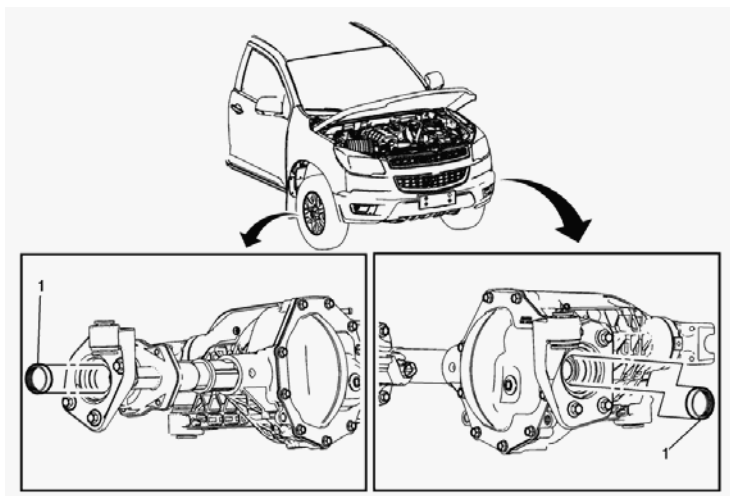


2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Front Wheel Drive Shaft Bearing Replacement

Callout

Preliminary Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the appropriate (right or left) wheel drive shaft from the vehicle. Refer to Front Wheel Drive Shaft Replacement.
3. Remove the appropriate (right or left) front wheel drive shaft seal. Refer to Front Wheel Drive Shaft Seal Replacement

Front Drive Axle Bearing

Procedure

1. Using the *GE 23907-1* hammer and the *DT 29369-1* remover, remove the front wheel drive shaft bearing.
2. Using the *DT 8092* Driver Handle and the *DT 45233* installer, install the front wheel drive shaft bearing.

Special Tools

1

- *DT 8092* Driver Handle
- *DT 29369-1* Bushing and Bearing Remover
- *DT 45233* Differential Bearing Adjuster Installer
- *GE 23907-1* Slide Hammer

For regional equivalent tools, refer to Special Tools.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
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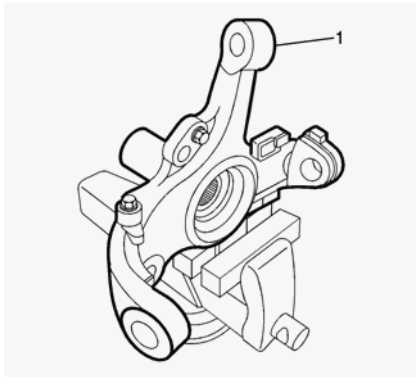
Special Tools

- CH 50786 Seal Installer
- DT 29369-1 Bearing Remover
- EN 45000 Seal Remover
- GE 8092 Universal Driver
- GE 23907 Slide Hammer
- J 36838 Bearing Installer

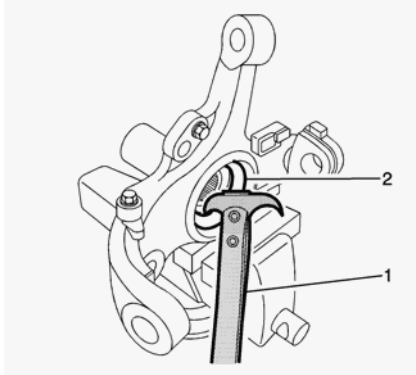
For regional equivalent tools, refer to Special Tools.

Removal Procedure

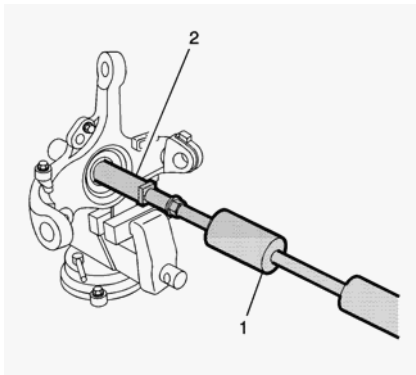
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the steering knuckle from the vehicle. Refer to Steering Knuckle Replacement.



3. Install the steering knuckle (1) in a soft jawed vise.



4. Using the EN 45000 remover (1), remove the seal (2).

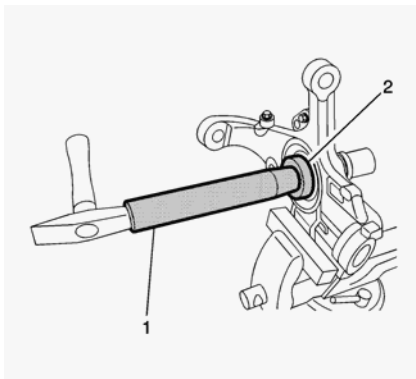


5. Using the GE 23907 hammer and the DT 29369-1 remover (2), remove the bearing.

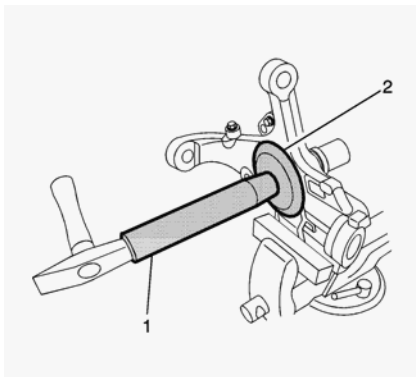
Front Wheel Drive Shaft Bearing Replacement

Installation Procedure

1. Position the inner bearing in the steering knuckle



2. Using a hammer the *GE 8092* driver (1) and the *J 36838* installer (2), install the inner bearing in the steering knuckle.



3. Using a hammer the *GE 8092* driver (1) and the *CH 50786* Seal Installer (2), install the seal.
4. Apply grease to the needle bearings before installing the wheel drive shafts.
5. Install the steering knuckle in the vehicle. Refer to Steering Knuckle Replacement.
6. Remove the supports and lower the vehicle.

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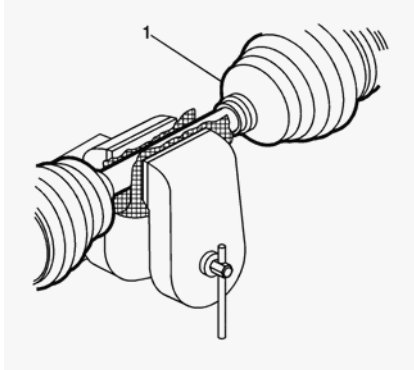
Special Tools

DT 35910 Drive Axle Seal Clamp Pliers

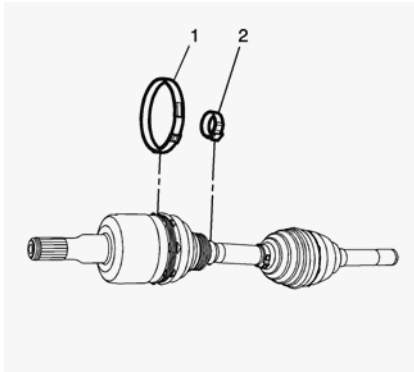
For equivalent regional tools, refer to Special Tools

[Disassemble Procedure](#)

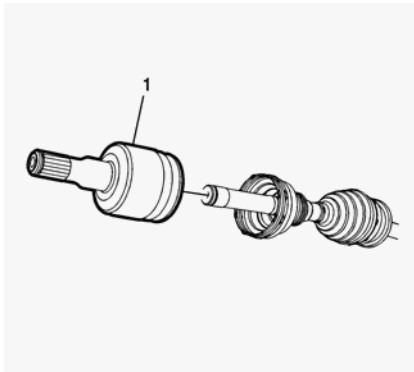
1. Remove the wheel drive shaft from the vehicle. Refer to Front Wheel Drive Shaft Replacement



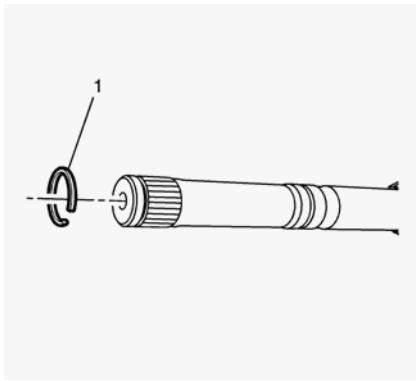
2. Position the wheel drive shaft in a soft jawed vise and clamp securely.



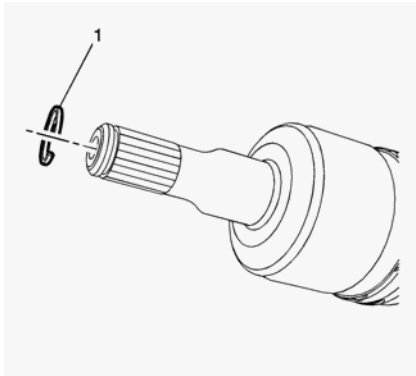
3. Using a flat-bladed tool, remove the boot retaining clamp (2).
4. Using side cutters, remove the boot clamp (1).



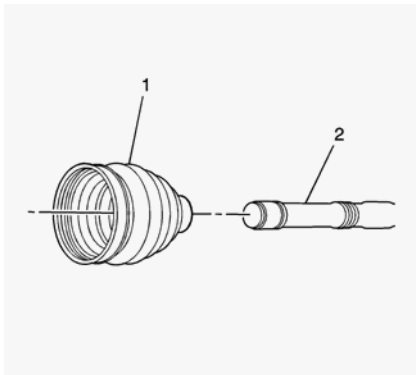
5. Using a soft faced hammer, remove the constant velocity joint (1) from the wheel drive shaft.



6. Remove and discard the snap ring (1), replace with NEW only.

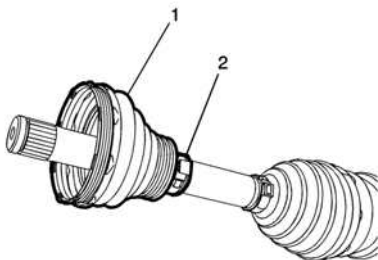


7. Remove and discard the snap ring (1), replace with NEW only.



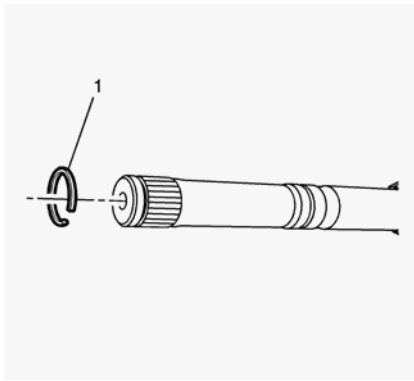
8. Remove the boot (1) from the wheel drive shaft (2).

[Assemble Procedure](#)

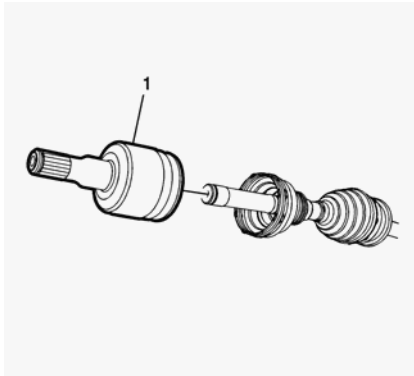


Note: Ensure the boot clamp is positioned correctly in the seal groove.

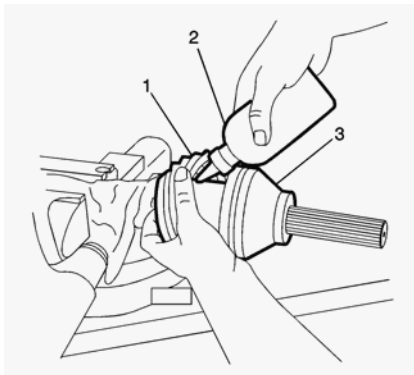
1. Position the boot (1) and the in board clamp (2) on the wheel drive shaft.



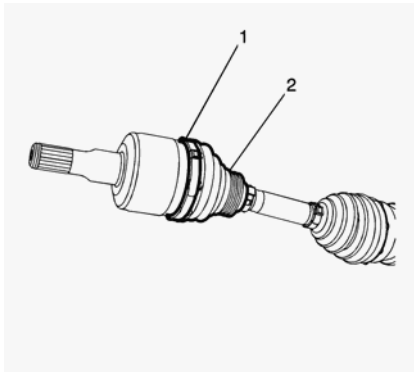
2. Install the NEW snap ring (1).



3. Using a hammer, install the constant velocity joint (1) on the wheel drive shaft.

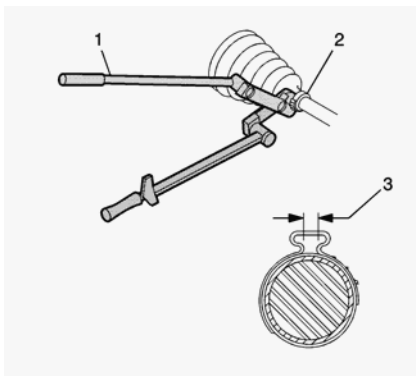


4. Place approximately half of the lubricant (2) inside the CV joint boot (1) and the other half in the CV joint (3).

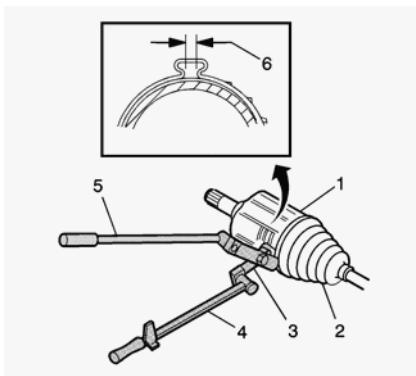


5. Install the outboard boot clamp (1) and the boot (2) on the constant velocity joint.

Front Wheel Drive Shaft Inner Joint and Boot Replacement



6. Using *DT 35910* pliers and a torque wrench (1) , close the boot clamp (2) until the gap (3) measures **2.15 mm (.085 inch)** or **136 Y (100 lb ft)**.



7. Using the *DT 35910* pliers (3), breaker bar (5), torque wrench (4), close the clamp until the gap (6) **2.15 mm (.085 inch)** or **176 Y (130 lb ft)**.
8. Rotate the housing in a circular motion to distribute the grease in the constant velocity joint.
9. Install the wheel drive shaft to the vehicle. Refer to Front Wheel Drive Shaft Replacement

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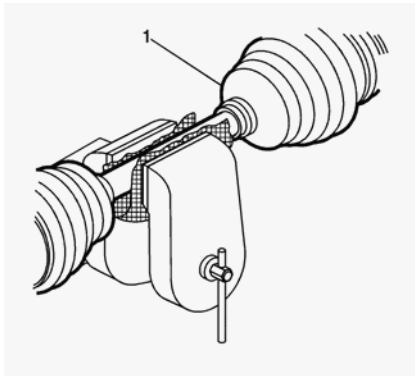
Special Tools

DT 35910 Drive Axle Seal Clamp Pliers

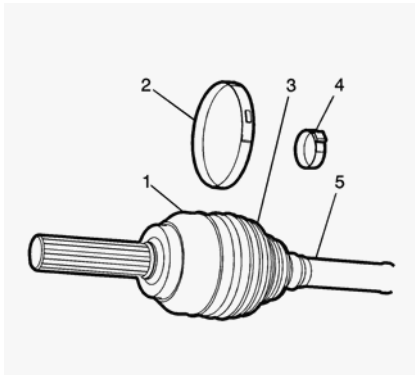
For regional equivalent tools, refer to Special Tools.

[Disassemble Procedure](#)

1. Remove the wheel drive shaft from the vehicle. Refer to Front Wheel Drive Shaft Replacement.

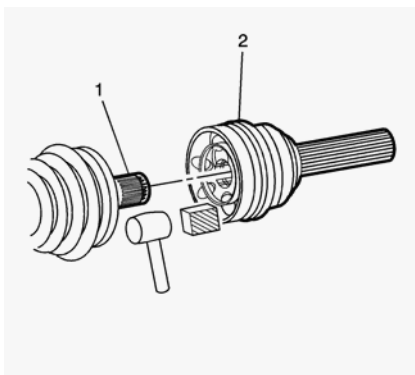


2. Clamp the drive axle shaft in a soft jawed vice.

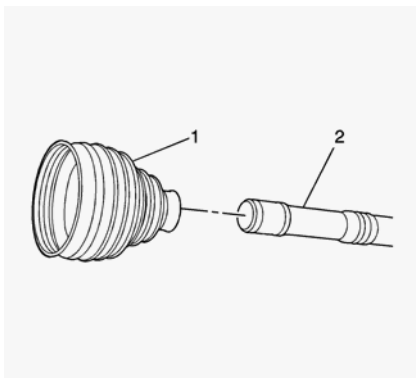


Caution: Do not cut through the wheel drive shaft inboard or outboard boot during service. Cutting through the boot may damage the sealing surface of the housing and the tripot or the constant velocity joint bushing. Damage to the sealing surface may lead to water and dirt intrusion and premature wear of the constant velocity joint.

3. Using a flat-bladed tool, remove the boot clamp (2) from the constant velocity (CV) joint (1) and the boot (3).
4. Using a pair of side cutters, remove and discard the boot clamp (4) from the boot (3) and the wheel drive shaft (5). Replace with NEW clamps.

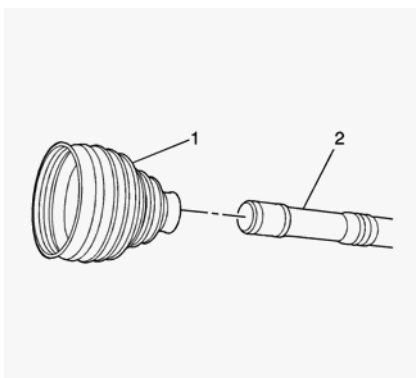


5. Using a block of wood and a hammer, remove the CV joint (2) from the wheel drive shaft (1).

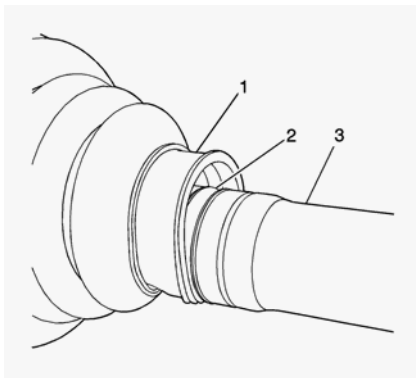


6. Remove the boot (1) from the wheel drive shaft (2).

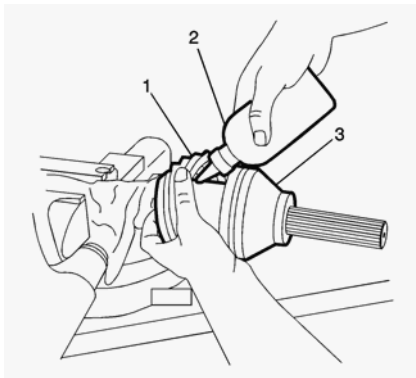
[Assemble Procedure](#)



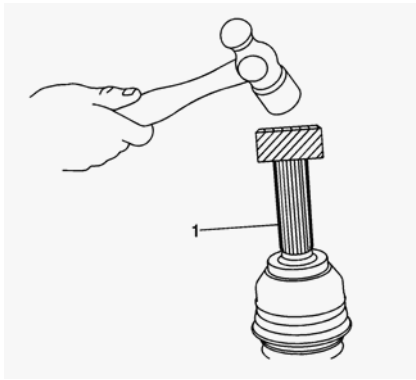
1. Position the boot (1) on the wheel drive shaft (2).



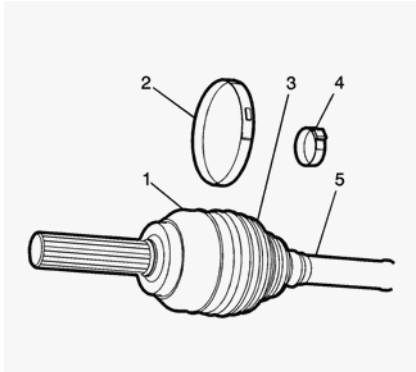
2. Ensure that the boot (1) is properly seated in the groove (2) in the wheel drive shaft (3).



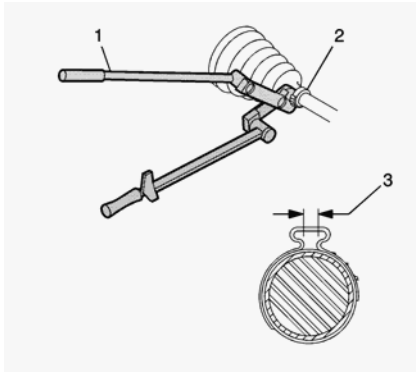
3. Place approximately half the lubricant (2) inside the CV joint boot (1) and the other half in the CV joint (3).



4. Using a block of wood and a hammer, install the CV joint on the wheel drive shaft (1).

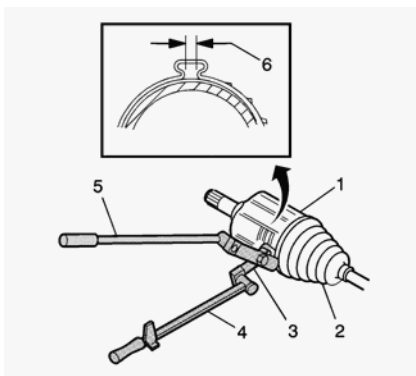


5. Install the inboard boot clamp (4) on the boot (3) and the wheel drive shaft (5).
6. Install the outboard boot clamp (2) on the boot (3) and the CV joint housing (1).



Note: Ensure that the boot clamp is properly positioned around the entire circumference of the boot.

7. Using the DT 35910 pliers (1), close the clamp (2) until the gap (3) to the proper measurement.

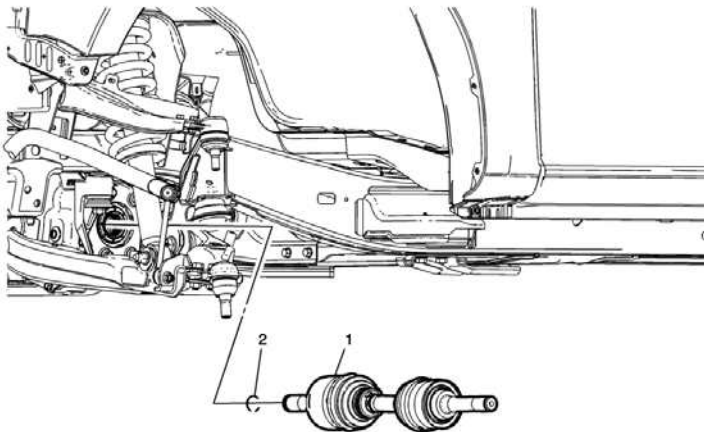


Note: Ensure that the boot clamp is properly positioned around the entire circumference of the boot.

8. Using the DT 35910 pliers (3), breaker bar (5), torque wrench or a ratchet (4), close the clamp (6) to the proper measurement.
9. Remove the wheel drive shaft from the bench vise.
10. Move the CV joint in a circular motion 4 to 5 times to distribute the lubricant.
11. Install the wheel drive shaft in the vehicle. Refer to Front Wheel Drive Shaft Replacement.

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Front Wheel Drive Shaft Replacement

Callout

Component Name

Preliminary Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

Front Wheel Drive Shaft

Procedure

1

Note: It is not necessary to separate the brake caliper from the mounting bracket for this procedure. Remove as a assembly.

1. Remove steering knuckle from the vehicle. Refer to Steering Knuckle Replacement.
2. Apply a small amount of grease to the needle bearings before installing the wheel drive shaft.
3. Check the fluid level of the front drive axle and fill if needed. Refer to Front Axle Lubricant Level Inspection.

Front Wheel drive Shaft Snap Ring

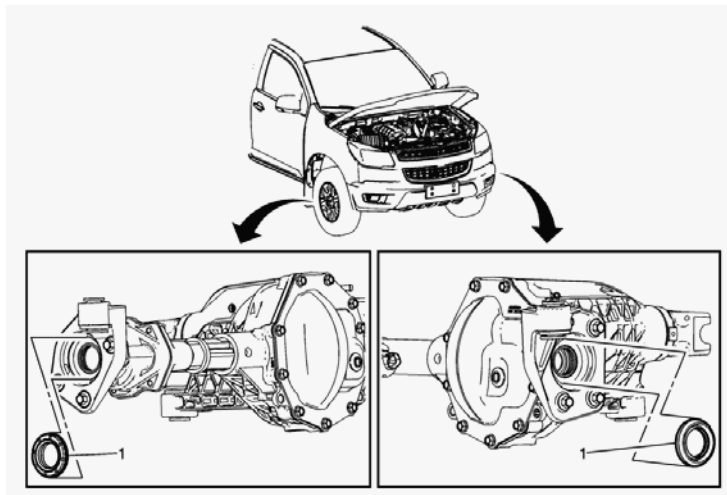
2

Procedure

Remove and discard the snap ring. DO NOT reuse, replace with NEW only.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:



Front Wheel Drive Shaft Seal Replacement

Callout

Component Name

Preliminary Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the appropriate (right or left) wheel drive shaft from the vehicle. Refer to Front Wheel Drive Shaft Replacement.

Front Wheel Drive Shaft Seal

Procedure

1. Using the *DT29369-1* remover and the *GE 23907-1* hammer, remove the front wheel drive shaft seal.
2. Using the *DT 45225* installer and the *DT 8092* handle, install the front wheel drive shaft seal.

Special Tools

1

- *DT 8092* Driver Handle
- *DT 29369-1* Bushing and Bearing Remover
- *DT 45225* Axle Seal Installer
- *GE 23907-1* Slide Hammer

For regional equivalent tools, refer to Special Tools.

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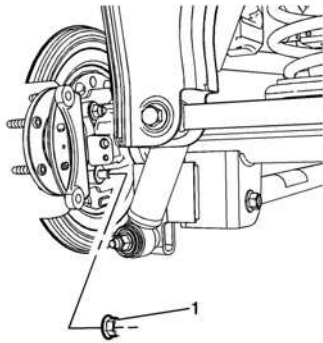
Special Tools

- J-42129 Wheel Hub Puller
- GE-02619-A Slide Hammer

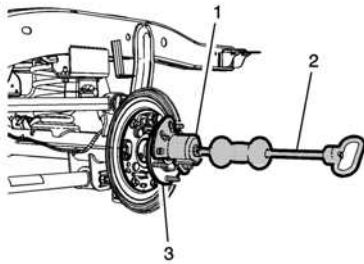
For equivalent regional tools, refer to Special Tools.

Removal Procedure

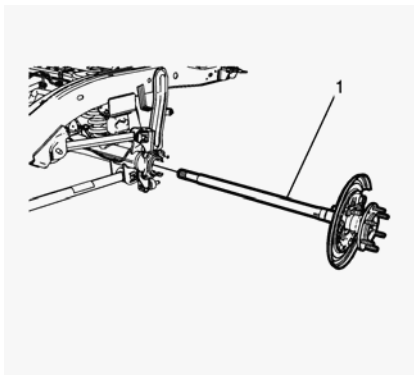
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.
4. Remove the parking brake shoes. Refer to Parking Brake Shoe Replacement.



5. Remove the 4 axle bolts (1) from the axle housing.

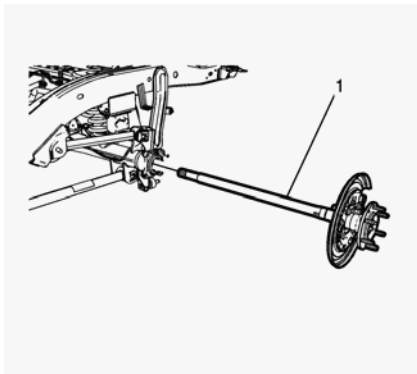


6. Using the GE-02619-A hammer (2) and the J-42129 puller (1), dis-engage the rear axle (3).
7. Remove the GE-02619-A hammer (2) and the J-42129 puller (1) from the rear axle (3).

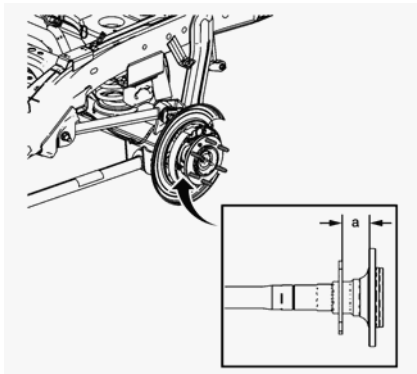


8. Remove the rear axle (1) from the vehicle.
9. If removing the rear axle shaft for service, remove the rear axle shaft seal and bearing. Refer to Rear Axle Shaft Seal and Bearing Replacement.

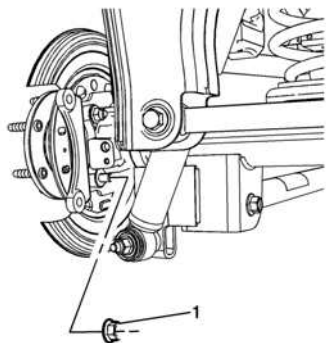
[Installation Procedure](#)



1. Install the rear axle shaft (1) in the rear axle housing.



2. Check the rear axle bearing endplay (a). Ensure that it does not exceed **0.4 mm (0.016 in)**



Caution: Refer to Fastener Caution.

3. Install the 4 rear axle shaft nuts (1) and tighten to **84 Y 62 lb ft**.
4. Install the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.
5. Install the parking brake shoes. Refer to Parking Brake Shoe Replacement.
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
7. Remove the support and lower the vehicle

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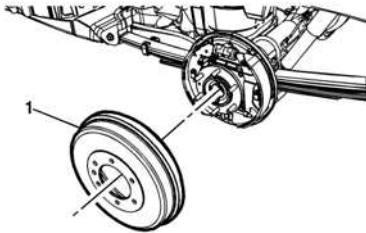
Special Tools

- J-42129 Wheel Hub Puller
- GE-02619-A Slide Hammer

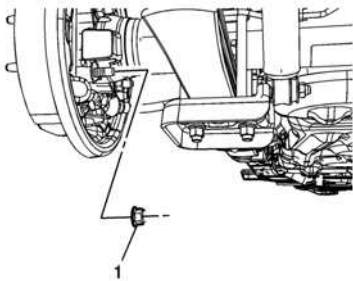
For equivalent regional tools, refer to Special Tools.

[Removal Procedure](#)

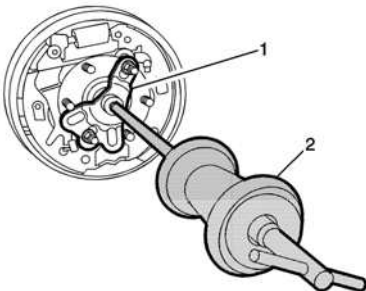
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.



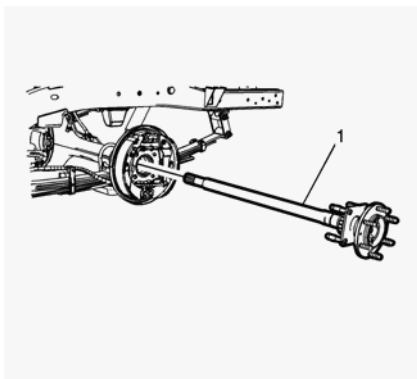
4. Remove the rear brake drum (1).



5. Remove the 4 axle bolts (1) from the axle housing.

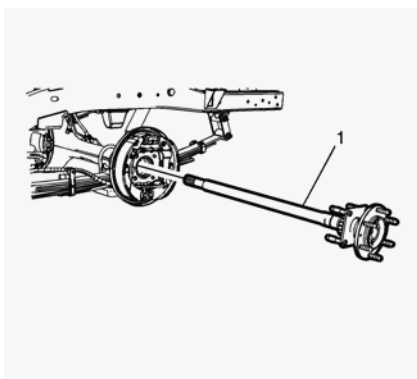


6. Using the GE-02619-A hammer (2) and the J-42129 puller (1), remove the rear axle.
7. Remove the GE-02619-A hammer (2) and the J-42129 puller (1) from the rear axle.

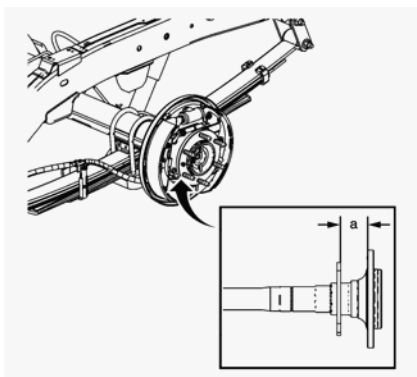


8. Remove the rear axle (1) from the vehicle.
9. If removing the rear axle shaft for service, remove the rear axle shaft seal and bearing. Refer to Rear Axle Shaft Seal and Bearing Replacement.

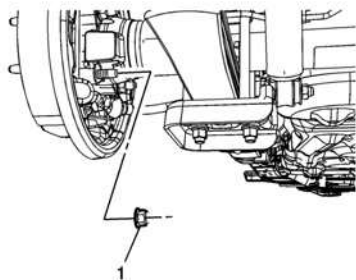
[Installation Procedure](#)



1. Install the rear axle shaft (1) in the rear axle housing.



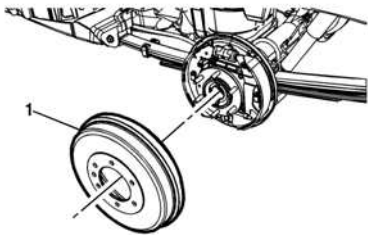
2. Check the rear axle bearing endplay (a). Ensure that it does not exceed **0.4 mm (0.016 in)**



Caution: Refer to Fastener Caution.

3. Install the 4 rear axle shaft nuts (1) and tighten to **84 Y 62 lb ft**.
4. Install the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.

Rear Axle Shaft Replacement (Drums Brakes)



5. Install the rear brake drum (1).
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
7. Remove the support and lower the vehicle

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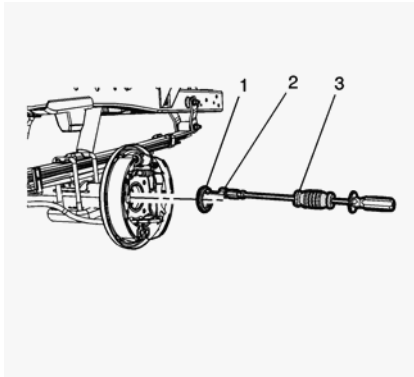
Special Tools

- DT-49275 Pinion Bearing Remover
- DT-50925 Seal Installer
- J-6125-B Slide Hammer
- J-8092 Driver Handle
- J-22912-B Split Plate Bearing Puller
- J-23129 Universal Seal Remover

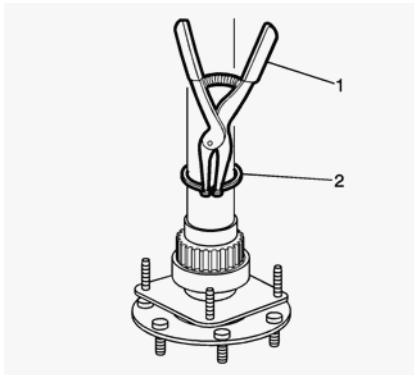
For the equivalent regional tools, refer to Special Tools.

Removal Procedure

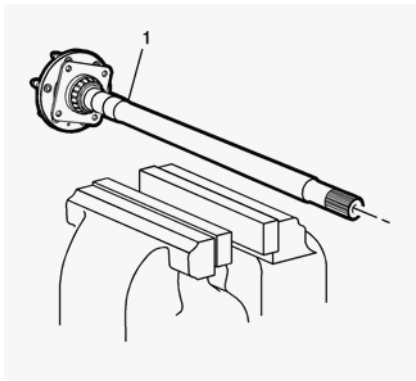
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Drain the rear axle. Refer to Differential Oil Replacement.
3. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation.
4. Remove the rear axle shaft assembly. Refer to Rear Axle Shaft Replacement.



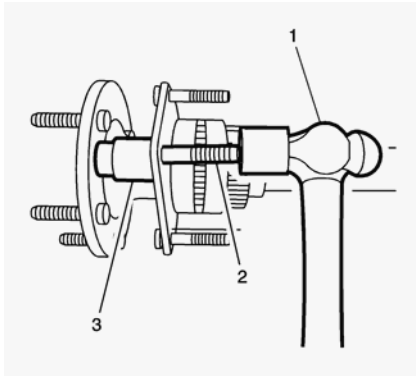
5. Using the J-6125-B hammer (3) and the J-23129 remover (2), remove the inner axle shaft seal (1).



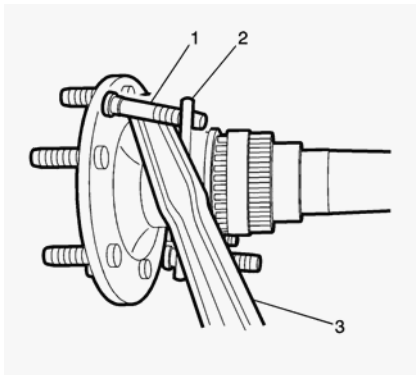
6. Using the appropriate tool (1), remove the retaining ring (2).



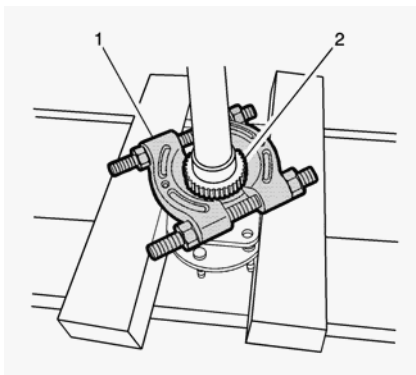
7. Install the rear axle shaft (1) in the vise.



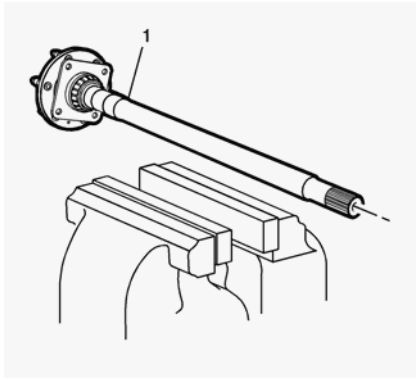
8. Using the socket (3) and the hammer (1), remove the wheel studs (2) from the retaining plate.



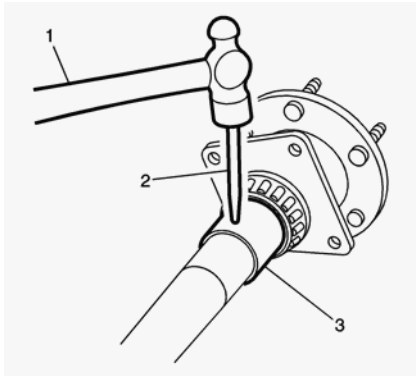
9. Using the appropriate tool (3), move the retaining plate (2) far enough away from the wheel drive axle flange to remove the wheel studs (1).
10. Remove the rear axle shaft from the vise.



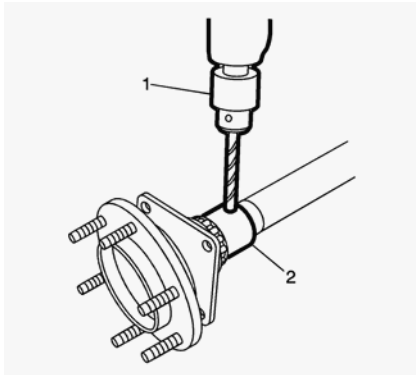
11. Using the J-22912-B puller and the hydraulic press (1), remove the speed sensor gear and the inner bearing cup (2).



12. Install the rear axle shaft (1) in a vise.

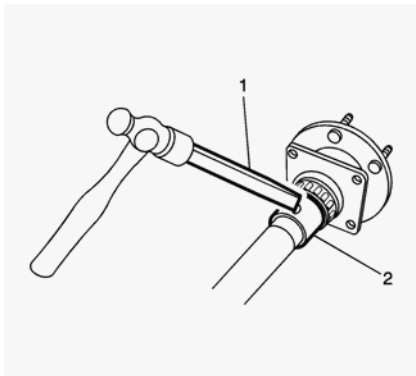


13. Using the hammer (1) and the punch (2), mark the spacer (3).

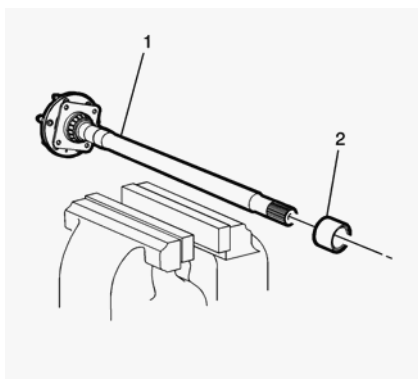


Note: DO NOT drill all the way through the spacer.

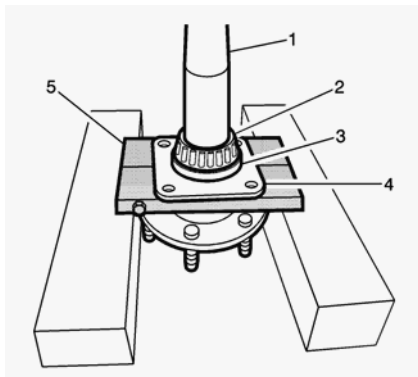
14. Using the drill (1), drill the spacer (2) where marked by the punch.



15. Using the hammer and the chisel (1), break the spacer (2).

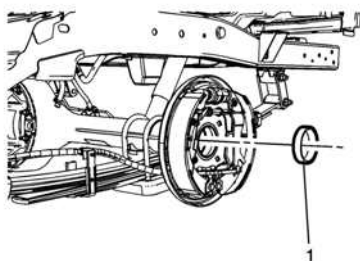


16. Remove the rear axle shaft (1) from the vise.
17. Remove the spacer (2) from the rear axle shaft (1).

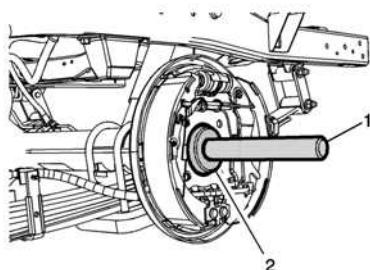


18. Position the axle shaft (1) in the hydraulic press.
19. Using the hydraulic press and the DT-49275 remover (5), remove the wheel bearing race (2), axle outer shaft seal (3) and the retaining plate (4) from the rear axle shaft.

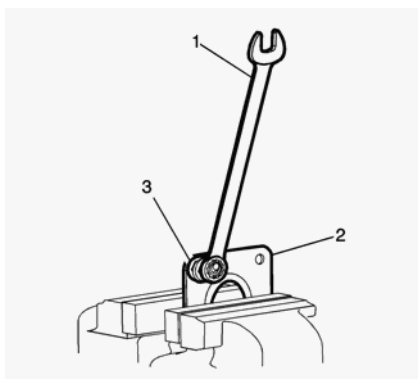
[Installation Procedure](#)



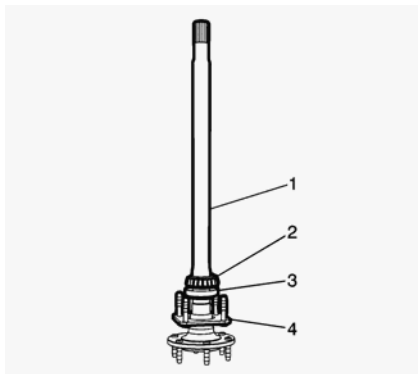
1. Position the inner axle seal (1) in the axle housing.



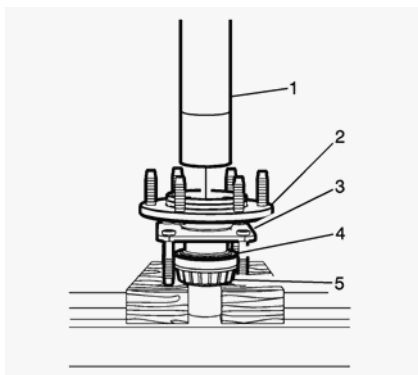
2. Using the J-8092 handle (1) and the DT-50925 installer (2), install the inner axle shaft seal.



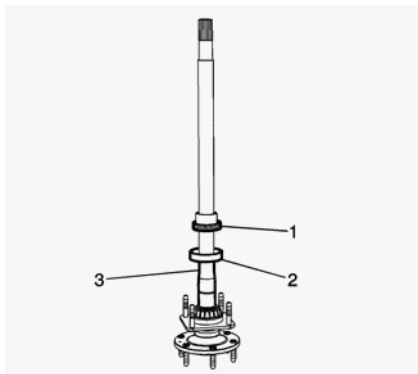
3. Install the retaining plate (2) in the vise.
4. Install the bolts (3) and the 4 nuts in the retaining plate (2).
5. Using the proper size wrench (1), tighten the nuts until the bolt (3) is properly seated in the retaining plate (2).



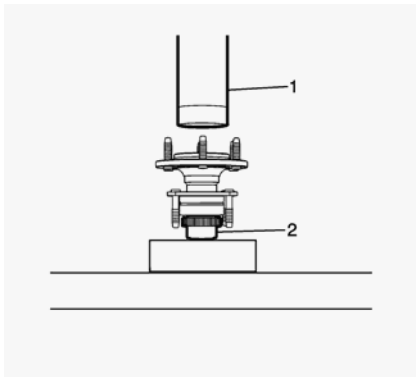
6. Position the retaining plate (4), the NEW axle outer shaft seal (3) and the axle bearing race (2) on the axle shaft (1).



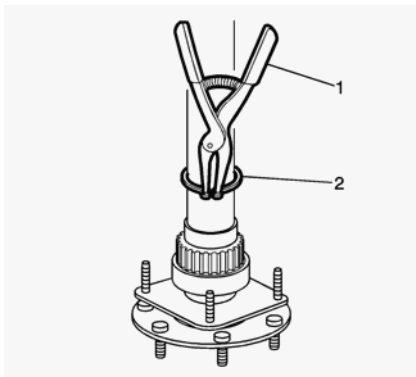
7. Position the rear axle shaft in the hydraulic press (1).
8. Using the hydraulic press (1), install the wheel bearing race (5), axle shaft seal (4) and the retaining plate (3) on to the axle outer shaft (2).



9. Position the wheel bearing cup (2) and the speed sensor gear and spacer (1) on the axle shaft (3).



10. Using the hydraulic press (1), install the speed sensor gear, spacer and the bearing cup (2).



11. Using the appropriate tool (1), install the retaining clip (2).
12. Install the rear axle shaft assembly. Refer to Rear Axle Shaft Replacement
13. Fill the rear axle. Refer to Differential Oil Replacement
14. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation
15. Remove the support and lower the vehicle.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

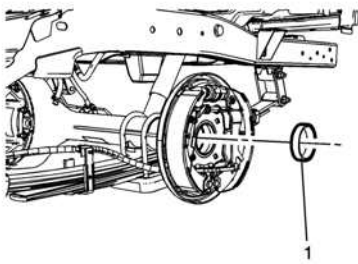
Special Tools

- DT-23129 Universal Seal Remover
- DT-49275 Pinion Bearing Remover
- DT-50925 Seal Installer
- GE-6125-B Slide Hammer
- GE-8092 Driver Handle

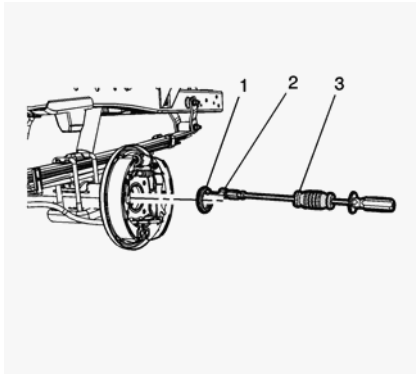
For regional equivalent tools, refer to Special Tools.

Removal Procedure

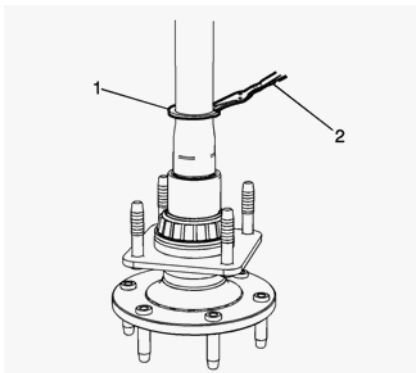
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Drain the rear axle. Refer to Differential Oil Replacement.
3. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation.
4. Remove the rear axle shaft. Refer to Rear Axle Shaft Replacement.



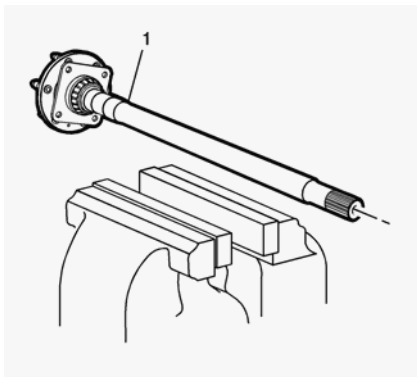
5. Using the appropriate tool, remove the inner bearing cup (1).



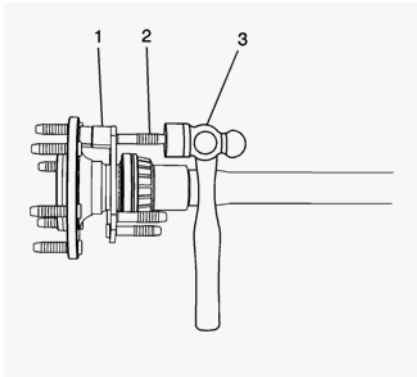
6. Using the GE-6125-B slide hammer (3) and the DT-23129 universal seal remover (2), remove the inner axle seal (1).



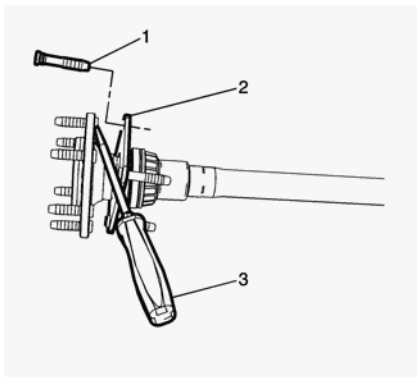
7. Using the appropriate tool (2), remove the retaining clip (1).



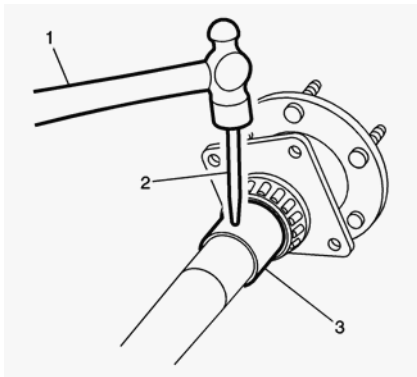
8. Install the rear axle shaft (1) in a suitable vise.



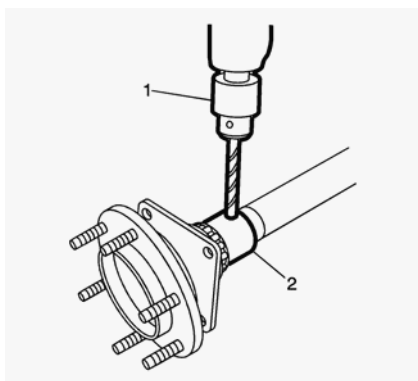
9. Use the appropriate tool (1) and the hammer (3), loosen the stud (2) in the retaining plate.



10. Using the appropriate tool (3), move the retaining plate (2) enough to remove the stud (1) from the retaining plate (3).

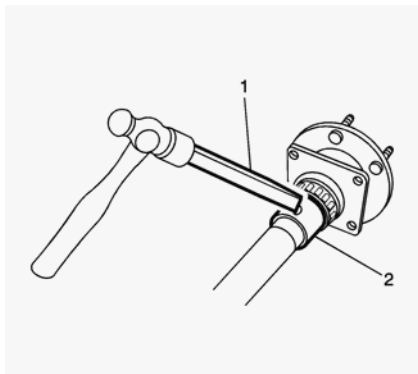


11. Using a hammer (1) and a punch (2), mark the spacer (3).

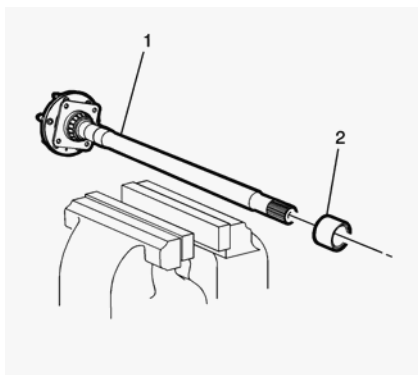


Note: DO NOT drill all the way through the spacer.

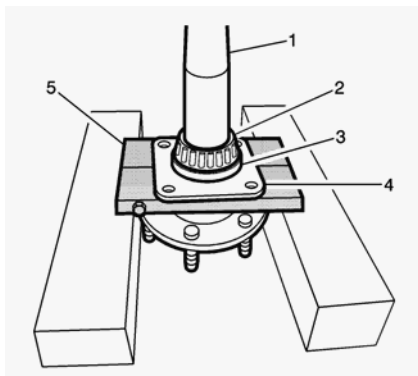
12. Using the drill (1), drill the spacer (2) where marked by the punch.



13. Using the hammer and the chisel (1), break the spacer (2).

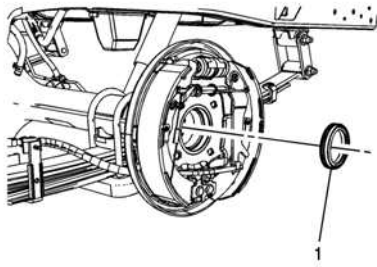


14. Remove the spacer (2) from the rear axle shaft (1).

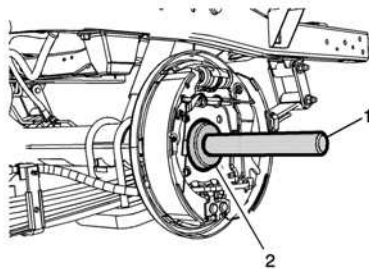


15. Position the rear axle shaft (1) in the hydraulic press.
16. Using the hydraulic press and the DT-49275 pinion bearing remover (5), remove the wheel bearing race (2), the rear axle outer shaft seal (3) and the retaining plate (4) from the rear axle shaft (1).

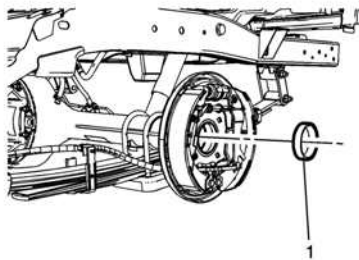
[Installation Procedure](#)



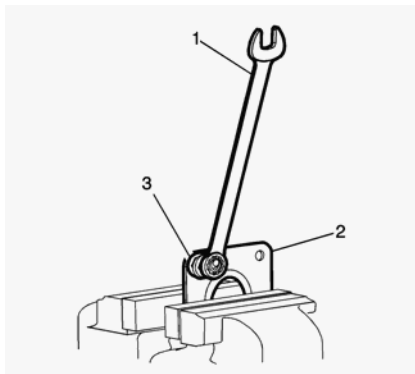
1. Position the inner axle seal (1) in the axle housing.



2. Using the *GE-8092* driver handle (1) and the *DT-50925* seal installer (2), install the inner axle seal.

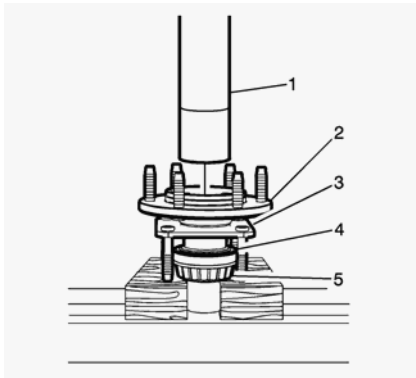


3. Install the inner bearing cup (1) in the rear axle housing.

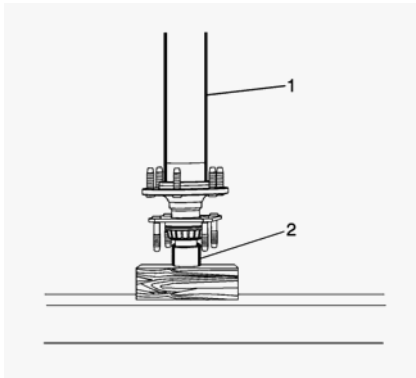


4. Install the retaining plate (2) in the vise.
5. Install the bolts (3) and the 4 nuts in the retaining plate (2).
6. Using the proper size wrench (1), tighten the nuts until the bolt (3) is properly seated in the retaining plate (2).

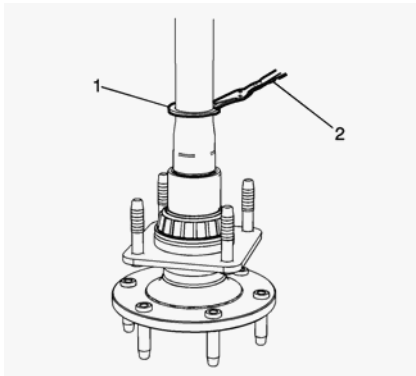
Rear Axle Shaft Seal and Bearing Replacement (Pick Up Without ABS)



7. Position the rear axle shaft in the hydraulic press (1).
8. Using the hydraulic press (1), install the wheel bearing race (5), rear axle shaft seal (4) and the retaining plate (3) on the rear axle shaft (2).



9. Using the hydraulic press (1), install the spacer (2).



10. Using the appropriate tool (2), install the retaining clip (1).
11. Install the rear axle shaft. Refer to Rear Axle Shaft Replacement.
12. Fill the rear axle. Refer to Differential Oil Replacement.
13. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation.
14. Remove the support and lower the vehicle.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

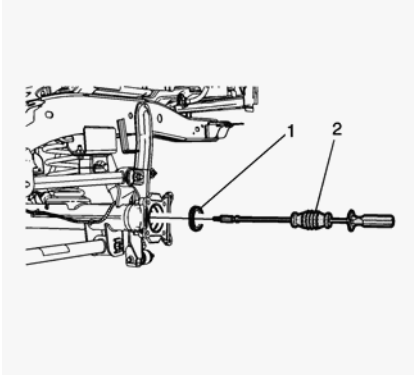
Special Tools

- DT-49275 Pinion Bearing Remover
- DT-50925 Seal Installer
- J-6125-B Slide Hammer
- J-8092 Driver Handle
- J-22912-B Split Plate Bearing Puller
- J-23129 Universal Seal Remover

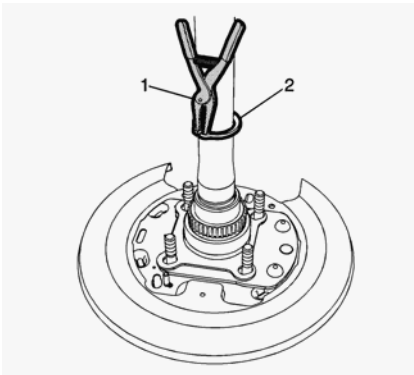
For the equivalent regional tools, refer to Special Tools.

Removal Procedure

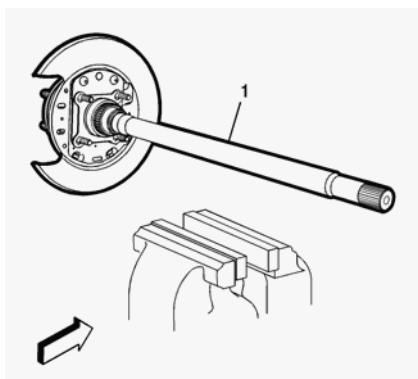
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Drain the rear axle. Refer to Differential Oil Replacement.
3. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation.
4. Remove the rear axle shaft assembly. Refer to Rear Axle Shaft Replacement.



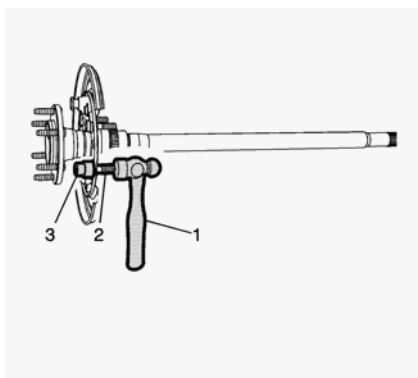
5. Using the J-6125-B hammer and the J-23129 remover (2), remove the axle shaft seal (1).



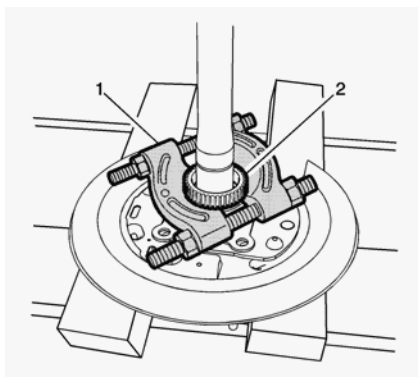
6. Using the appropriate tool (1), remove the retaining ring (2).



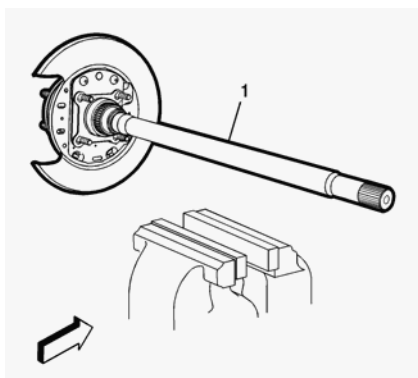
7. Install the rear axle shaft (1) in a suitable vise.



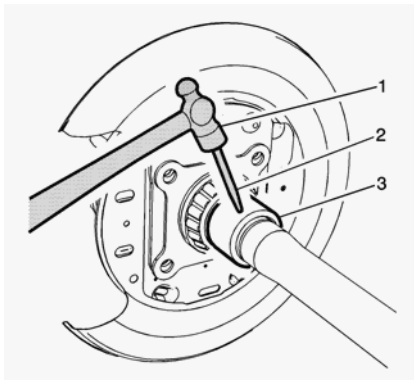
8. Using the appropriate tool (3) and the hammer (1), remove the bolts (2) from the retaining plate.
9. Remove the rear axle shaft from the vise.



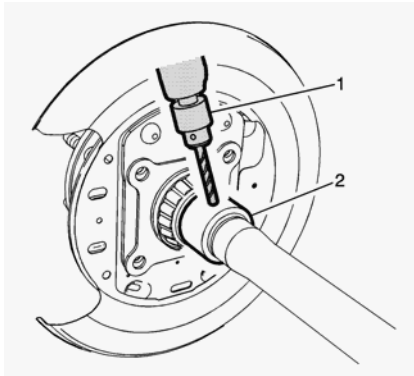
10. Using the J-22912-B puller and the hydraulic press (1), remove the speed sensor gear (2).



11. Install the rear axle shaft (1) in a vise.

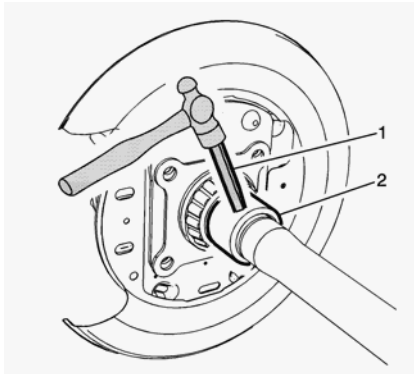


12. Using a hammer (1) and punch (2), mark the spacer (3).

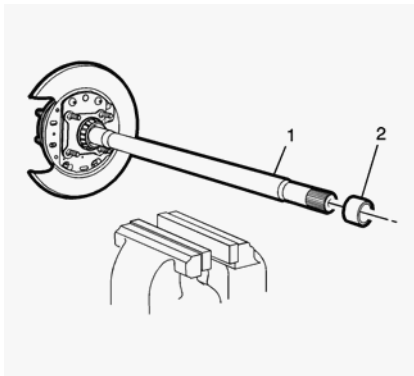


Note: DO NOT drill all the way through the spacer.

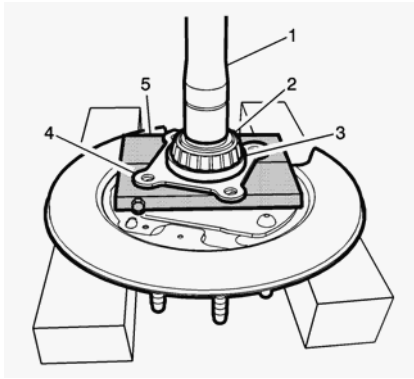
13. Using a drill (1), drill the spacer where marked by the punch marks.



14. Using a hammer and a chisel (1), break the spacer (2).

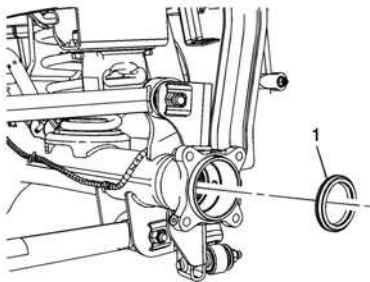


15. Remove the rear axle shaft (1) from the vise and remove the spacer (2).

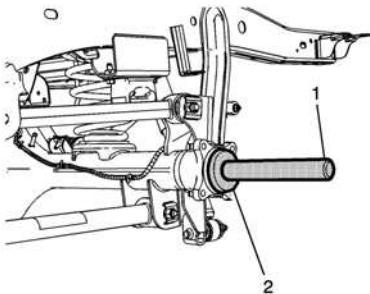


16. Position the axle shaft (1) in the hydraulic press.
17. Using a hydraulic press and the *DT-49275* remover (5), remove the wheel bearing race (2), axle shaft seal (3) and the retaining plate (4).

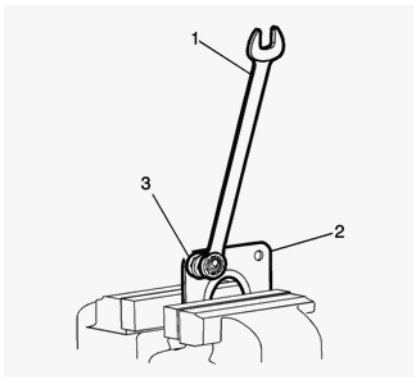
[Installation Procedure](#)



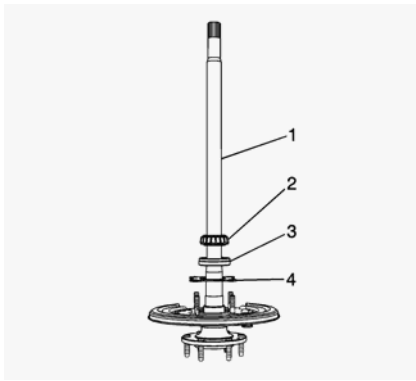
1. Position the inner axle seal (1) in the axle housing.



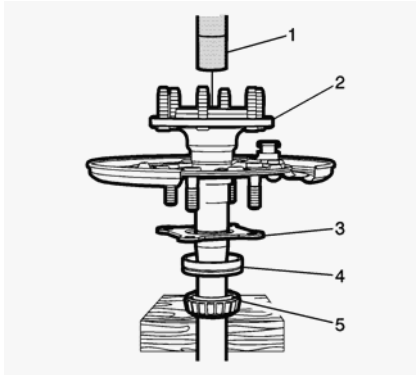
2. Using the *J-8092* handle (1) and the *DT-50925* installer (2), install the inner axle shaft seal.



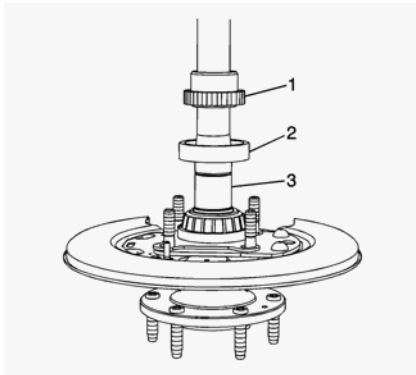
3. Install the retaining plate (2) in a vise.
4. Install the bolts (3) and 4 nuts in the retaining plate (2).
5. Using the proper size wrench (1), tighten the nuts until the bolt (3) is properly seated in the retaining plate (2).



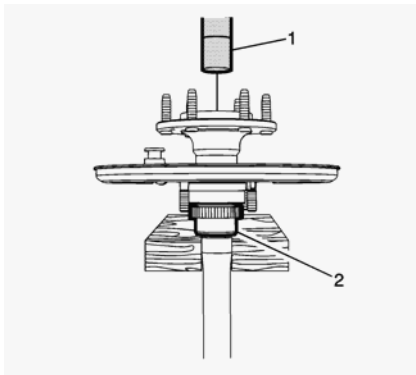
6. Position the retaining plate (4), the NEW axle shaft seal (3) and the axle bearing race (2) on the axle shaft (1).
7. Position the rear axle shaft in the hydraulic press.



8. Using the hydraulic press (1), install the wheel bearing race (5), axle shaft seal (4) and the retaining plate (3) on the axle shaft (2).

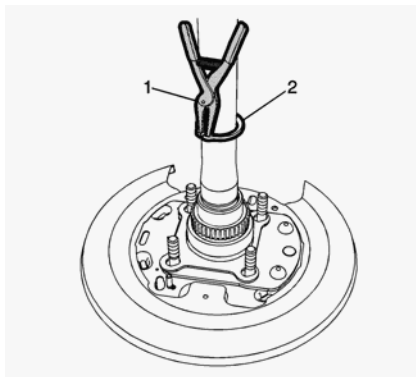


9. Position the inner wheel bearing cup (2) and the speed sensor gear and spacer (1) on the axle shaft (3).



10. Using the hydraulic press (1), install the speed sensor gear, spacer and the bearing cup (2).

Rear Axle Shaft Seal and Bearing Replacement (SUV With ABS)



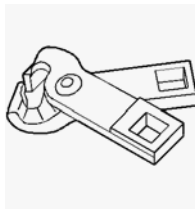
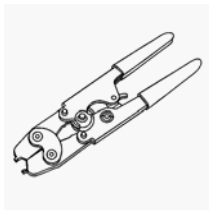
11. Using the appropriate tool (1), install the retaining clip (2).
12. Install the rear axle shaft assembly. Refer to Rear Axle Shaft Replacement
13. Fill the rear axle. Refer to Differential Oil Replacement
14. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation
15. Remove the support and lower the vehicle.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Illustration



Tool Number/ Description

DT 35910

CH 804

J 35910

MKM 804

Wheel Drive Shaft Clamping Pliers

2013 Chevrolet Colorado

Submodel: | **Engine Type:** | **Liters:**

Fuel Delivery: | **Fuel:**

Special Tools

GE-7872 Magnetic Base Dial Indicator Set , or equivalent

Note: This measurement procedure is intended to measure transmission or transfer case output flange runout for systems with a constant velocity (CV) joint, rubber coupling or bolt-on U-joint yoke at the transmission or transfer case.

1. Place the transmission in NEUTRAL.
2. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
3. If equipped with a CV joint, measure the transmission or transfer case output flange radial runout on the machined surface of the prop shaft front CV joint housing, as close to the flange as possible:
 1. Clean the surface of the prop shaft front CV joint housing just rear of the transmission or transfer case output flange.
 2. Mount a dial indicator set, GE-7872 Magnetic Base Dial Indicator Set , or equivalent, and position the dial indicator to contact the prop shaft front CV joint housing as close to the transfer case output flange as possible.
4. If equipped with a rubber coupling or bolt-on U-joint yoke, measure the transfer case output flange radial runout on the machined surface of the flange pilot area:
 1. Mark the position of the prop shaft to the transmission or transfer case output flange.
 2. Separate the propshaft from the transmission or transfer case output flange.
 3. Clean the surface of the flange pilot area.
 4. Mount a dial indicator set, GE-7872 Magnetic Base Dial Indicator Set , or equivalent, and position the dial indicator to contact the pilot area as close to the end of the pilot as possible.
5. Rotate the transmission or transfer case output flange by hand to locate the low spot.
6. Set the dial indicator to zero on the low spot.
7. Rotate the flange or shaft by hand and record the amount of radial runout.
8. Compare the runout of the flange or shaft to the runout tolerance specifications guideline.
9. If the transmission or transfer case output flange runout exceeds the specification, the flange or shaft requires replacement.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

Special Tools

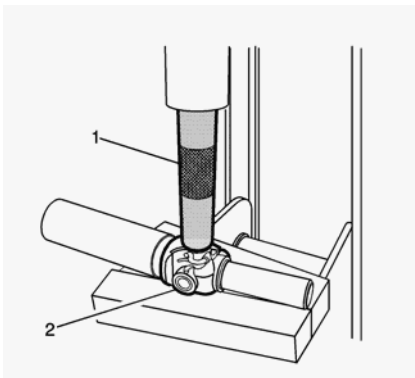
- DT-50458 Input Shaft Bearing Cover Seal Installer
- J-9522-3 U-Joint Bearing Separator
- J-9522-5 U-Joint Bearing Spacer Remover

For regional equivalent tools, refer to Special Tools.

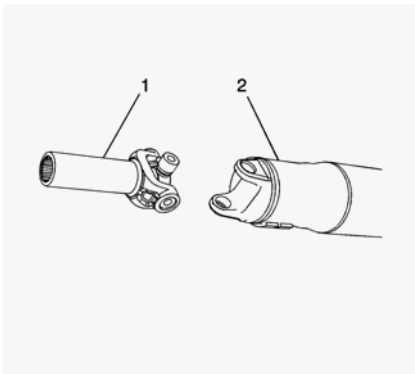
Removal Procedure

Caution: Never clamp propeller shaft tubing in a vise. Clamping propeller shaft tubing in a vise could dent or deform the tube causing an imbalance or unsafe condition. Always clamp on one of the yokes and support the shaft horizontally. Avoid damaging the slip yoke sealing surface. Nicks may damage the bushing or cut the lip seal.

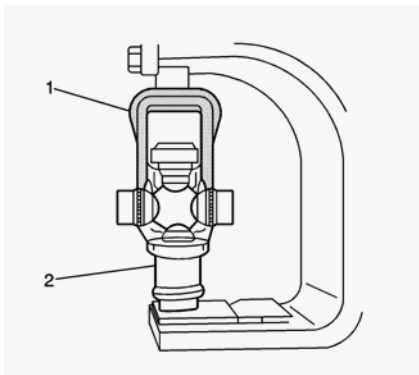
1. Remove the propeller shaft from the vehicle.
- For vehicles equipped with a one piece propeller shaft, refer to One-Piece Propeller Shaft Replacement.
 - For vehicle equipped with a two piece propeller shaft, refer to Two-Piece Rear Propeller Shaft Replacement.



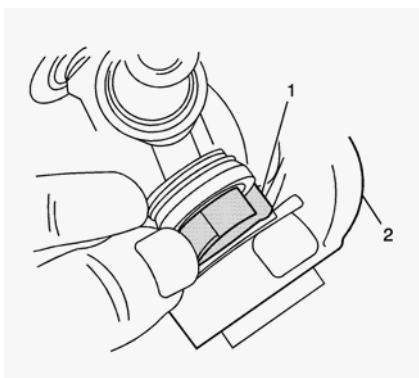
- Position the propeller shaft (2) in the hydraulic press so that the propeller shaft ears are supported.
- With the aid of an assistant, support the propeller shaft so that it is level with the press.
- Using the hydraulic press and the DT-50458 installer (1), remove the universal joint cup from the propeller shaft flange.
- Rotate the propeller shaft and repeat the procedure for the opposite universal joint cup.
- If serving the two piece drive shaft, mark the relationship of the slip yoke to the propeller shaft.



- Remove the slip yoke (1) from the propeller shaft (2).

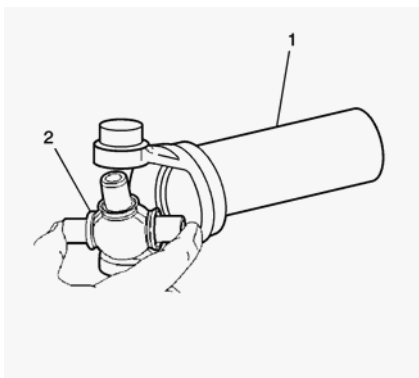


- Using the appropriate size socket (2), support the universal joint opposite of the J-9522-3 separator.
- Using the J-9522-3 separator (1) and the press, remove the universal bearing from the yoke.
- If you are unable to completely remove the universal bearing with the J-9522-3 separator, proceed to steps 11 and 12.



Note: If the slip yoke is found to be damaged, replace the slip yoke and use a NEW universal joint. DO NOT re-use the old universal joint.

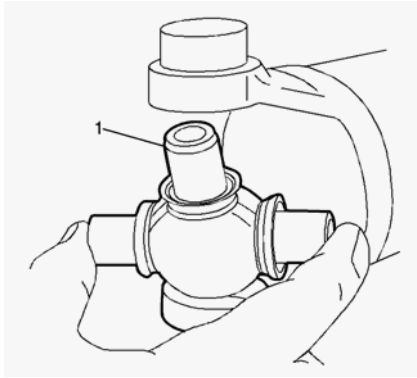
- Position the J-9522-5 remover (1) on the universal joint.
- Using the J-9522-3 separator, J-9522-5 remover and a press, remove the universal bearing from the yoke.
- Rotate the propeller shaft and repeat steps 1–8 to remove the opposite universal joint.



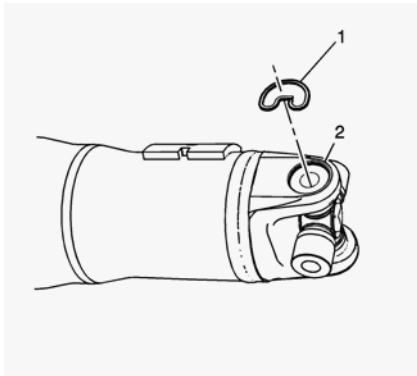
- Remove the spider (2) from the slip yoke (1).
- Thoroughly clean the slip yoke and the propeller shaft yoke of any contaminants that could prevent the retaining rings or the bearing cups from being properly installed.
- Rotate the propeller shaft and repeat steps 1–8 to remove the spider.

[Installation Procedure](#)

Note: If replacing the propeller shaft slip yoke, proceed to step 8.

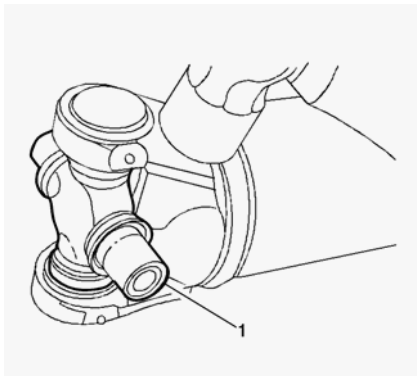


1. Position the universal bearings in either side of the yoke on the propeller shaft.
2. Install the universal joint spider (1) until it is seated in the universal bearing.
3. Press the universal joint spider until the bearing is even with the yoke.

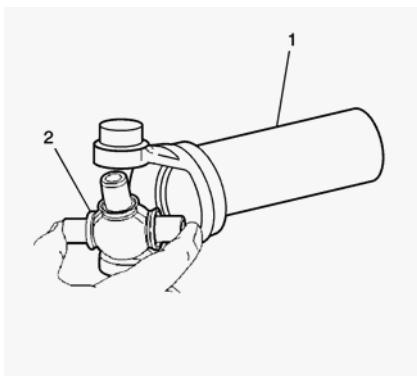


Note: Use NEW retaining rings only.

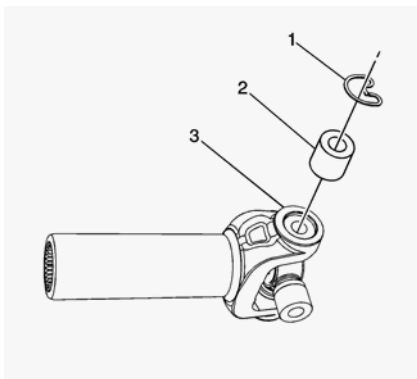
4. Install the NEW retaining ring (1) in the yoke (2).
5. Rotate the propeller shaft and repeat steps 1–4 for the opposite universal bearing.



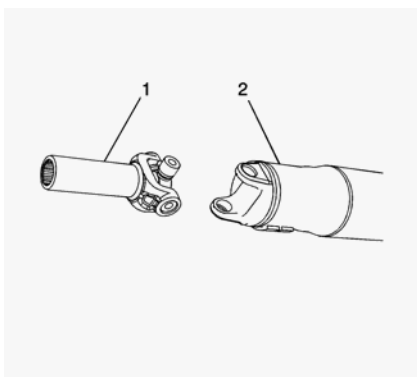
6. Rotate the universal joint (1) to ensure that the universal joint (1) moves freely. If not, use a hammer and lightly tap the yoke to seat the universal bearing against the retaining ring.
7. Install the other two universal bearings and wrap them with electrical tape or equivalent to hold the bearing in place until the propeller shaft is installed in the vehicle.



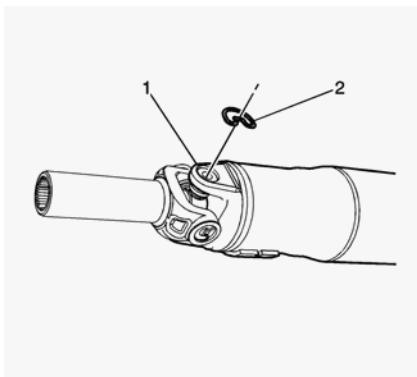
8. Position the universal spider (2) in the slip yoke (1).



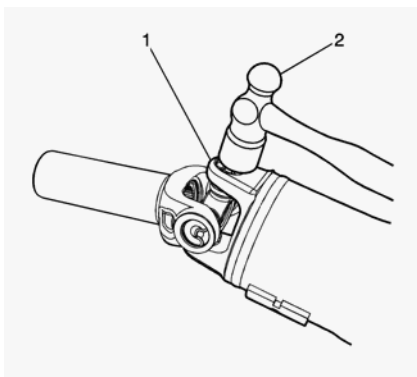
9. Install the universal bearings (2) in either side of the slip yoke (3).
10. Fully seat one of the universal spiders in the universal bearing.
11. Press the universal bearings (2) into the slip yoke (3) until it is even with the yoke.
12. Install the retaining ring (1) in the slip yoke (3).
13. Rotate the slip yoke and repeat steps 3–5 for the opposite universal bearing.



14. Position the slip yoke (1) in the propeller shaft (2).
15. Position the universal bearing in the yoke of the propeller shaft (2).
16. Center the universal spider in the universal bearing.
17. Press the universal bearing into the yoke.



18. Install the retaining ring (2) in the propeller shaft yoke (1).
19. Rotate the propeller shaft and repeat steps 8–11 or the opposite universal bearing.



20. Rotate the universal joint to ensure that the universal joint moves freely. If not, use a hammer (2) and lightly tap each of the yokes (1) to seat the universal bearing against the retaining ring.