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## 2017 Ford Police Interceptor Sedan Service and Repair Manual

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## Piston Inspection

<b>303-00 Engine System - General Information</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 08/28/2012</b>

### Piston Inspection

#### Inspection

##### 1. NOTE

Do not use a caustic cleaning solution or a wire brush to clean the pistons or damage can occur.

Clean and inspect the (1) ring lands, (2) pin bosses, (3) skirts and the (4) tops of the pistons. If wear marks, scores or glazing is found on the piston skirt, check for a bent or twisted connecting rod.



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##### 2. NOTE



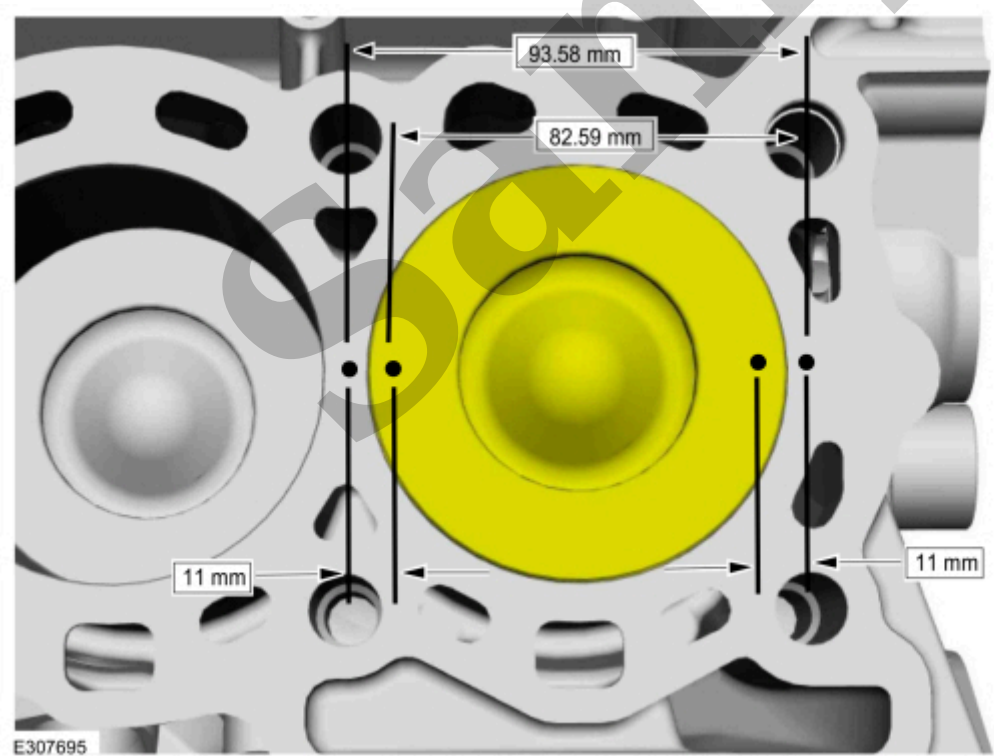
# Piston Protrusion Check

303-00 Engine System - General Information	2022 F-150
General Procedures	Procedure revision date: 06/6/2019

## Piston Protrusion Check

### Check

1. Verify that the cylinder block deck surface and the pistons are clean.
2. The piston protrusion is measured in-line front and rear avoiding raised or etched marking.



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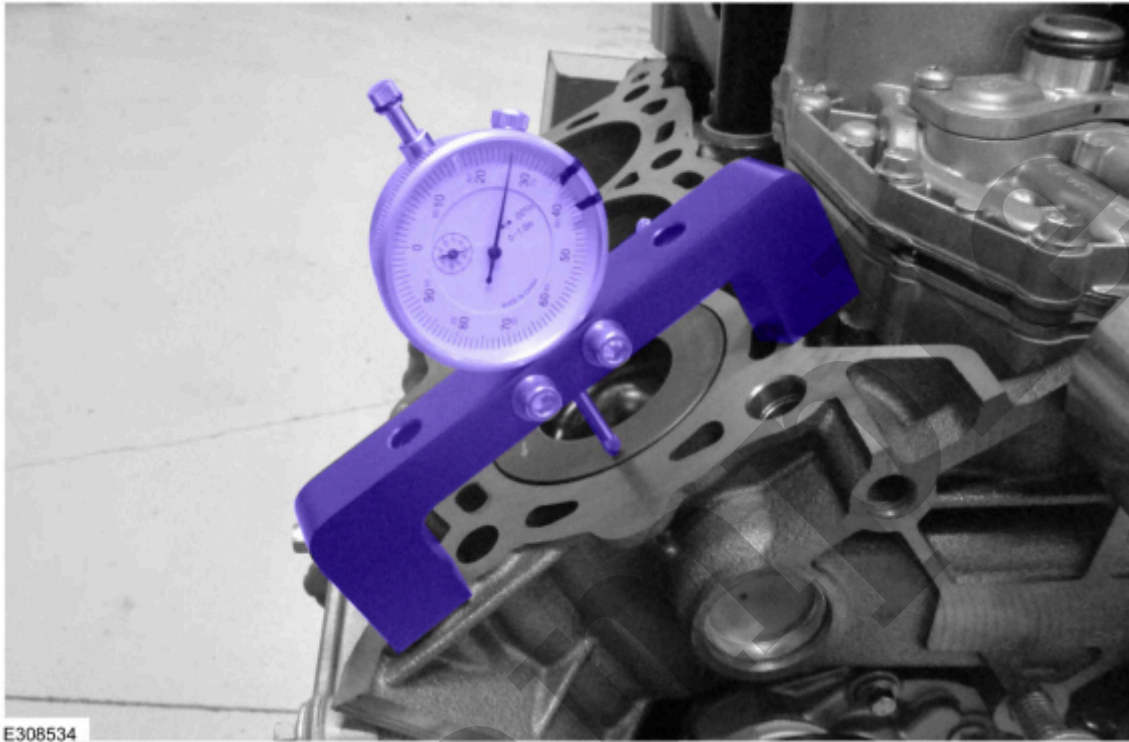
- Position the dial indicator and a commercially available deck bridge, over the piston.

Use the General Equipment: Dial Indicator

- Rotate the crankshaft until the piston is at TDC (top dead center) .

Use the General Equipment: Dial Indicator

- Record the reading.

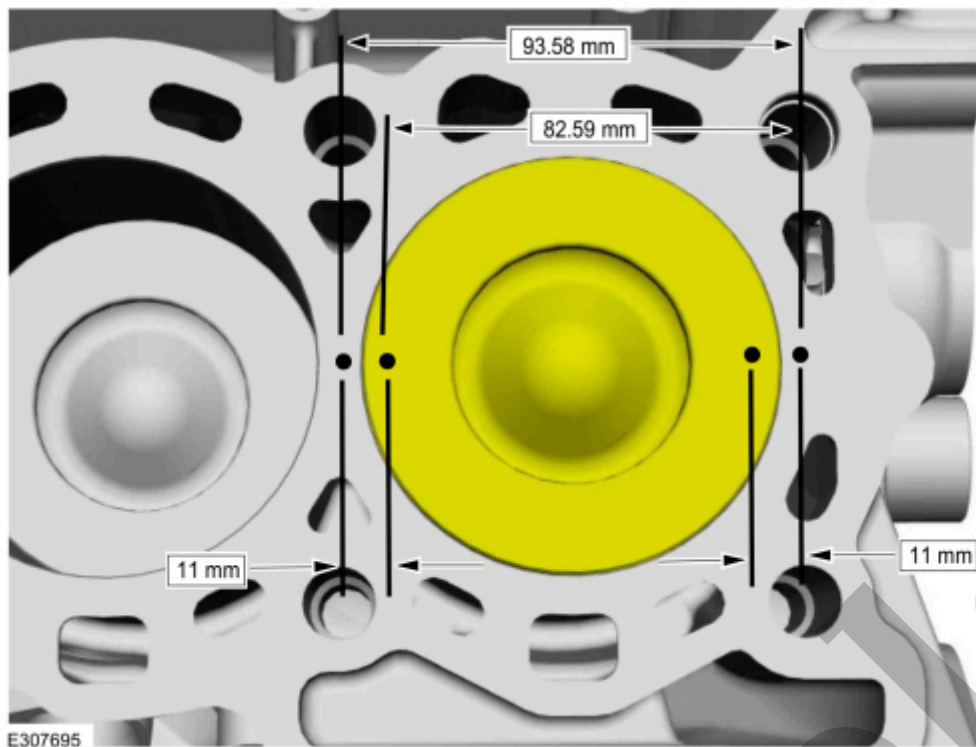


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5.
  - Move the dial indicator and the commercially available deck bridge, on the cylinder block deck surface at the opposite position.

Use the General Equipment: Dial Indicator

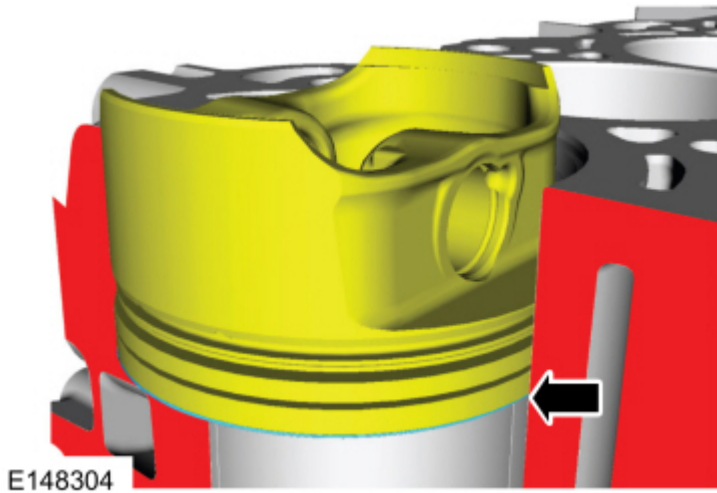
- Zero the dial indicator on the cylinder block deck surface.



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7. Average the readings and record.
8. Repeat on the remaining pistons.
9. Determine the cylinder head gasket thickness.

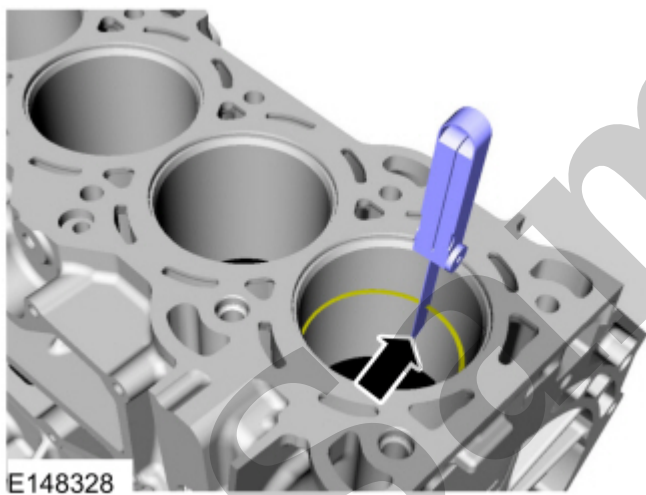
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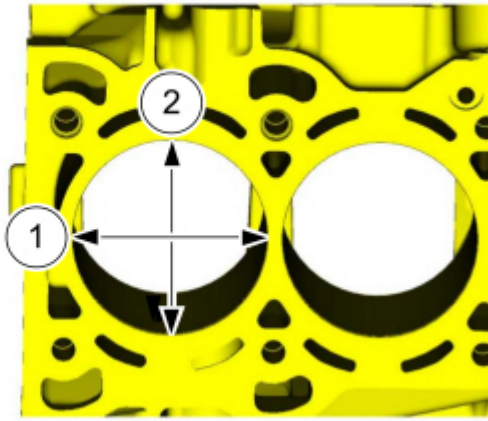
2. Using the Feeler Gauge Set measure the top piston ring end gap and the second piston ring end gap

Use the General Equipment: Feeler Gauge



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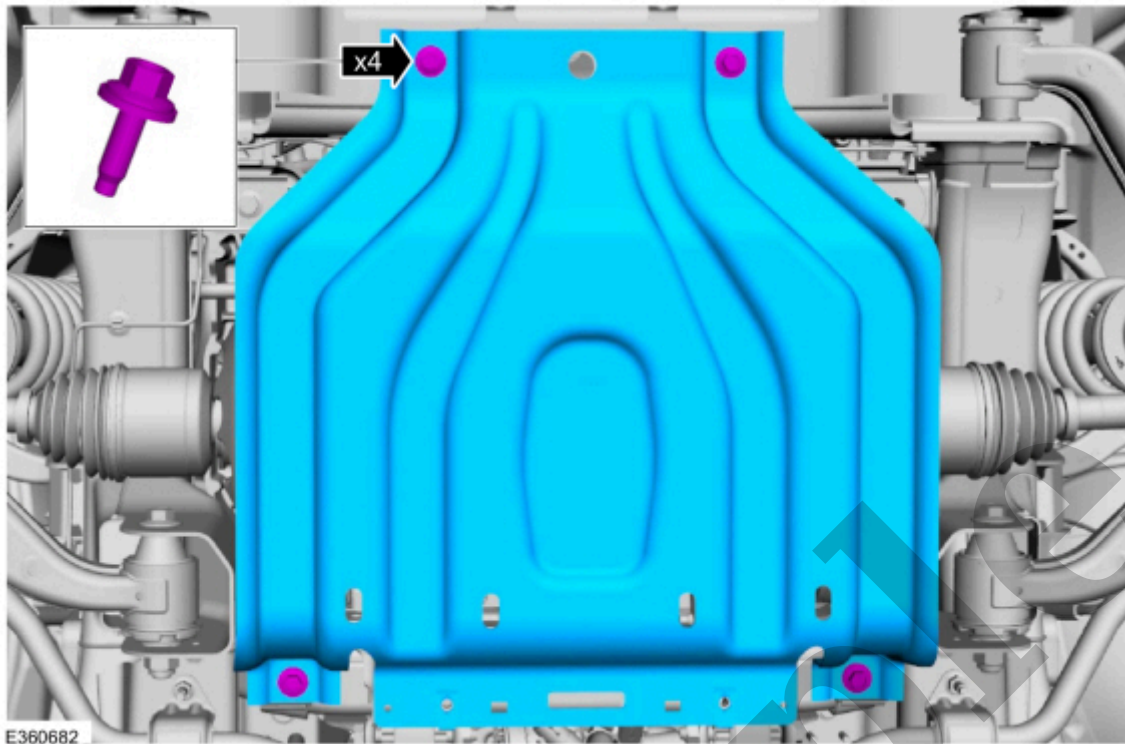
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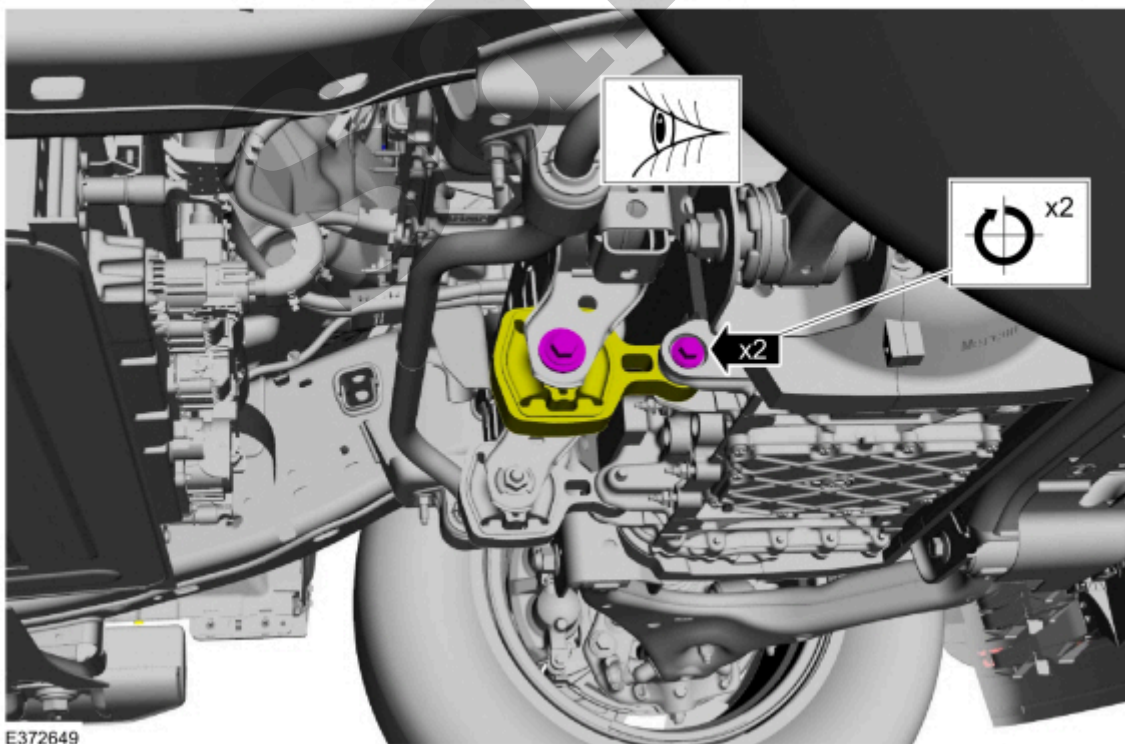


3. Remove the bolts and front undershield.

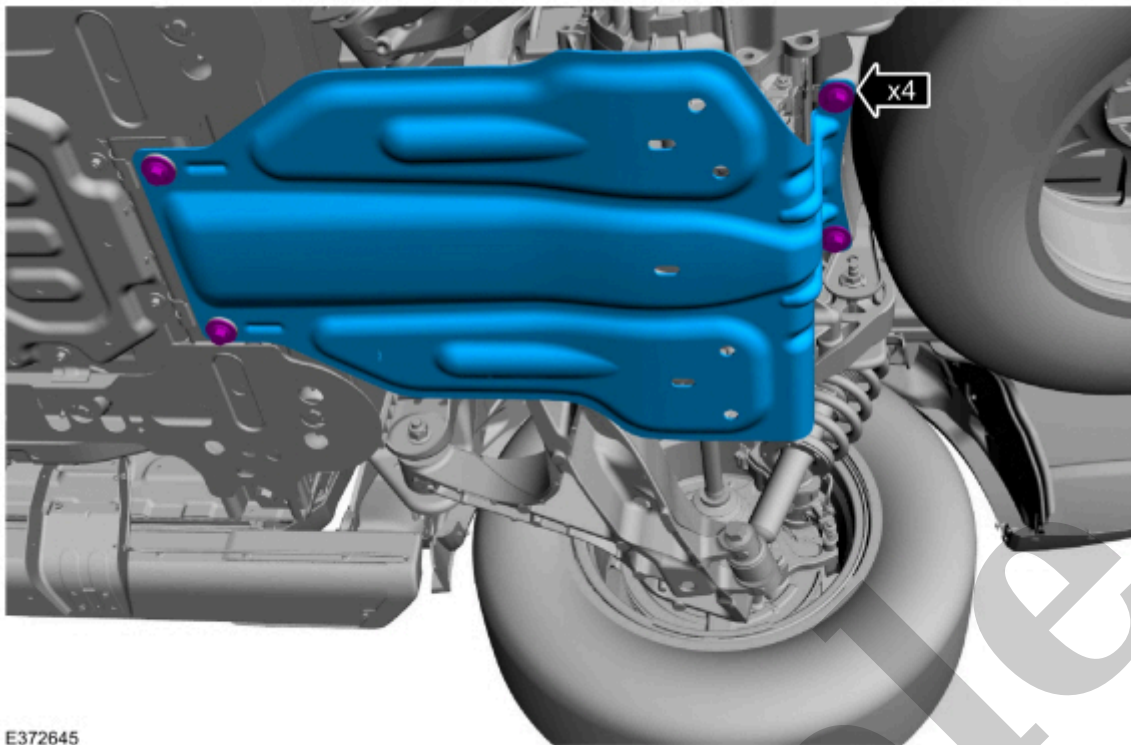


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4. Loosen, but do not remove the roll RH (right-hand) restrictor fasteners. Verify that the roll restrictor is loose.



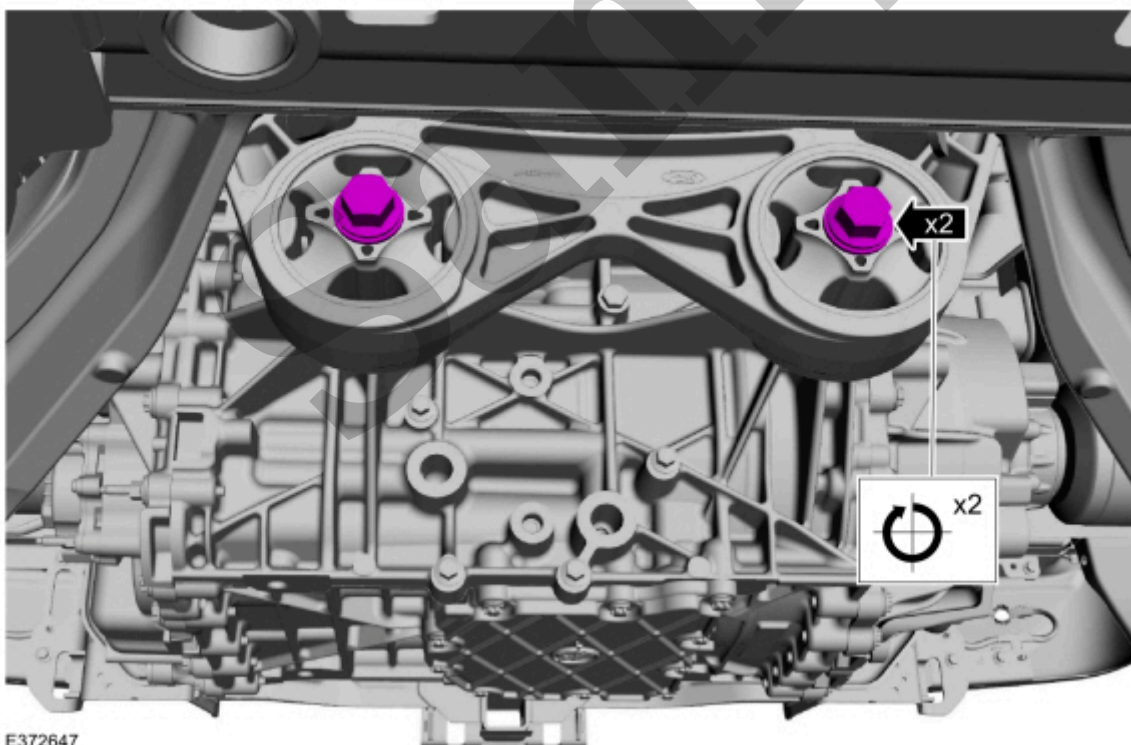




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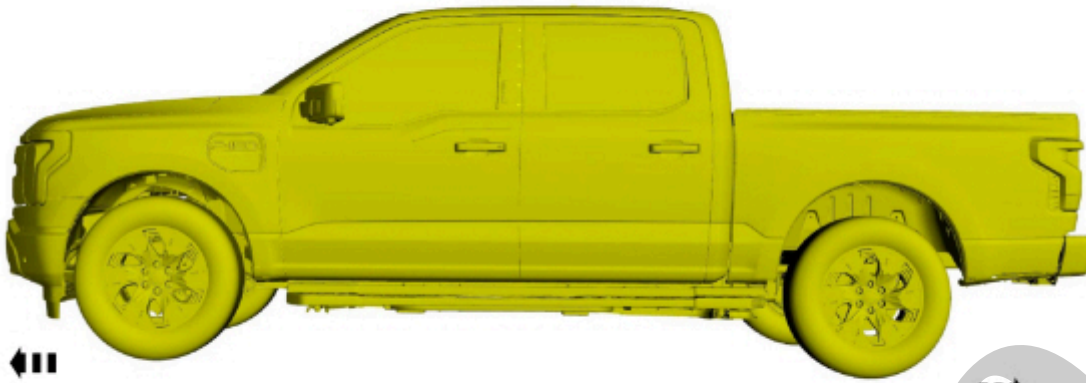
7. Loosen, but do not remove the rear electric drive assembly fasteners.



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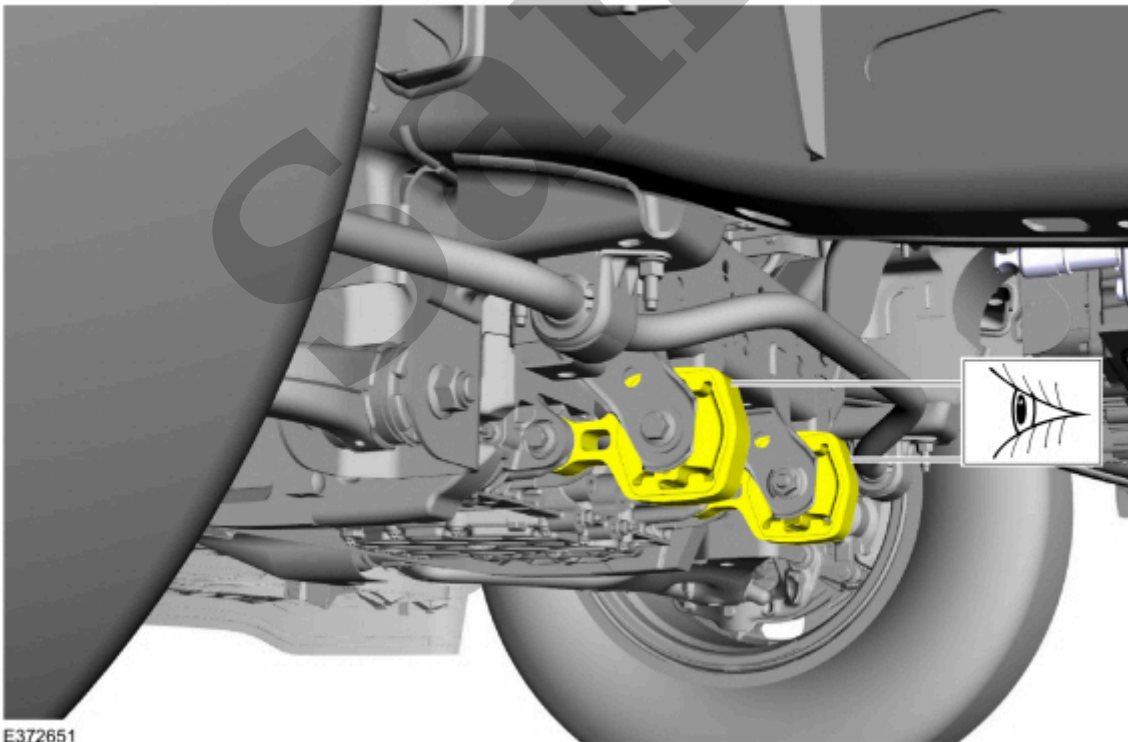
8. Loosen, but do not remove the rear electric drive assembly fasteners.



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10. Inspect the roll restrictor for preloading or binding around the clevis. The roll restrictor should be straight.



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