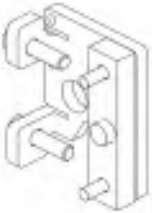
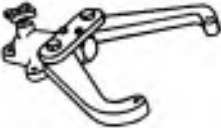


Differential Carrier

Special Tool(s) / General Equipment

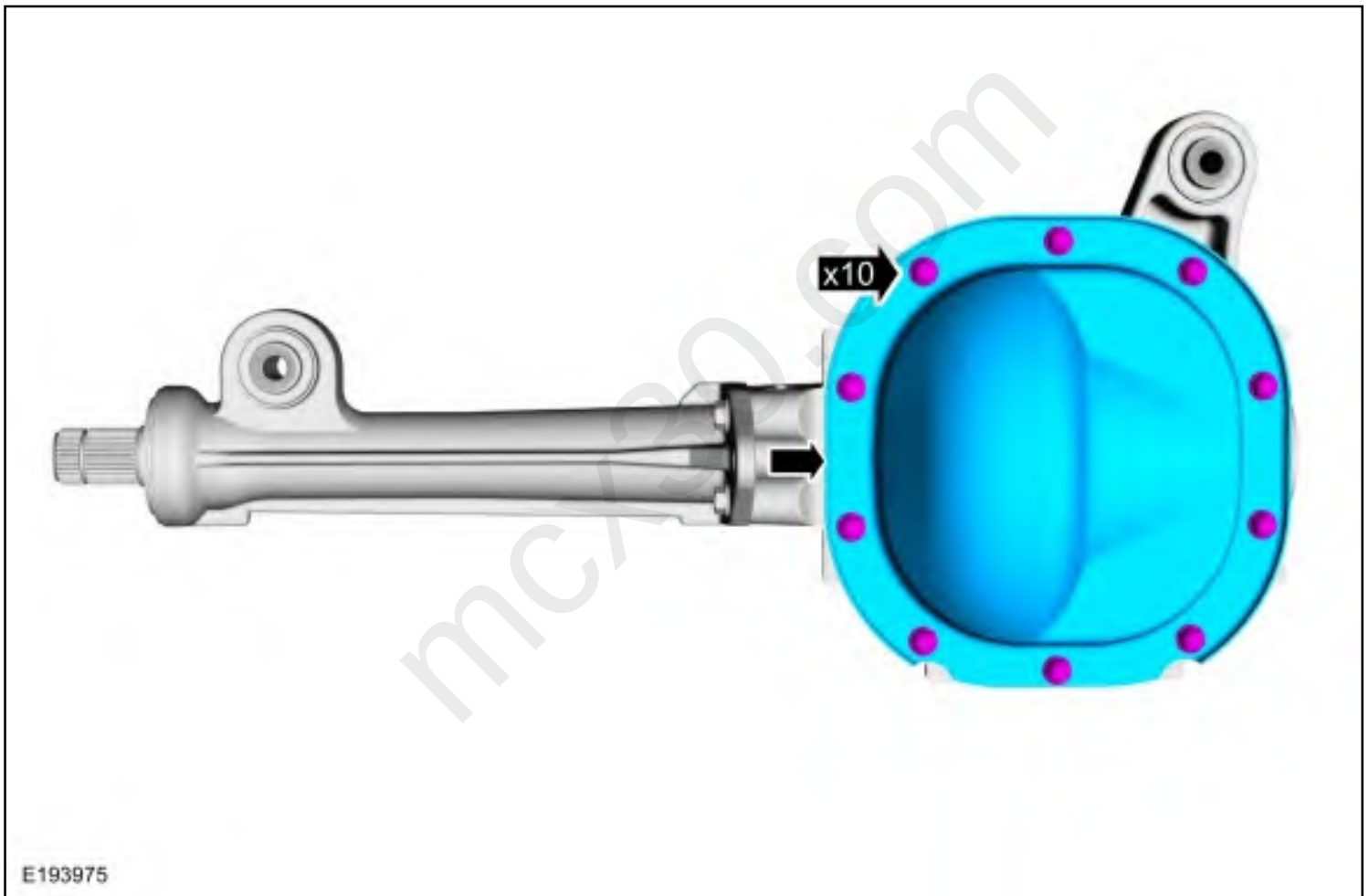
	205-001 (TOOL-4000-E) Spreader, Differential Carrier
 E238621	205-335 (T93P-4000-A) Spreader, Differential Housing (Plate) TKIT-1993-FLM TKIT-1993-LM TKIT-1996-F/FM
 E238625	205-368 (T96T-4000-A) Adapter for Differential Housing Spreader TKIT-1996-F/FM TKIT-1996-FLM2 TKIT-1998-LM (NavigatoR)
 307-003	307-003 (T57L-500-B) Holding Fixture, Transmission
	307-397 Remover, Transmission Fluid Pump TKIT-2000AP-FLM/LM TKIT-2002N-DEW
Dial Indicator	
Slide Hammer	

Materials

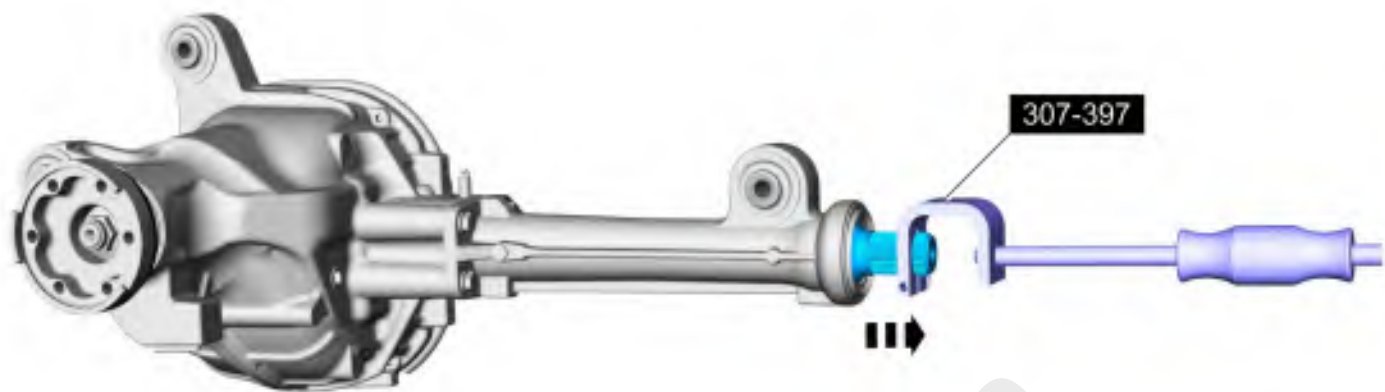
Name	Specification
Motorcraft® Silicone Gasket and Sealant TA-30	WSE-M4G323-A4

Removal

1. Remove the front axle assembly.
Refer to: [Axle Assembly](#) (205-03 Front Drive Axle/Differential, Removal and Installation).
2. Remove the differential cover bolts and differential cover.

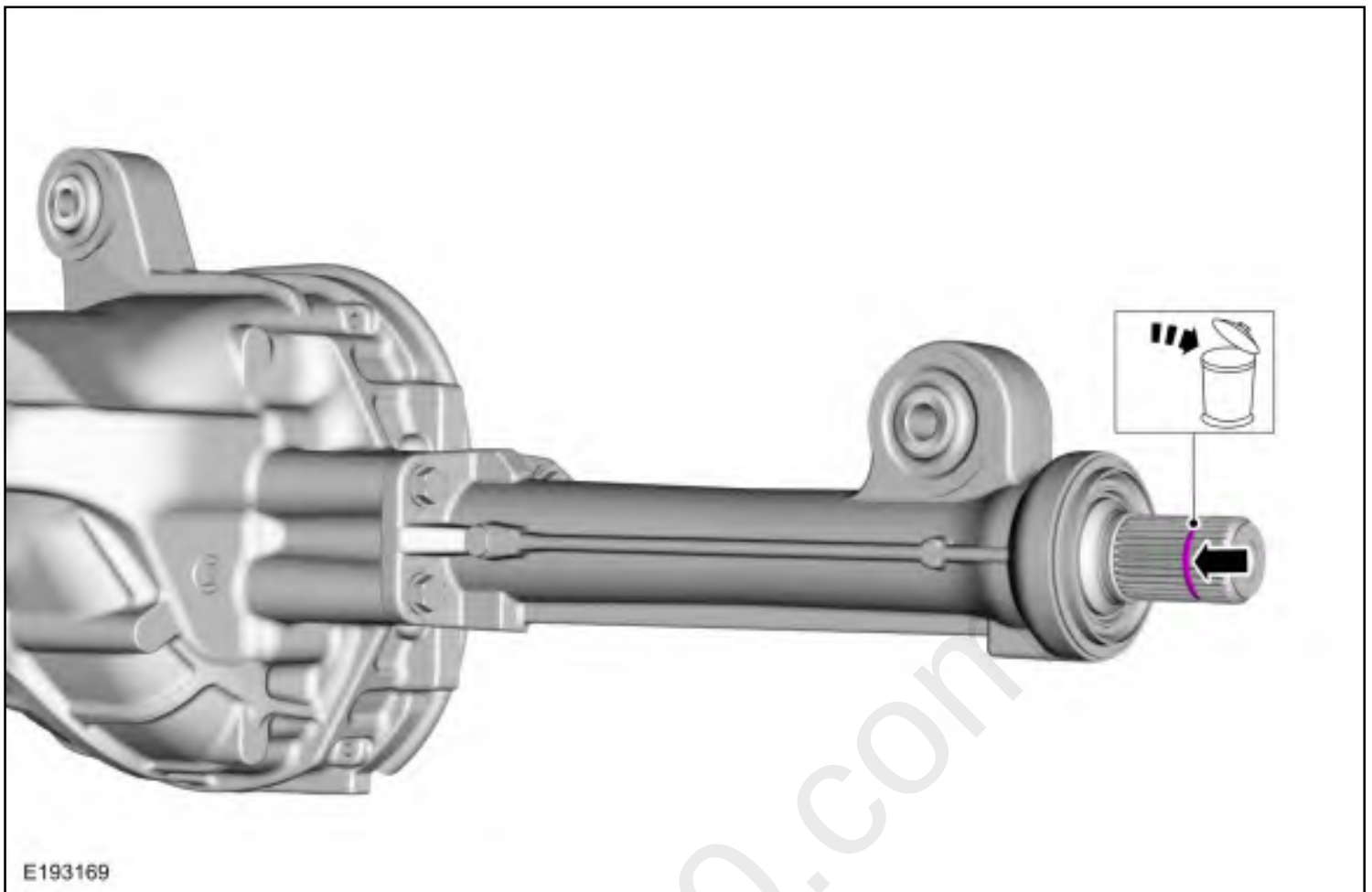


3. Using the special tool and a slide hammer, remove the axle shaft.
Use Special Service Tool: 307-397 Remover, Transmission Fluid Pump.
Use the General Equipment: Slide Hammer

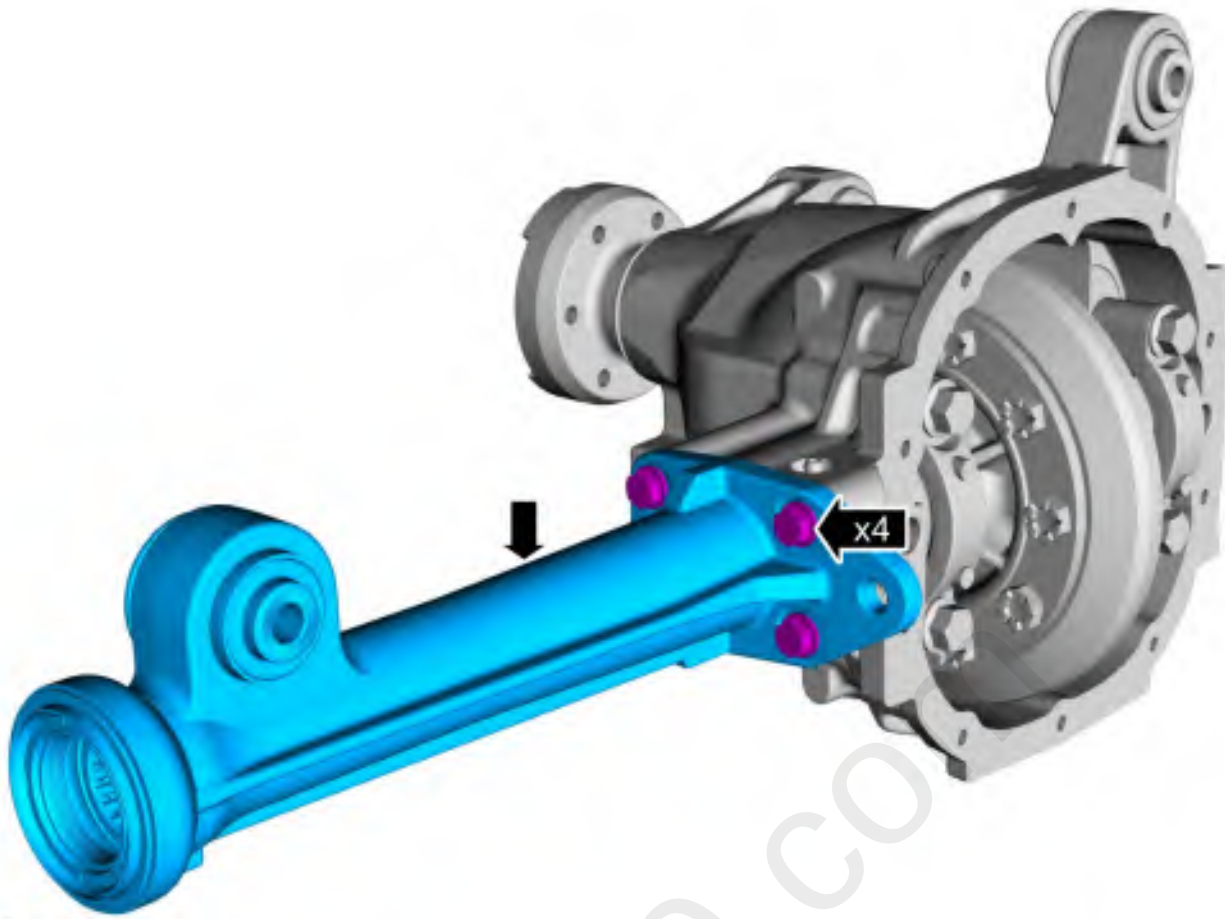


E192226

4. Remove and discard the circlip.



5. Remove the axle tube bolts and the axle tube.



6. **NOTICE:** The fixture mounting bolts must have the minimum of 12.7 mm (0.500 In) of thread engagement in the carrier or damage to the component may occur.

Using the special tool, mount the axle assembly.

Use Special Service Tool: 307-003 (T57L-500-B) Holding Fixture, Transmission.



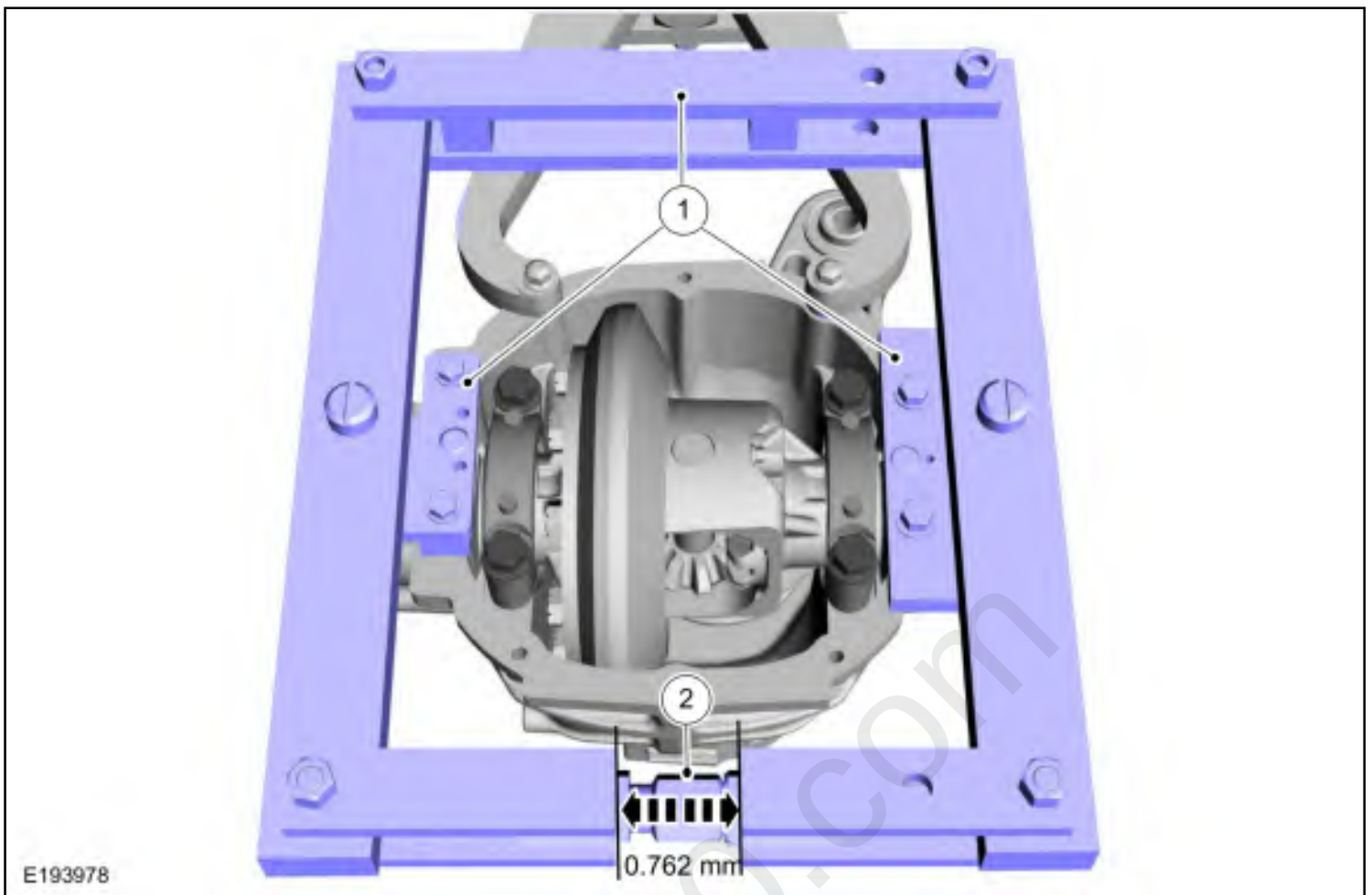
1. **NOTICE: The fixture mounting bolts must have the minimum of 12.7 mm (0.500 In) of thread engagement in the carrier or damage to the component may occur.**

Install the special tools.

Use Special Service Tool: 205-001 (TOOL-4000-E) Spreader, Differential Carrier. , 205-335 (T93P-4000-A) Spreader, Differential Housing (Plate). , 205-368 (T96T-4000-A) Adapter for Differential Housing Spreader.

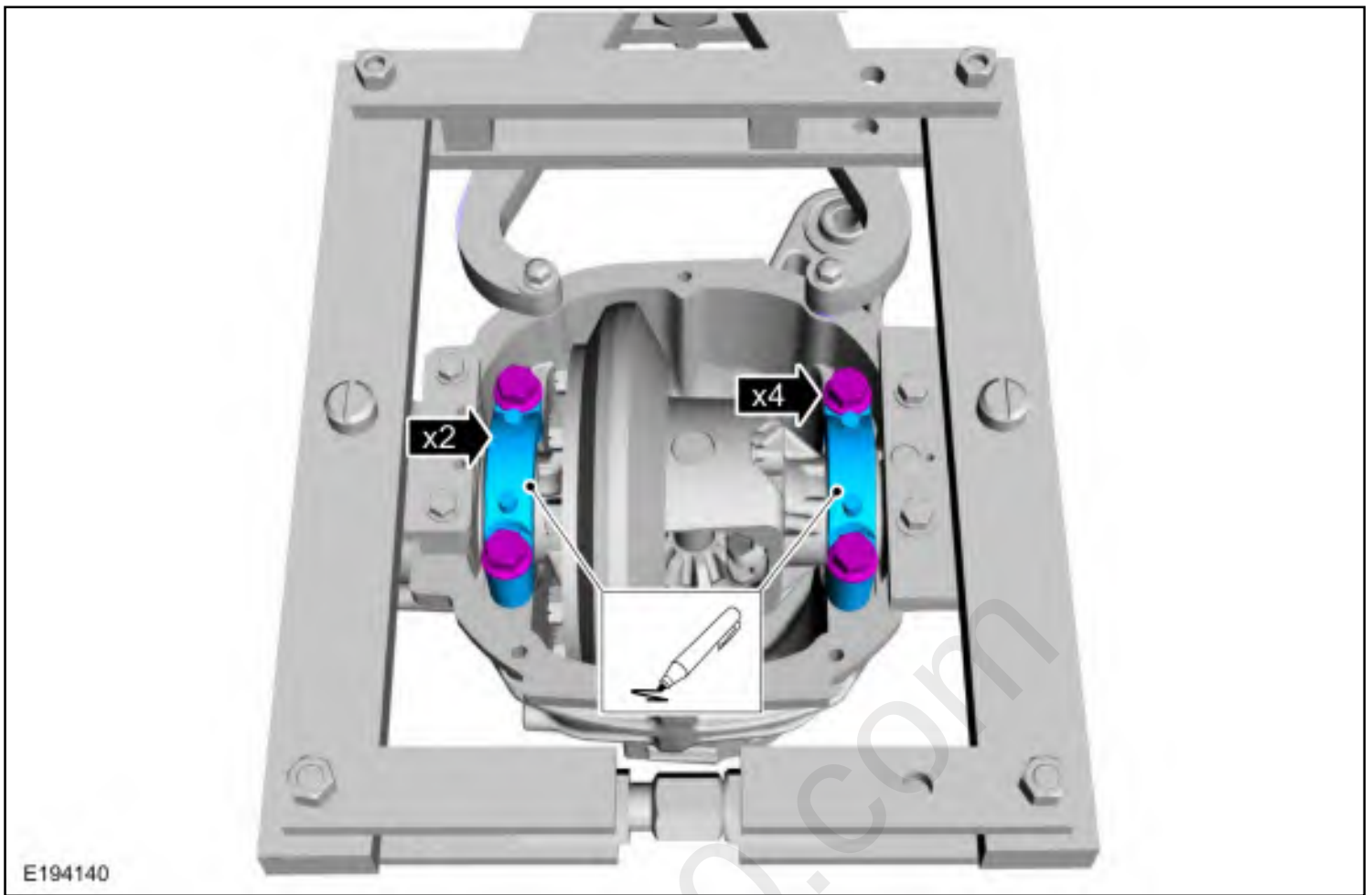
2. **NOTICE: Overspreading may damage the component. Do not spread the differential housing more than 0.762 mm (0.030 in).**

Spread the differential case by turning the spreader adjusting screw.



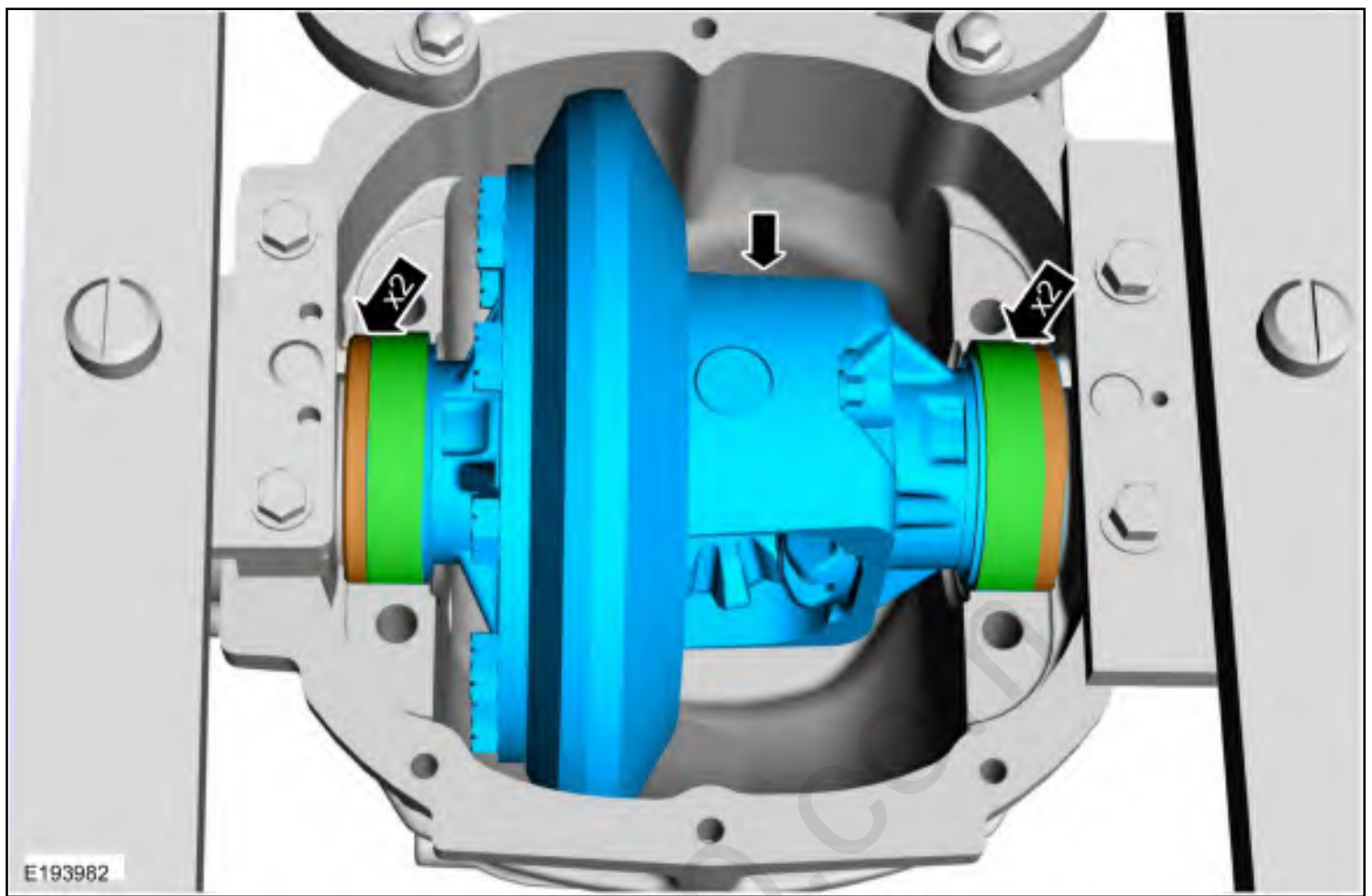
8. **NOTE:** Mark the differential bearing caps Top or Bottom and LH or RH appropriately before removing them. Always install the differential bearing caps in their original positions or damage to the component may occur.

Remove the differential cap bolts and the differential caps.



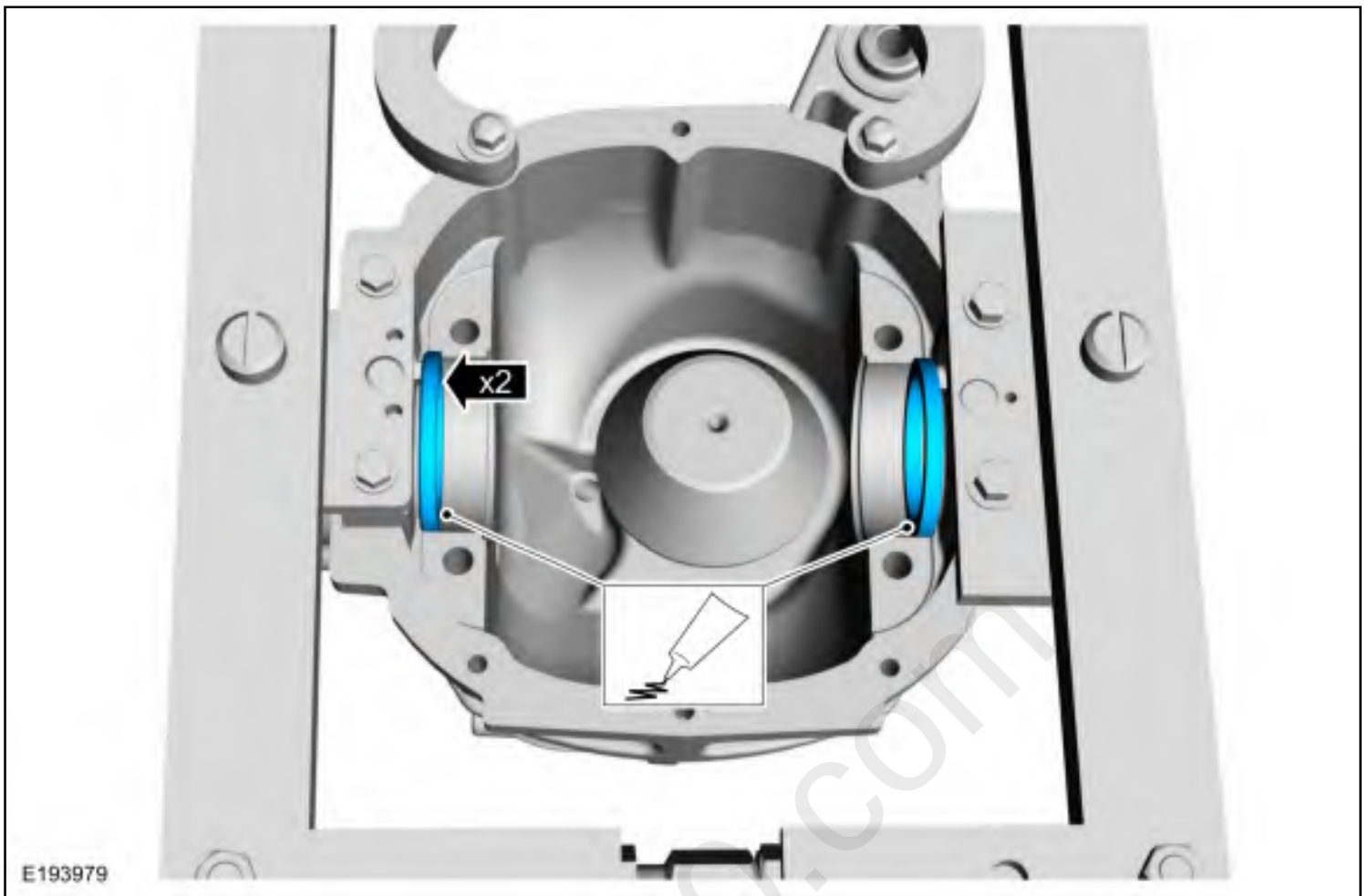
9. **NOTE:** This is a tight fit and may require the use of a prybar. Use care to not damage the differential housing.

Remove the differential carrier, differential bearing cups and the differential side shims.

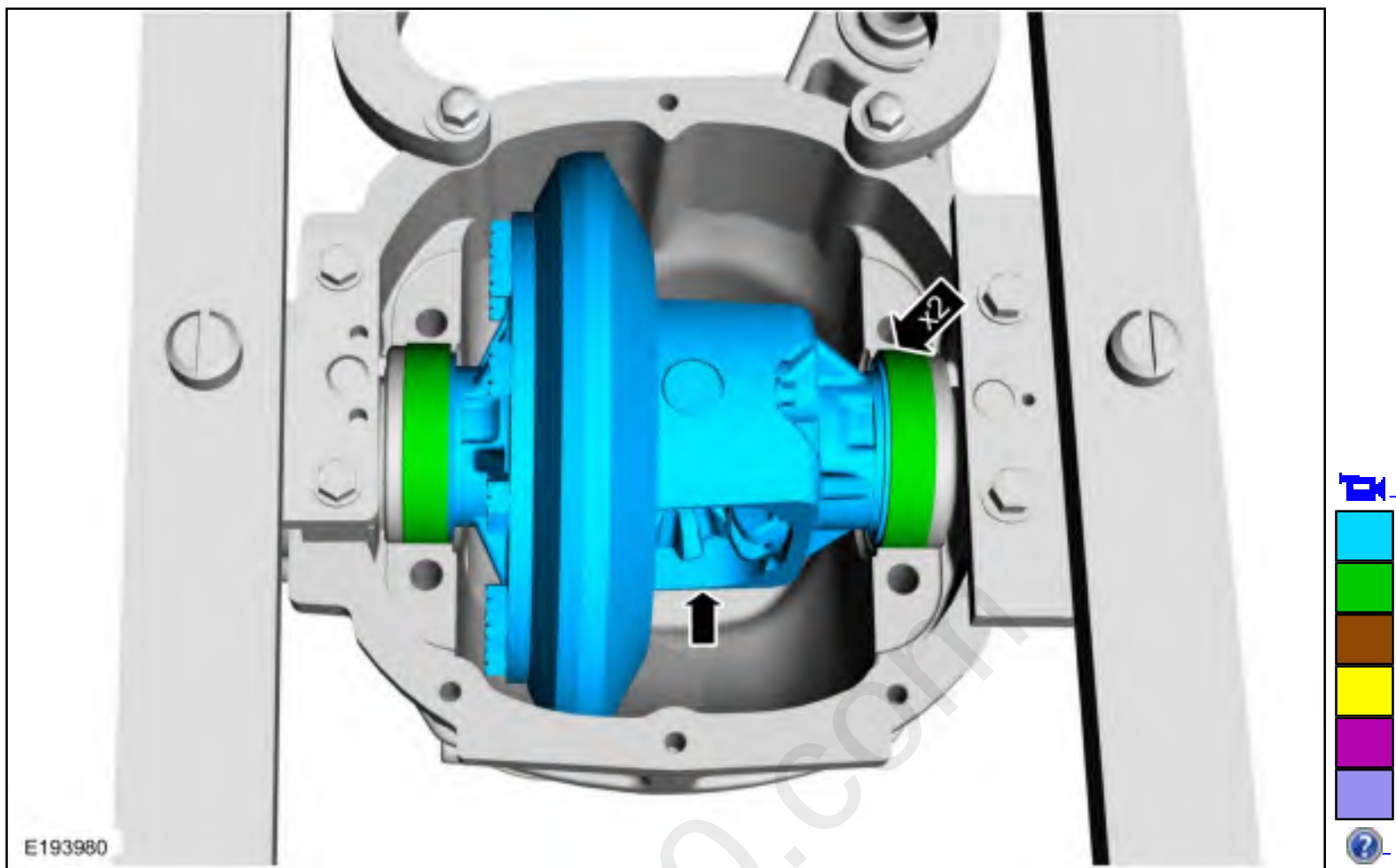


Installation

1. lubricate and install the differential carrier side shims.



2. Install the differential bearing cups and the differential carrier as a assembly.



1. **NOTICE:** The fixture mounting bolts must have the minimum of 12.7 mm (0.500 In) of thread engagement in the carrier or damage to the component may occur.

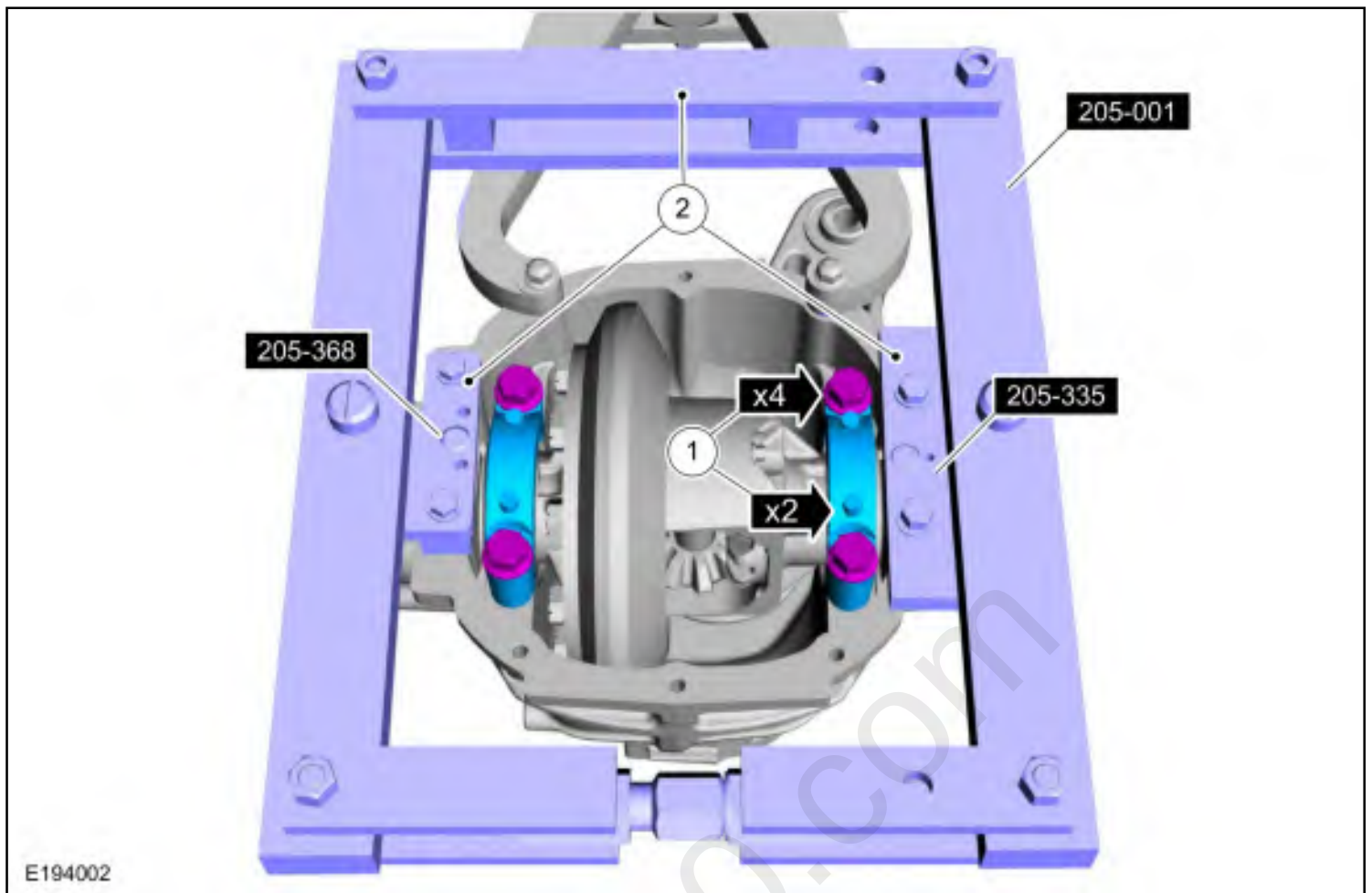
NOTE: Always install the differential bearing caps in their original positions or damage to the component may occur.

With the differential housing spread to 0.762 mm (0.030 in) maximum. Install the differential caps and the differential cap bolts.

Torque: 77 lb.ft (105 Nm)

2. Remove the special tools.

Use Special Service Tool: 205-001 (TOOL-4000-E) Spreader, Differential Carrier. , 205-335 (T93P-4000-A) Spreader, Differential Housing (Plate). , 205-368 (T96T-4000-A) Adapter for Differential Housing Spreader.



4. Using the dial indicator, measure the differential ring gear backlash at 4 equally spaced points.
Use the General Equipment: Dial Indicator



E193981



5. **NOTICE:** The fixture mounting bolts must have the minimum of 12.7 mm (0.500 In) of thread engagement in the carrier or damage to the component may occur.

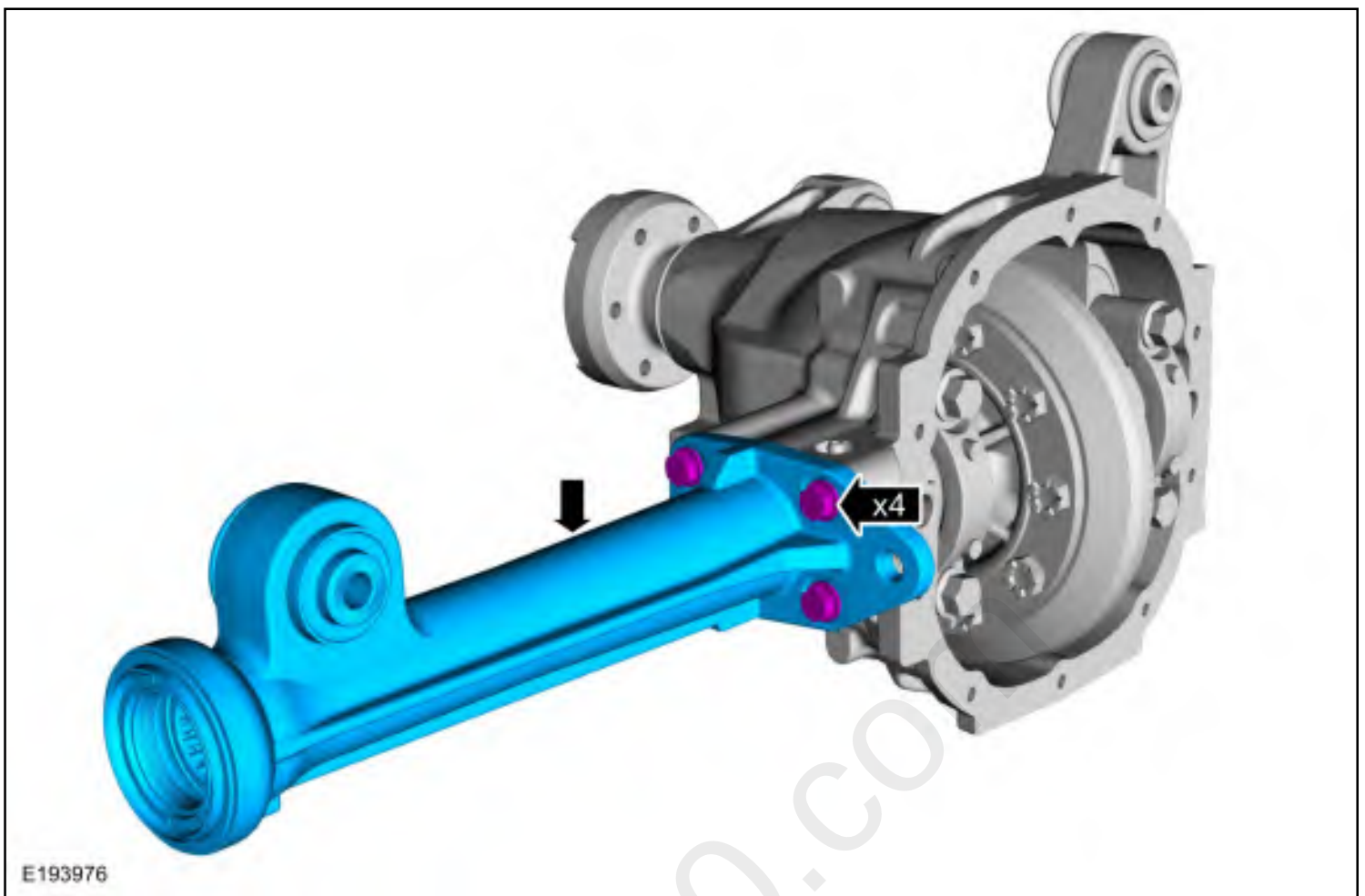
Remove the axle assembly from the special tool.

Use Special Service Tool: 307-003 (T57L-500-B) Holding Fixture, Transmission.

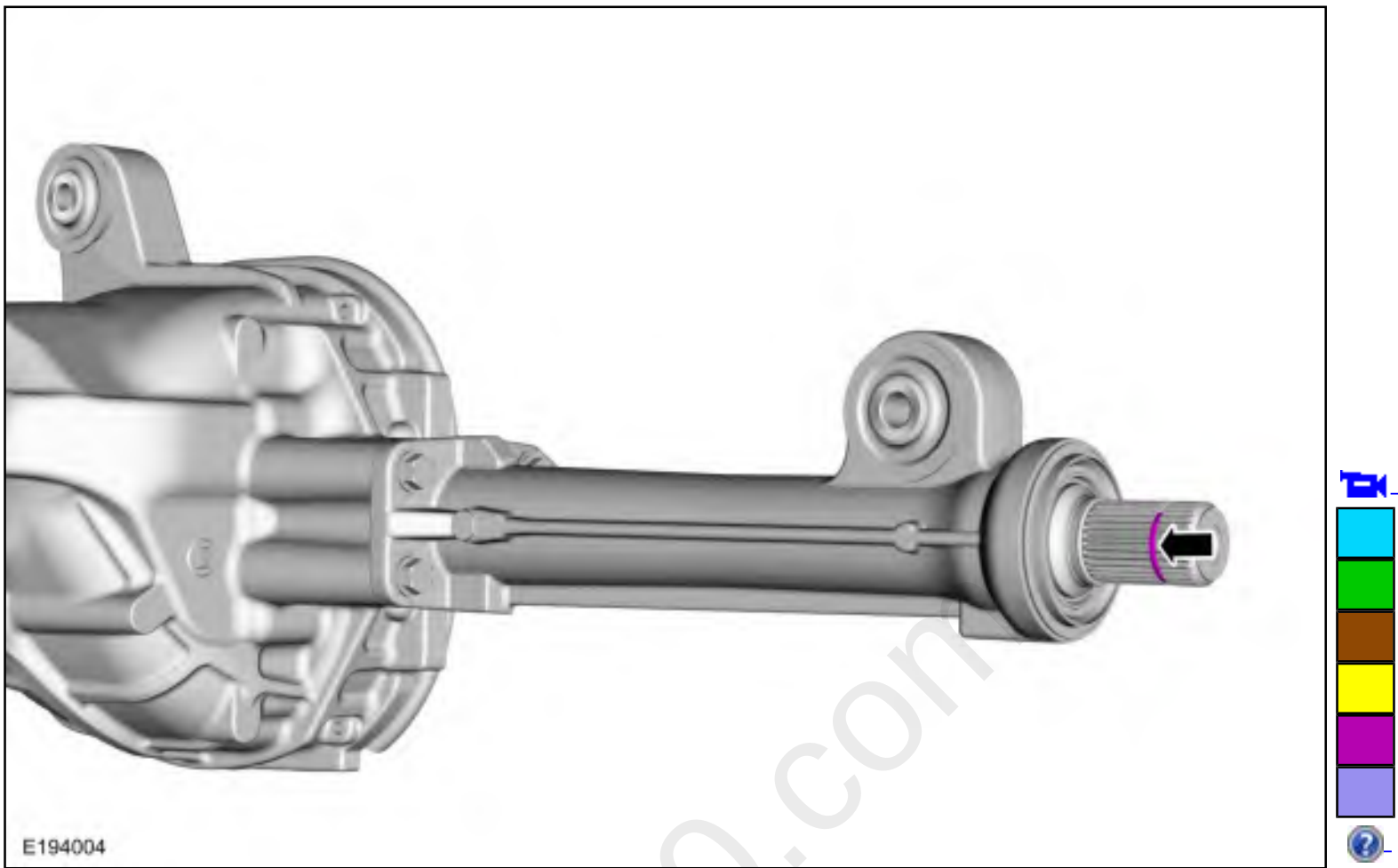


E193977

6. Install the axle tube and the axle tube bolts.
Torque: 54 lb.ft (73 Nm)

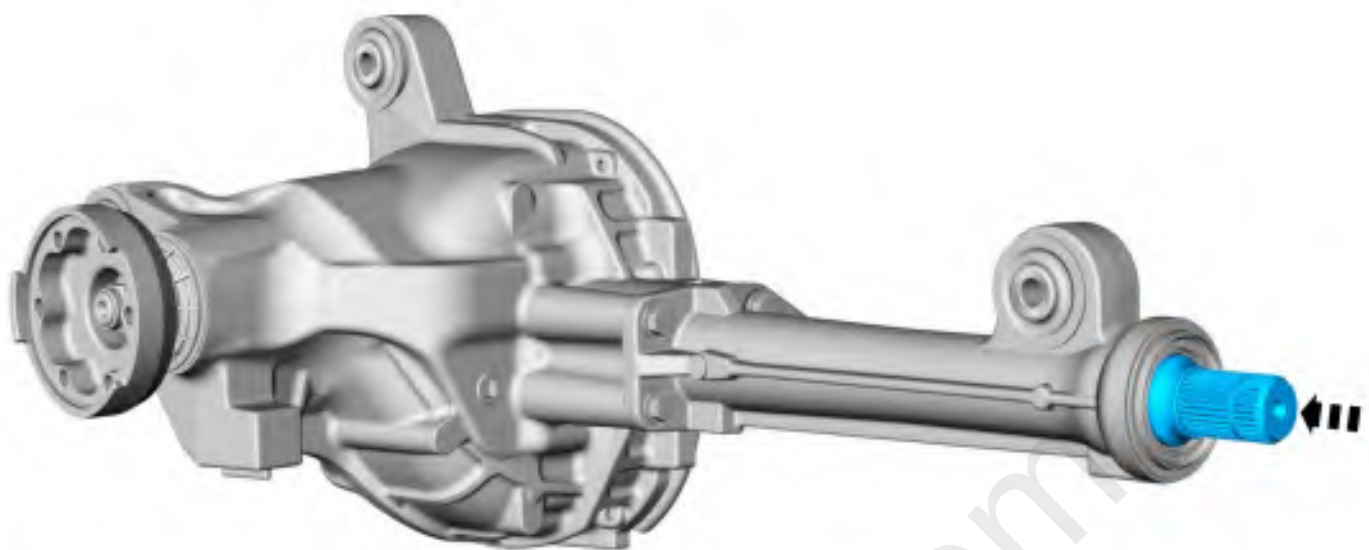


7. Install the new circlip.



8. **NOTE:** *The axle shaft is not fully seated until the circlip is engaged with the differential side gear.*

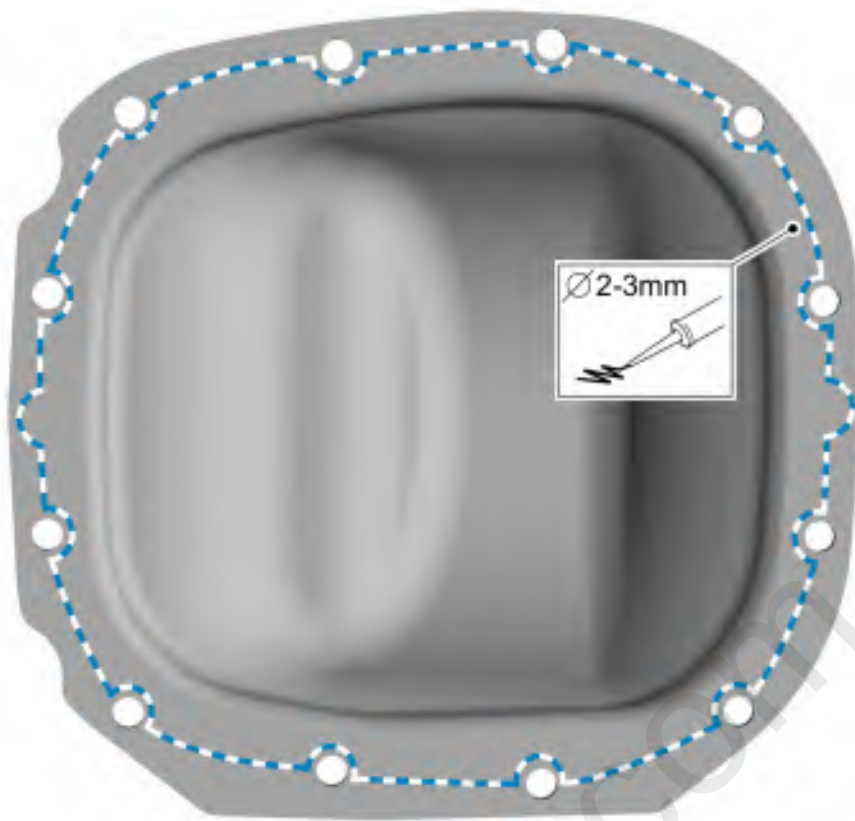
Install the axle shaft.



E192232



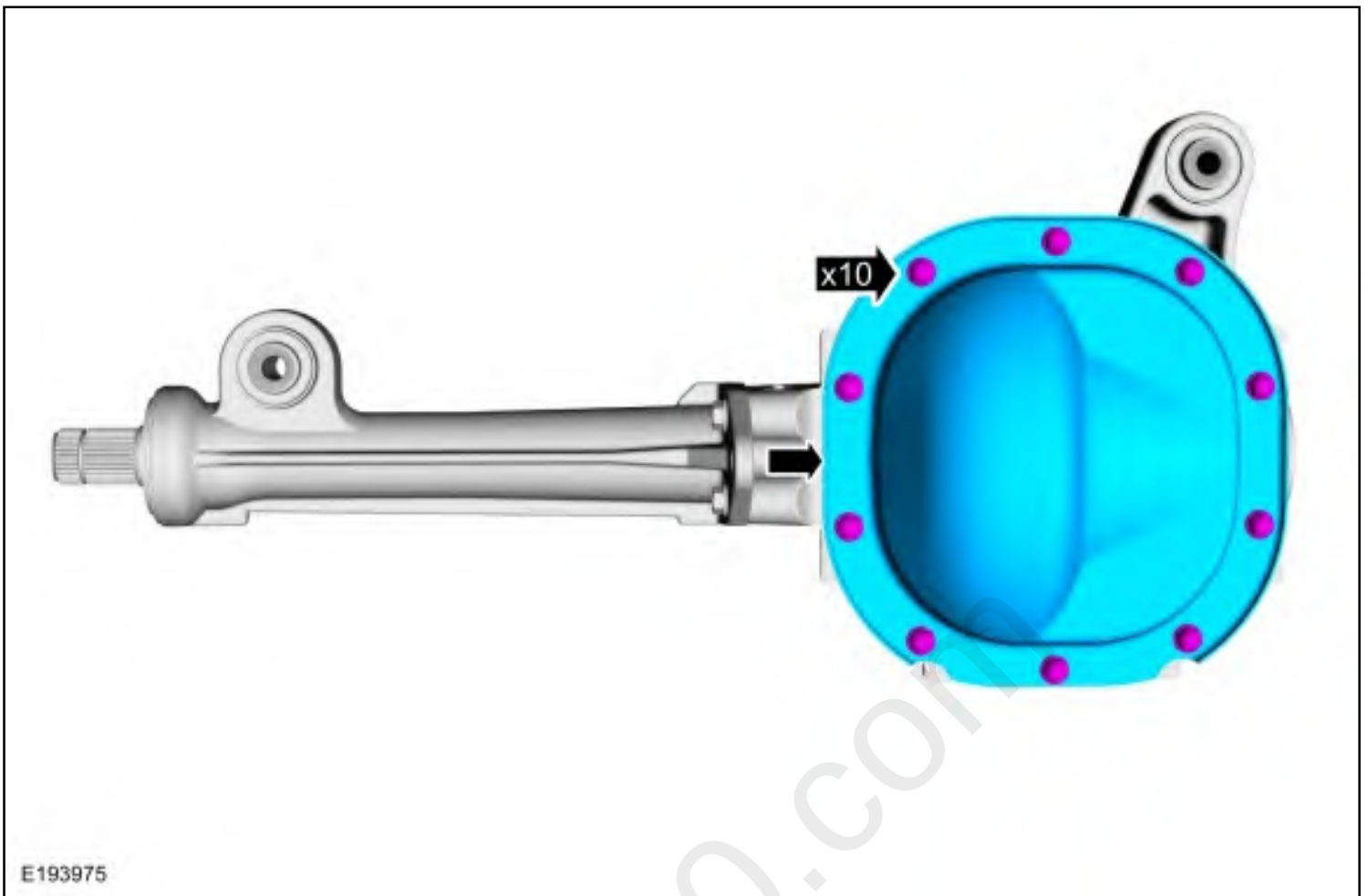
9. Apply a new continuous bead of sealant to the differential housing cover as shown.
Material: Motorcraft® Silicone Gasket and Sealant / TA-30 (WSE-M4G323-A4)



E192872

10. Install the differential cover and differential cover bolts.





11. Install the front axle assembly.

Refer to: [Axle Assembly](#) (205-03 Front Drive Axle/Differential, Removal and Installation).