K9K, and JH3 or JR5 or TL4

- the left-hand side reinforcement,
- the air conditioning pipes.

❏ Torque tighten the **air conditioning pipe bolts (8 N.m)**.

❏ Connect the pressure switch connector to the condenser.

❏ Position the expansion bottle.

❏ Connect:

- the passenger compartment heating hoses,
- the top hose on the coolant outlet unit,
- the bottom radiator hose,
- the fan assembly connectors.

❏ Refit:

- the front left-hand driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) (29A, Driveshafts),
- the front right-hand driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) (29A, Driveshafts),
- the turbocharging ducts,
- the nut to the turbocharger pipes on the alternator,
- the intercooler,
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the inlet pipe to the inlet manifold.

❏ Connect the inlet air pressure sensor.

❏ Fit the air duct between the turbocharger and the intercooler air inlet pipe.

❏ Clip the air duct onto the turbocharger and the air pipe at the intercooler inlet.

❏ Refit the air duct bolt on the rocker cover.

❏ Torque tighten the **nut mounting the intercooler inlet air pipe on the alternator (8 N.m)**.

❏ Refit:

- the battery tray base,
- the air filter unit.

❏ Fit the air inlet duct on the air filter unit and tighten the clip.

❏ Refit the battery protective tray.

❏ Fit the fuse board.

❏ Refit the battery (see **Battery: Removal - Refitting**) (80A, Battery).

❏ Connect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

❏ Perform the following operations:

- fill the refrigerant circuit using the **refrigerant charging station** (see **Refrigerant circuit: Draining - Filling**) (62A, Air conditioning),
- top up the engine oil (if necessary) (see **10A**, **Engine and cylinder block assembly**, **Engine oil: Draining - Refilling**, page **10A-13**) ,
- fill the manual gearbox oil (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox),
- fill and bleed the coolant circuit (see **19A**, **Cooling**, **Cooling system: Draining - Refilling**, page **19A-16**) .

❏ Refit:

- the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
- the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
- the engine cover.

K9K, and 772

❏ Carry out a sealing test on the fuel supply circuit of the exhaust fuel injector (see **19B**, **Exhaust**, **Exhaust fuel injector: Removal - Refitting**, page **19B-64**) .

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D4F

Special tooling required	
Mot. 1054	TDC setting pin.

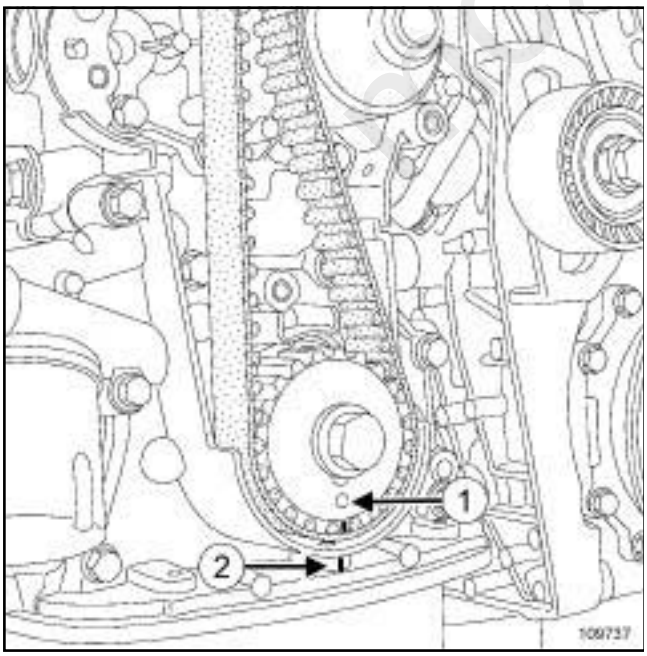
I - VALVE CLEARANCE ADJUSTMENT PREPARATION OPERATION

❏ Fit the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .

❏ Remove:

- the front right-hand wheel (see **Wheel: Removal - Refitting**) ,
- the front right-hand wheel arch liner (see **MR 393 Bodywork, 55A, Exterior protection, Front wheel arch liners: Removal - Refitting**).
- the air filter unit (see **12A**, **Fuel mixture**, **Air filter unit: Removal - Refitting**, page **12A-17**) ,
- the plenum chamber (see **12A**, **Fuel mixture**, **Inlet distributor: Removal - Refitting**, page **12A-46**) ,
- the rocker cover (see **11A**, **Top and front of engine**, **Rocker cover: Removal - Refitting**, page **11A-183**) .

Adjusting the timing



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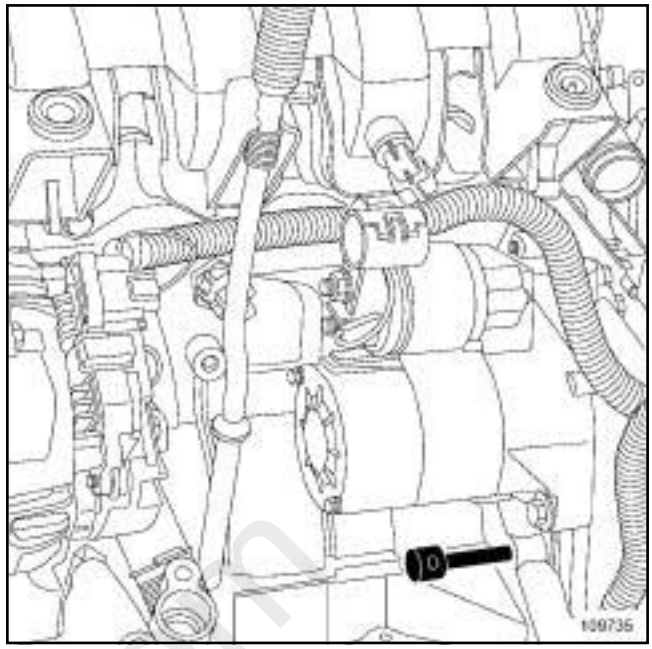
❏ Turn the crankshaft clockwise (timing end), half a tooth before the alignment of the crankshaft pulley mark (**1**) with the fixed mark (**2**) .



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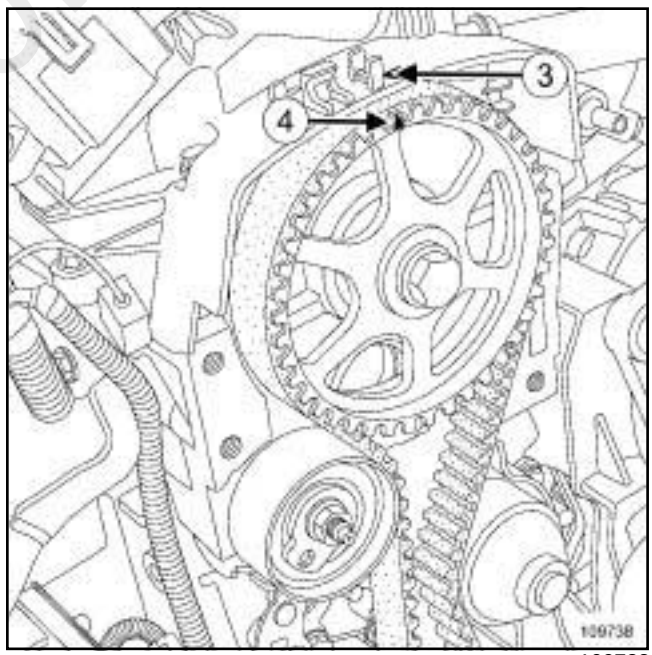
❏ Insert **(Mot. 1054)**.

❏ Turn the crankshaft clockwise to the timing point.



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❏ Check that the camshaft pulley mark (**4**) and the crankshaft pulley mark ***(1)*** are aligned with the fixed marks (**3**) .

II - ADJUSTING THE VALVE CLEARANCES

❏ To adjust the valves (see **Technical Note 6004A, Petrol engine - 4 cylinders - D4, 10A, Engine and peripherals, Timing - cylinder head: Refit**).

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III - FINAL OPERATION

❑ Refit:

- the rocker cover (see **11A**, **Top and front of engine**, **Rocker cover: Removal - Refitting**, page **11A-183**) ,
- the plenum chamber (see **12A**, **Fuel mixture**, **Inlet distributor: Removal - Refitting**, page **12A-46**) ,
- the air filter unit (see **12A**, **Fuel mixture**, **Air filter unit: Removal - Refitting**, page **12A-17**) ,
- the front right-hand wheel arch liner (see **MR 393 Bodywork, 55A, Exterior protection, Front wheel arch liners: Removal - Refitting**).
- the front right-hand wheel (see **Wheel: Removal - Refitting**) .

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Valves: Adjustment

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❑ To adjust the valves (see **Cylinder head: Rebuilding**) (Technical Note 6006A, 10A, Engine and peripherals).

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