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## 2004 FORD Expedition OEM Service and Repair Workshop Manual

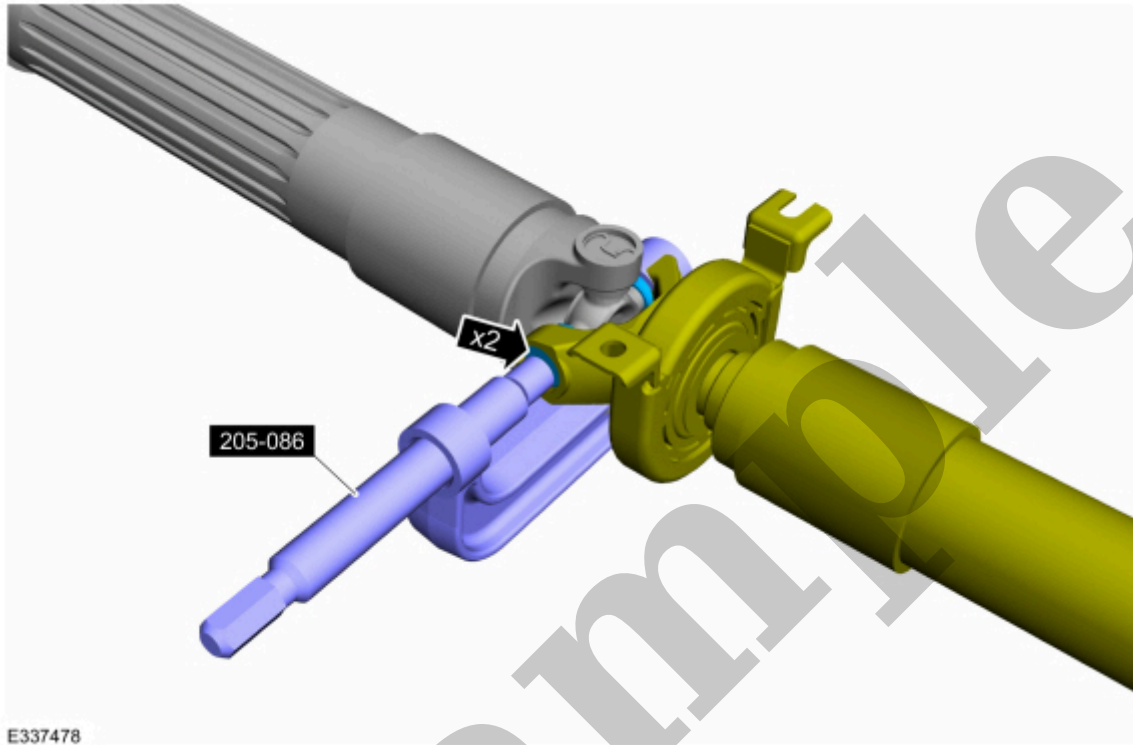
[Go to manual page](#)

4. **NOTE**

Center bearing U-joint shown, others similar.

Using the special tool, install the new bearing cups on the opposite side of the driveshaft slip yoke.

**Use Special Service Tool** : 205-086 (T74P-4635-C) Installer/Remover, C-Frame and Screw



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5. Install the new bearing cup snap rings into the driveshaft yoke grooves.

7. Install the driveshaft.

Refer to: [Rear Driveshaft](#)(205-01 Driveshaft, Removal and Installation).

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Sample

operating angles. Vehicle must be at OEM specifications before accurate evaluation and diagnosis can be performed.

## NOTE

The driveline angle must be measured with the vehicle in the same condition as the concern (loaded or unloaded) to determine the amount of adjustment necessary to correct the condition.

1. Measure the driveline angle.

Refer to: [Driveshaft Angle Measurement](#)(205-01 Driveshaft, General Procedures).

2. If the driveline does not have an optimum 4 degree operating range, use the Service Kit for Adjusting Rear Axle Pinion Angle (base part number -4C088-) to correct the angle. The kit contains all of the parts necessary for the adjustment procedure.

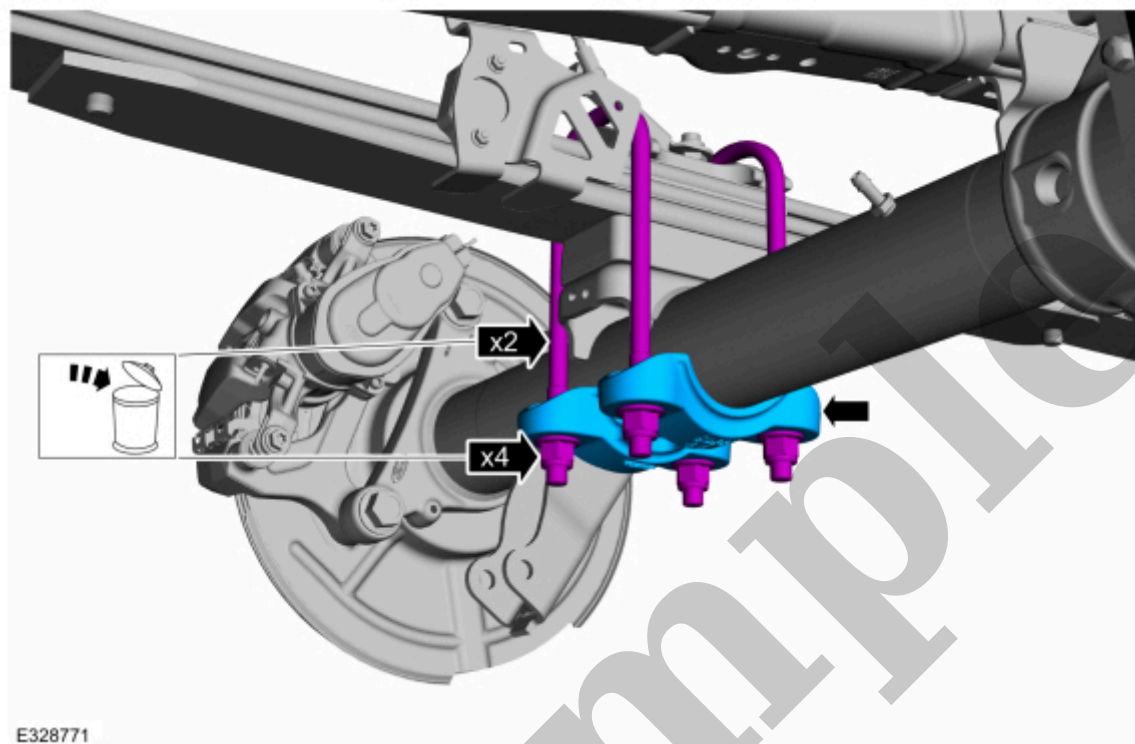
- The U-joints must be equal or within one degree of each other.
- The driveline can have a maximum 4 degree operating angle.
- The U-joints must have at least one-half of one degree continuous operating angle.

Part Number	Part Name
5A313	1 degree pinion angle shim
5A313	2 degree pinion angle shim
5595	Upper U-bolt center plate bolt (4 required)
5705	U-bolt (4 required)
W520215	U-bolt nut (8 required)
W715579	Center bearing support bolt
W717158	Center bearing support nut
4A209	Center bearing support shim
506545	Shock absorber lower bolt
W520214	Shock absorber lower nut

- Use the general equipment to support the rear axle.

Use the General Equipment: Vehicle/Axle Stands

- Remove and discard the U-bolts and nuts.
- Remove the U-bolt lower mounting plate.



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5. **NOTE**

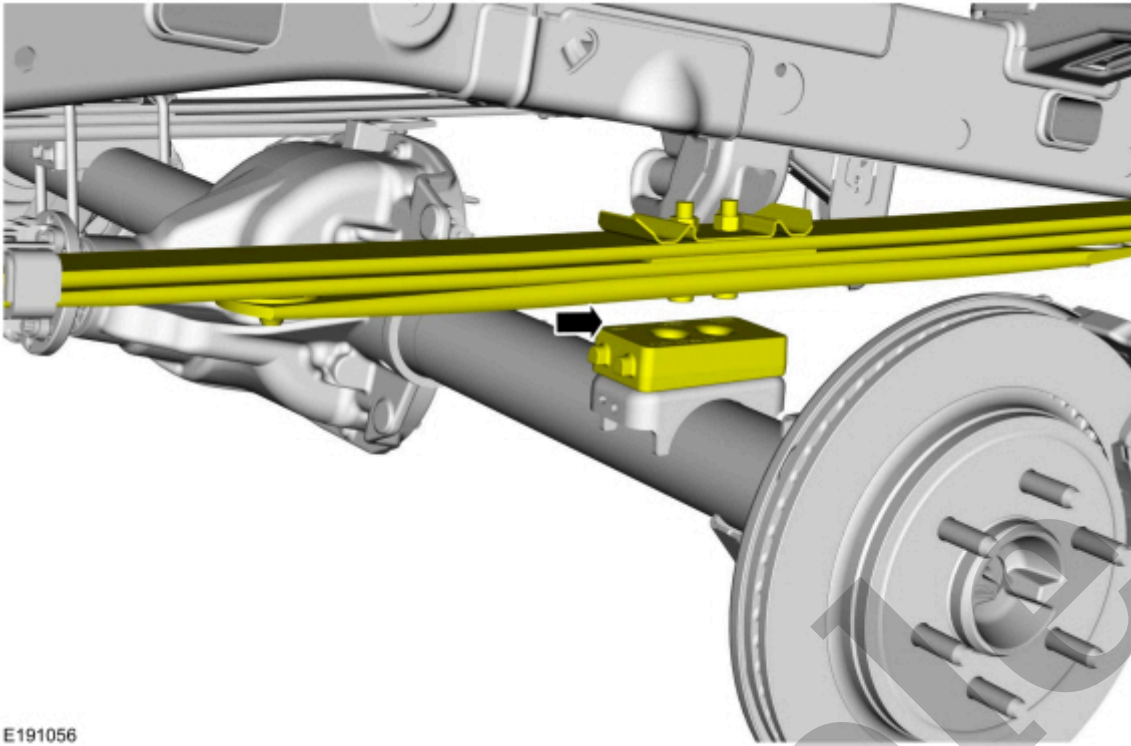
Left side shown, right side similar.

**NOTE**

Replace one bolt at time.

Replace the upper U-bolt center plate bolts.

**Torque** : 75 lb.ft (102 Nm)



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#### 7. NOTE

Left side shown, right side similar.

- Install the lower U-bolt mounting plate.
- Install the new U-bolts and new U-bolt nuts.
- With the suspension at curb height, tighten the new U-bolt nuts evenly in a cross-type pattern in 4 stages.

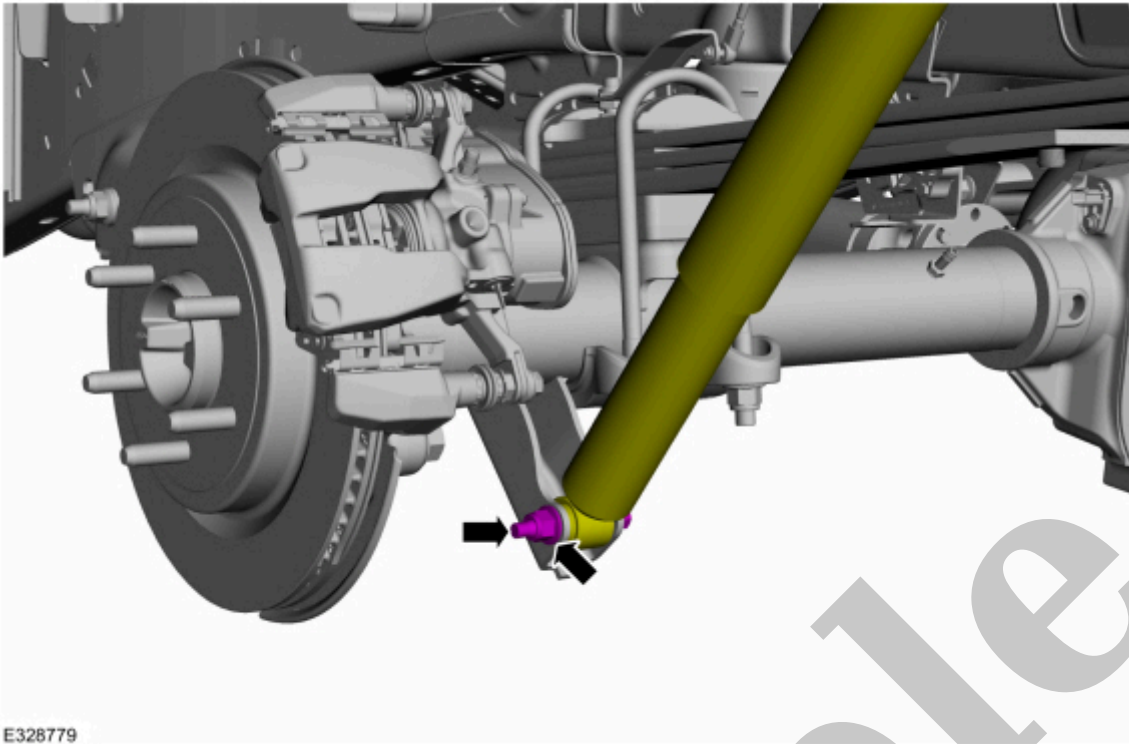
***Torque :***

Stage 1: 30 lb.ft (40 Nm)

Stage 2: 59 lb.ft (80 Nm)

Stage 3: 89 lb.ft (120 Nm)

Stage 4: 111 lb.ft (150 Nm)



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9. Measure the driveline angle.

Refer to: [Driveshaft Angle Measurement](#)(205-01 Driveshaft, General Procedures).

10. If necessary, install shims in 1/4 inch increments to lower the center bearing support as needed.

1. Remove the center bearing bolts.

**Torque** : 35 lb.ft (48 Nm)

2. Lower the center bearing.

3. Install the center bearing support lower shim.



## Driveshaft Angle Measurement

<i>205-01 Driveshaft</i>	<i>2022 F-150</i>
<i>General Procedures</i>	<i>Procedure revision date: 07/10/2020</i>

### Driveshaft Angle Measurement

#### Check

##### NOTE

This procedure does not apply to CV joints, flex couplers or double cardan joints that are used in some driveshafts. This check is for single-cross and roller-style joints found in the driveshafts.

##### NOTE

Prior to checking driveline angularity, inspect the U-joints for correct operation.

##### NOTE

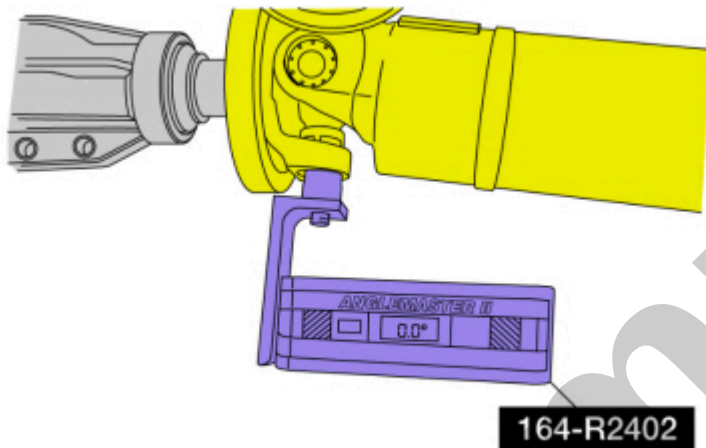
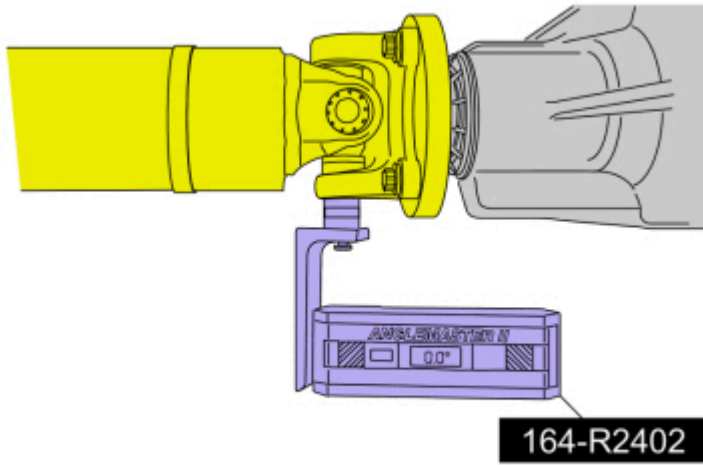
An incorrect driveline angle can cause a vibration or shudder.

##### NOTE

Driveline angularity is the angular relationship between the engine crankshaft, the driveshaft and the rear axle pinion. Factors determining driveline angularity include ride height, rear spring and engine mounts.

#### 1. NOTE

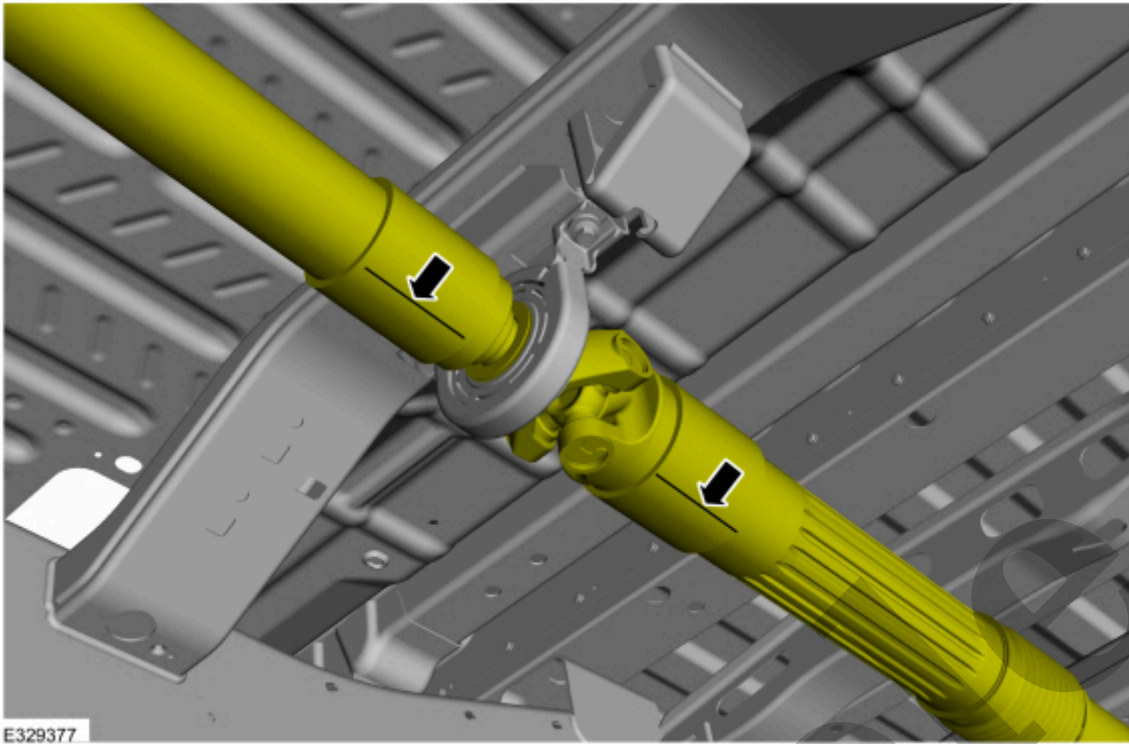




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3. Special Tool(s): Anglemaster II Driveline Inclinator/Protractor 164-R2402. Measure the slope of the connecting component. Record the measurement of the component angle as angle B.



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#### All vehicles

##### 5. NOTE

When 2 connected components slope in the same direction, subtract the smallest number from the larger number to find the U-joint operating angle. When 2 connected components slope in the opposite direction, add the measurements to find the U-joint operating angle.

Calculate the difference in the slope of the components to determine the U-joint operating angle.

##### 6. NOTE

- The U-joint operating angle is the angle formed by 2 yokes connected by a cross and bearing kit. Ideally, the operating angles on each connection of the driveshaft must:

1. be equal or within one degree of each other.
2. have a 4 degree maximum operating angle.
3. have at least one-half of one degree continuous operating angle.