

Drive plate: Removal - Refitting

M4R, and DP0

REFITTING

I - REFITTING PREPARATIONS OPERATION

- ☐ Check that the drive plate is not damaged (run-out tolerance of **0.2 mm** on the outer diameter).

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Fit the drive plate, ensuring it is correctly positioned in relation to the centring pins.
- ☐ Apply **HIGH RESISTANCE THREAD LOCK** to the bolt threads.
- ☐ Finger tighten the drive plate mounting bolts.
- ☐ Torque and angle tighten the **drive plate bolts (108 Nm)** by immobilising the starter ring with the tool.

III - FINAL OPERATION.

- ☐ Refit:
 - the automatic gearbox (see **Automatic gearbox: Removal - Refitting**) ,
 - the left-hand suspended engine mounting (see **19D, Engine mounting, Left-hand suspended engine mounting: Removal - Refitting**, page **19D-34**) (MR 392, 19D, Engine mounting),
 - the radiator mounting cross member (see **Radiator mounting cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure),
 - the right-hand driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) ,
 - the left-hand driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) ,
 - the starter (see **16A, Starting - Charging, Starter: Removal - Refitting**, page **16A-23**) (MR392, 16A, Starting-charging),
 - the cooling radiator (see **19A, Cooling, Cooling radiator: Removal - Refitting**, page **19A-20**) (MR 392, 19A, Cooling),
 - the front end panel (see **Front end panel: Removal - Refitting**) (MR 393, 42A, Upper front structure),
 - the frontal impact cross member (see **Front impact cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure),
 - the headlights (see **Halogen headlight: Removal - Refitting**) (MR 392, 80B, Headlights) or (see **Xenon headlight: Removal - Refitting**) (MR 392, 80C, Xenon bulbs),

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),

- the front wheels (see **Wheel: Removal - Refitting**) (MR 392, 35A, Wheels and tyres).

- ☐ Fill the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page **19A-16**) (MR 392, 19A, Cooling).

- ☐ Refit:

- the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),

- the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) (MR 392, 12A, Fuel mixture),

- the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

- ☐ Bleed the cooling system (see **Cooling system: Bleed**) (MR 392, 19A, Cooling).

TOP AND FRONT OF ENGINE

Pressure at end of compression: Check

11A

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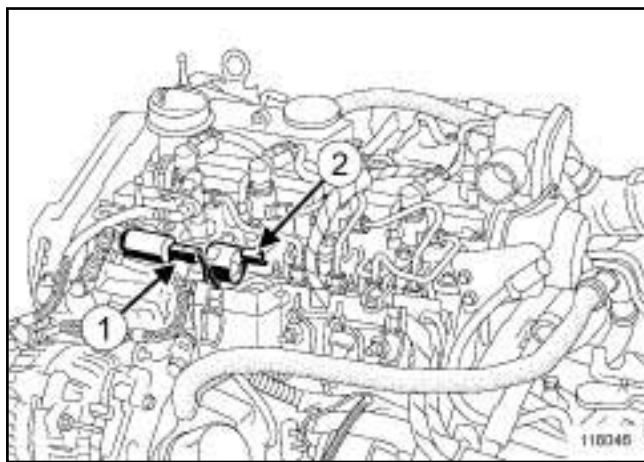
Special tooling required

Mot. 1592 Flexible end piece for taking end of compression pressure measurements.

Equipment required

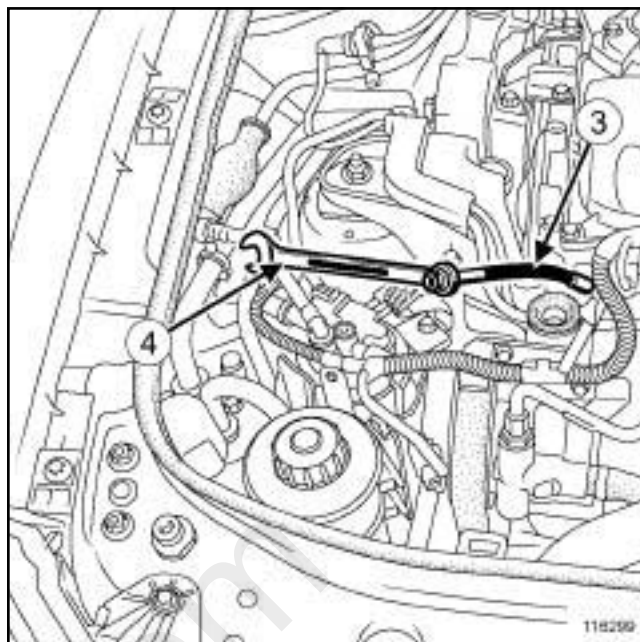
Diagnostic tool

- ❑ Remove the heater plugs (see **13C, Preheating, Heater plugs: Removal - Refitting**, page **13C-2**).



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- ❑ Disconnect:
 - the pressure regulation solenoid valve connector (1),
 - the flow control solenoid valve connector (2),
- ❑ Fit the hose end piece (**Mot. 1592**) in place of one of the removed plugs.



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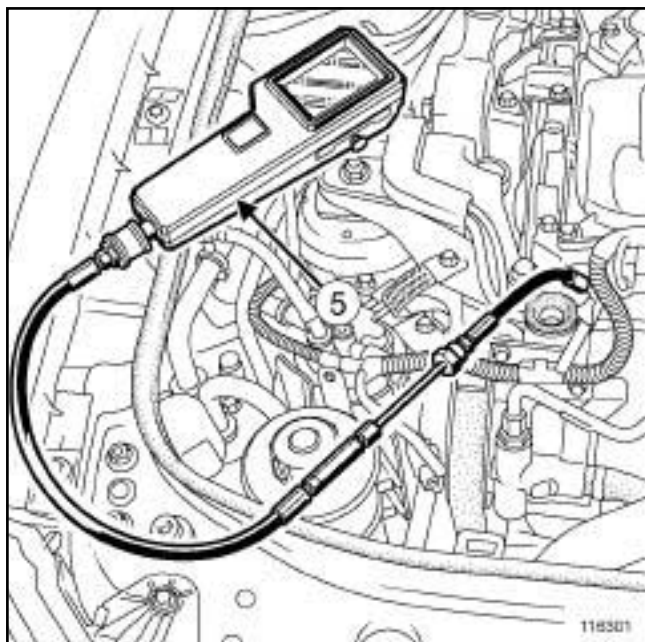
- ❑ Moderately tighten the hose end piece (**Mot. 1592**) using an open-jawed spanner.

TOP AND FRONT OF ENGINE

Pressure at end of compression: Check

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- ☐ Moderately tighten the diesel compression gauge on the hose end piece (**Mot. 1592**).
- ☐ Connect a self-contained starter or an automatic battery charger.
- ☐ Vehicle which is equipped with RENAULT Card:
 - run command **SC003 Save computer data**,
 - run command **RZ019 Reinitialise programming**,
 - run the starter for at least **15 seconds** until the compression gauge needle stabilises to obtain the maximum value,
 - open the discharge valve to release all of the pressure in the compression gauge,
 - proceed through the diagram sheet,
 - carry out the same procedure for the other cylinders,
 - run command **SC001 Write computer data**.
- ☐ For vehicles equipped with keys, follow the starting cycle until the compression gauge needle stabilises to obtain the maximum value:
 - open the discharge valve to release all of the pressure in the compression gauge,
 - proceed through the diagram sheet,
 - carry out the same procedure for the other cylinders.

Note:

The pressure value after compression must be at least **18 bar**.

- ☐ Disconnect the self-contained starter or automatic battery charger.
- ☐ Loosen:
 - the diesel compression gauge on the hose end piece (**Mot. 1592**),
 - the hose end piece (**Mot. 1592**) using an open-jawed spanner.
- ☐ Remove the hose end piece (**Mot. 1592**) which was fitted in place of one of the removed plugs.
- ☐ Connect:
 - the connector to the pressure regulation solenoid valve,
 - the flow control solenoid valve connector,
- ☐ Refit the heater plugs (see **13C, Preheating, Heater plugs: Removal - Refitting**, page **13C-2**).
- ☐ Using the **Diagnostic tool**, check for the absence of stored faults in the computers; deal with any faults and clear them if necessary.

TOP AND FRONT OF ENGINE

Pressure at end of compression: Check

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Equipment required

petrol compression gauge

Diagnostic tool

CHECK

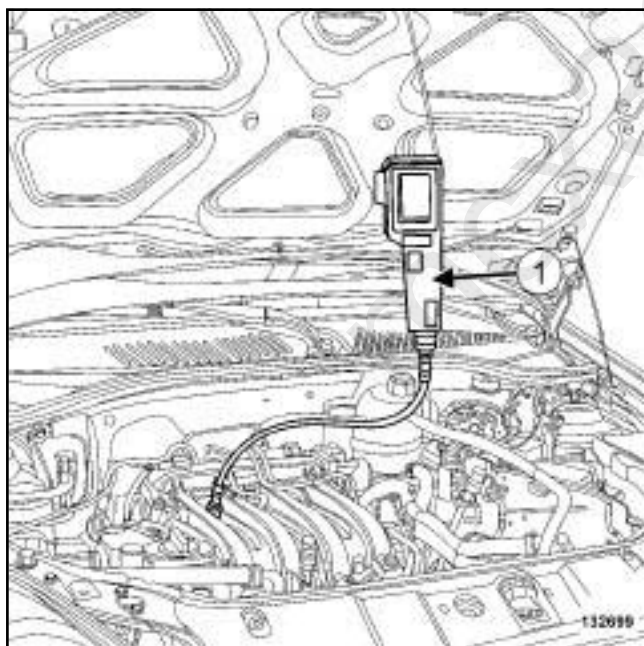
I - PREPARATION OPERATION FOR CHECK

- ❑ Remove the plugs (see **17A, Ignition, Plugs: Removal - Refitting**, page **17A-11**) .

Note:

Use a petrol compression gauge compatible with the special tools.

The petrol compression gauge must be equipped with a universal end piece (rubber), or a gaz 1/4 thread bolt.



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- ❑ Connect a **petrol compression gauge (1)** .
- ❑ Run command with **Diagnostic tool** :
 - **RZ009: VEHICLE FUNCTION PROGRAMMING**,
 - **VP036: FUEL SUPPLY INHIBITION**.
- ❑ Put the vehicle under the starting conditions by positioning the gear lever in neutral.

II - TEST OPERATION

- ❑ Activate the starter until the needle of the **petrol compression gauge** stabilises.
- ❑ Measure the cylinder compressions, cylinder by cylinder.
- ❑ Fully depress the accelerator pedal in order to open the throttle valve during the compression measurements.

Note:

It is necessary to wait for at least **10 seconds** before starting the engine each time (the starter will not run due to its thermal protection).

III - FINAL OPERATION

- ❑ Disconnect the **petrol compression gauge**.
- ❑ Refit the plugs (see **17A, Ignition, Plugs: Removal - Refitting**, page **17A-11**) .
- ❑ Run command **VP037: "STOP INHIBIT FUEL SUPPLY"** using the **Diagnostic tool**.
- ❑ Start the engine.

Note:

If the engine does not start, run command **VP037: STOP FUEL SUPPLY INHIBITION** using the **Diagnostic tool** or switch off the ignition and wait **1 min** before starting the engine again.