

# 2004 XK RANGE - Engine Cooling - 303-03A

## Cooling Fan Motor and Shroud 26.25.25

### Removal

#### All vehicles



**WARNING:**

NEVER REMOVE THE COOLANT PRESSURE CAP UNDER ANY CIRCUMSTANCES WHILE THE ENGINE IS OPERATING. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN PERSONAL INJURY.

TO AVOID HAVING SCALDING HOT COOLANT OR STEAM BLOW OUT OF THE COOLING SYSTEM, USE EXTREME CARE WHEN REMOVING THE COOLANT PRESSURE CAP FROM A HOT COOLING SYSTEM. WAIT UNTIL THE ENGINE HAS COOLED, THEN WRAP A THICK CLOTH AROUND THE COOLANT PRESSURE CAP AND TURN IT SLOWLY UNTIL THE PRESSURE BEGINS TO RELEASE. STEP BACK WHILE THE PRESSURE IS RELEASED FROM THE SYSTEM. WHEN CERTAIN ALL THE PRESSURE HAS BEEN RELEASED (STILL WITH A CLOTH) TURN AND REMOVE THE COOLANT PRESSURE CAP FROM THE COOLANT EXPANSION TANK. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.



**WARNING:**

TO AVOID THE POSSIBILITY OF PERSONAL INJURY, DO NOT OPERATE THE ENGINE WITH THE HOOD OPEN UNTIL THE FAN BLADES HAVE BEEN EXAMINED FOR CRACKS AND SEPARATION. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN PERSONAL INJURY.



**WARNING:**

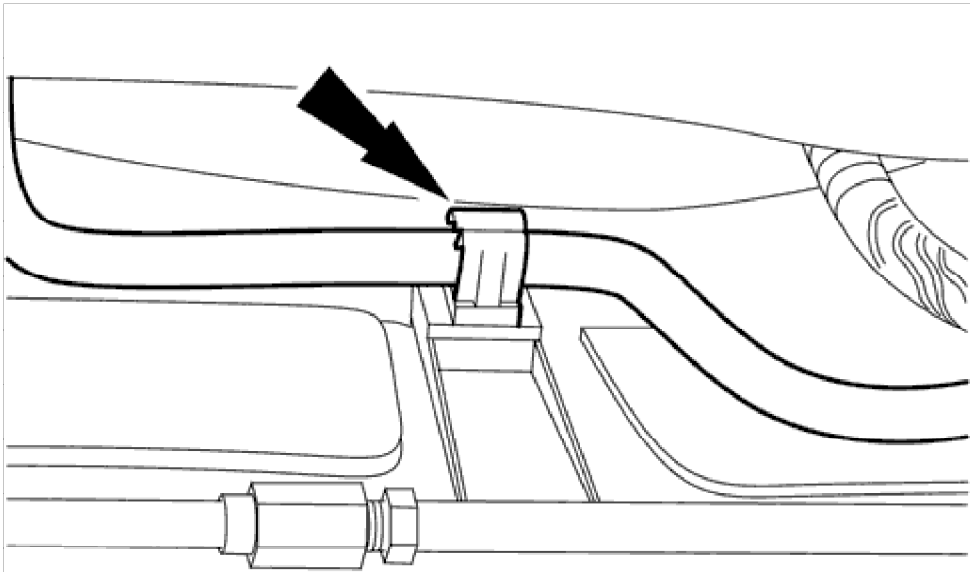
REMOVE FUSE 14 FROM THE ENGINE MANAGEMENT FUSE BOX PRIOR TO PERFORMING ANY UNDER HOOD SERVICE IN THE AREA OF THE COOLING FAN WHEN THE ENGINE IS HOT, SINCE THE COOLING FAN MOTOR COULD OPERATE IF THE ENGINE HAS BEEN SWITCHED OFF. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN PERSONAL INJURY.



**CAUTION:**

The engine cooling system must be maintained with the correct concentration and type of anti-freeze solution to prevent corrosion and frost damage. Failure to follow this instruction may cause damage to the vehicle.

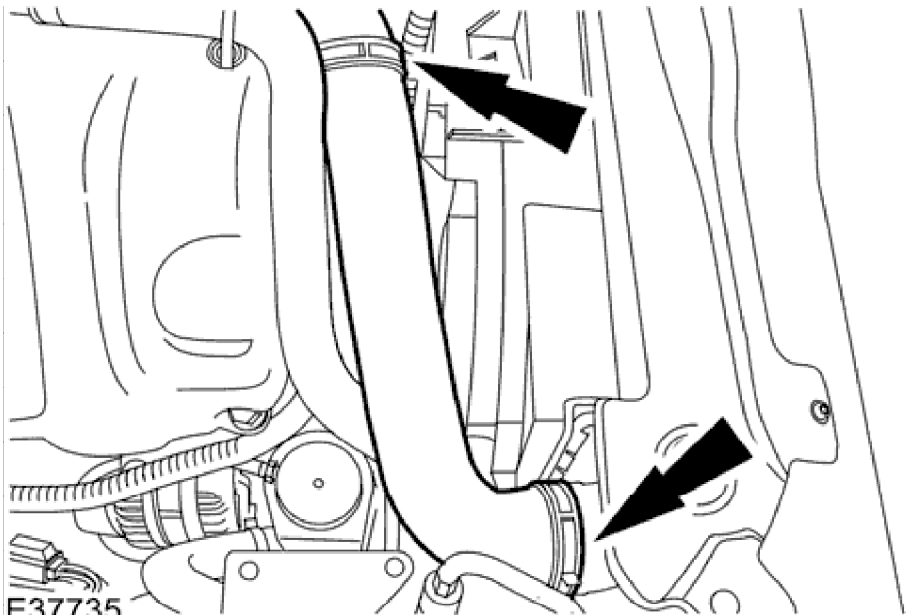
1. Remove the air cleaner. <<303-12>>
2. Drain the coolant. <<Cooling System Draining, Filling and Bleeding>>



E37734

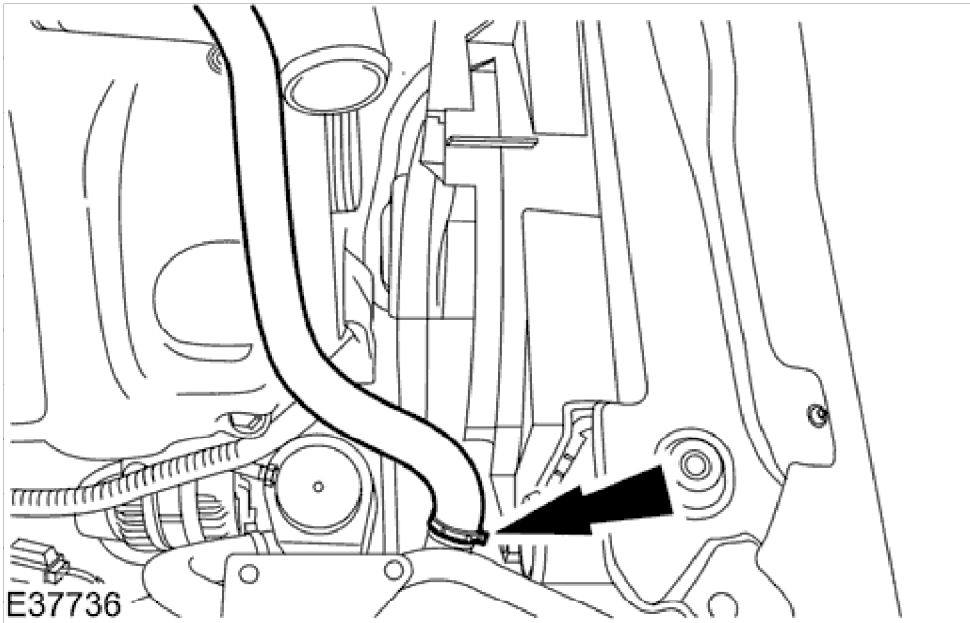
- 3. Detach the air conditioning tube.
  
- 4. Lower the vehicle.

**Vehicles with supercharger**



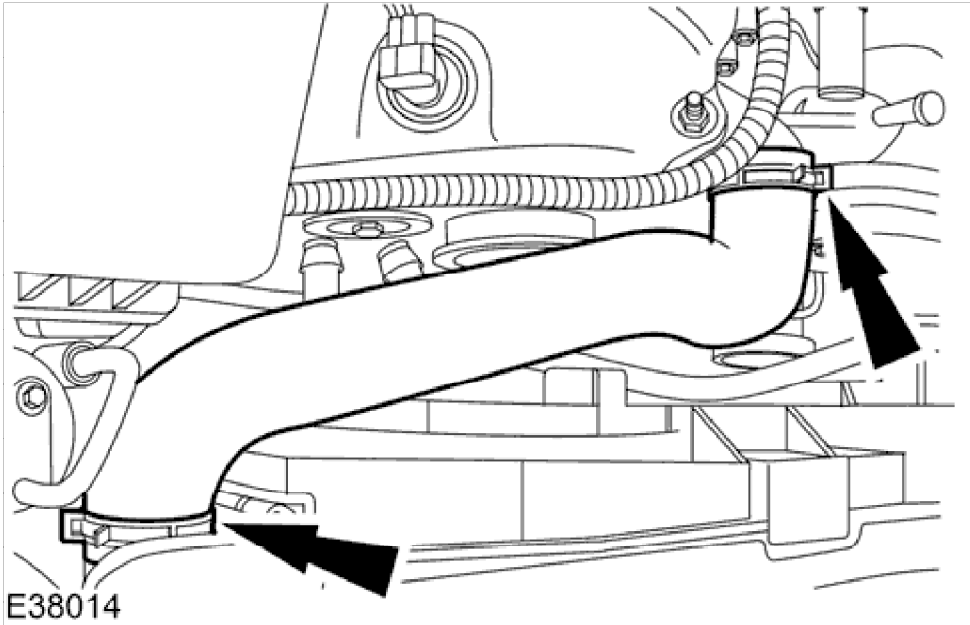
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- 5. Remove the radiator hose.



6. Detach the intercooler hose.

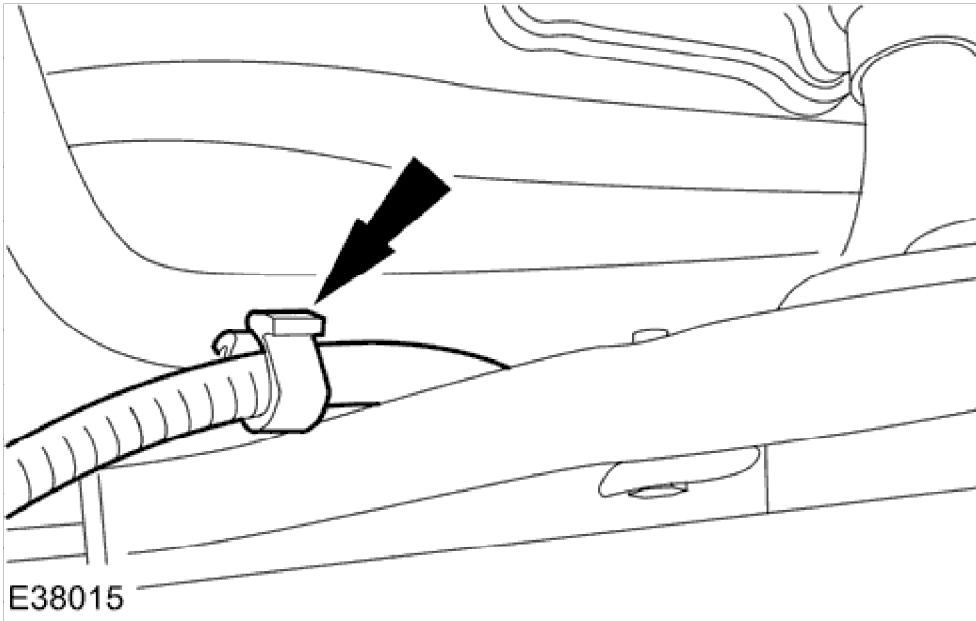
**Vehicles without supercharger**



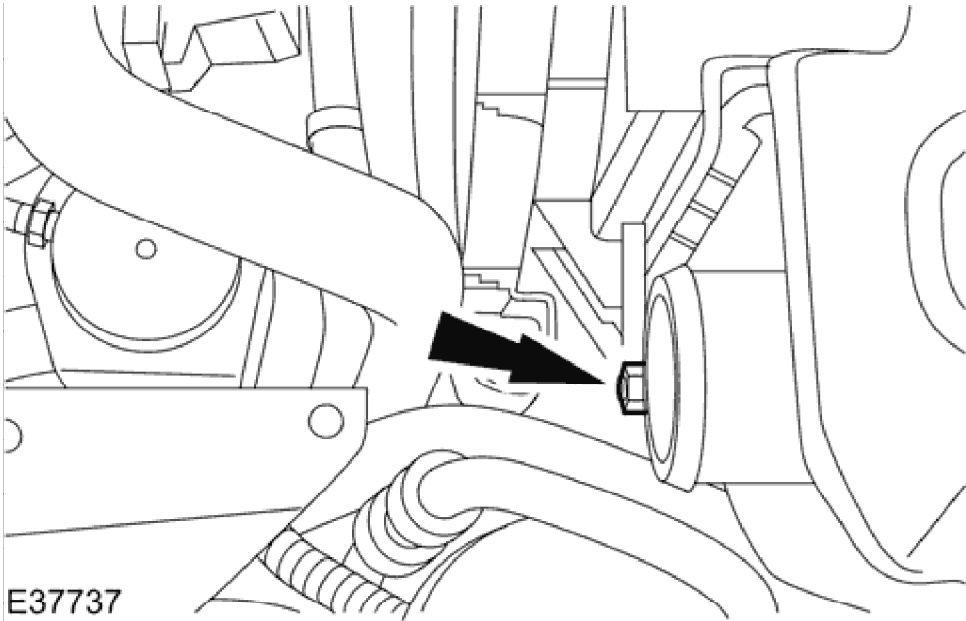
7. Remove the radiator hose.

**All vehicles**

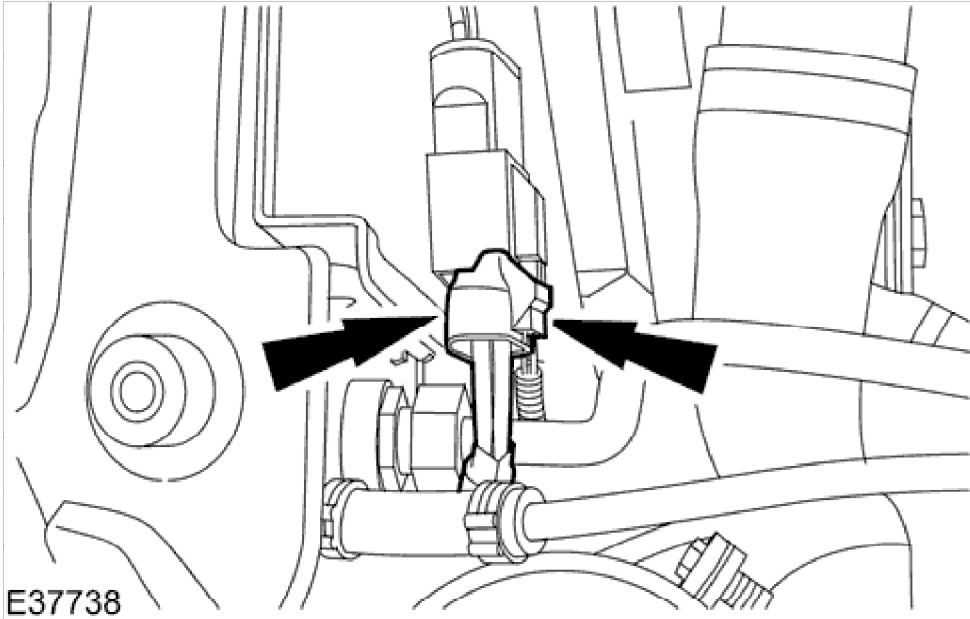
**2004 XK RANGE - Engine Cooling - 303-03A**



8. Detach the wiring harness.



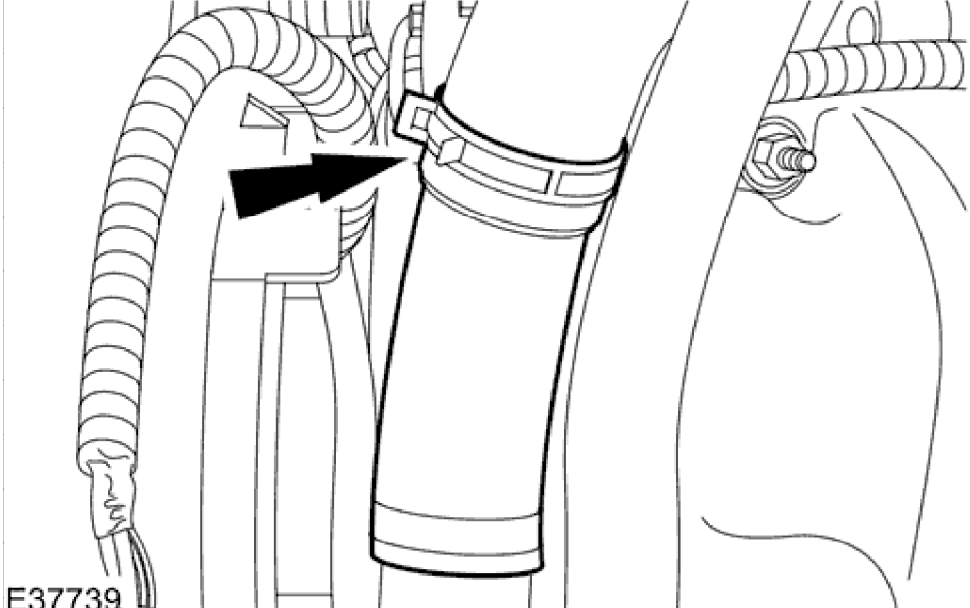
9. Remove the cooling fan motor shroud retaining bolt.



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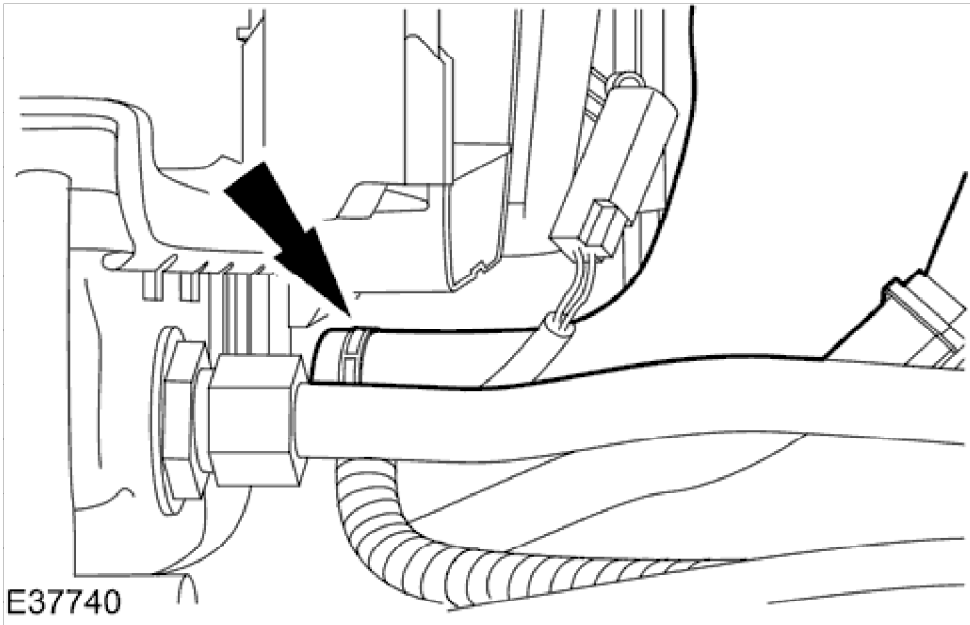
10. Disconnect the cooling fan module electrical connectors

**Vehicles with supercharger**



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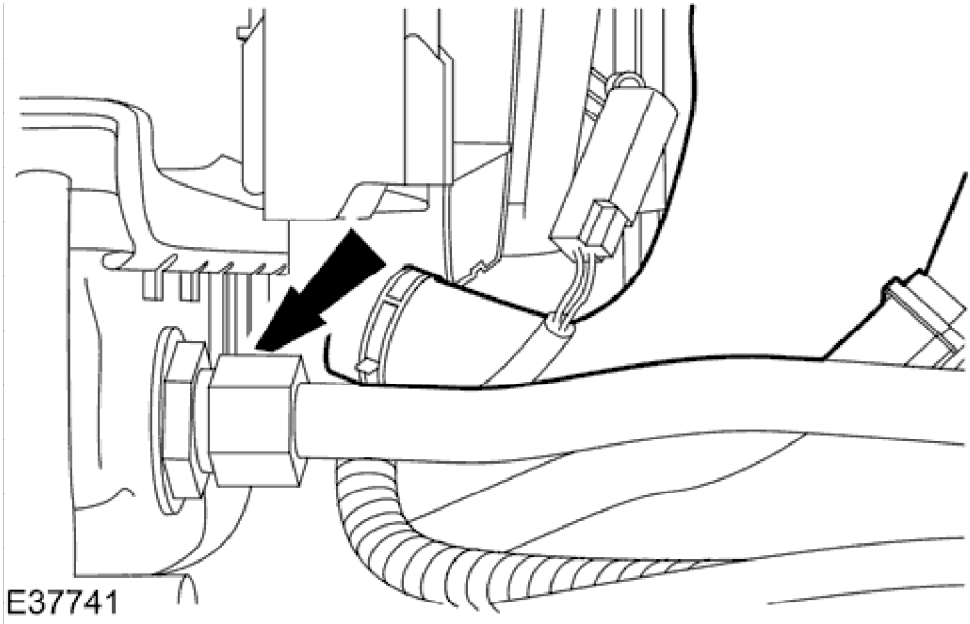
11. Detach the radiator hose.




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12. Detach the radiator hose.

All vehicles



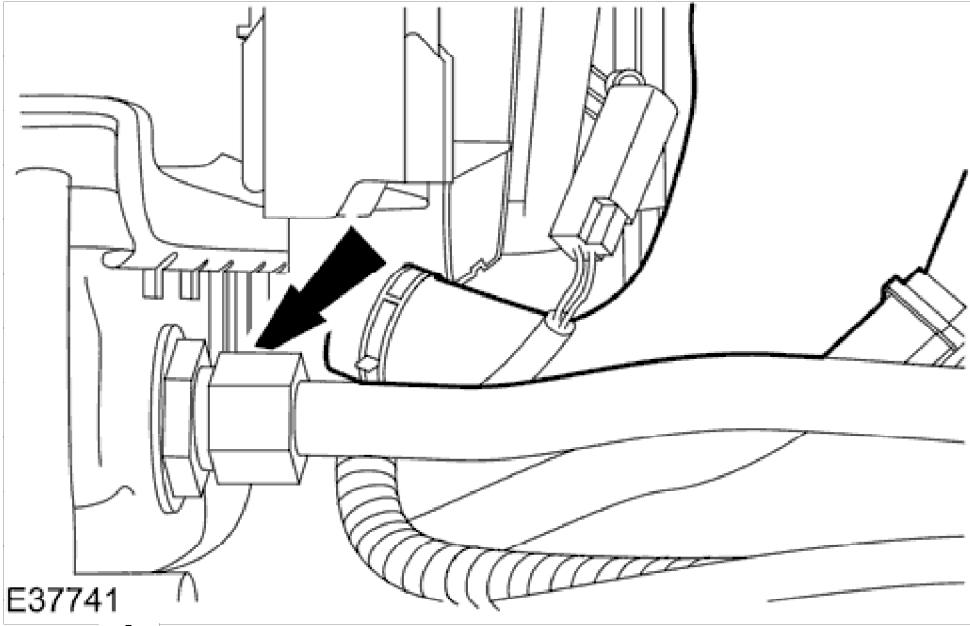
E37741


13.  **CAUTION:**  
Carefully remove the cooling fan motor and shroud from the vehicle. Failure to follow this instruction may cause damage to the vehicle.

- Remove the cooling fan motor and shroud.
- Remove the retaining nut.

Installation

All vehicles

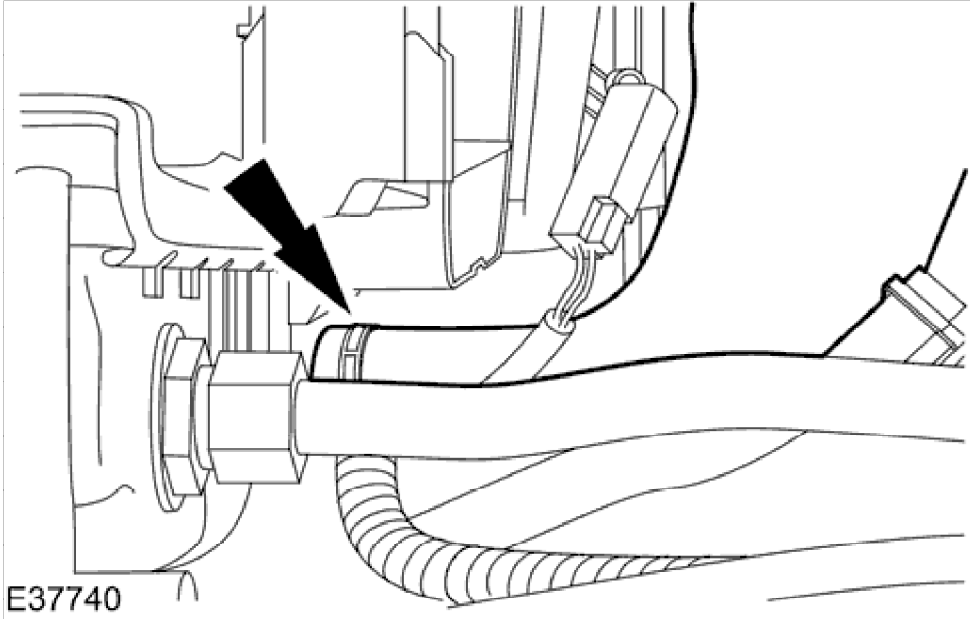


1.  **CAUTION:**  
Carefully install the cooling fan motor and shroud to the vehicle. Failure to follow this instruction may cause damage to the vehicle.

**NOTE:**  
Make sure that the cooling fan motor and shroud is correctly located in the lower mounts

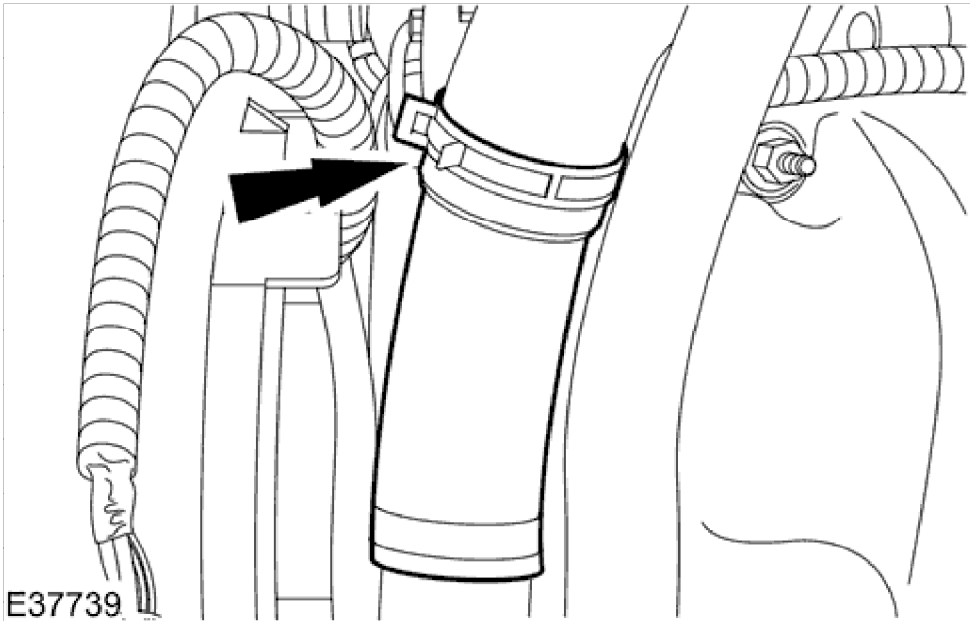
Install the cooling fan motor and shroud.  
• Tighten to 4 Nm.

**Vehicles with supercharger**



2. Attach the radiator hose.

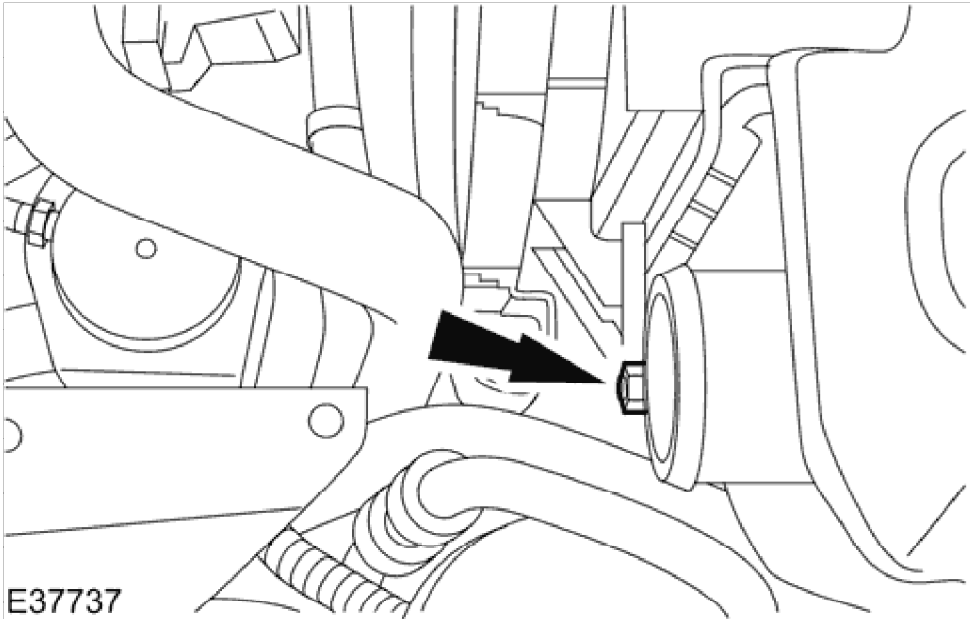
**2004 XK RANGE - Engine Cooling - 303-03A**



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3. Attach the radiator hose.

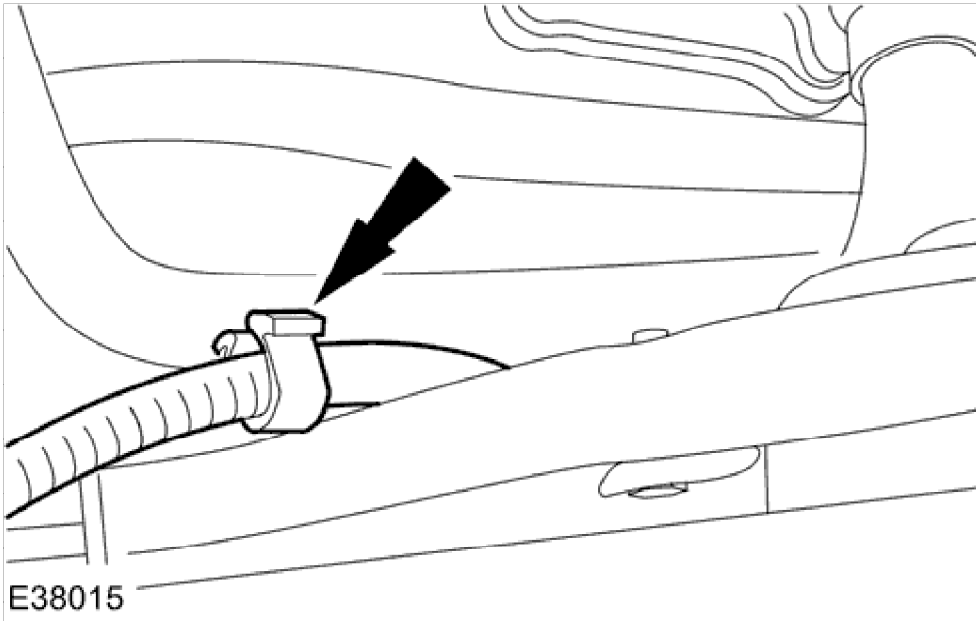
**All vehicles**



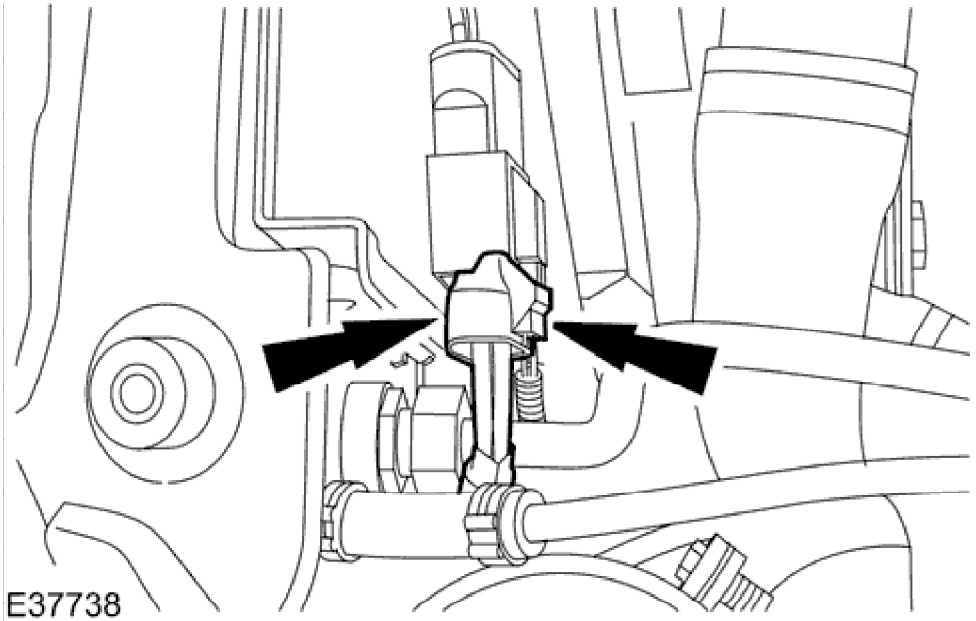
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4. Install the cooling fan motor shroud retaining bolt.  
• Tighten to 4 Nm.

**2004 XK RANGE - Engine Cooling - 303-03A**



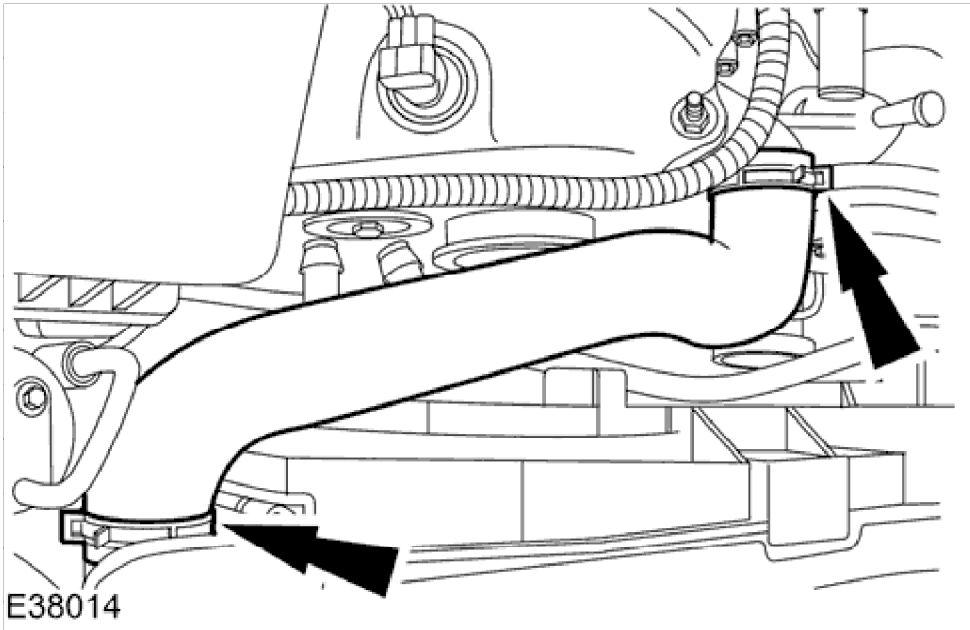
5. Attach the wiring harness.



6. Connect the cooling fan module electrical connectors.

**Vehicles without supercharger**

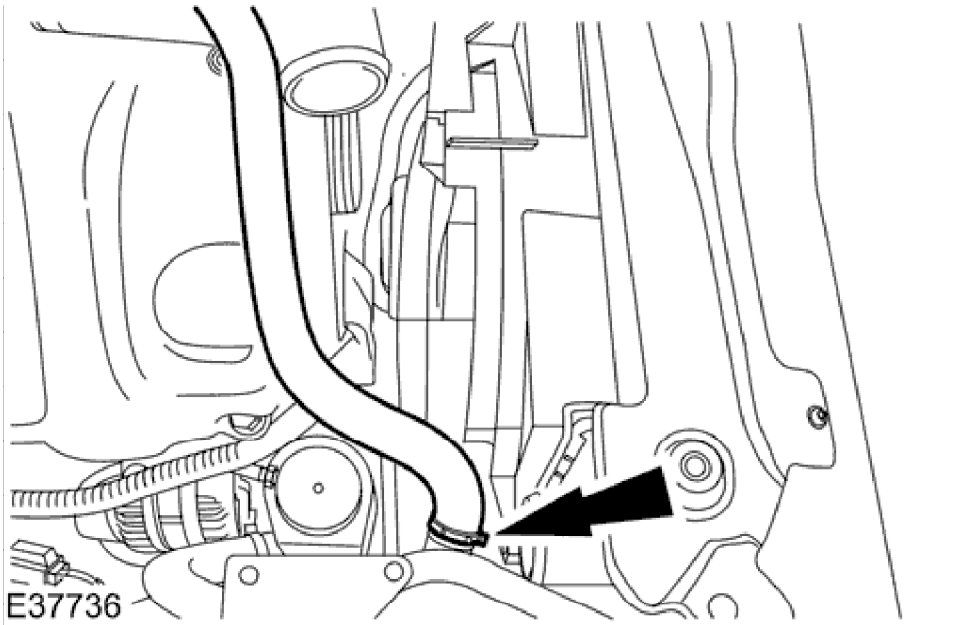
**2004 XK RANGE - Engine Cooling - 303-03A**



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7. Install the radiator hose.

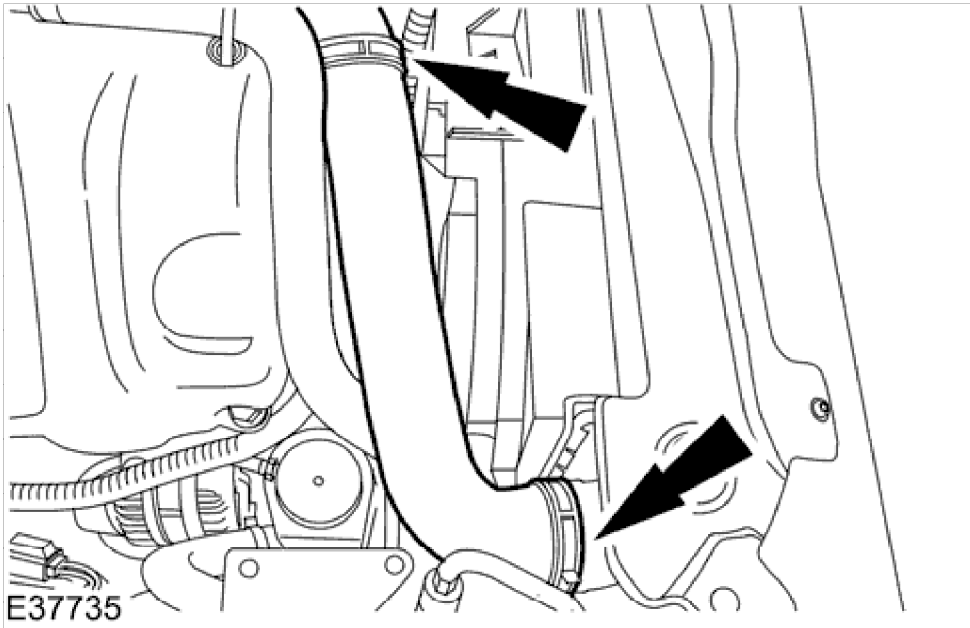
**Vehicles with supercharger**



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8. Attach the intercooler hose.

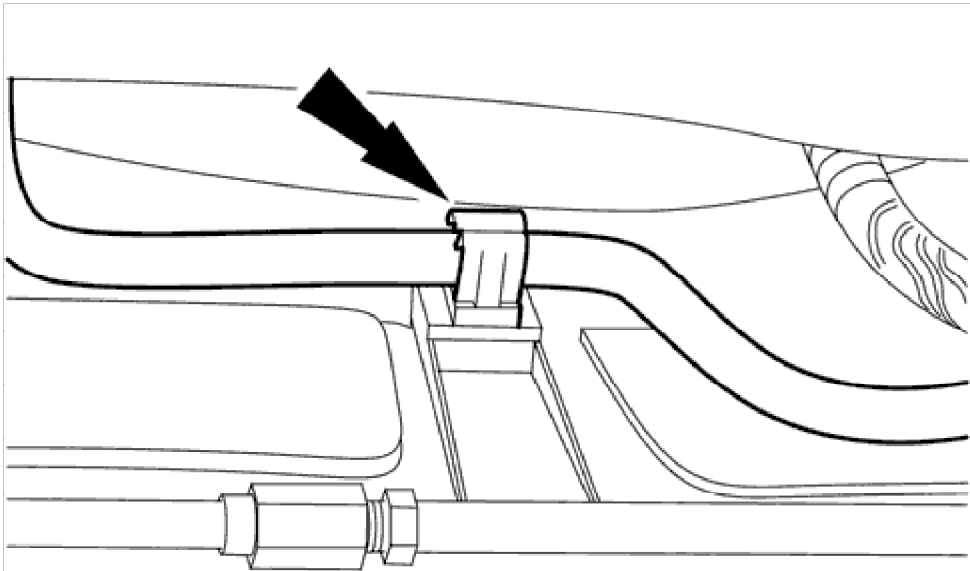
2004 XK RANGE - Engine Cooling - 303-03A



9. Install the radiator hose.

All vehicles

10. Raise the vehicle.



11. Attach the air conditioning tube.

12. Lower the vehicle.

13. Fill the coolant. <<Cooling System Draining, Filling and Bleeding>>