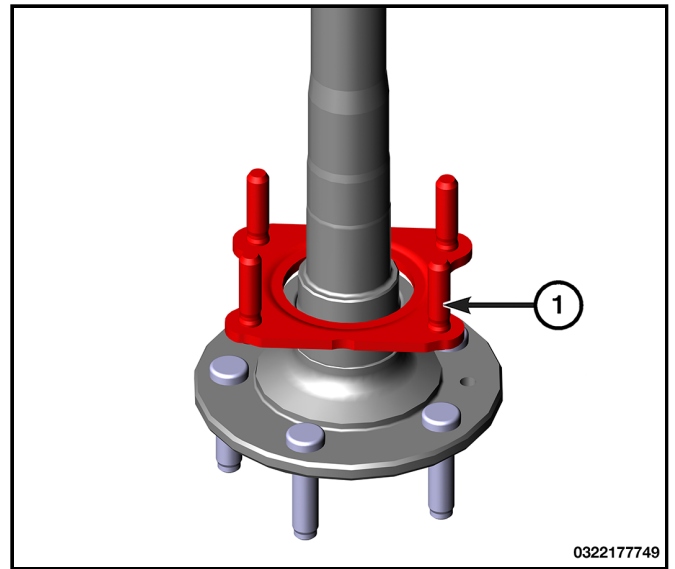
Clean the surface of the axle shaft where the axle seal lip rides before installing the axle shaft seal.

- Install the seal dust shield (1) on the axle shaft.

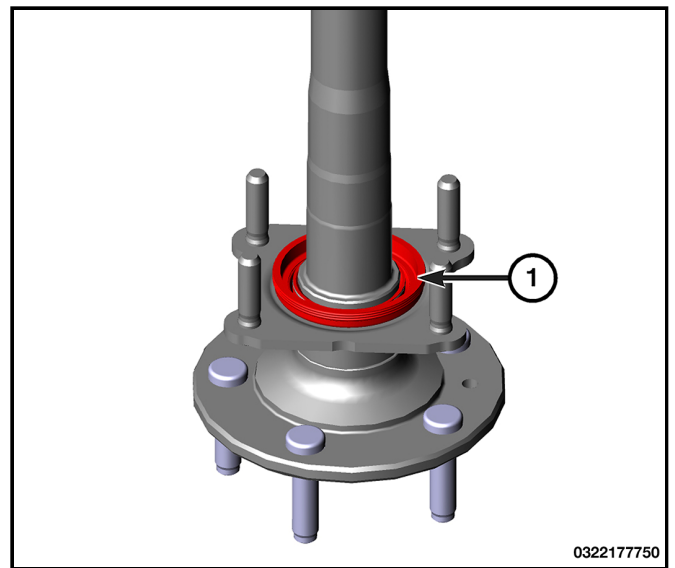


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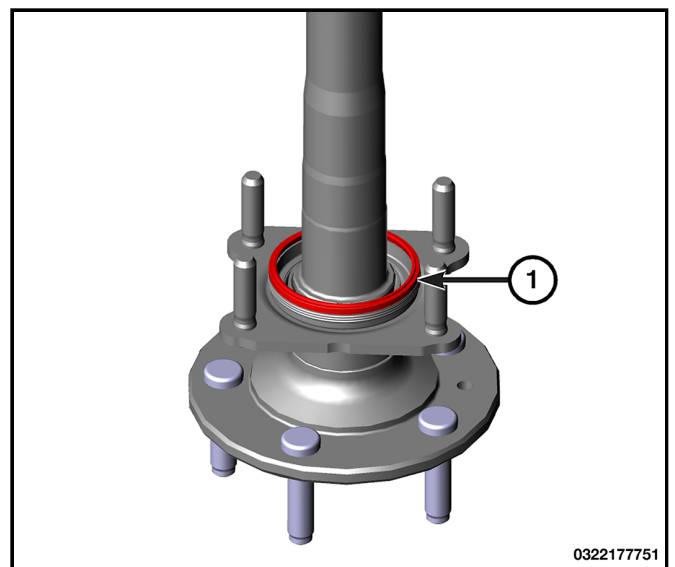
- Place the axle shaft retaining plate (1) on the axle shaft.



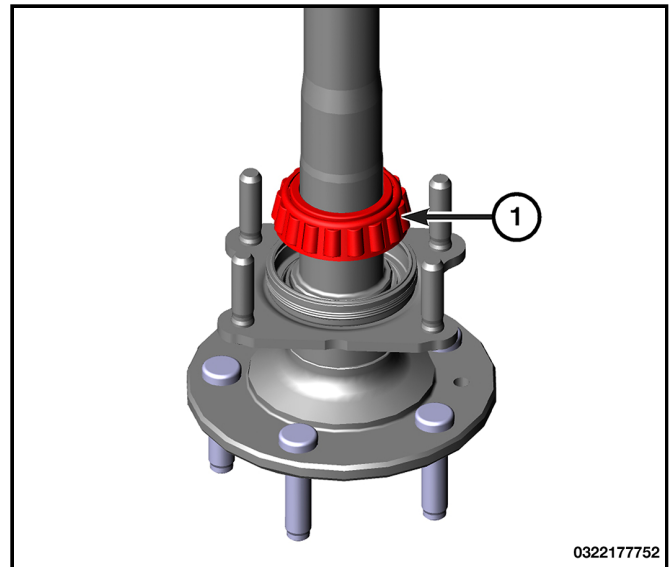
3. Install a **NEW** axle seal (1) on the axle shaft.



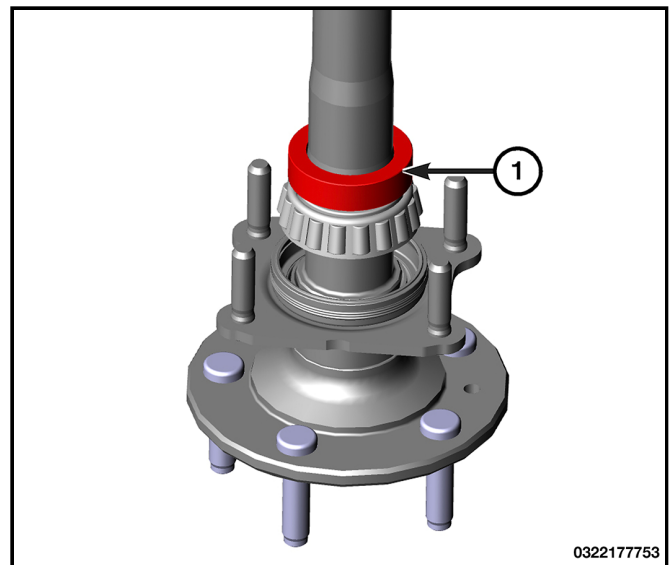
4. Install the axle seal spacer (1) on the axle shaft.



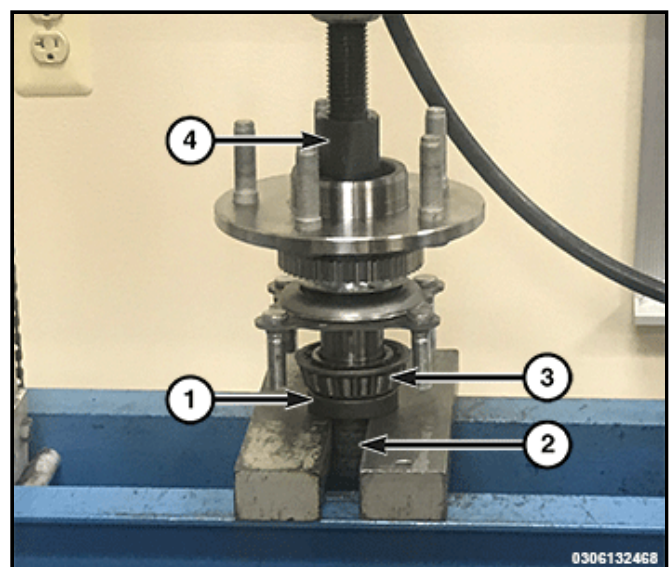
5. Place a **NEW** axle bearing (1) on the axle shaft.



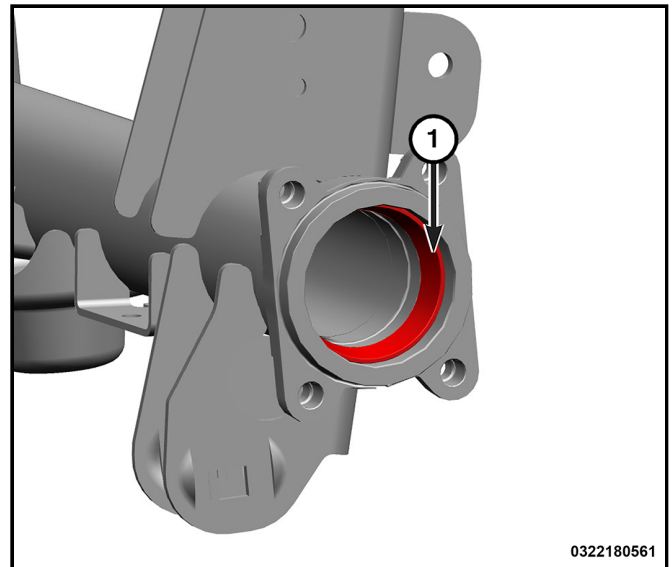
6. Place a **NEW** axle shaft ring (1) on the axle shaft.



7. Using a suitable press, press the axle shaft ring (1) and axle shaft bearing (3) onto the axle (2).



8. Install the bearing race (1) in the axle housing.



9. Install the axle shaft (Refer to 03 - Differential and Driveline/Rear Axle/SHAFT, Axle/Removal and Installation) .
10. Install the parking brake shoes (Refer to 05 - Brakes, Base/Parking Brake/SHOES, Parking Brake/Removal and Installation) .
11. Install the brake caliper and rotor (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/ROTOR, Brake/Removal and Installation) .
12. Install the tire and wheel assembly.
13. Top off the rear differential fluid (Refer to 04 - Vehicle Quick Reference/Capacities and Recommended Fluids/Specifications) .
14. Remove the support and lower the vehicle.