

# Front Wheel Bearing and Wheel Hub

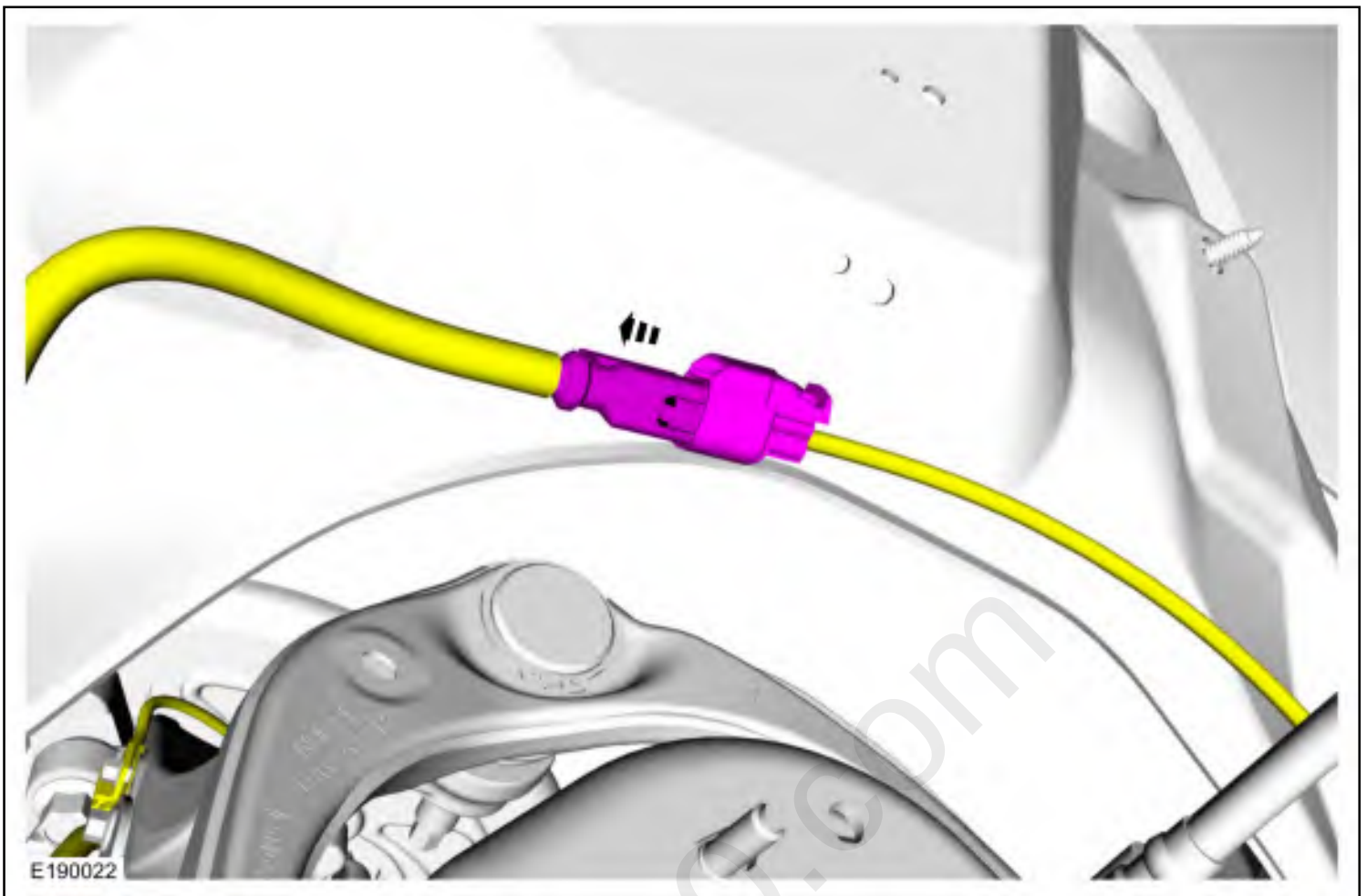
Base Part Number: Base Part Number: 1104

## Removal

**NOTICE:** Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Tighten fasteners as specified.

1. **NOTE:** *The wheel speed sensor electrical connector is located in the engine compartment secured to the fender apron.*

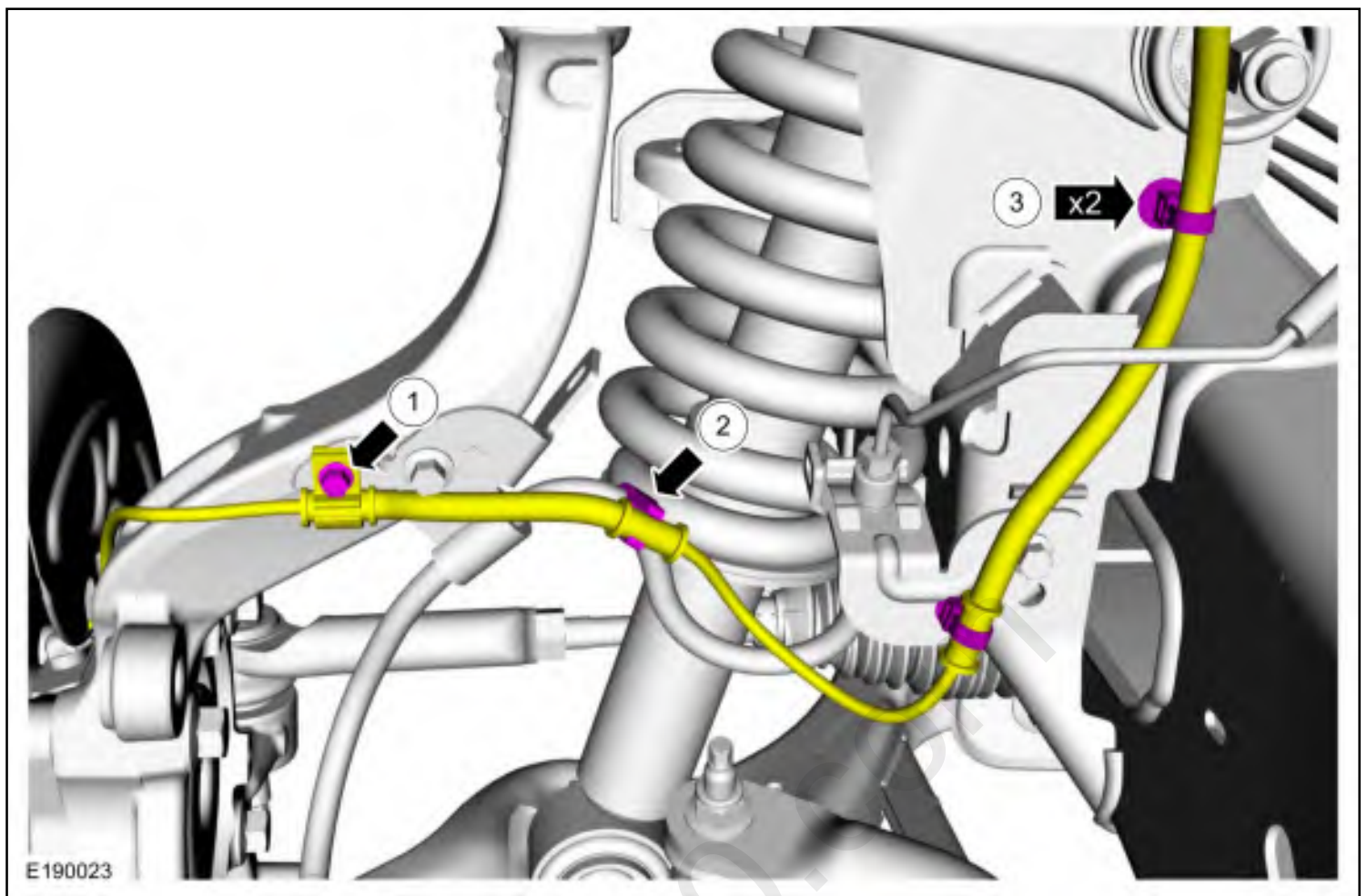
Disconnect the wheel speed sensor electrical connector.



2. Remove the brake disc.

Refer to: [Brake Disc](#) (206-03 Front Disc Brake, Removal and Installation).

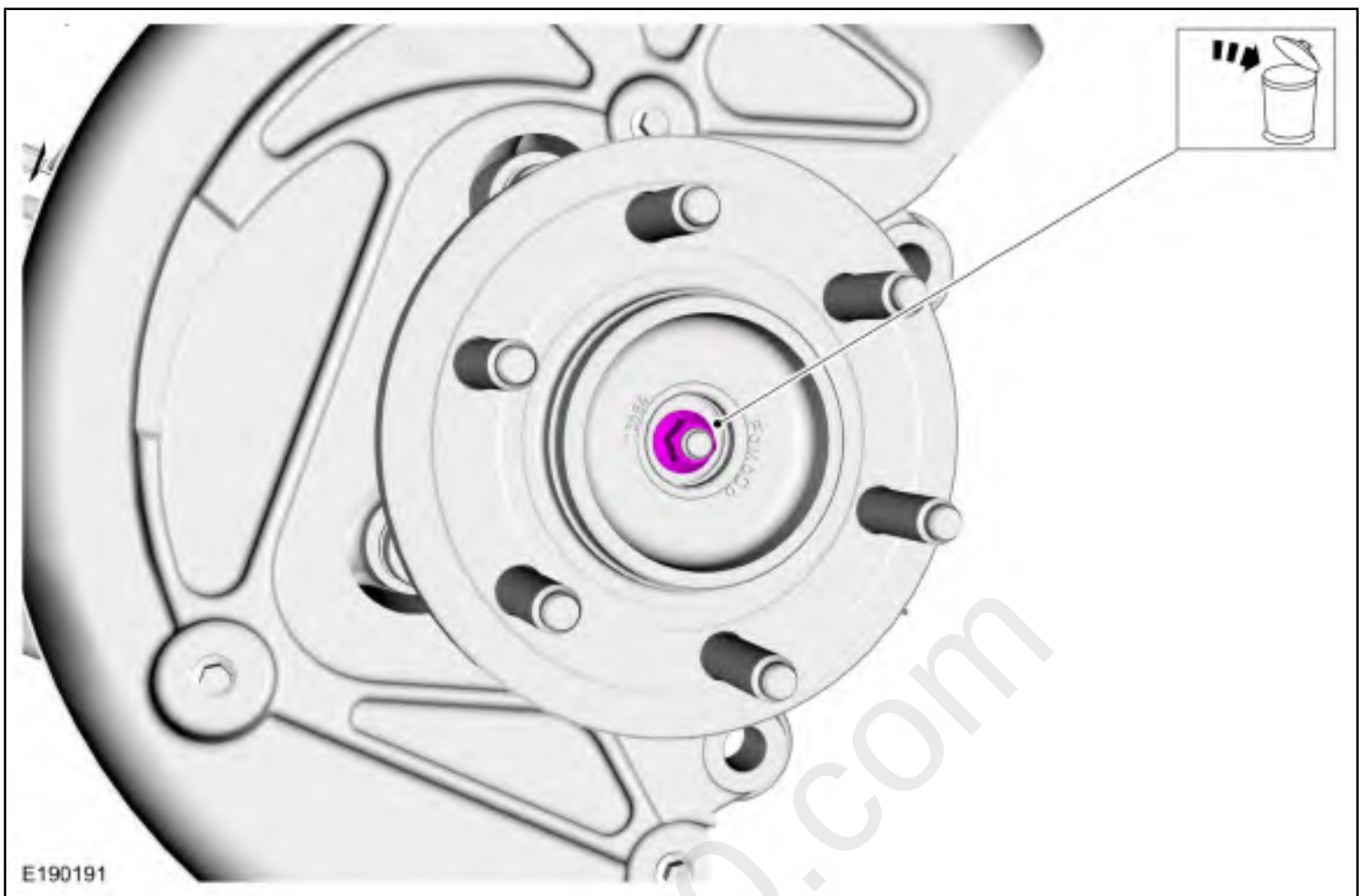
1. Remove the wheel speed sensor wire bracket bolt.
2. Unclip the wheel speed sensor wire from the brake hose.
3. Unclip the 2 wheel speed sensor wire retainers and position aside the wheel speed sensor wire.



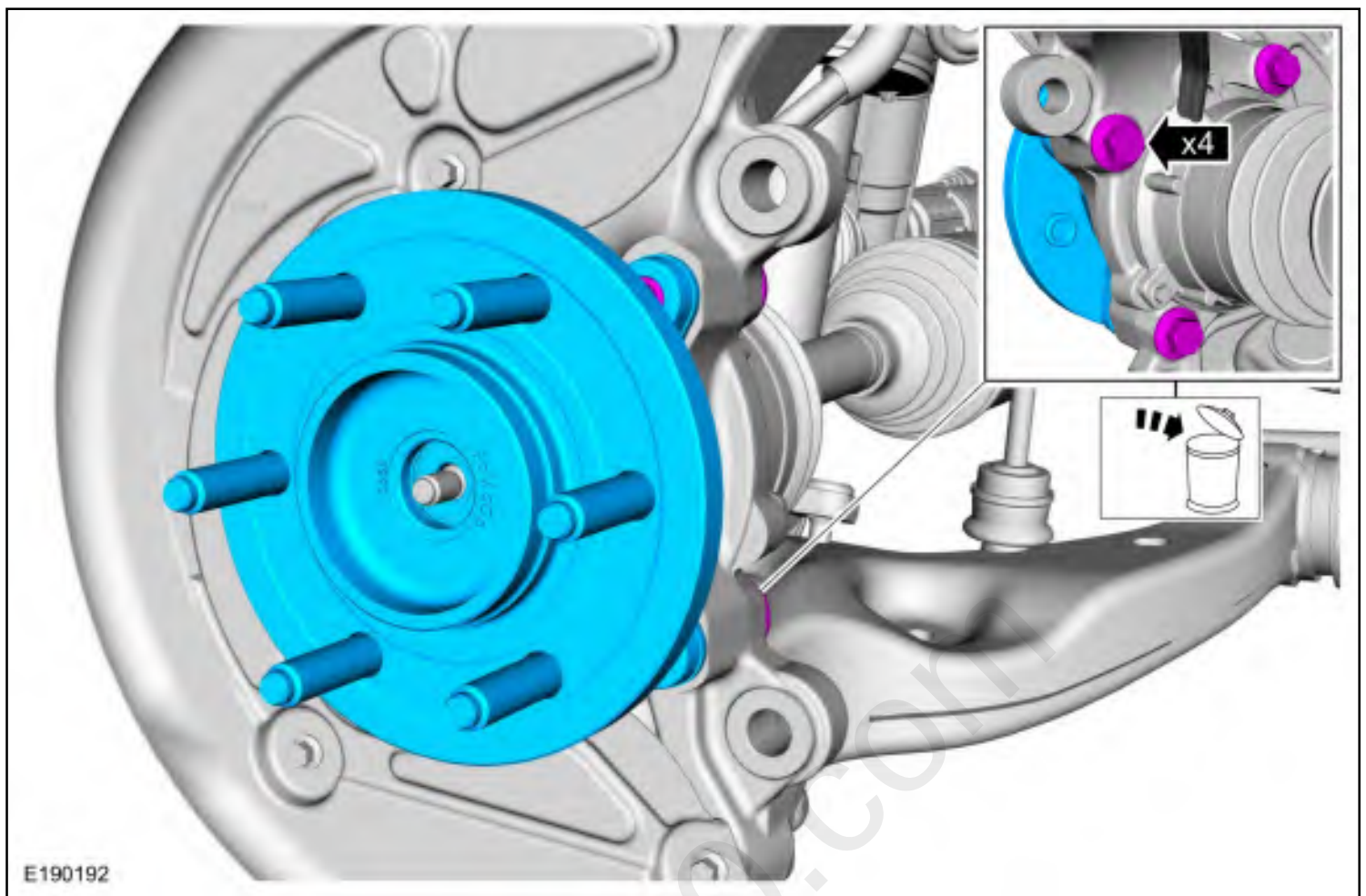
4. Remove the wheel hub nut dust cap.



5. Remove and discard the wheel hub nut.



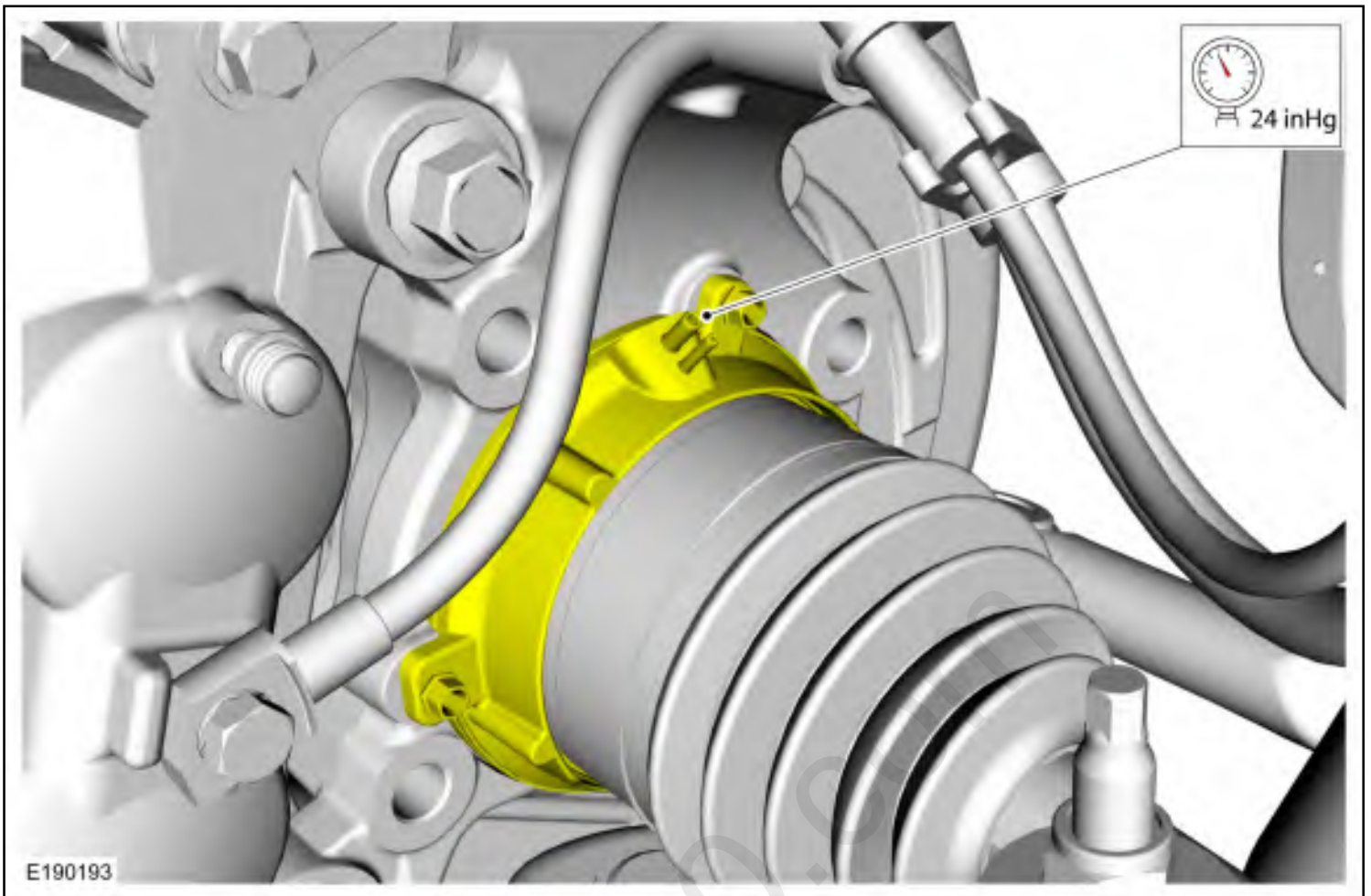
6. Remove and discard the 4 front wheel bearing and wheel hub bolts and remove the front wheel bearing and wheel hub.



## Installation

1. **NOTICE:** While placing the wheel bearing and wheel hub into the wheel knuckle, hold the CV outboard joint with outboard pressure to maintain spline engagement with the IWE actuator gear.

Using a hand vacuum pump apply and hold 24 inHg of vacuum to the IWE actuator through the large port on IWE to retract the actuator.

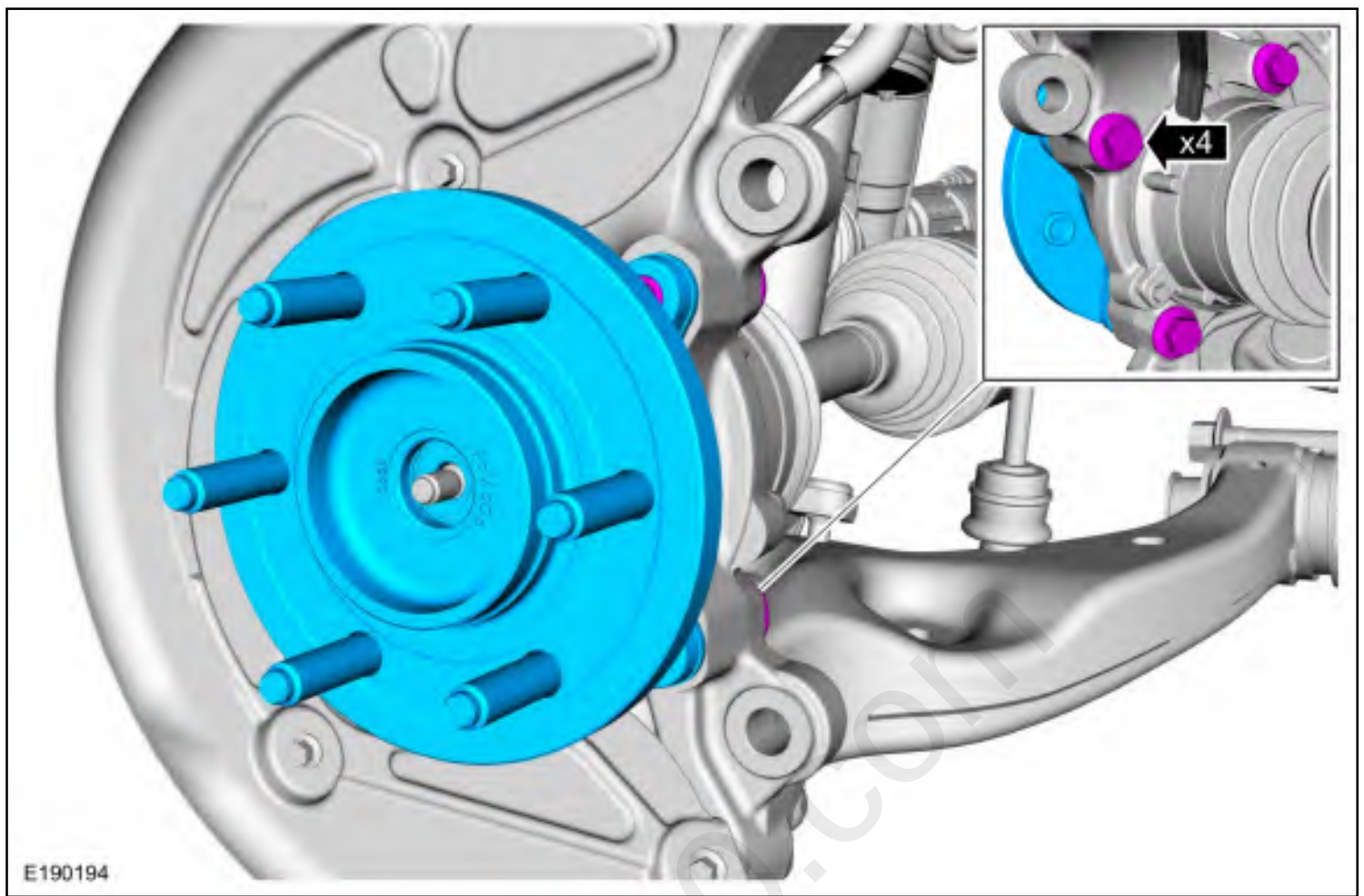


2. **NOTICE:** If the original wheel bearing and wheel hub is being installed, install a new wheel hub O-ring seal or damage to the wheel bearing may occur.

**NOTE:** *Tighten the bolts in a cross pattern.*

Position the front wheel bearing and wheel hub and install the 4 new front wheel bearing and wheel hub bolts.

*Torque:* 129 lb.ft (175 Nm)



3. **NOTICE:** Measure the depth of the CV shaft threaded end to the inner bearing race (shown in illustration). The minimum depth is 15.5 mm (0.61 in). If the depth is less than 15.5 mm (0.61 in) rotate the CV shaft to clear a binding condition between the IWE and CV splines. Installing the axle nut and tightening without the proper depth of protrusion will result in damage to the IWE.

Measure the CV shaft threaded end to the inner bearing race.

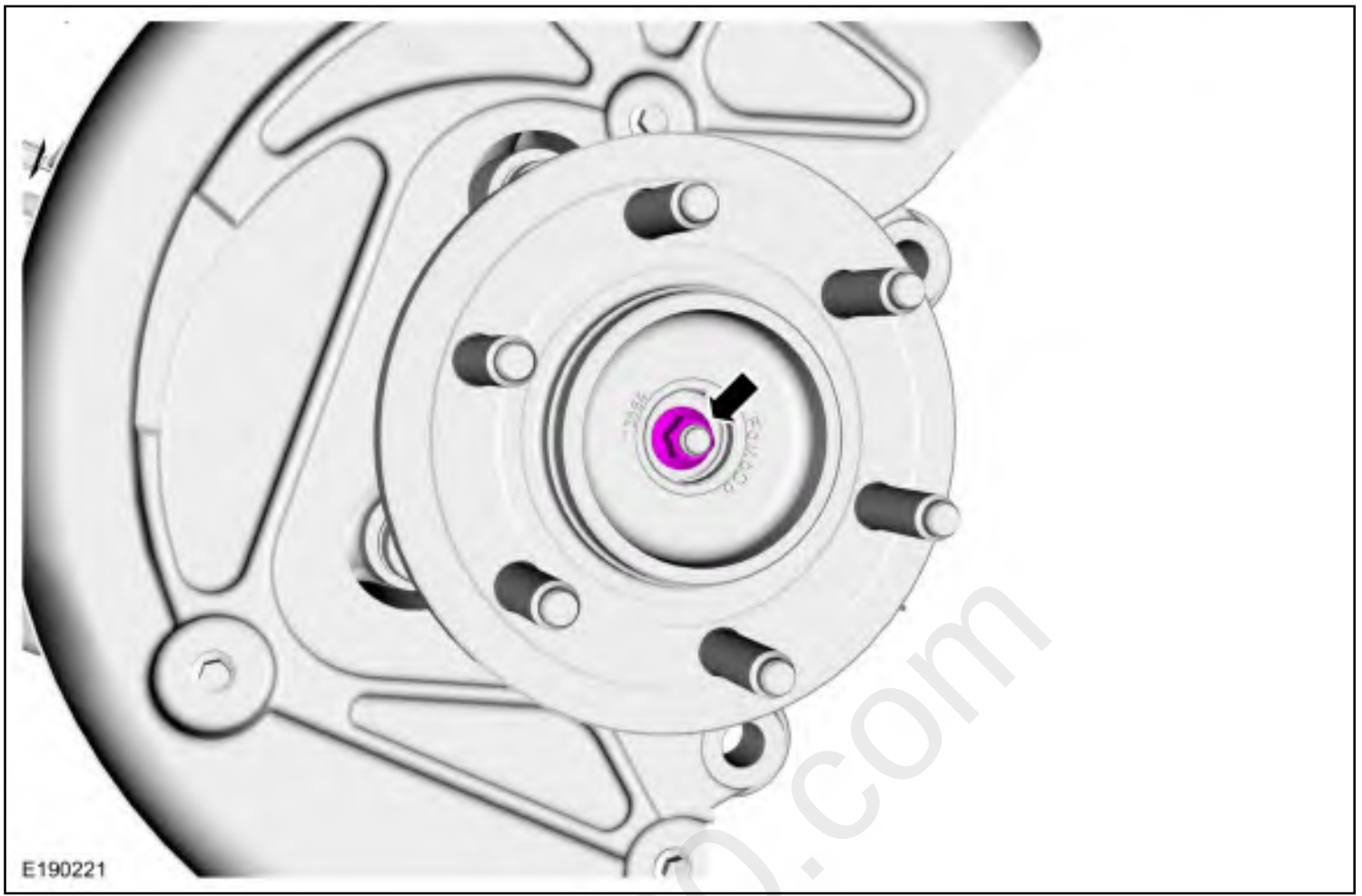


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4. **NOTICE:** Verify the spline engagement by checking for spline lash before installing the wheel hub nut or component damage may occur.

**NOTE:** *With vacuum still applied to the IWE.*

1. Install the new the axle nut.  
*Torque: 30 lb.ft (40 Nm)*
2. Verify free rotation of the hub with no CV joint rotation. No clicking or grinding noise should be present.
3. Release vacuum and rotate bearing slightly to engage actuator (may hear single click when IWE system engages). Verify hub and CV joint rotate together.



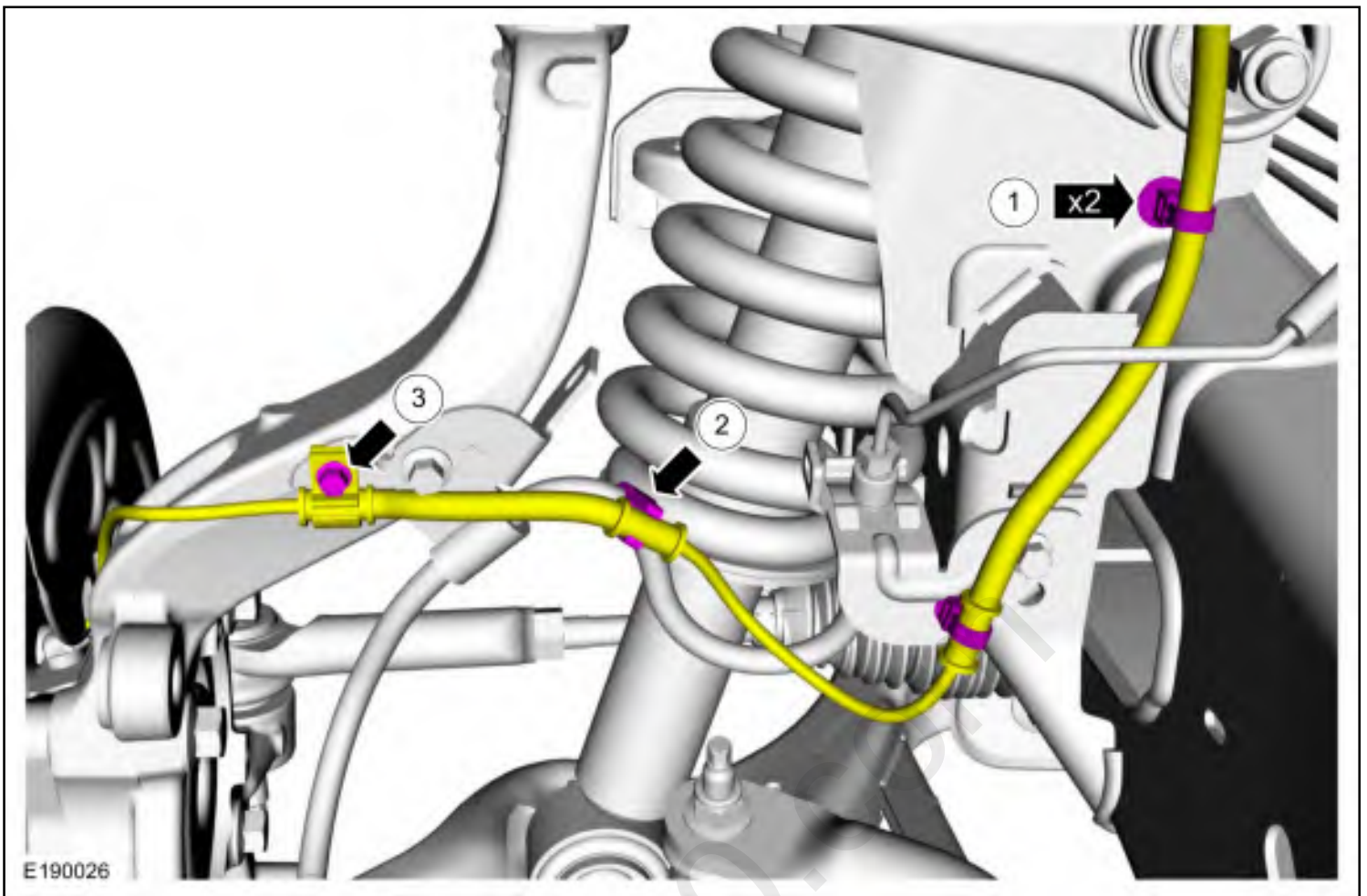
5. **NOTE:** *If the dust cap to bearing interface is damaged, damaged parts must be replaced.*

Install the dust cap.



1. Position the wheel speed sensor wire and clip the 2 wheel speed sensor wire retainers.
2. Clip the wheel speed sensor wire to the brake hose.
3. Install the wheel speed sensor wire bracket bolt.

*Torque: 106 lb.in (12 Nm)*

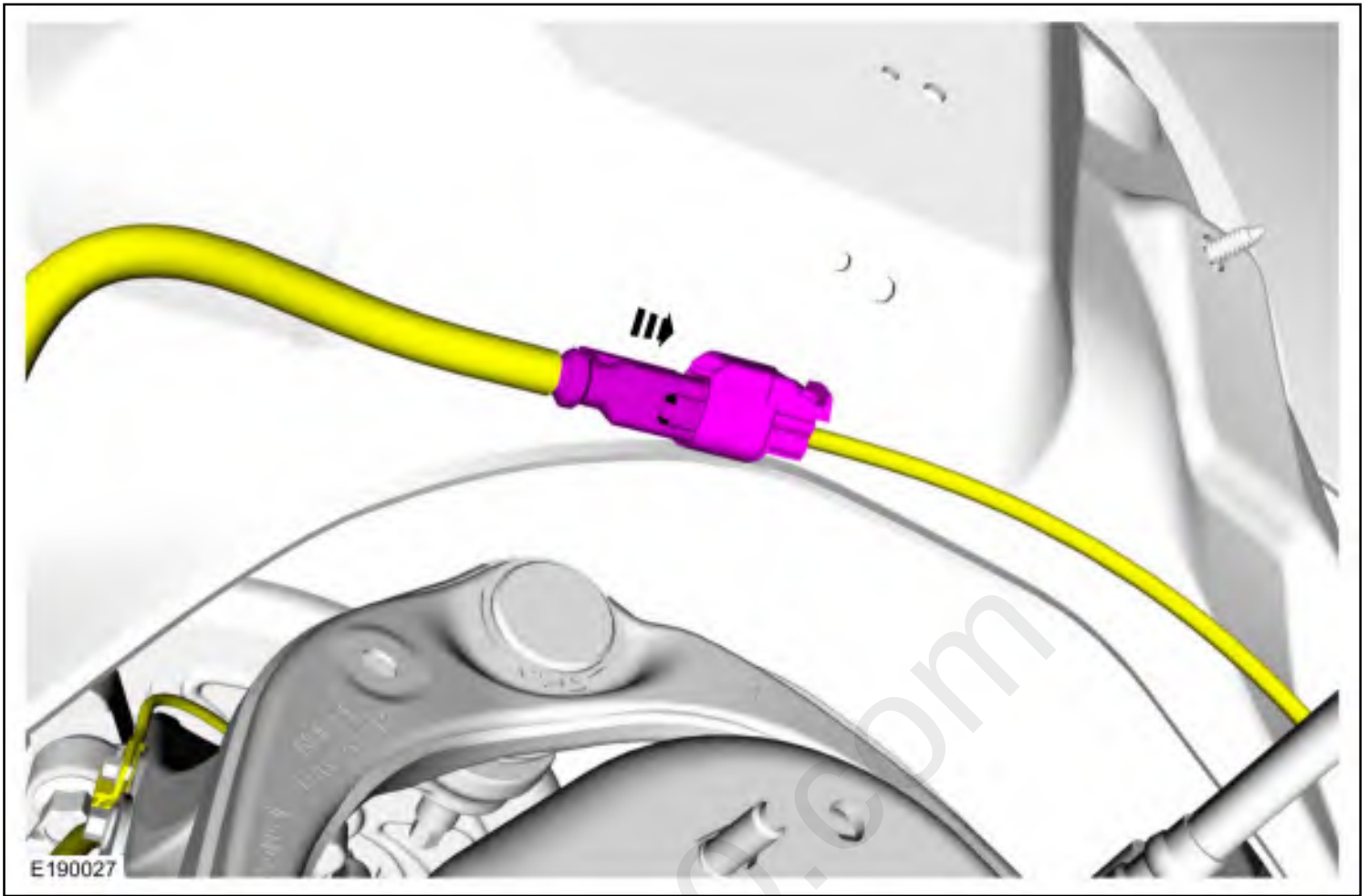


7. Install the brake disc.

Refer to: [Brake Disc](#) (206-03 Front Disc Brake, Removal and Installation).

8. **NOTE:** *The wheel speed sensor electrical connector is located in the engine compartment secured to the fender apron.*

Connect the wheel speed sensor electrical connector.



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