

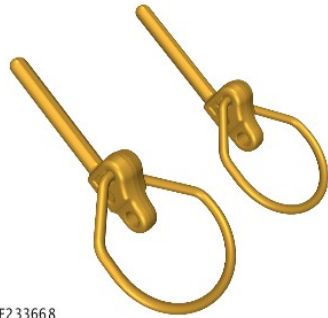


PUBLISHED: 14-AUG-2019  
2020.0 DEFENDER (LE), 303-05C

ACCESSORY DRIVE - INGENIUM I6 3.0L PETROL

# ACCESSORY DRIVE BELT (G2344870)

## SPECIAL TOOL(S)



E233668

**JLR-303-1669**

Accessory Drive Belt Tensioner Locking Tool

## REMOVAL

**NOTE:**

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Disconnect the startup battery ground cable.  
Refer to: [Specifications](#) (414-01A Battery, Mounting and Cables - Vehicles With: Non-Electric Vehicles, Specifications).
2. Raise and support the vehicle on a suitable 2 post lift.  
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
3. Remove the engine undershield.  
Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

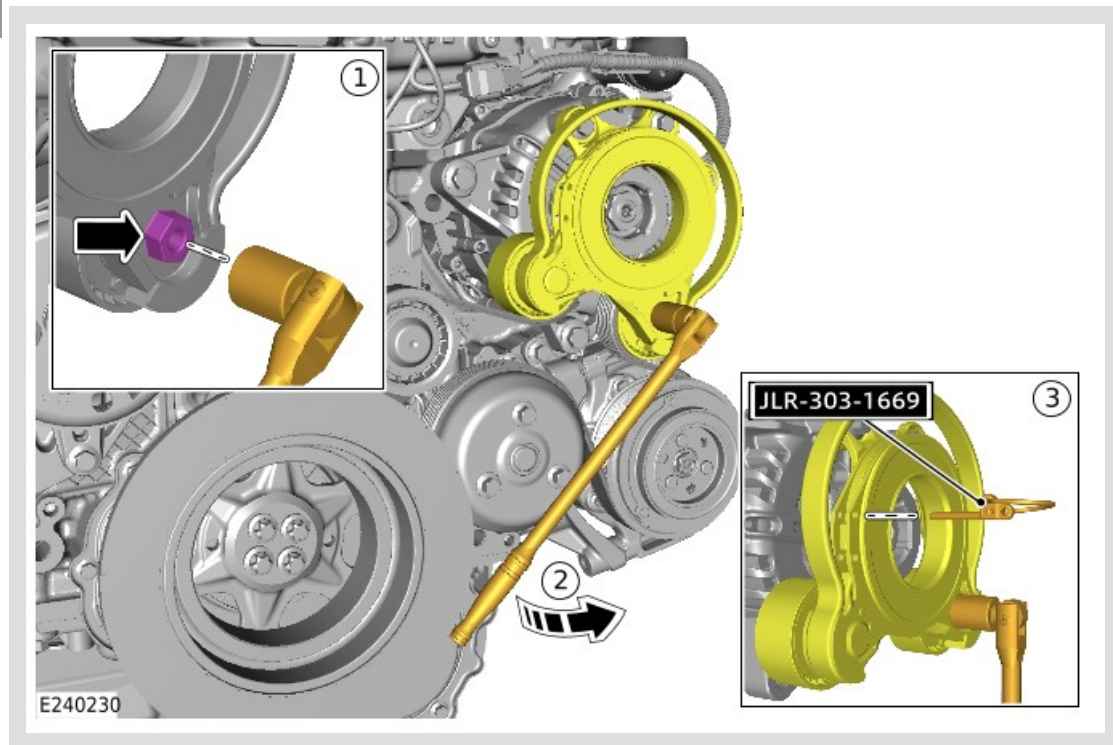
4. Remove the air filter outlet pipe.

Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

5. Remove the viscous cooling fan drive belt.

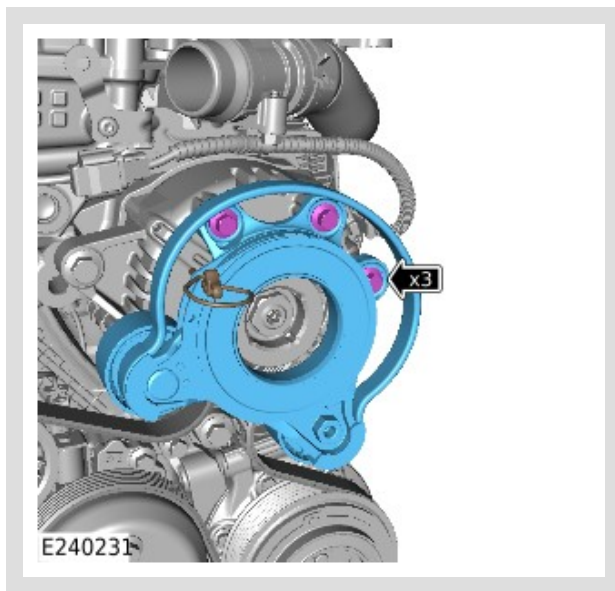
Refer to: [Viscous Cooling Fan Drive Belt](#) (303-05C Accessory Drive - INGENIUM I6 3.0L Petrol, Removal and Installation).

- 6.



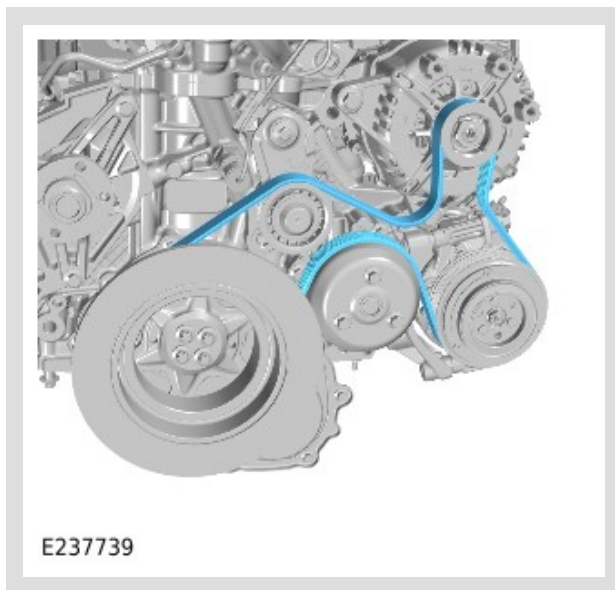
- Use a suitable tool to rotate the tensioner assembly in order to install the special tool.  
*Special Tool(s):* [JLR-303-1669](#)

7.



- Move the tensioner assembly for access to each bolt.
- Remove the 3 bolts.

8.



Remove the Belt Integrated Starter Generator (BISG) drive belt.

## INSTALLATION

1.

### NOTE:

Check for any cracks in the drive belt. If found, replace the drive belt.

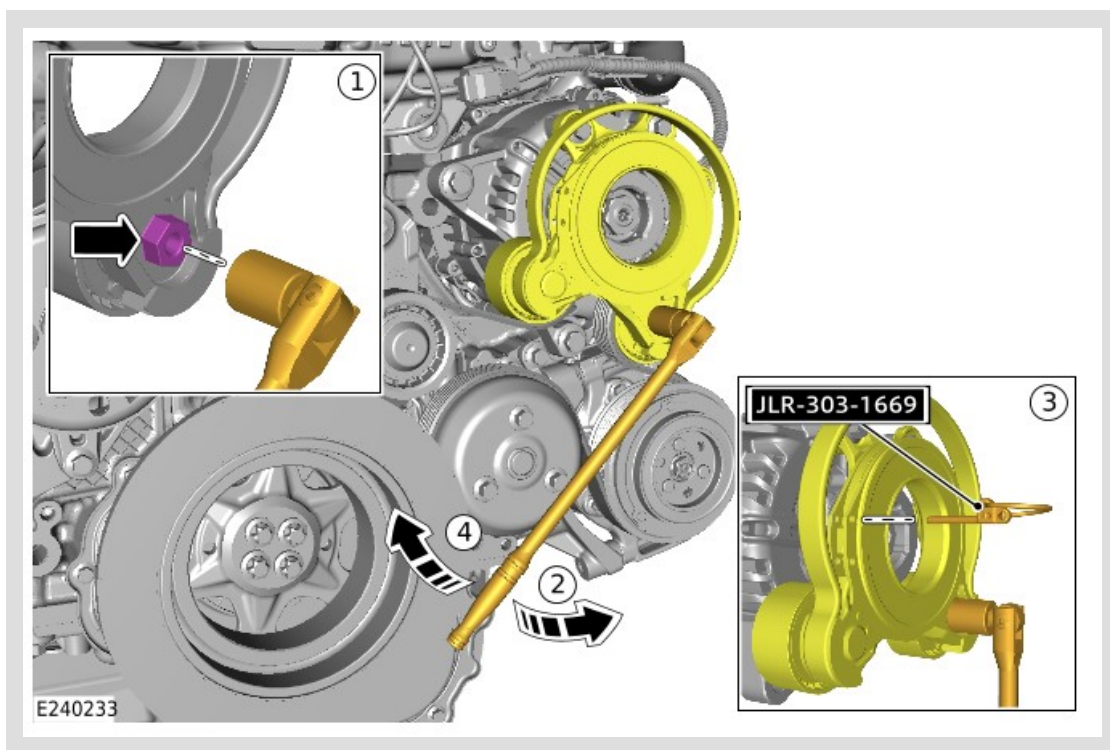
Install the Belt Integrated Starter Generator (BISG) drive belt.

2.

- Install and tighten the 3 bolts.

*Torque: 25Nm*

3.



- Use a suitable tool to rotate the tensioner and release the special tool.  
*Special Tool(s): JLR-303-1669*
- Remove the special tool.
- Release the Belt Integrated Starter Generator (BISG) drive belt tensioner.

4.

Install the viscous cooling fan drive belt.

Refer to: [Viscous Cooling Fan Drive Belt](#) (303-05C Accessory Drive - INGENIUM I6 3.0L Petrol, Removal and Installation).

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5. Install the air cleaner outlet pipe.

Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

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6. Install the engine undershield.

Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

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7. Connect the startup battery ground cable.

Refer to: [Specifications](#) (414-01A Battery, Mounting and Cables - Vehicles With: Non-Electric Vehicles, Specifications).

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2020.0 DEFENDER (LE), 303-05C

ACCESSORY DRIVE - INGENIUM I6 3.0L PETROL

# VISCOUS COOLING FAN DRIVE BELT (G2327924)

SPECIAL TOOL(S)




E241320

**JLR-303-1667**

Holding Tool, Cooling Fan Pulley

REMOVAL

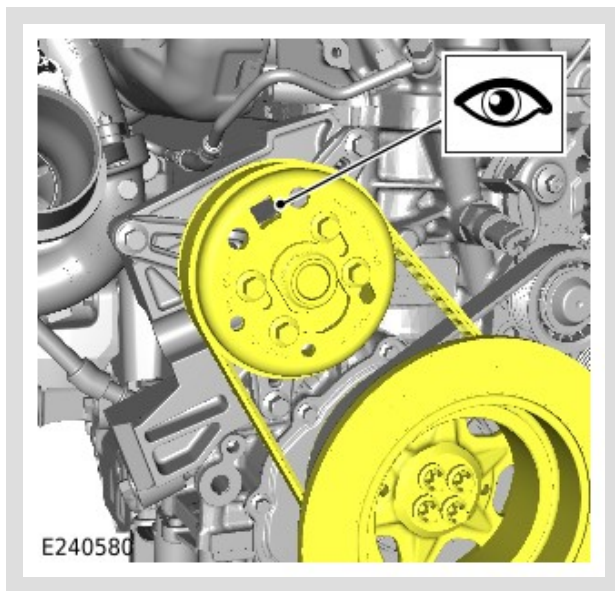
 **NOTE:**

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Remove the viscous cooling fan.

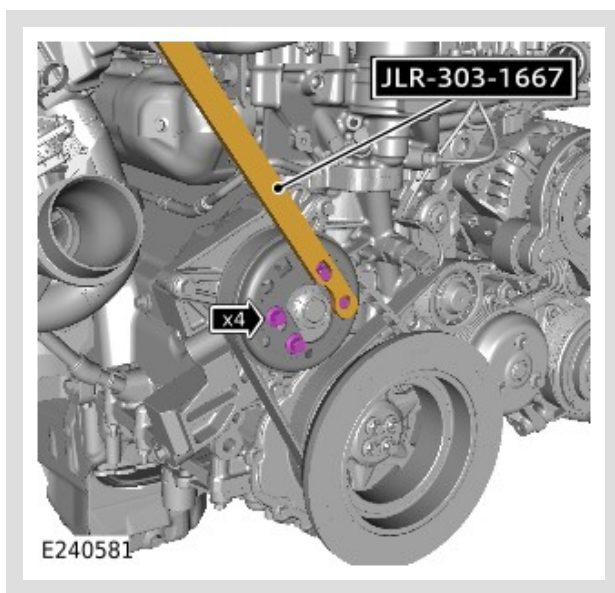
Refer to: [Viscous Cooling Fan](#) (303-03C Engine Cooling - INGENIUM I6 3.0L Petrol, Removal and Installation).

2.



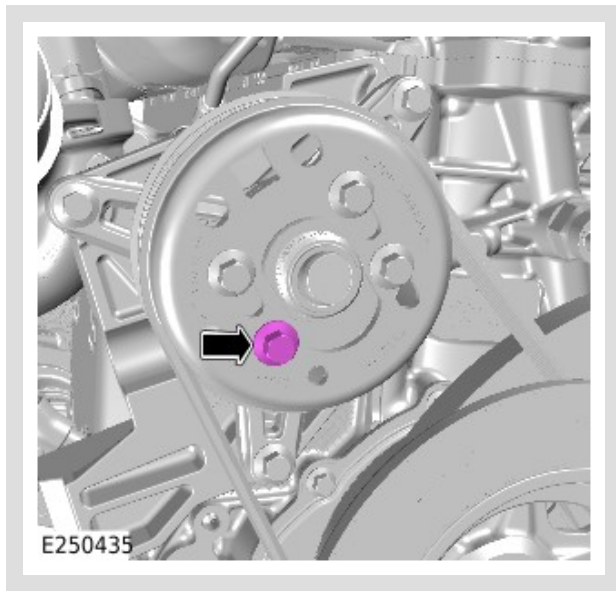
Rotate the crankshaft in a **clockwise** direction until the pulley reaches the position illustrated.

3.



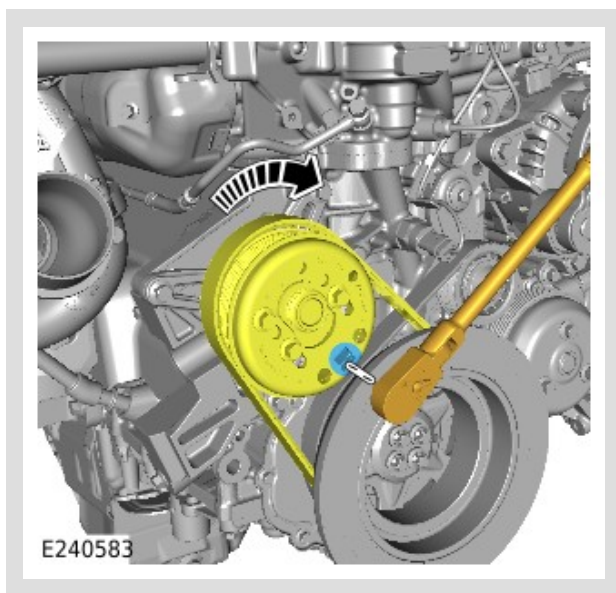
- Use the special tool to prevent the pulley from rotating when loosening the 4 bolts.  
*Special Tool(s):* [JLR-303-1667](#)
- Loosen, but do not fully remove 4 the bolts.

4.




Fully remove the fixed positioned bolt as illustrated.

5.

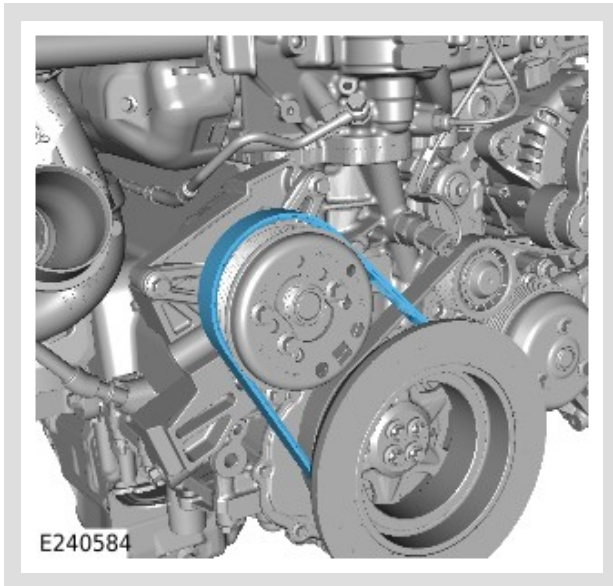


Use a suitable tool to rotate the pulley to the position illustrated.

6.

 **NOTE:**

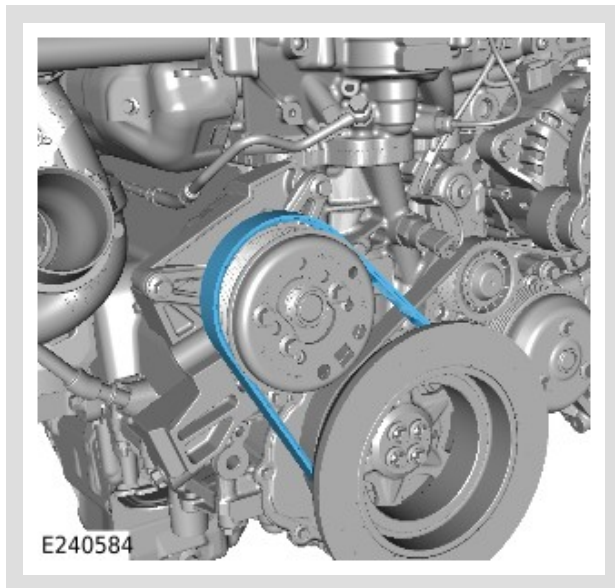
Make sure the pulley is in the position illustrated before removing the belt.



Remove the viscous cooling fan drive belt.

## INSTALLATION

1.

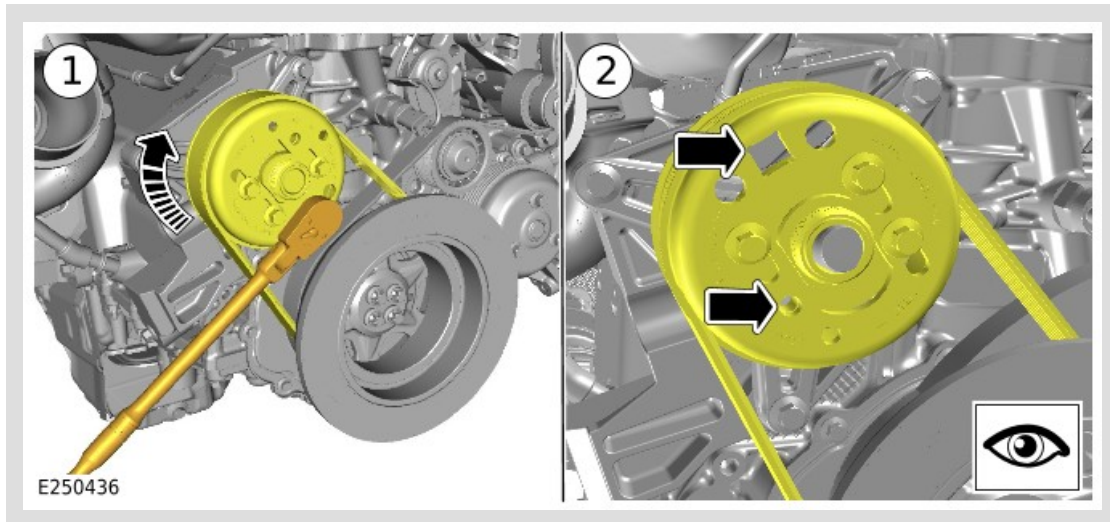


Install the viscous cooling fan drive belt.

2.

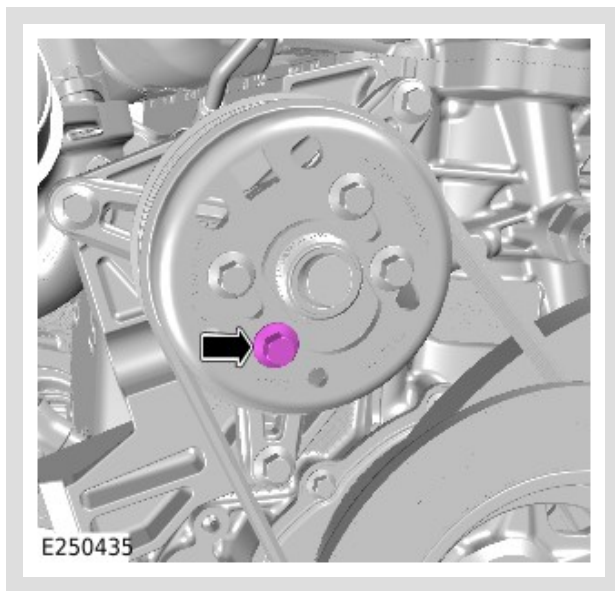
### NOTE:

- During the rotation of the pulley, expect the pulley to snap down into position.
- If the pulley does not snap down into the correct position, loosen the bolts half a turn.



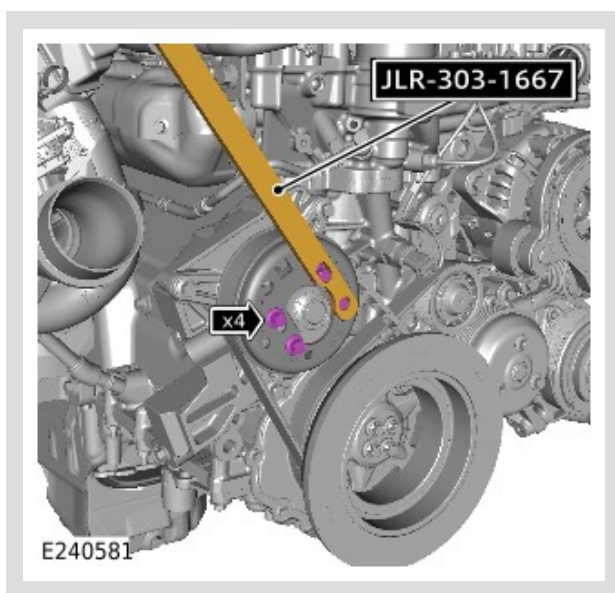
Use a suitable tool to rotate the pulley to the position illustrated.

3.



Install the illustrated bolt finger tight.

4.

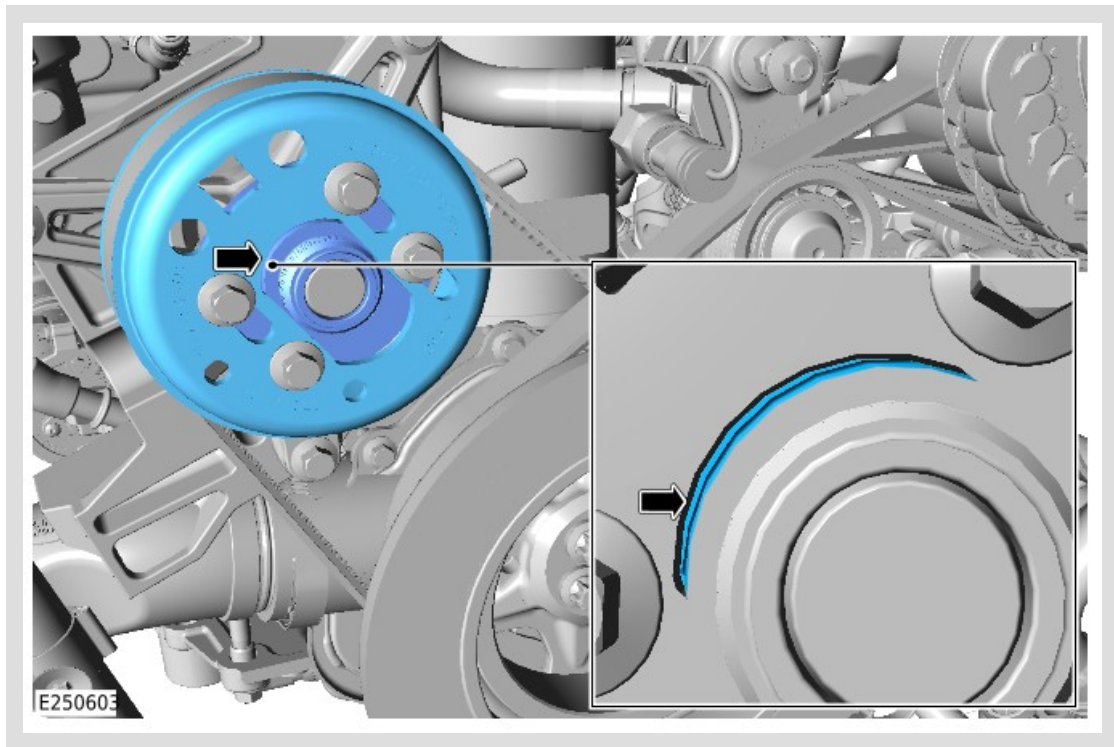


- Use the special tool to prevent the pulley from rotating when tightening the 4 bolts.  
*Special Tool(s):* [JLR-303-1667](#)
- Tighten the 4 bolts.  
*Torque:* **30Nm**

5.

**⚠ CAUTION:**

This step must be completed, failure to complete this step may result in damage to the viscous cooling fan bracket.



- Measure the gap between the viscous cooling fan pulley and the viscous cooling fan bracket.
- If the gap is 0.15 mm or less, continue to step 6.
- If the gap is greater than 0.15 mm, re-adjust the viscous cooling fan belt.

6. Install the viscous cooling fan.

Refer to: [Viscous Cooling Fan](#) (303-03C Engine Cooling - INGENIUM I6 3.0L Petrol, Removal and Installation).