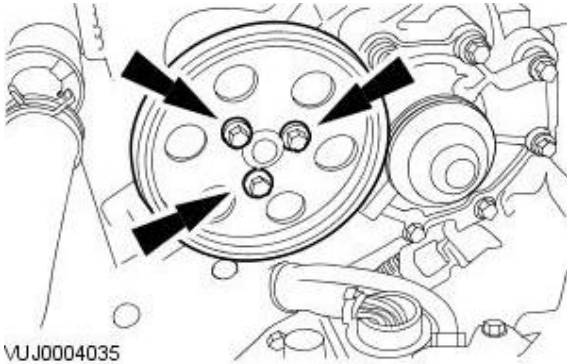


# Engine Cooling - 2.0L NA V6 - AJV6/2.5L NA V6 - AJV6/3.0L NA V6 - AJ27 - Water Pump Housing

Removal and Installation

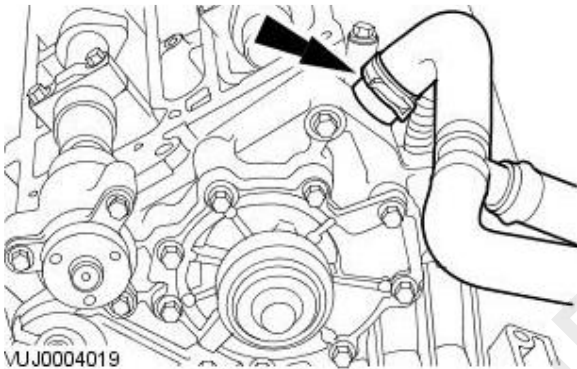
## Removal

1. Drain the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#).
2. Lower the vehicle.
3. Remove the water pump belt tensioner. For additional information, refer to Section [303-05 Accessory Drive](#).
4. Remove the left-hand valve cover. For additional information, refer to Section [303-01A Engine](#) Section [303-01B Engine](#).
5. Remove the water pump drive pulley.



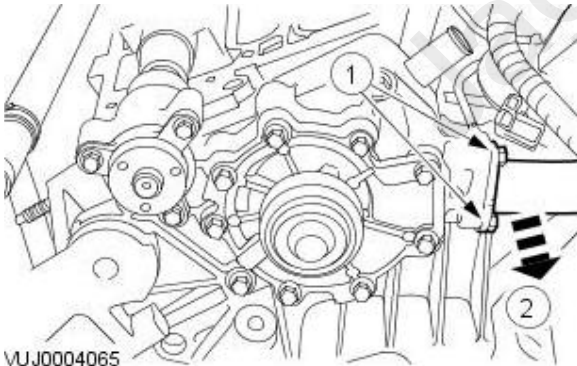
VUJ0004035

6. Detach the coolant expansion tank outlet hose from the water pump housing.



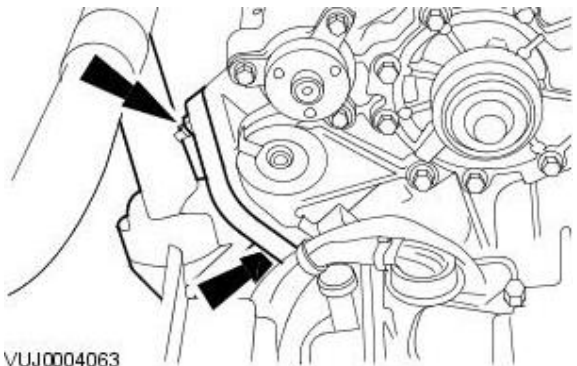
VUJ0004019

7. Remove the water pump coolant outlet pipe.
  - Remove and discard the seals.



VUJ0004065

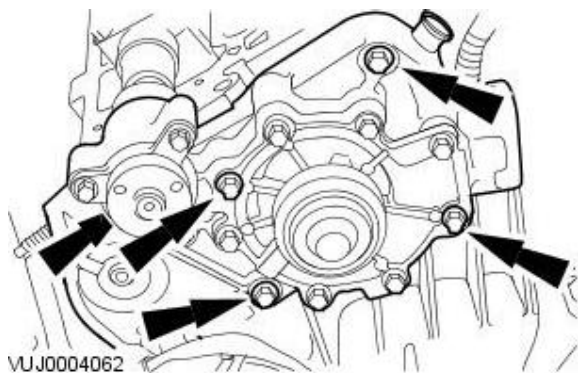
8. Detach the coolant inlet pipe from the water pump housing.
  - Remove and discard the gasket.



VUJ0004063

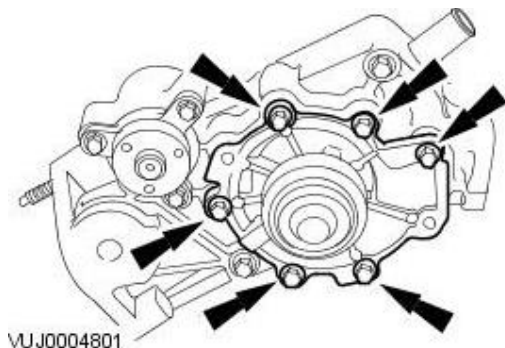
9. Remove the water pump housing.

- Remove and discard the gasket.



10. Remove the water pump from the water pump housing.

- Remove and discard the gasket from the water pump.

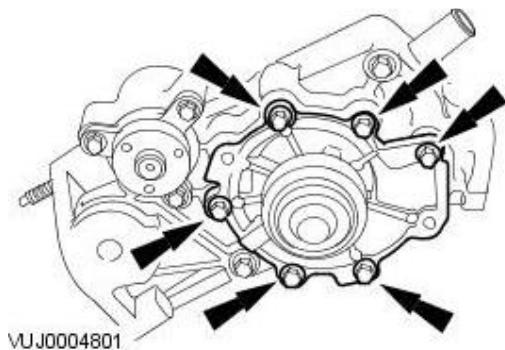


### Installation

1. **NOTE:** Install a new gasket.

To install, reverse the removal procedure.

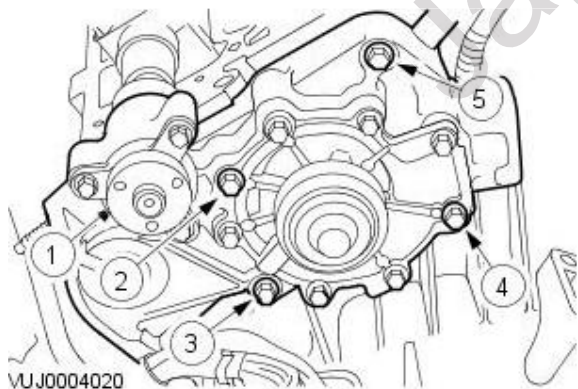
- Tighten to 10 Nm.



2. **CAUTION:** Make sure that the water pump housing is tightened in the sequence shown. Failure to follow this instruction may result in damage to the water pump drive pulley bearings.

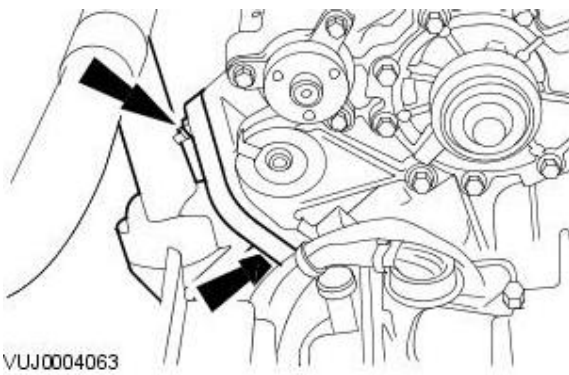
• **NOTE:** Install a new gasket.

Tighten in the sequence shown to 10 Nm.



**3. NOTE:** Install a new gasket.

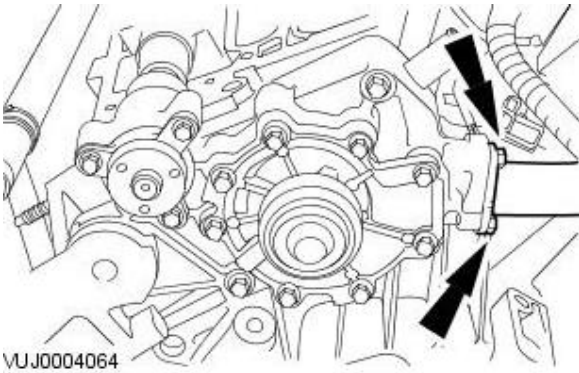
Tighten to 9 Nm.



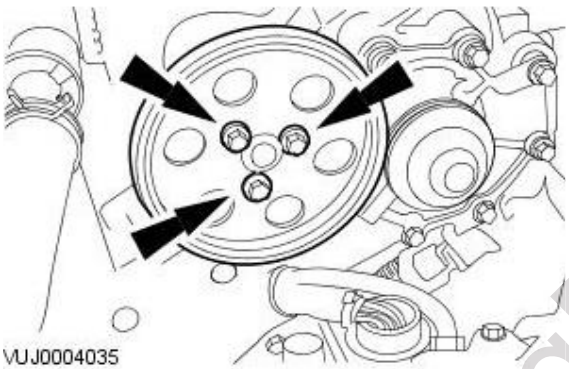
**4. NOTE:** Install new O-ring seals to the water pump coolant outlet pipe.

• NOTE: Prior to installation of the water pump outlet pipe, lubricate the O-ring seal of the water pump outlet pipe at the joint with the engine coolant inlet tube with lubricant ESE-M99B176-A.

Tighten to 12 Nm.



**5.** Tighten to 11 Nm.



**6.** Fill the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#).

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**Engine Cooling - 2.0L Duratorq-TDCi/2.2L Duratorq-TDCi (110kW/150PS) - Puma -****Fluids and Lubricants**

Description	Specification
Jaguar Premium Cooling System Fluid	ESE-M97B44-A
Premium Cooling System Flush	EGR-M14P7-A
O-Ring Lubricant	ESE-M99B176-A

**Cooling System Capacities**

Engine	Capacity
2.0L & 2.2 Diesel	10.0L (initial fill)

**Antifreeze**

Specific Gravity (providing no other additive is in coolant)	Approximate percentage of Anti-Freeze (by volume)	Remains Fluid to	Solidifies at
1.061 at +15°C	50%	-25°C (-13°F)	-30°C (-22°F)

**Cooling System Pressure Specification**

Description	Pressure kpa (psi)
Radiator pressure test	138 kpa (20 PSI)
Coolant expansion tank cap release pressure	130 to 150kpa (18 to 21)

**Torque Specifications**

Description	Nm	lb-ft	lb-in
Radiator support bracket retaining bolts	25	18	-
Thermostat housing retaining bolt x 1	23	17	-
Thermostat housing retaining bolts x 3	10	-	89
Water pump retaining bolts	23	17	-
Water pump cover	10	-	89
Water pump bleed screw	10	-	89
Engine oil temperature control thermostat retaining bolt	10	-	89

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