

## REMOVING - REFITTING : COOLANT OUTLET HOUSING

**URGENT** : Observe the safety and cleanliness recommendations.

**CAUTION** : After switching off the ignition: wait 15 minutes before disconnecting the battery, to ensure that the initialisations of the various ECUs are memorised.

**URGENT** : Wait at least one hour before carrying out any work on the exhaust line.

### 1. Removing

Place the vehicle on a 2 -post lift.

**Drain the cooling system** .

**CAUTION** : Fit plugs at the inlet manifold air inlet.

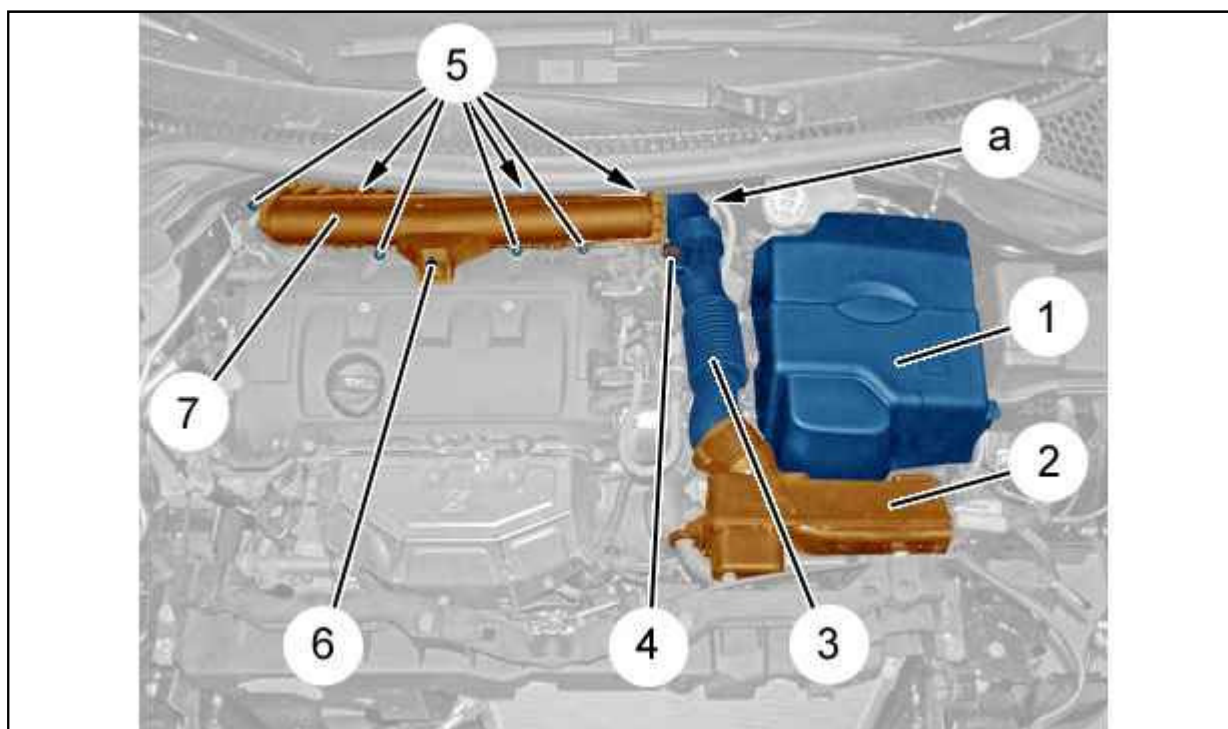


Figure : B1BM0DJJD

Remove the battery style cover (1).

Disconnect the battery.

Unclip : The vacuum circuit pipe ( as "a ").

Remove :

- The air resonator (2)
- The air inlet hose fixing bolt (4)
- The air entry union (3)
- The air filter cover fixing bolts (5)
- The air filter cover fixing bolt (6)
- The air filter cover (7)

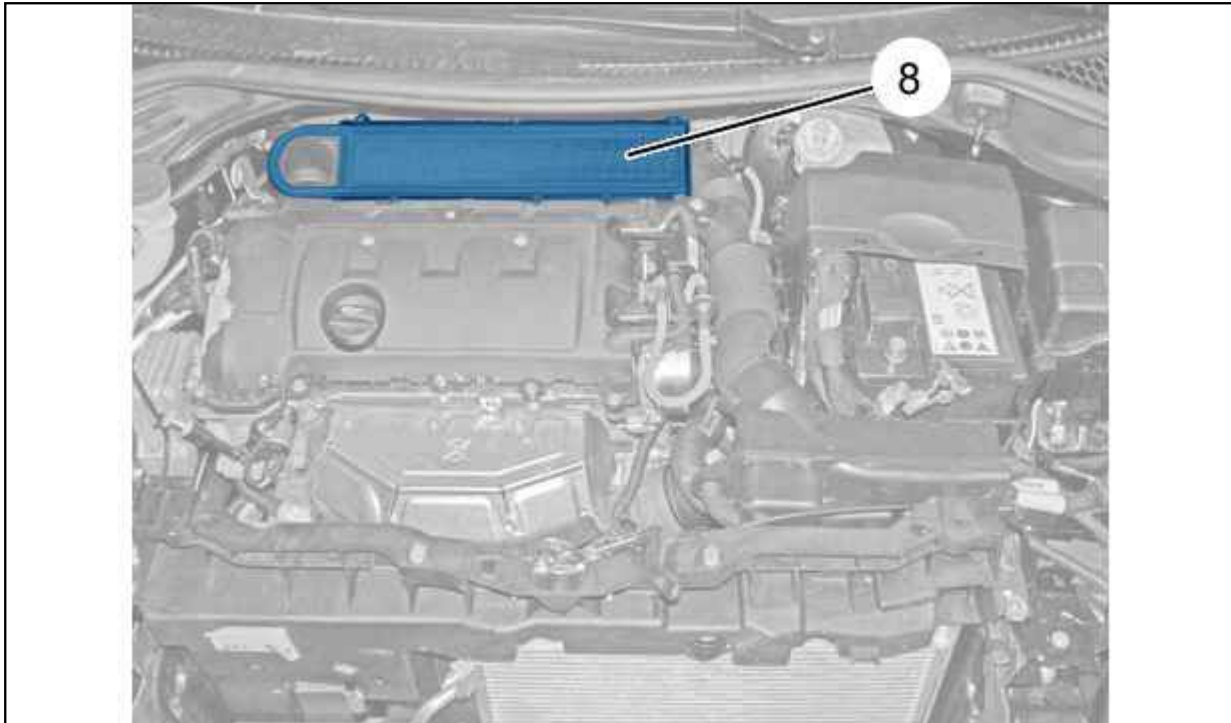


Figure : B1BM0DKD

Remove : The filter element (8).

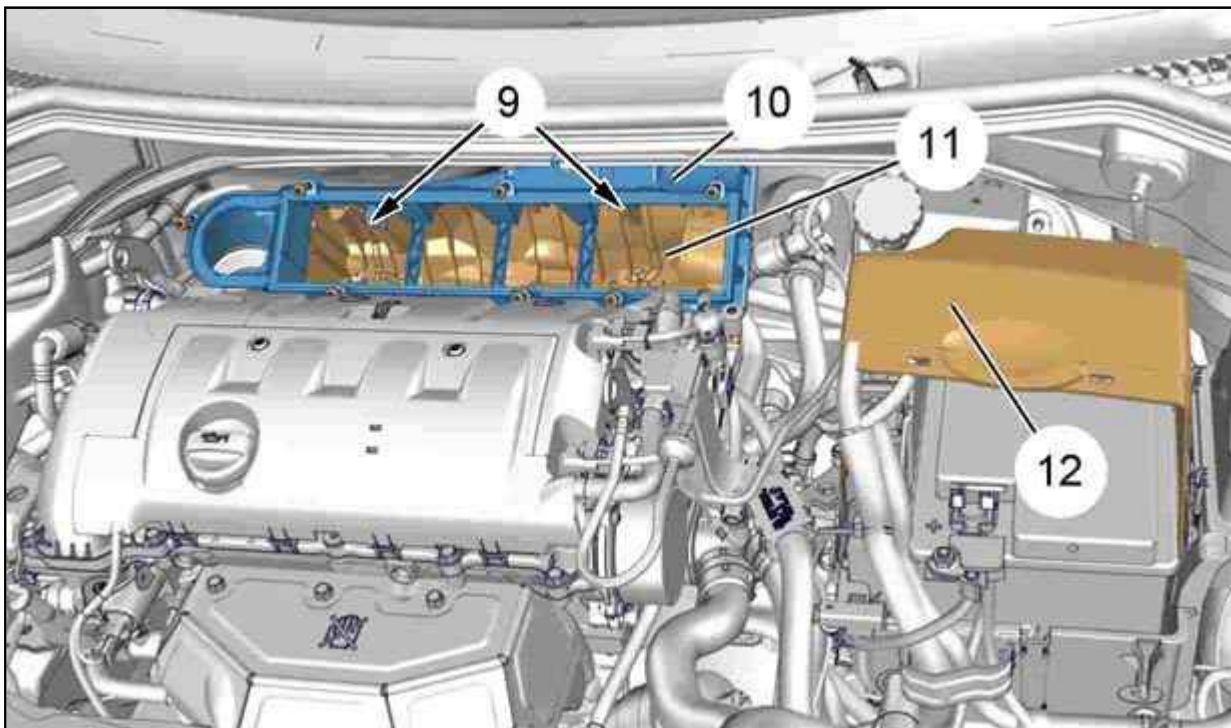


Figure : B1BM0DLD

Remove :

- The securing bolts (9)
- The intermediate mounting (10)

- The air filter housing (11)
- The battery (12) protective casing

Unplug : The engine management ECU .

Remove :

- The engine management ECU
- The battery

Unclip the electrical harnesses from the battery tray.

Remove the battery tray support .

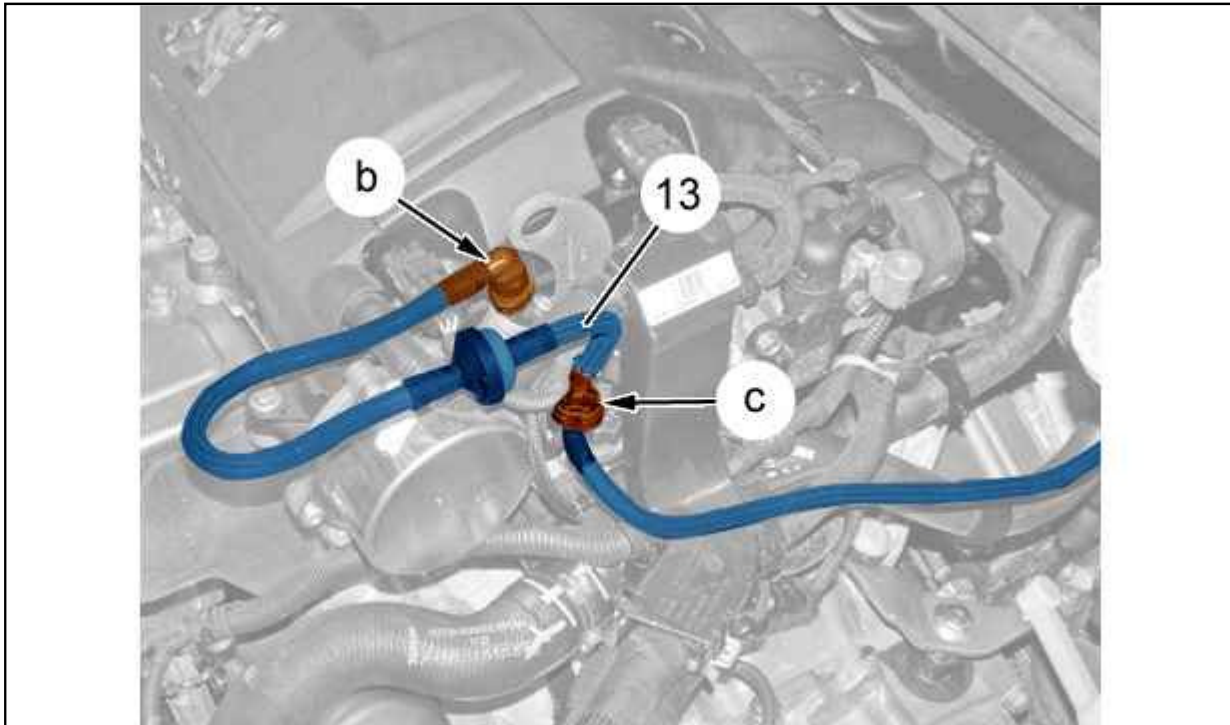


Figure : B1GM02YD

Disconnect : The vacuum circuit pipe (13) ( as "b").

Unclip and move aside : The vacuum circuit pipe (13) ( as "c").

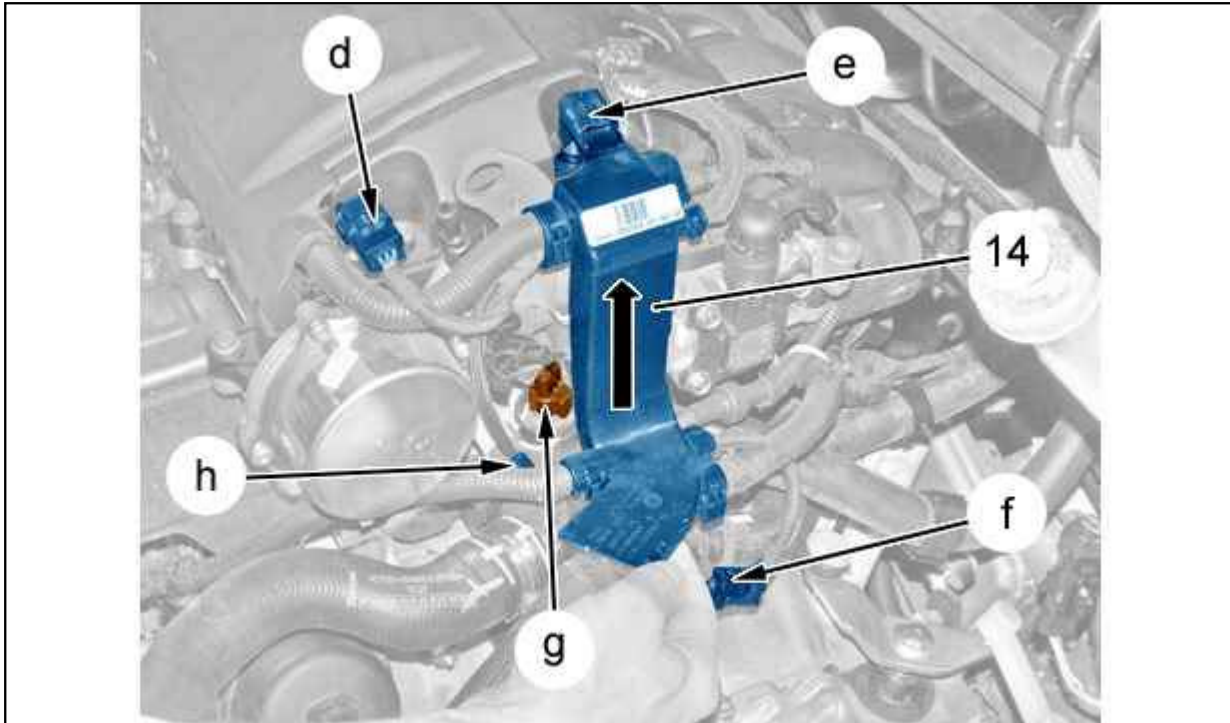


Figure : B1GM02ZD

Disconnect the connector :

- Camshaft position sensor (Exhaust) ( as "d")
- Camshaft position sensor (Inlet) ( as "e")
- Piloted thermostat supply ( as "f")
- Temperature sensor ( as "g")
- Oil pressure sensor ( as "h")

Raise and move aside : The engine harness moulding (14).



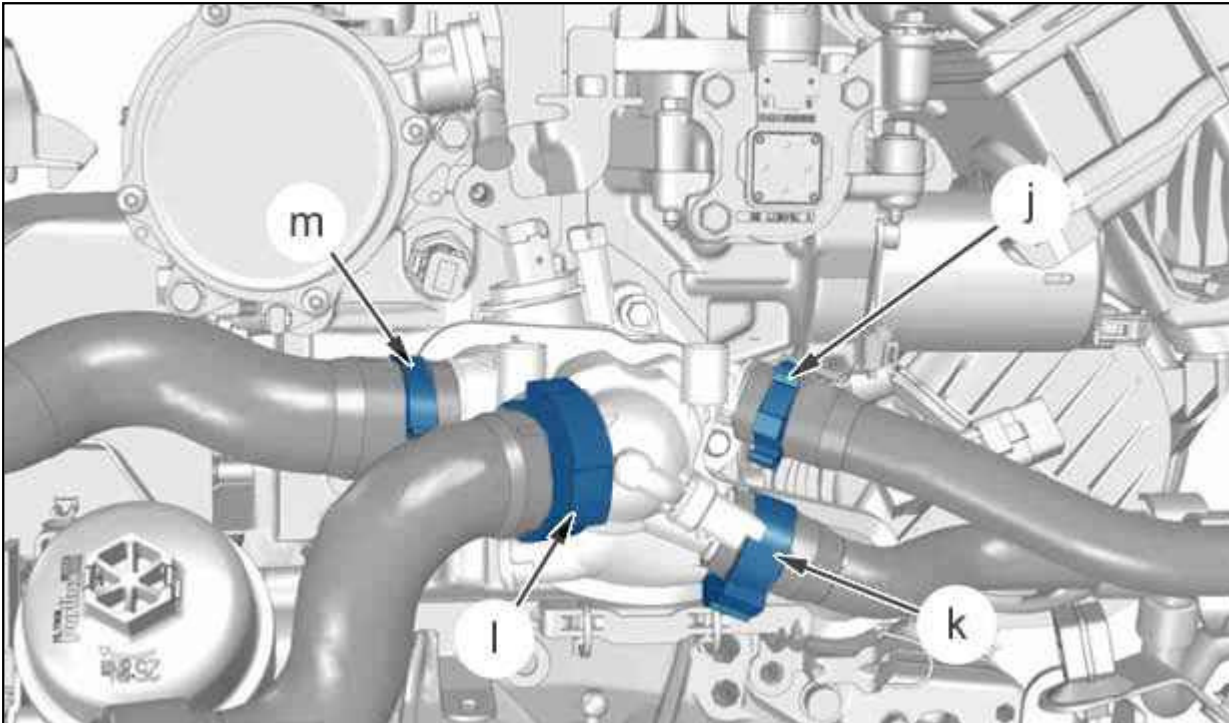


Figure : B1GM030D

Disconnect :

- The heater matrix coolant inlet hose( as "j")
- The heater matrix coolant outlet pipe ( as "k")
- The cooling radiator outlet hose ( as "l")
- The cooling radiator outlet hose ( as "m")

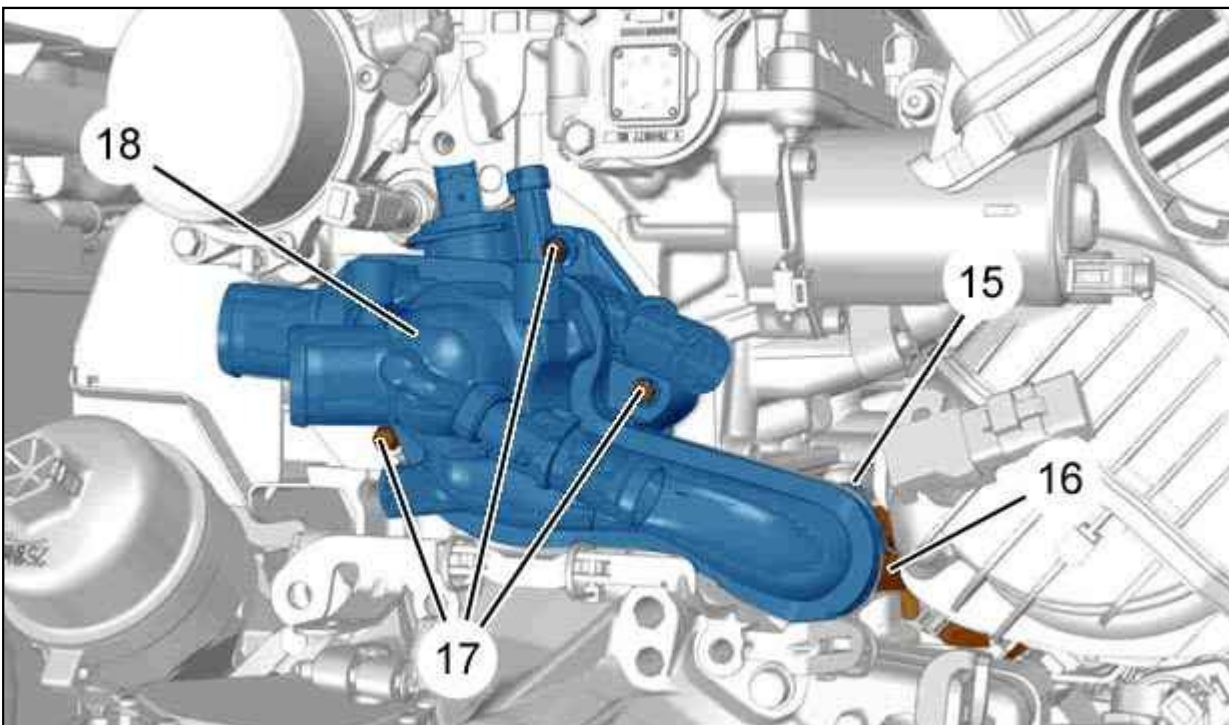


Figure : B1GM031D

Remove :

- The fixing clip (15) (Coolant outlet housing-intermediate pipe connection)
- The mountings (17)

Uncouple : The thermostat (18) (Intermediate pipe (16)).

Remove the coolant outlet housing (18).

## 2. Refitting

**CAUTION :** It is imperative that the coolant outlet housing seals are replaced.

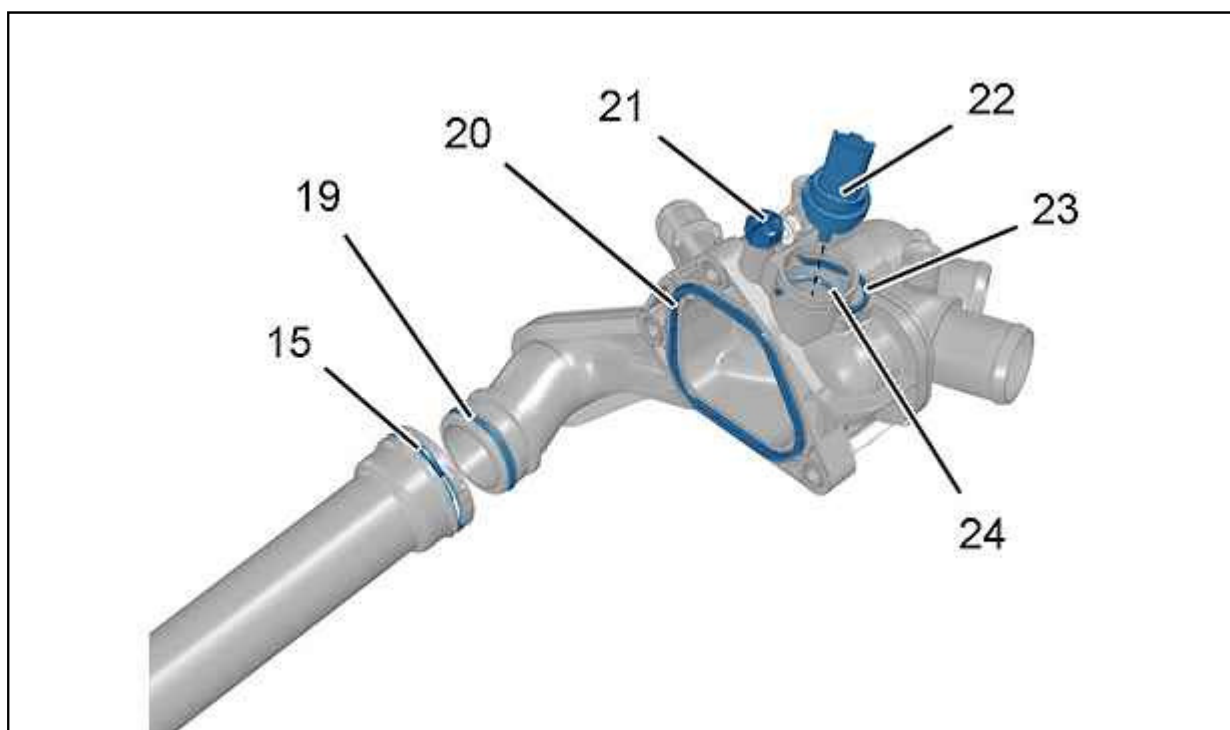


Figure : B1GM032D

Fit :

- The seals (19), (20) (On the coolant outlet housing (18))
- The bleed screw (21)
- Seal (24)
- The coolant temperature sensor (22)
- The clip (23)

Assemble the coolant outlet housing (18) on the intermediate pipe (16).

Fit :

- The mountings (17) ; Tighten to the specified torque
- The fixing clip (15)

Reconnect :

- The cooling radiator outlet hose ( as "m")
- The cooling radiator outlet hose ( as "l")
- The heater matrix coolant outlet pipe ( as "k")
- The heater matrix coolant inlet hose ( as "j")

Fit : The engine harness moulding (14).

Reconnect the connector :

- Oil pressure sensor ( as "h")
- Temperature sensor ( as "g")
- Piloted thermostat supply ( as "f")
- Camshaft position sensor (Inlet) ( as "e")
- Camshaft position sensor (Exhaust) ( as "d")

Reconnect : The vacuum circuit pipe (13) ( as "b").

Clip : The vacuum circuit pipe (13) ( as "c").

Refit the battery tray support .

Clip the harnesses on the battery tray.

Fit :

- The battery
- The engine management ECU

Connect : The engine management ECU .

**CAUTION : Remove : The plugs at the inlet manifold air inlet.**

Fit :

- The battery (12) protective casing
- The air filter housing (11)
- The intermediate mounting (10)
- The securing bolts (9)
- The filter element (8)
- The air filter cover (7)
- The air filter cover fixing bolt (6)
- The air filter cover fixing bolts (5)
- The air entry union (3)
- The air inlet hose fixing bolt (4)
- The air resonator (2)

Clip : The vacuum circuit pipe ( as "a").

Connect the battery.

Refit the battery style cover (1).

**Fill and bleed the cooling system**  .