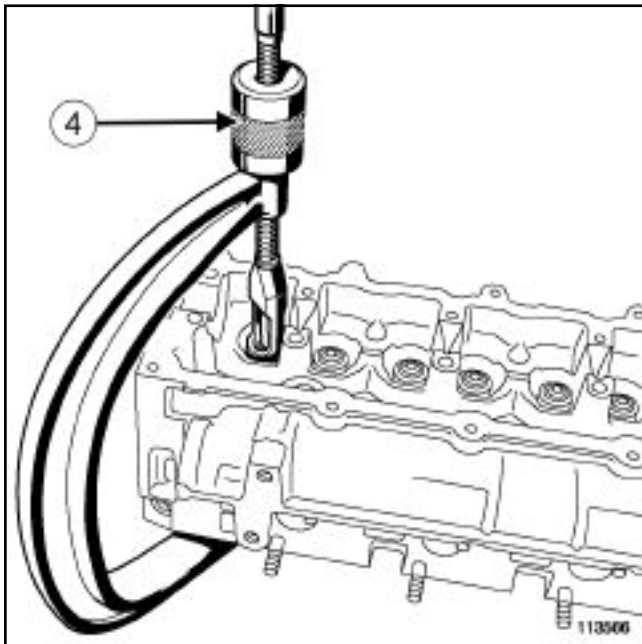
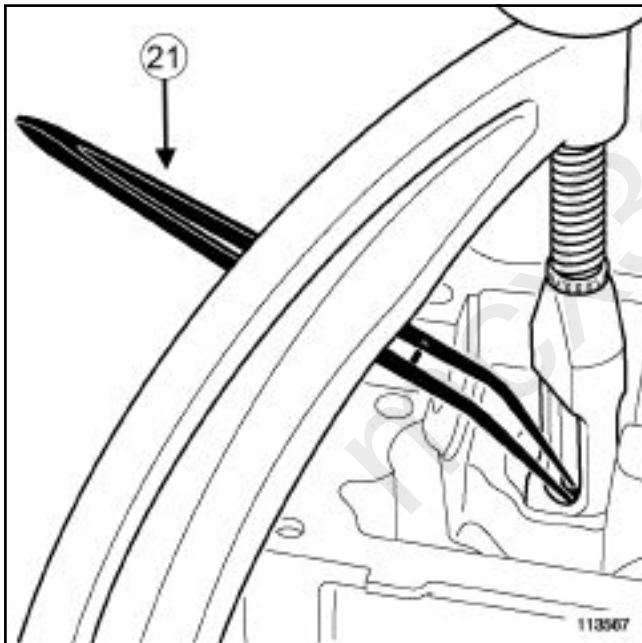


Cylinder head: Dismantling

K9K, and 732 or 764



113566



113567

Compress the valve springs using the **(Mot. 1502)** **(4)** or a valve wrench.

Remove:

- the cotters using tweezers **(21)** ,
- the valve spring upper cups,
- the valve springs,
- the valves.

Upper engine: Cleaning

Special tooling required

Mot. 1729	Pin wrench for removing the EGR valve.
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Mot. 1757	EGR solenoid valve actuator.
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I - RECOMMENDATIONS FOR REPAIR

IMPORTANT

Do not scratch the aluminium sealing surfaces.

Wear goggles.

Wear gloves during the operation.

WARNING

Do not allow this product to drip on to the paintwork.

Clean the cylinder head carefully to prevent foreign bodies from entering the oil supply and return galleries.

Failure to follow this advice could lead to the blocking of the various oil inlet galleries, which would quickly result in engine damage.

When cleaning parts, it is essential to not knock the parts against each other, or their mating faces may be damaged and therefore their adjustments may be altered, which could damage the engine.

Cleaning recommendation for the EGR solenoid valve :

- do not wet the electrical part of the solenoid valve with the cleaning product.
- keep the solenoid valve tilted with the connector at the top.
- only use brushes with plastic or non-corrosive metal (brass) bristles.
- cleaning using hard or corrosive tools (e.g: screwdriver) may damage the valves or their shafts, and lead to leaking valves with a consequent loss of power. Or a loss of the upper valve leading to destruction of the engine.

II - PARTS AND CONSUMABLES FOR THE REPAIR

Consumables

- Décapjoint, part no. **77 01 405 952** ,
- Grey sanding pad, part no. **77 01 405 943** .

- Carburettor cleaner, part no. **77 11 171 437** ,

III - EQUIPMENT REQUIRED

- Protective goggles,
- Protective gloves,
- Wooden spatula,
- Brushes with plastic or non-scratch metal (brass) bristles,
- Compressed air gun,
- Cleaning fountain,
- Cleaning bench.

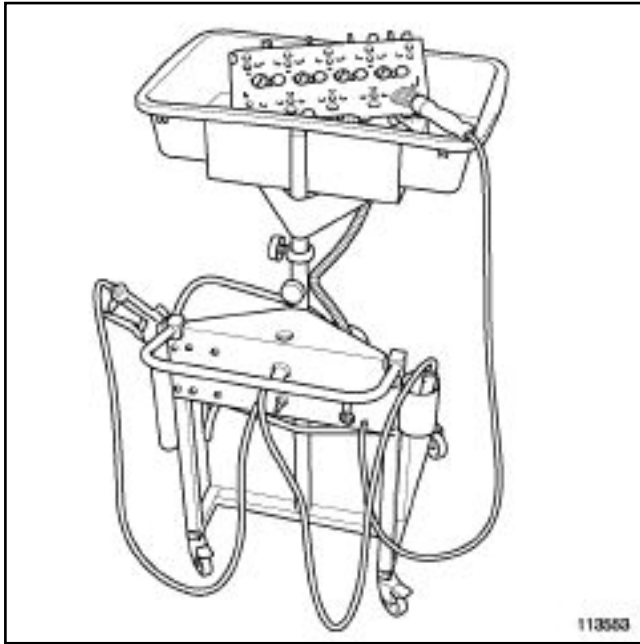
IV - CLEANING THE UPPER ENGINE

Apply the **Décapjoint** product to the sections to be cleaned.

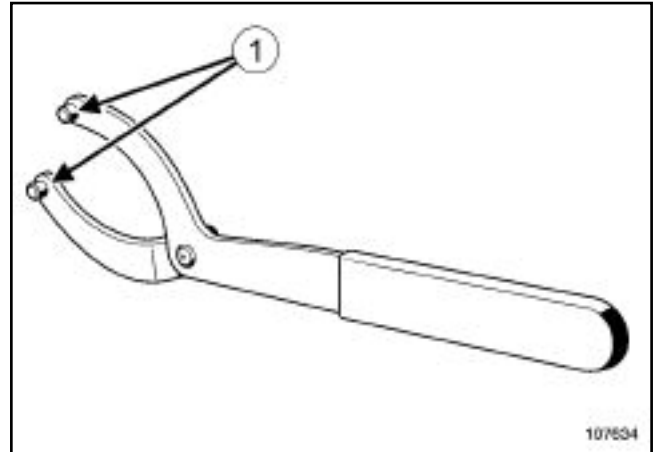
Leave for around ten minutes.

Remove residues with a wooden spatulas

Finish cleaning the parts using a grey polishing pad.



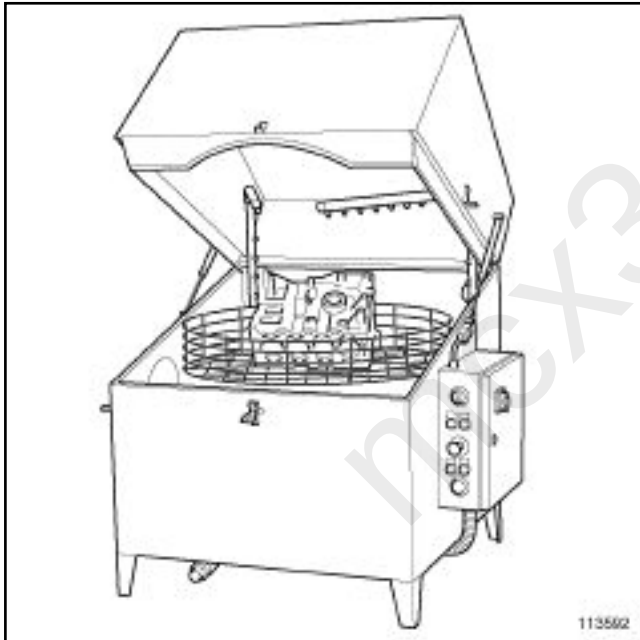
113553



107634

Fully insert the spigots (1) of tool (**Mot. 1729**) in the mounting holes of the EGR solenoid valve.

Remove the EGR solenoid valve, with small rotating movements to detach the EGR solenoid valve from its housing.



113592

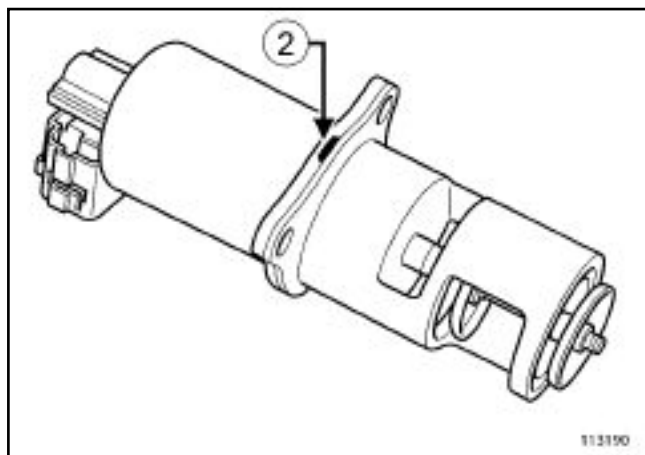
Wash the cylinder head parts using a cleaning fountain or a heated cleaning bath.

V - CLEANING THE EGR SOLENOID VALVE

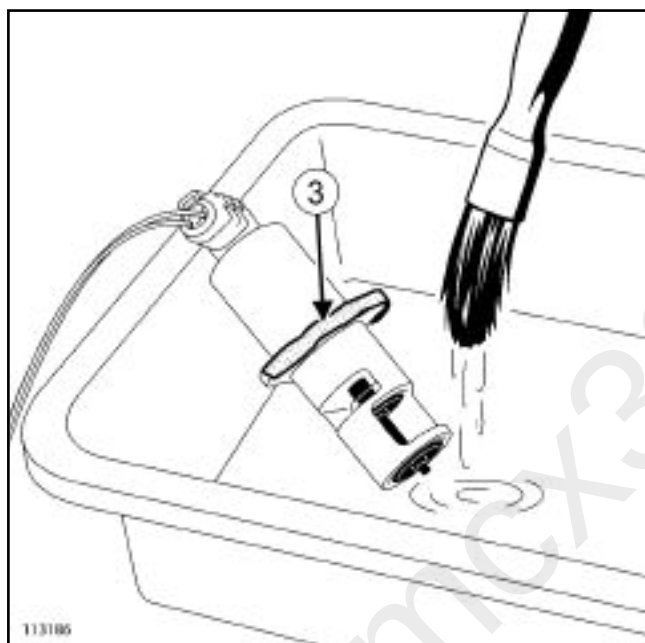
K9K, and 260 or 270 or 272 or 700 or 702 or 704 or 706 or 710 or 712 or 722 or 728 or 729 or 750 or 752

Place the exhaust gas recirculation unit in a vice with clamping jaws.

Remove the EGR solenoid valve mounting bolts.



113190



113186

Protect the vent holes (2) of the solenoid valve using adhesive tape (3) .

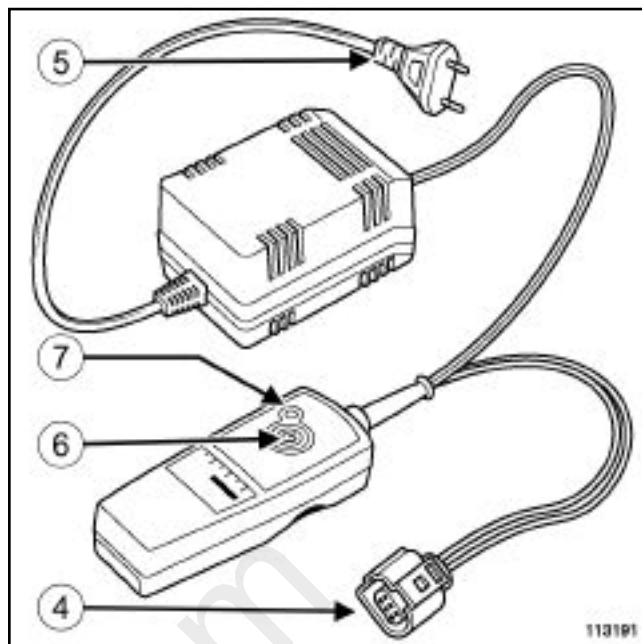
Freely wet the mechanical part only of the EGR solenoid valve with cleaning fluid, while brushing the EGR solenoid valve for **1 min** .

Note:

The EGR solenoid valve actuator tool can be used to check the solenoid valve.

An indicator will sound in case of:

- incorrect connection of the tool to the solenoid valve,
- solenoid valve short circuit,
- break in the solenoid valve circuit.



113191

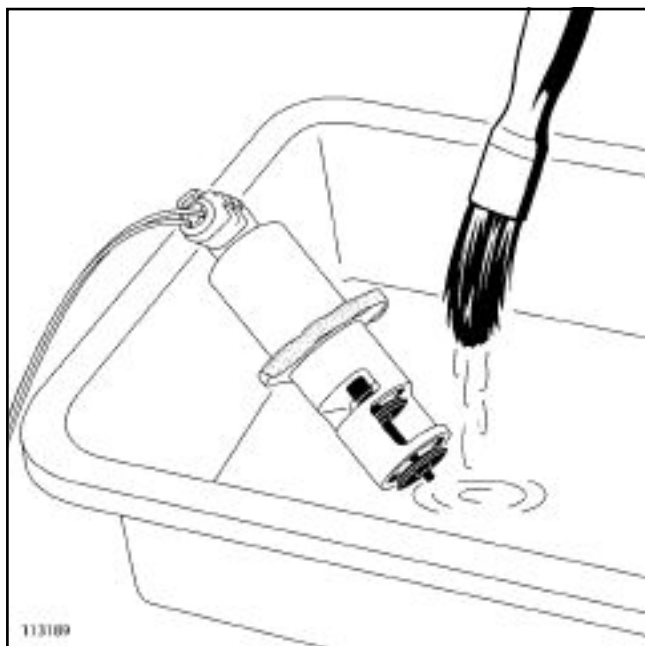
Connect:

- the connector (4) of the (**Mot. 1757**) to the solenoid valve,
- the adaptor (5) of the (**Mot. 1757**) to a power supply.

Briefly press the button (6) to open the solenoid valve valves.

Note:

In the open position (with power to the solenoid valve) the warning light (7) is on.



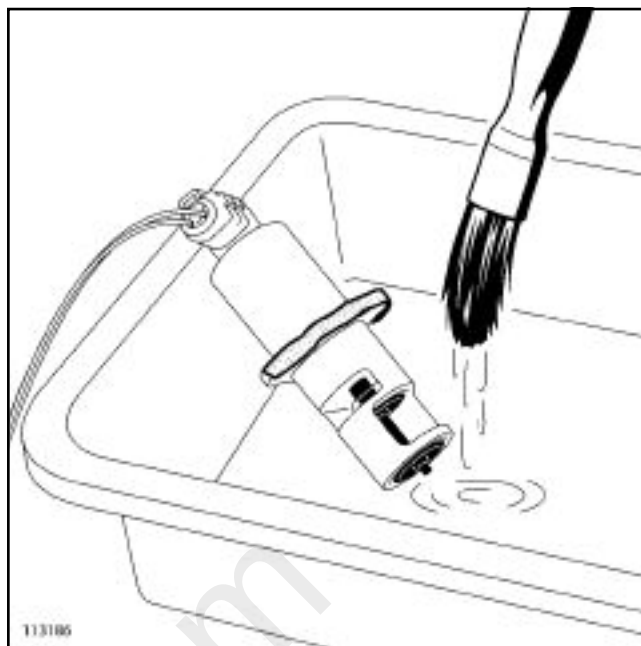
113189

Clean the mechanical part of the solenoid valve by simultaneously scrubbing and drenching with cleaning product for **2 min** , paying particular attention to:

- the valve seats,
- the surfaces of the valves,
- the shaft guide of the valves.

Briefly press the button **(6)** to close the solenoid valve valves.

Start an open/close cycle of the solenoid valve using the **(Mot. 1757)** keeping the button pressed **(6)** .

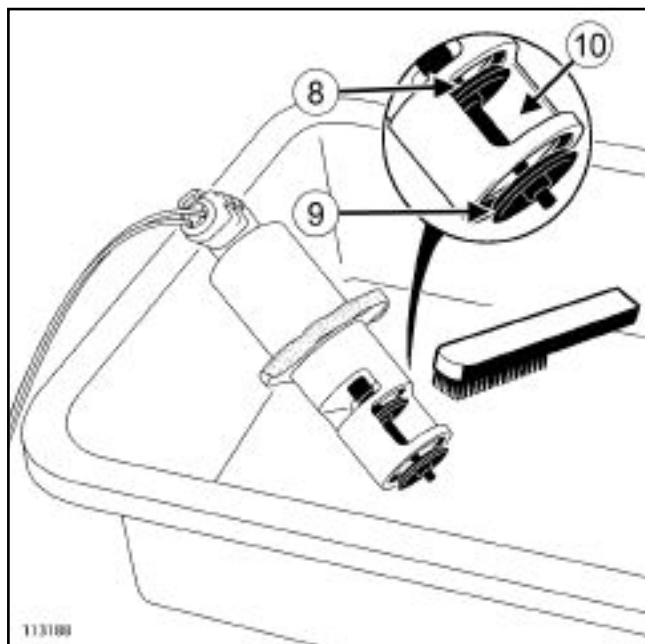


113186

Clean the mechanical section of the solenoid valve (during the open/close cycle) by scrubbing and drenching with cleaning product (simultaneously), paying attention to:

- the valve seats,
- the surfaces of the valves,
- the shaft guide of the valves.

Briefly press the button **(6)** to open the solenoid valve valves.



113188

Scrub the upper valve (9) over its entire surface and circumference.

Scrub the part of the lower valve (8) which is accessible through the window (10) .

Hold the upper valve (9) .

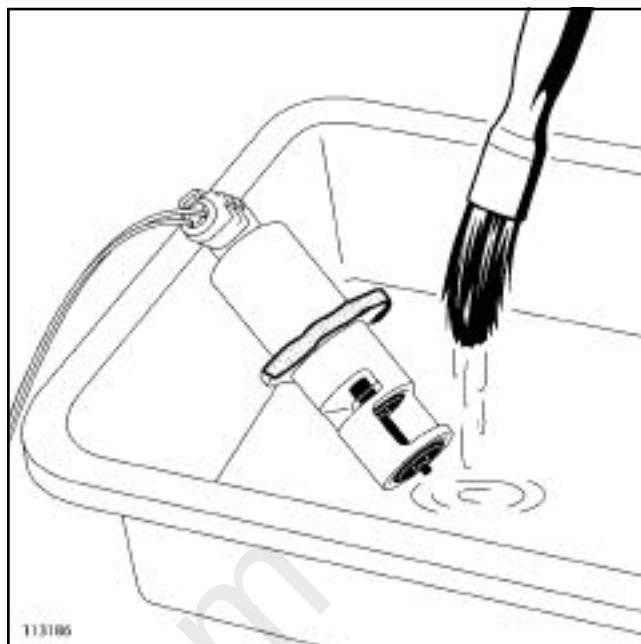
Quarter turn the valve.

Scrub the part of the lower valve (8) which is accessible through the window (10) .

Continue until the valve has been cleaned over its entire circumference.

Briefly press the button (6) to close the solenoid valve valves.

Run the open/close cycle of the solenoid valve twice using the (**Mot. 1757**) keeping the button pressed (6) .



113186

Clean the mechanical part of the solenoid valve (during the open/close cycle) by scrubbing and drenching with cleaning product (simultaneously), paying attention to:

- the valve seats,
- the surfaces of the valves,
- the shaft guide of the valves.

Check there are no bristles from the brush in the solenoid valve.

Briefly press the button (6) to open the solenoid valve valves.