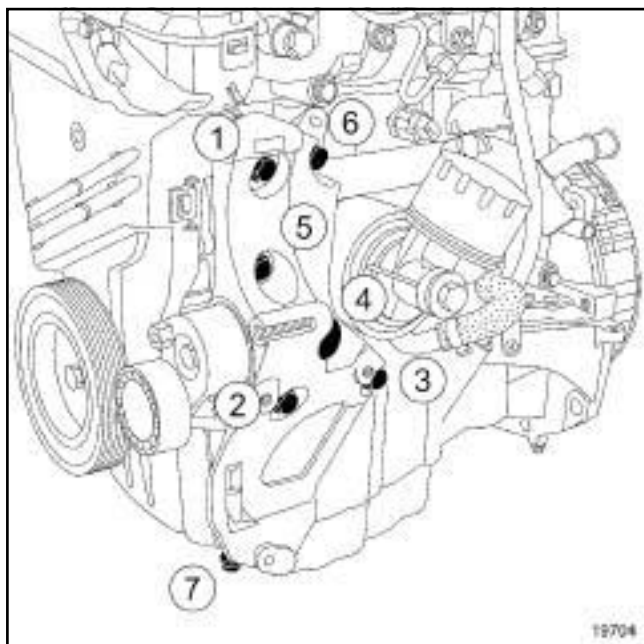


K9K

REFITTING

REFITTING OPERATION



19704

- ☐ Refit the multifunction support.
- ☐ Position bolts (1) to (7) without tightening them.
- ☐ Pretighten the multifunction support bolts (1) and (2) on the cylinder block **5 N.m**.
- ☐ Loosen bolts (1) and (2) a half-turn.
- ☐ Pretighten the multifunction support bolt (7) on the sump **5 N.m**.
- ☐ Pretighten the multifunction support bolts (1) and (2) on the cylinder block **5 N.m**.
- ☐ Pretighten the multifunction support bolts (3) , (4) , (5) , (6) on the cylinder block **5 N.m**.
- ☐ Torque tighten in order (1) , (2) , (3) , (4) , (5) , (6) the **multifunction support bolts on the cylinder block (44 N.m)**.
- ☐ Torque tighten the **multifunction support bolt on the sump (25 N.m) (7)** .
- ☐ Proceed in the reverse order to removal.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine - gearbox assembly: Removal - Refitting

10A

K4M

Special tooling required

Mot. 1448	Remote operation pliers for hose clips.
Mot. 1390	Support for removal - refitting of engine - gearbox assembly

Equipment required

refrigerant charging station

Tightening torques

nut on the rubber pad support of the left-hand suspended engine mounting	62 N.m
exhaust flange bolts	21 N.m
front axle subframe tie-rod upper bolts	21 N.m
anti-roll bar tie rod upper bolts	37 N.m
earth strap bolt on the gearbox	21 N.m
power-assisted steering low pressure pipe bolt on the front axle sub-frame	21 N.m
power-assisted steering pipe bolts on the gearbox support	21 N.m
power-assisted steering pipe bolts on the gearbox	21 N.m
power-assisted steering pipe bolt on the cylinder block	21 N.m

IMPORTANT

Wear cut-resistant gloves during the operation.

REMOVAL

I - REMOVAL PREPARATION OPERATION



IMPORTANT

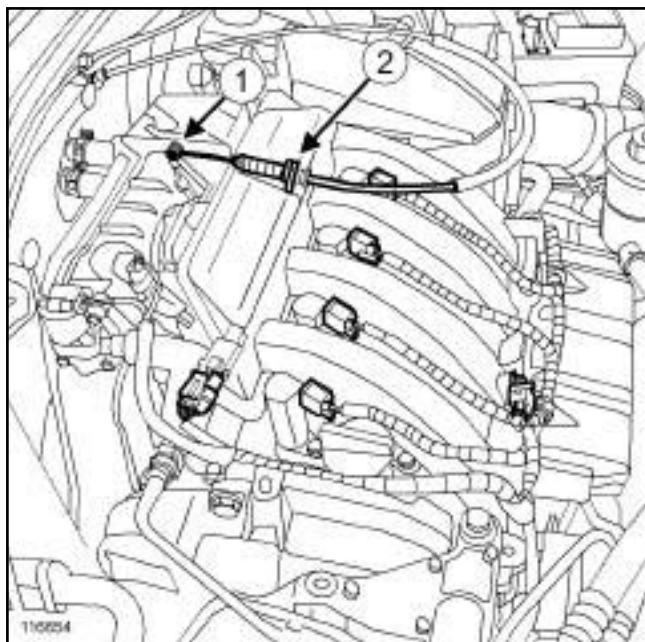
To prevent the vehicle from falling, lash it to the vehicle lift using a strap.

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

AIR CONDITIONING

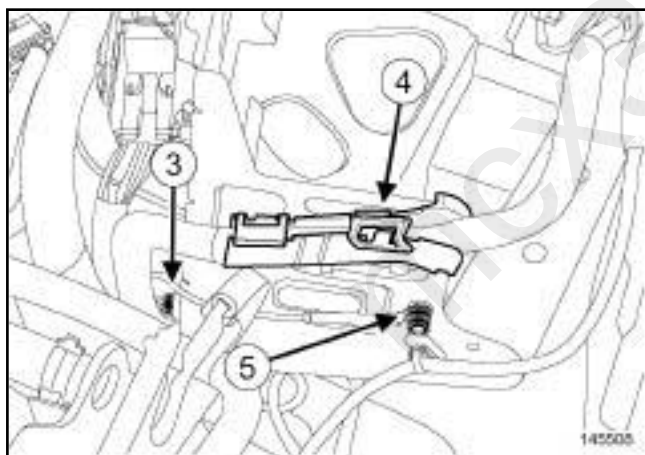
- ☐ Drain the refrigerant circuit using the tool **refrigerant charging station** (see **Refrigerant circuit: Draining - Filling**) (62A, Air conditioning).
- ☐ Remove:
 - the air inlet sleeve,
 - the battery (see **Battery: Removal - Refitting**) (80A, Battery),
 - the air resonator (see **12A, Fuel mixture, Air resonator: Removal - Refitting**, page 12A-2) ,
 - the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-6) ,
 - the injector rail protector,
 - the battery tray,
 - the injection computer (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page 17B-7) .

K4M



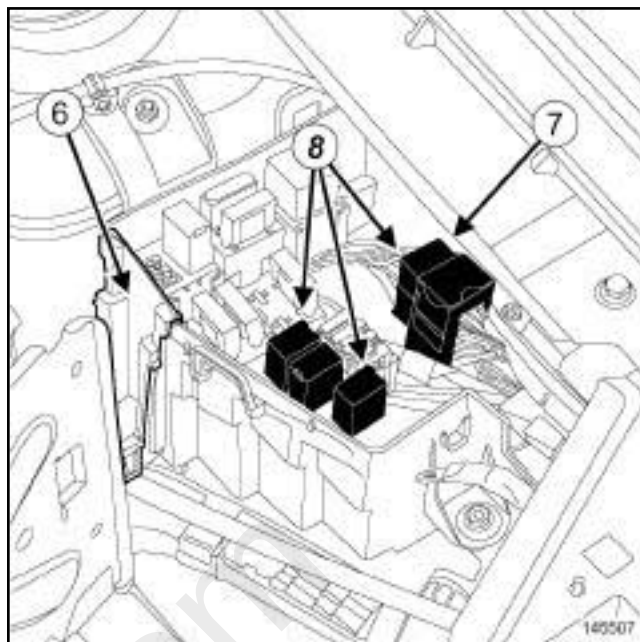
116654

- ❑ Disconnect the accelerator cable on the throttle valve at (1) .
- ❑ Remove the accelerator cable from the inlet distributor at (2) .



145508

- ❑ Remove the engine wiring bolt (3) on the battery mounting.
- ❑ Unclip the battery wiring at (4) .
- ❑ Remove the earth strap bolt (5) on the battery mounting.

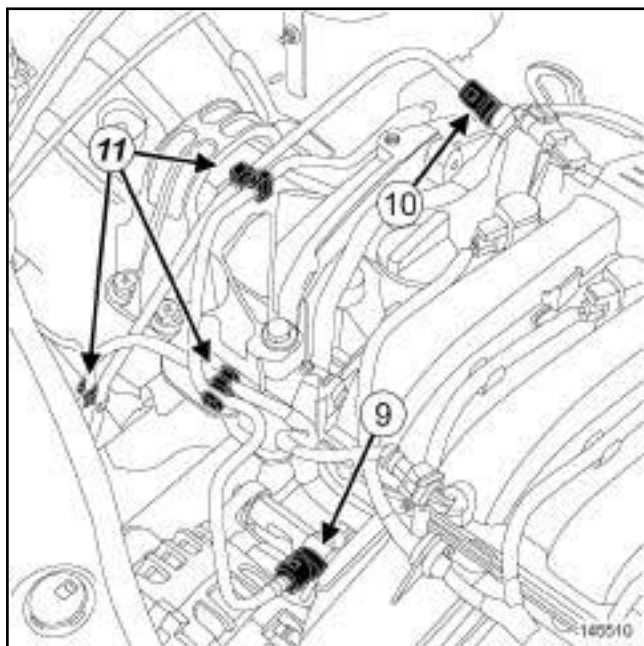


145507

- ❑ Remove the fuse and relay box cover.
- ❑ Remove the side protector (6) of the fuse and relay box.
- ❑ Disconnect the engine harness - front wiring connector (7) .
- ❑ Unclip the engine harness fuse holders and relays (8) from their mountings on the fuse and relay box in the engine compartment.
- ❑ Position the engine harness, fuses and relays on the engine.
- ❑ Remove:
 - the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
 - the engine undertray bolts,
 - the engine undertray,
 - the front bumper (see **Front bumper assembly: Exploded view**) and (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection),
 - the front wheel arch liners (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection).
- ❑ Drain:
 - the engine oil if necessary (see **10A, Engine and cylinder block assembly, Engine oil: Draining - Refilling**, page 10A-32) ,
 - the gearbox oil (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox),

K4M

- the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page **19A-6**) .



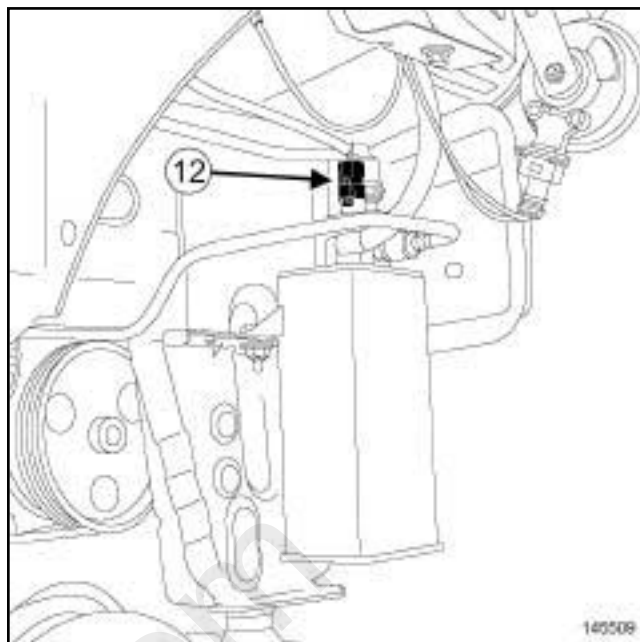
☐ Disconnect:

- the fuel supply pipe (9) on the injector rail,
- the petrol vapour rebreather pipe (10) .

WARNING

To avoid any corrosion or damage, protect the areas on which fuel is likely to run.

- ☐ Fit blanking plugs on the fuel supply pipe.
- ☐ Unclip the pipes at (11) .

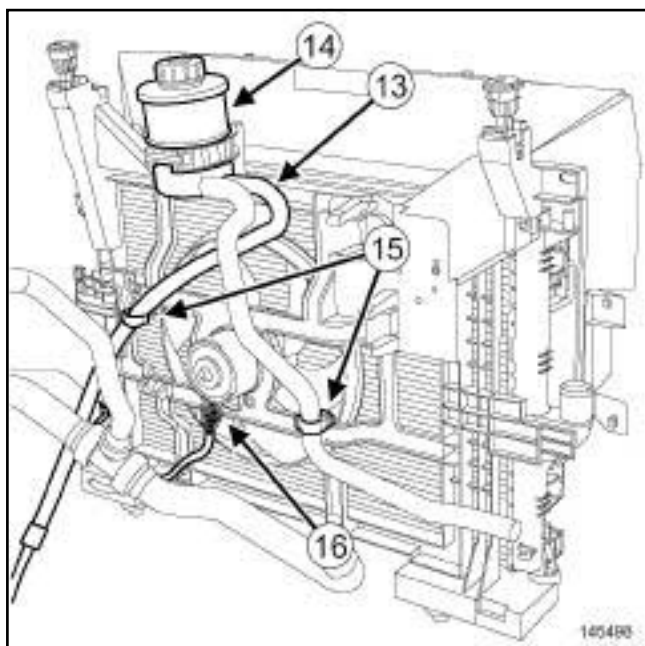


145509

- ☐ Disconnect the connector (12) from the fuel vapour recirculation solenoid valve.
- ☐ Disconnect (see **Power-assisted steering pump: Removal - Refitting**) (36B, Power-assisted steering):
 - the power-assisted steering low pressure hose on the power-assisted steering pump using the (**Mot. 1448**) and drain the circuit,
 - the power-assisted steering high pressure pipe on the power-assisted steering pump,
 - the connector from the power-assisted steering pressure switch.

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STANDARD HEATING RECIRCULATION



145498

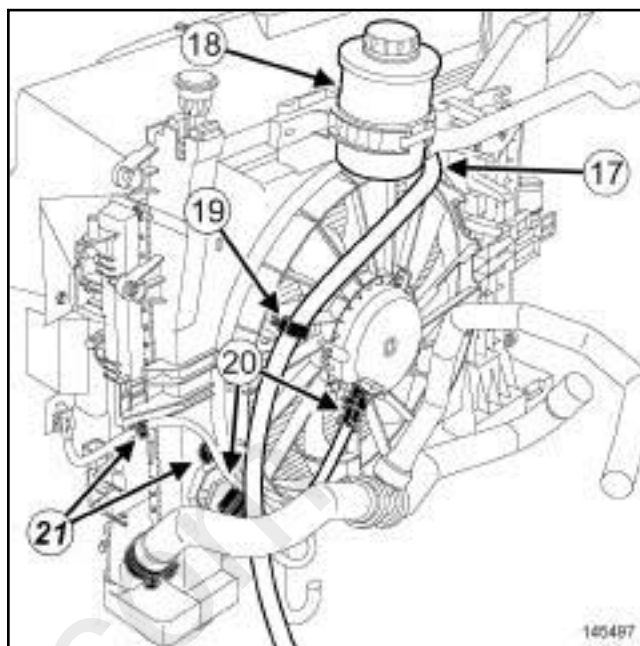
Remove:

- the power-assisted steering low pressure pipe (13) on the oil reservoir using the (Mot. 1448),
- the power assisted steering oil reservoir (14) ,
- the bolt of the power-assisted steering high pressure pipe on the cylinder block.

Unclip the power-assisted steering pipes on the fan assembly mounting at (15) .

Disconnect the fan assembly connector (16) .

AIR CONDITIONING



145497

Remove:

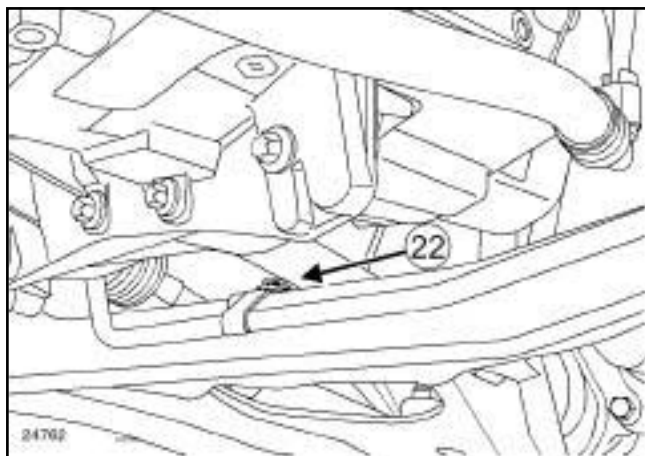
- the power-assisted steering low pressure pipe (17) on the oil reservoir using the (Mot. 1448),
- the power assisted steering oil reservoir (18) ,
- the bolt of the power-assisted steering high pressure pipe on the cylinder block.

Unclip the power-assisted steering pipes on the fan assembly mounting at (19) .

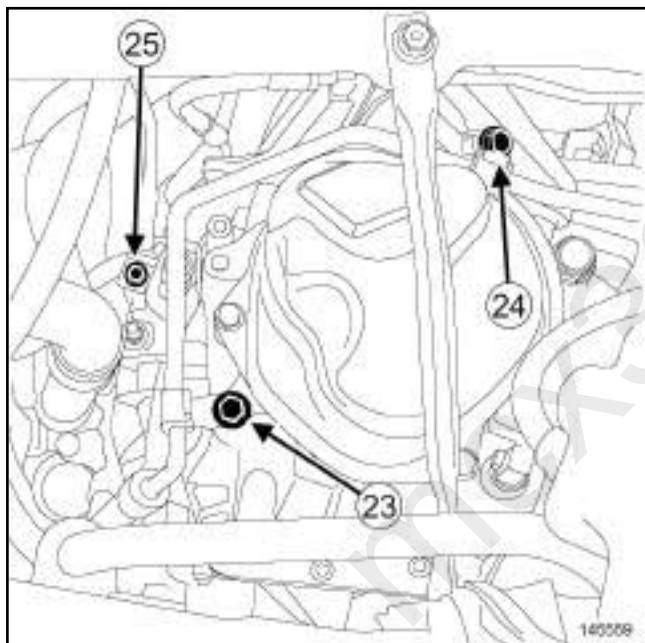
Disconnect the connectors (20) from the fan assembly.

Unclip the fan assembly wiring at (21) .

K4M



- ❑ Remove the power-assisted steering low pressure pipe bolt (22) on the front axle subframe.



- ❑ Remove:
 - the power-assisted steering high pressure pipe bolt (23) on the gearbox,
 - the power-assisted steering high pressure pipe bolt (24) on the gearbox support,
 - the earth strap bolt (25) on the gearbox.

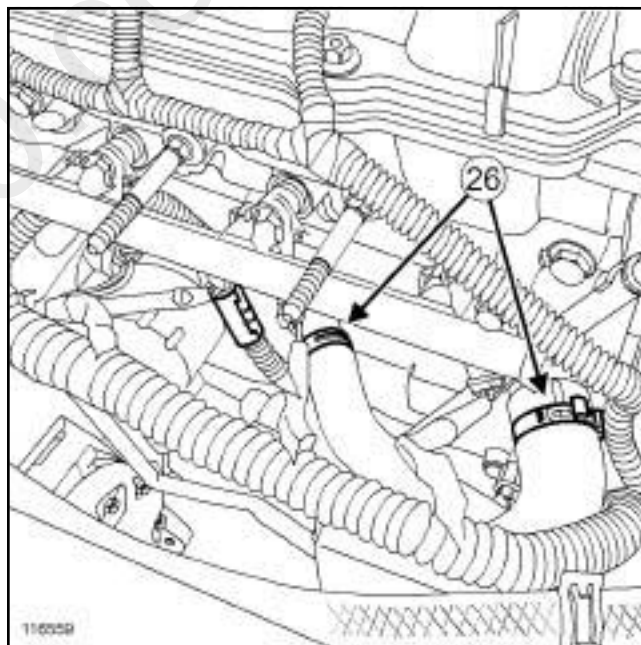
AIR CONDITIONING

- ❑ Remove (see **Compressor: Removal - Refitting**) (62A, Air conditioning):
 - the pipe retaining bracket bolt on the compressor,
 - the pipe union bolts on the compressor.

Note:

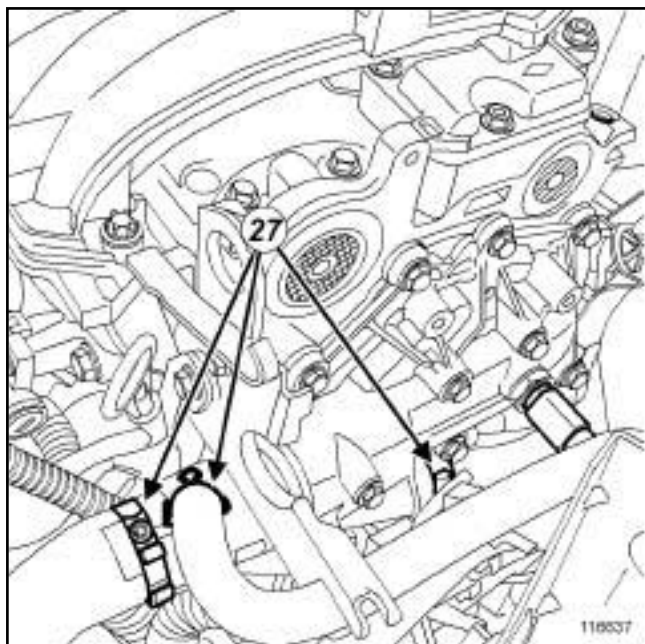
Plugs must be fitted on the hoses to prevent moisture from entering the system.

- ❑ Disconnect the compressor pipes.
- ❑ Fit blanking plugs in the pipe openings.
- ❑ Disconnect the air conditioning pressostat connector.



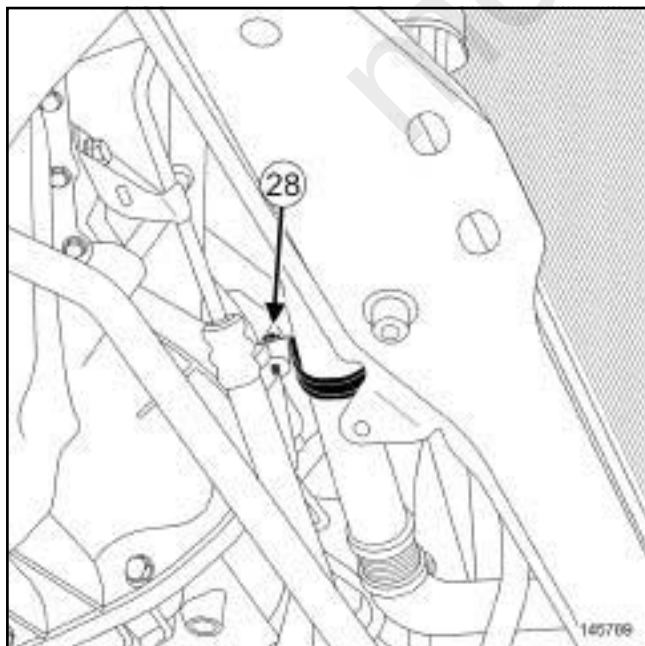
- ❑ Move aside the cooling hose clips (26) on the coolant pump inlet pipe using the (**Mot. 1448**).
- ❑ Disconnect:
 - the cooling hoses on the coolant pump inlet pipe,
 - the vacuum pipe on the inlet distributor chamber.

K4M



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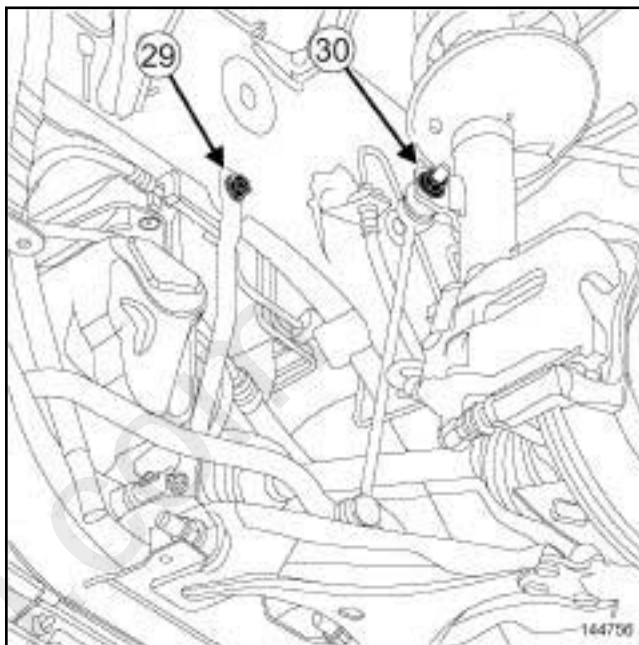
- ☐ Move aside the clips (27) of the coolant hoses on the water chamber using the (Mot. 1448).
- ☐ Disconnect the cooling hoses from the water chamber.
- ☐ Unclip the downstream oxygen sensor wiring on the steering box heat shield.
- ☐ Disconnect the downstream oxygen sensor connector.



145789

- ☐ Remove the cooling pipe support bolt (28) on the sump.

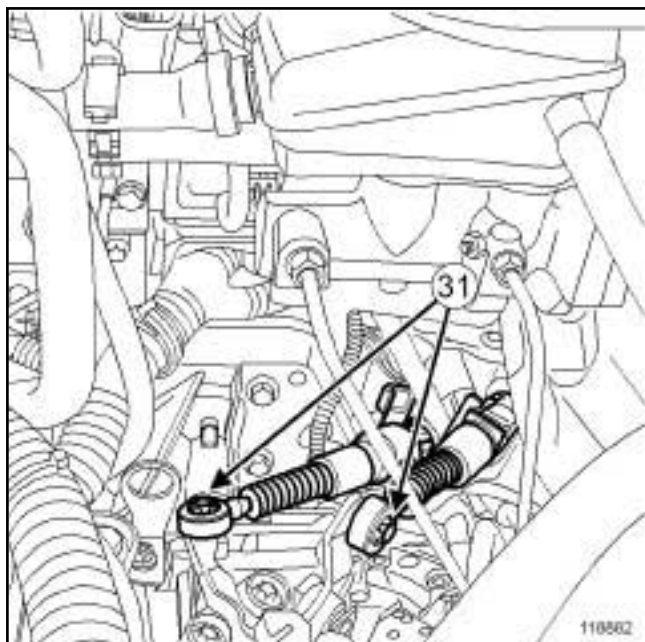
- ☐ Remove (see) (36A, Steering assembly):
 - the heat shield bolts on the steering box,
 - the steering box heat shield,
 - the steering box bolts on the front axle subframe.
- ☐ Attach the steering rack to the body.



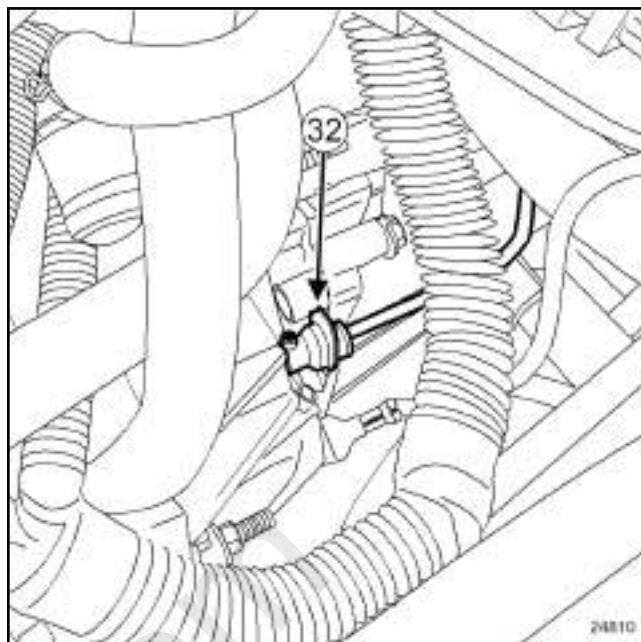
144756

- ☐ Remove:
 - the front axle subframe tie-rod upper bolts (29) ,
 - the anti-roll bar tie rod upper bolts (30) ,
 - the front right-hand wheel driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) (29A, Driveshaft),
 - the front left-hand wheel driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) (29A, Transmission).
- ☐ Pass the power-assisted steering low pressure pipe over the gearbox cover.

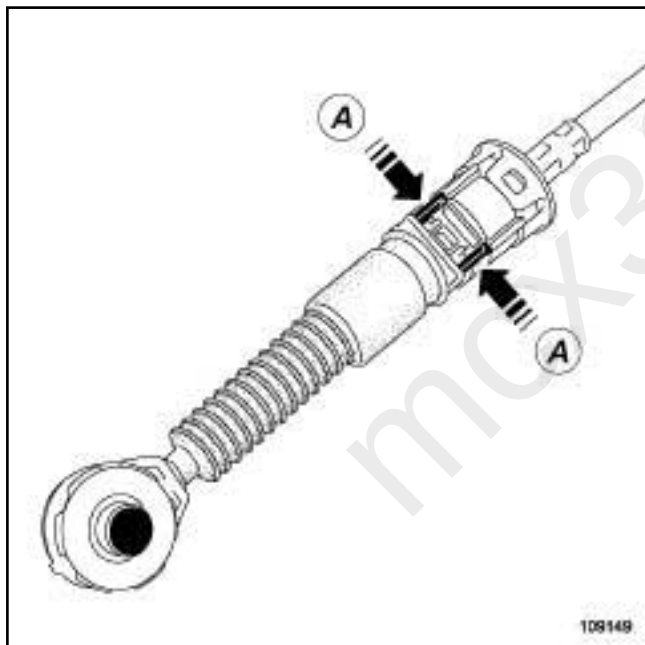
K4M



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□ Unclip:

- the gear control cables on the gearbox at (31) using a screwdriver,
- the gear control cables from the sleeve stops by pressing at (A) .

- Move the gear control cables away from the gearbox.

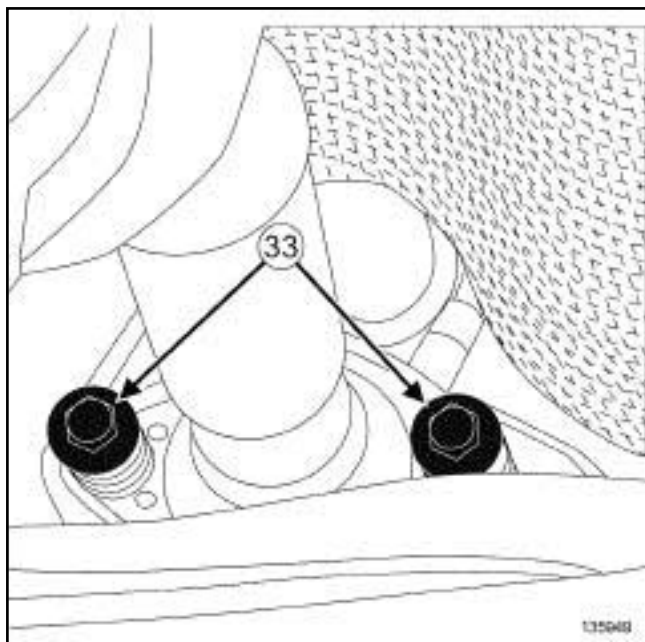


WARNING

Do not pull the clip. If it is incorrectly handled in any way, the pipe will need to be replaced.

- Disconnect the clutch control pipe on the clutch slave cylinder by pressing the clip (32) .
- Recover the brake fluid in a container.
- Fit blanking plugs on the pipe openings.
- Remove the lower engine tie-bar (see **19D, Engine mounting, Lower engine tie-bar: Removal - Refitting**, page **19D-8**) .

K4M



☐ Remove:

- the bolts (33) from the exhaust flange,
- the exhaust bracket ring.

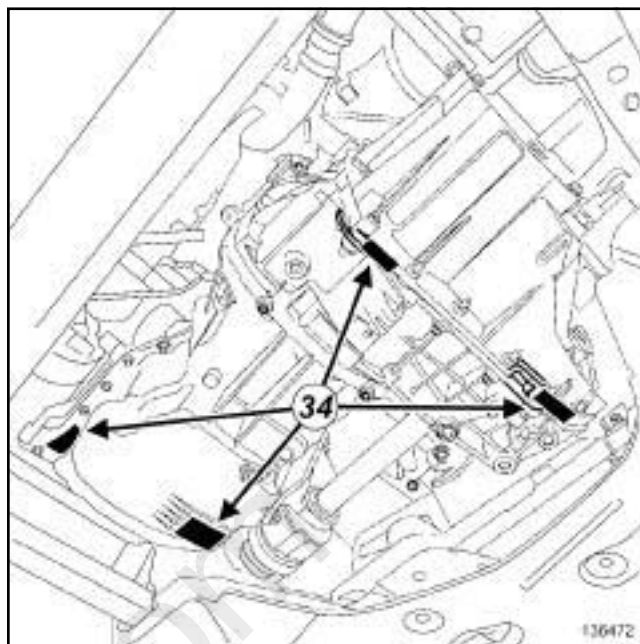
☐ Move aside the exhaust pipe.

Note:

Pull the exhaust pipe backwards.

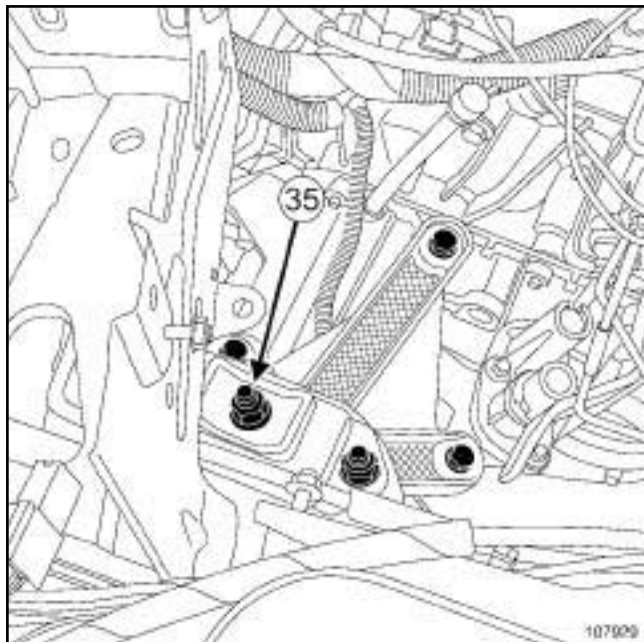
- ☐ Remove the front axle subframe (see **Front axle subframe: Removal - Refitting**) (31A, Front axle components).

II - REMOVAL OPERATION

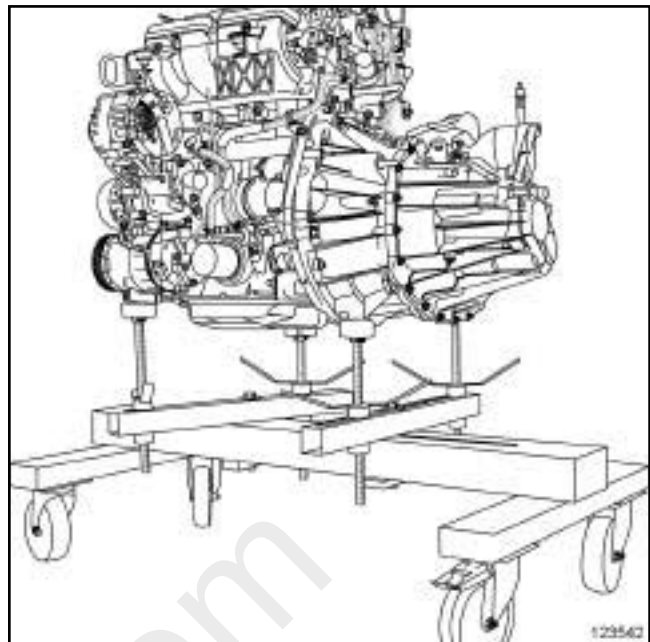


- ☐ Mark the positions of the suspended engine mountings on the body.
- ☐ Support the engine - gearbox assembly on the engine marks (34) using the (Mot. 1390).
- ☐ Remove the right-hand suspended engine mounting (see **19D, Engine mounting, Right-hand suspended engine mounting: Removal - Refitting**, page 19D-4) .

K4M



- ☐ Remove the nut (35) on the rubber pad support of the left-hand suspended engine mounting.
- ☐ Strike the gearbox stud with a copper hammer to separate the engine - gearbox assembly from the body.



- ☐ Lift the vehicle to remove the engine - gearbox assembly.

Note:

Ensure that no component obstructs the movement of the body around the engine - gearbox assembly.

- ☐ Remove the engine - gearbox assembly.

REFITTING

I - REFITTING PREPARATION OPERATION

- ☐ For standard engine replacements (see **Engine: Standard replacement**) (Technical Note 6006A, 10A, Engine and peripherals).
- ☐ **parts always to be replaced: ring between exhaust manifold and catalytic converter**

II - REFITTING OPERATION

- ☐ Fit the engine - gearbox assembly.
- ☐ Refit the nut on the rubber pad support of the left-hand suspended engine mounting.
- ☐ Torque tighten the **nut on the rubber pad support of the left-hand suspended engine mounting (62 N.m)**.
- ☐ Refit the right-hand suspended engine mounting (see **19D, Engine mounting, Right-hand suspended engine mounting: Removal - Refitting**, page **19D-4**).

K4M

- ☐ Remove the **(Mot. 1390)** from the engine - gearbox assembly.

III - FINAL OPERATION

- ☐ Proceed in the reverse order to removal.
- ☐ Torque tighten:
 - the **exhaust flange bolts (21 N.m)**,
 - the **front axle subframe tie-rod upper bolts (21 N.m)**,
 - the **anti-roll bar tie rod upper bolts (37 N.m)**,
 - the **earth strap bolt on the gearbox (21 N.m)**,
 - the **power-assisted steering low pressure pipe bolt on the front axle subframe (21 N.m)**,
 - the **power-assisted steering pipe bolts on the gearbox support (21 N.m)**,
 - the **power-assisted steering pipe bolts on the gearbox (21 N.m)**,
 - the **power-assisted steering pipe bolt on the cylinder block (21 N.m)**.
- ☐ Perform the following operations:
 - top up the engine oil (see **10A, Engine and cylinder block assembly, Engine oil: Draining - Refilling**, page **10A-32**),
 - fill up the gearbox oil (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox),
 - fill and bleed the cooling circuit (see **19A, Cooling, Cooling system: Draining - Refilling**, page **19A-6**),
 - bleed the clutch circuit (see **Clutch circuit: Bleed**) (37A, Mechanical component controls).

AIR CONDITIONING

- ☐ Fill the refrigerant circuit using the tool **refrigerant charging station** (see **Refrigerant circuit: Draining - Filling**) (62A, Air conditioning).
-
- ☐ Fill up the power-assisted steering circuit.
 - ☐ First, bleed the power-assisted steering circuit by turning the steering wheel fully from left to right with the engine off.
 - ☐ Bleed the power-assisted steering circuit by turning the steering wheel fully from lock to lock with the engine running.
 - ☐ Top up the oil in the power-assisted steering oil reservoir.

- ☐ Check that there are no leaks.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine - gearbox assembly: Removal - Refitting

10A

K9K, and 796

Special tooling required

Mot. 1448	Remote operation pliers for hose clips.
Mot. 1390	Support for removal - refitting of engine - gearbox assembly

Equipment required

refrigerant charging station

Tightening torques

nut on the rubber pad support of the left-hand suspended engine mounting	62 N.m
exhaust flange bolts	21 N.m
front axle subframe tie-rod upper bolts	21 N.m
anti-roll bar tie rod upper bolts	37 N.m
earth strap bolt on the gearbox	21 N.m
power-assisted steering low pressure pipe bolt on the front axle sub-frame	21 N.m
power-assisted steering pipe bolts on the gearbox support	21 N.m
power-assisted steering pipe bolts on the gearbox	21 N.m
power-assisted steering pipe bolt on the cylinder block	21 N.m

IMPORTANT

Wear cut-resistant gloves during the operation.

REMOVAL

I - REMOVAL PREPARATION OPERATION



IMPORTANT

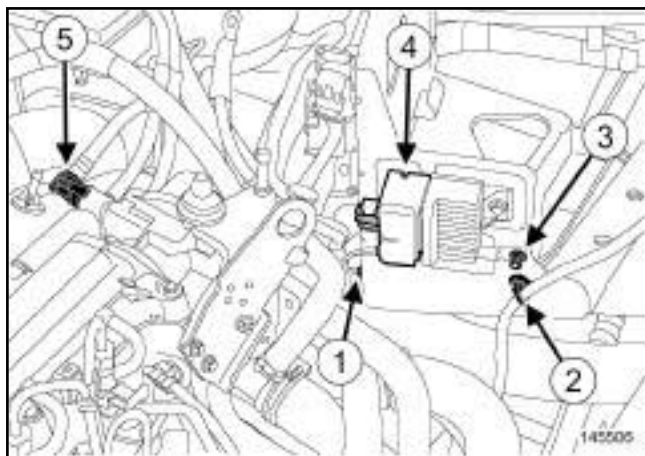
To prevent the vehicle from falling, lash it to the vehicle lift using a strap.

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

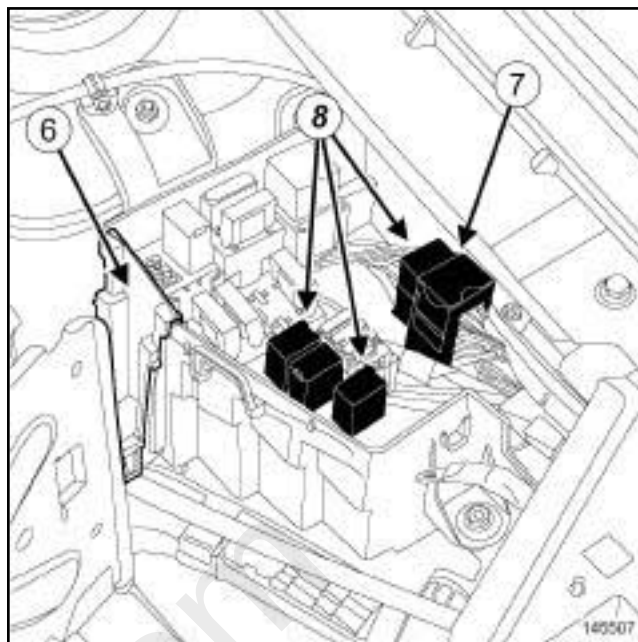
AIR CONDITIONING

- ☐ Drain the refrigerant circuit using the tool **refrigerant charging station** (see **Refrigerant circuit: Draining - Filling**) (62A, Air conditioning).
- ☐ Remove:
 - the engine cover,
 - the air inlet sleeve,
 - the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-6) ,
 - the battery (see **Battery: Removal - Refitting**) (80A, Battery),
 - the battery tray,
 - the injection computer (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page 17B-7) .

K9K, and 796



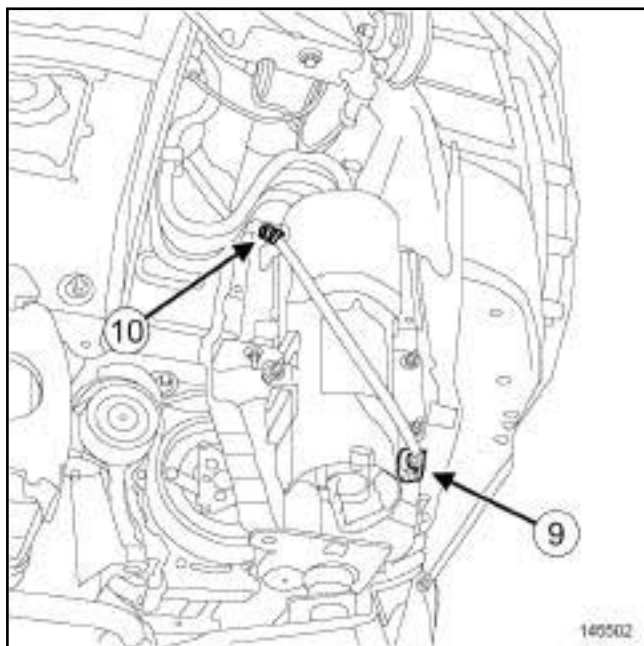
- ☐ Remove the engine wiring bolt (1) on the battery mounting.
- ☐ Unclip the battery wiring at (2) .
- ☐ Remove the earth strap bolt (3) on the battery mounting.
- ☐ Disconnect the connector (4) from the pre-postheating unit.
- ☐ Disconnect the non-return valve (5) at the vacuum pump.



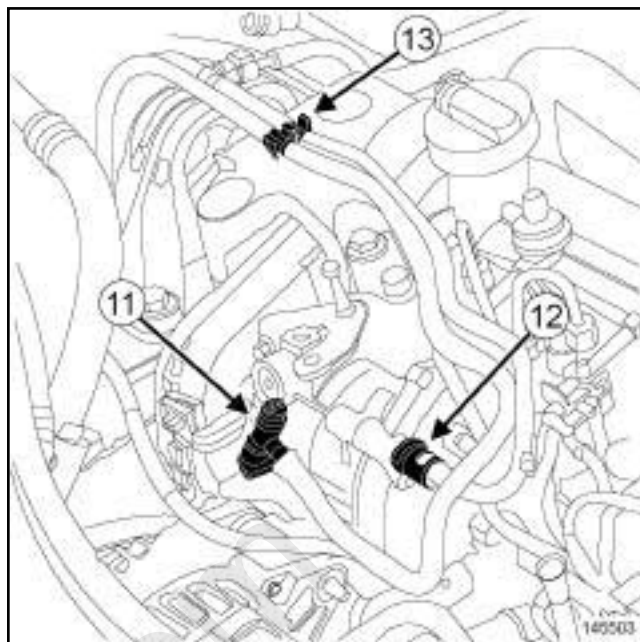
- ☐ Remove the fuse and relay box cover.
- ☐ Remove the side protector (6) of the fuse and relay box.
- ☐ Disconnect the engine harness - front wiring connector (7) .
- ☐ Unclip the engine harness fuse holders and relays (8) from their mountings on the fuse and relay box in the engine compartment.
- ☐ Position the engine harness, fuses and relays on the engine.
- ☐ Remove:
 - the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
 - the engine undertray bolts,
 - the engine undertray,
 - the front bumper (see **Front bumper assembly: Exploded view**) and (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection),
 - the front wheel arch liners (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection).
- ☐ Drain:
 - the engine oil if necessary (see **10A, Engine and cylinder block assembly, Engine oil: Draining - Refilling**, page 10A-32) ,
 - the gearbox oil (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox),

K9K, and 796

- the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page **19A-6**) .



- ☐ Disconnect the connector (9) from the water detection sensor on the diesel filter.
- ☐ Unclip the water detection connector on the diesel filter mounting at (10) .



- ☐ Disconnect:
 - the fuel supply pipe (11) ,
 - the fuel return pipe (12) .

WARNING

To avoid any corrosion or damage, protect the areas on which fuel is likely to run.

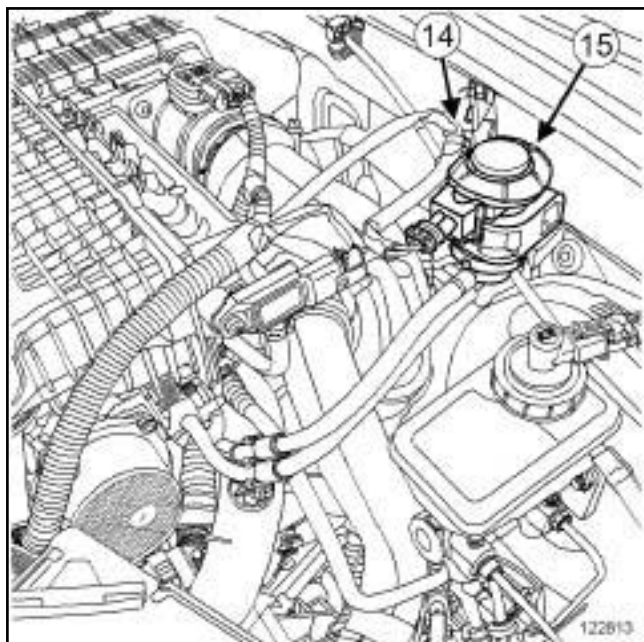
- ☐ Fit blanking plugs on the fuel supply pipe.
- ☐ Unclip the pipes at (13) .
- ☐ Disconnect the intercooler ducts (see **12B, Turbo-charging, Intercooler: Removal - Refitting**, page **12B-8**) .

ENGINE AND CYLINDER BLOCK ASSEMBLY

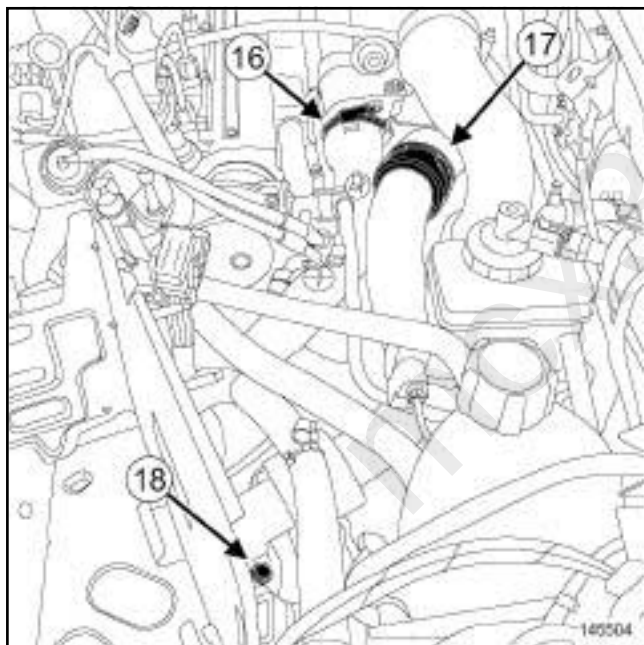
Engine - gearbox assembly: Removal - Refitting

10A

K9K, and 796



122813



145504

□ Unclip:

- the turbocharger control solenoid valve wiring at (14) ,
- the turbocharger control solenoid valve (15) from its support.

□ Disconnect:

- the air duct (16) on the EGR assembly,
- the air duct between the turbocharger and the inter-cooler at (17) .

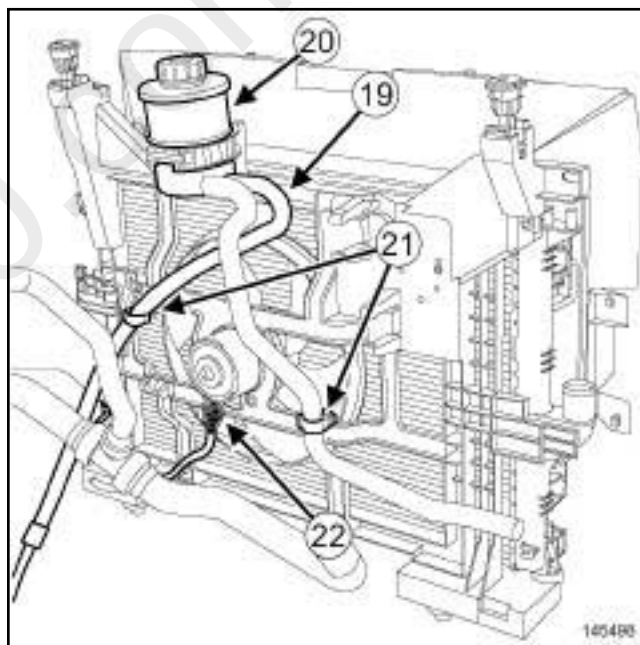
□ Remove:

- the air duct nut (18) on the gearbox,
- the intercooler air ducts.

□ Disconnect (see **Power-assisted steering pump: Removal - Refitting**) (36B, Power-assisted steering):

- the power-assisted steering low pressure hose on the power-assisted steering pump using the (Mot. 1448) and drain the circuit,
- the power-assisted steering high pressure pipe on the power-assisted steering pump,
- the connector from the power-assisted steering pressure switch.

STANDARD HEATING RECIRCULATION



145498

□ Remove:

- the power-assisted steering low pressure pipe (19) on the oil reservoir using the (Mot. 1448),
- the power assisted steering oil reservoir (20) ,
- the bolt of the power-assisted steering high pressure pipe on the cylinder block.

□ Unclip the power-assisted steering pipes on the fan assembly mounting at (21) .

□ Disconnect the fan assembly connector (22) .

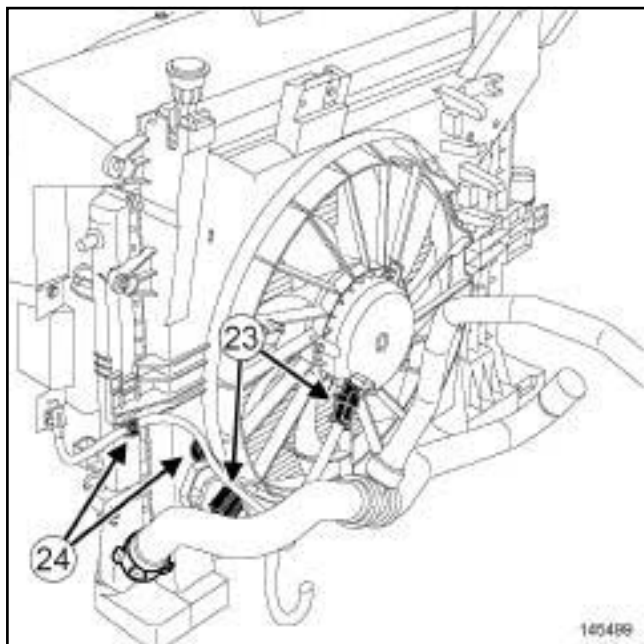
ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine - gearbox assembly: Removal - Refitting

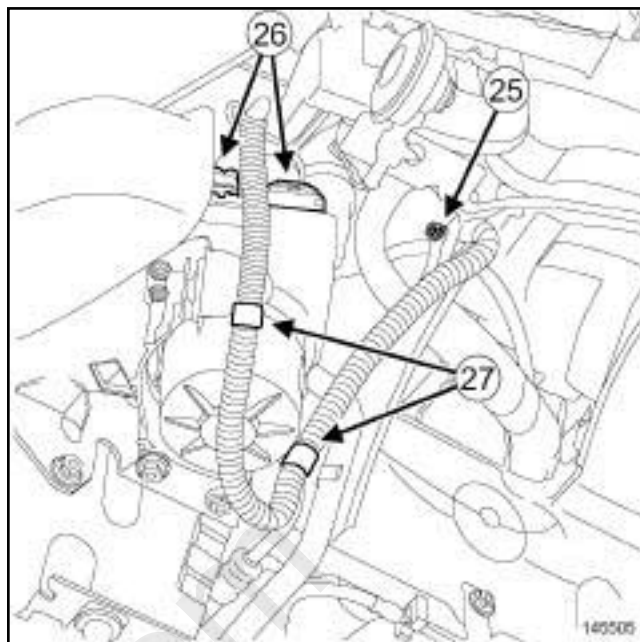
10A

K9K, and 796

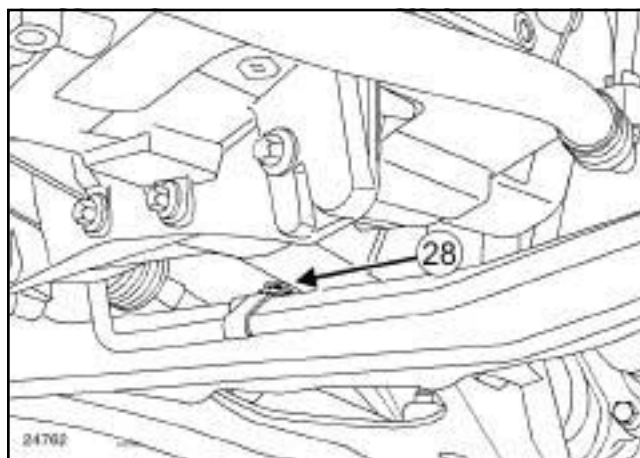
AIR CONDITIONING



- ☐ Remove the power-assisted steering high pressure pipe bolt on the cylinder block.
- ☐ Disconnect the connectors (23) from the fan assembly.
- ☐ Unclip the fan assembly wiring at (24) .



- ☐ Remove the earth strap bolt (25) on the body.
- ☐ Disconnect the pump assembly connectors (26) .
- ☐ Unclip the pump assembly wiring at (27) .



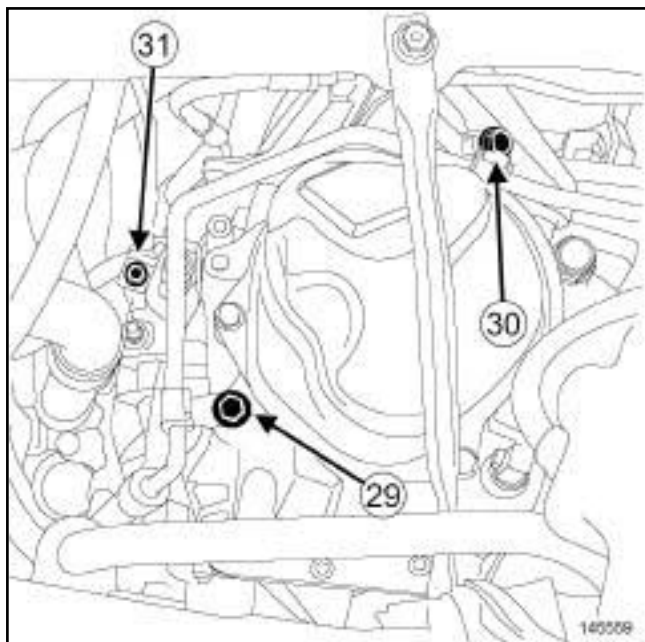
- ☐ Remove the power-assisted steering low pressure pipe bolt (28) on the front axle subframe.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine - gearbox assembly: Removal - Refitting

10A

K9K, and 796



145559

Remove:

- the power-assisted steering high pressure pipe bolt (29) on the gearbox,
- the power-assisted steering high pressure pipe bolt (30) on the gearbox support,
- the earth strap bolt (31) on the gearbox.

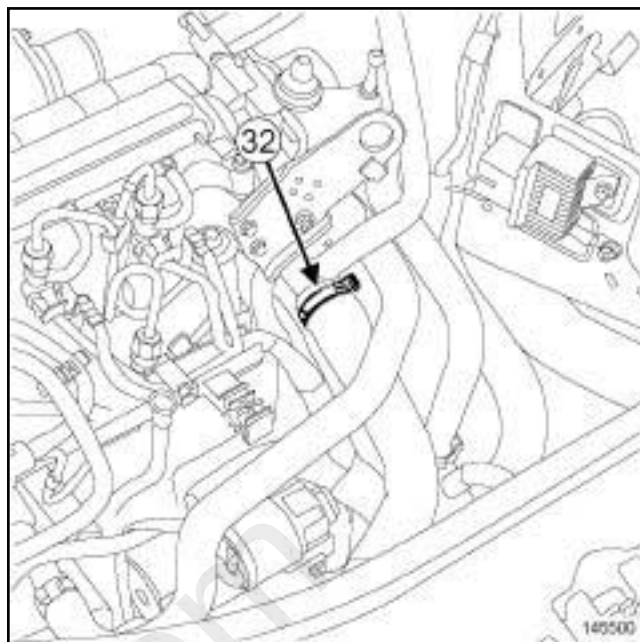
AIR CONDITIONING

- Remove the bolts from the pipe unions on the compressor.
- Disconnect the compressor pipes.

Note:

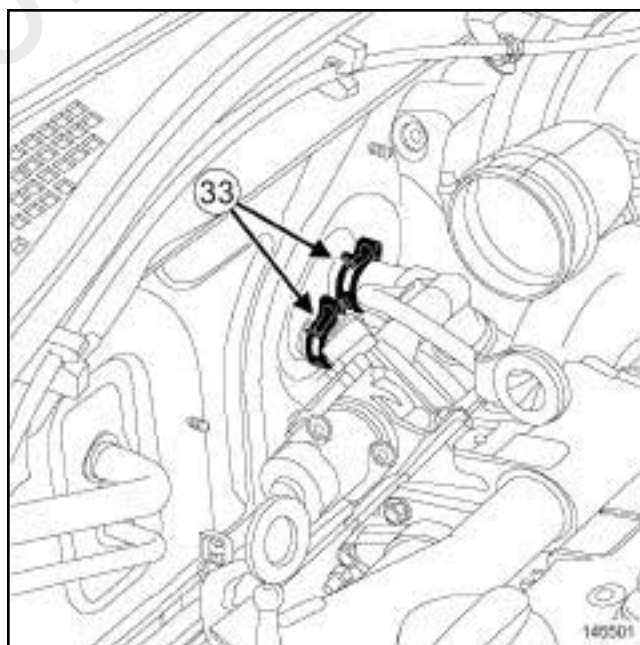
Plugs must be fitted on the hoses to prevent moisture from entering the system.

- Fit blanking plugs in the pipe openings.
- Disconnect the air conditioning pressostat connector.
- Remove the expansion bottle nuts.
- Move aside the expansion bottle.



145500

- Move aside the cooling hose clip (32) on the water chamber using the (Mot. 1448).
- Disconnect the cooling hose on the water chamber.



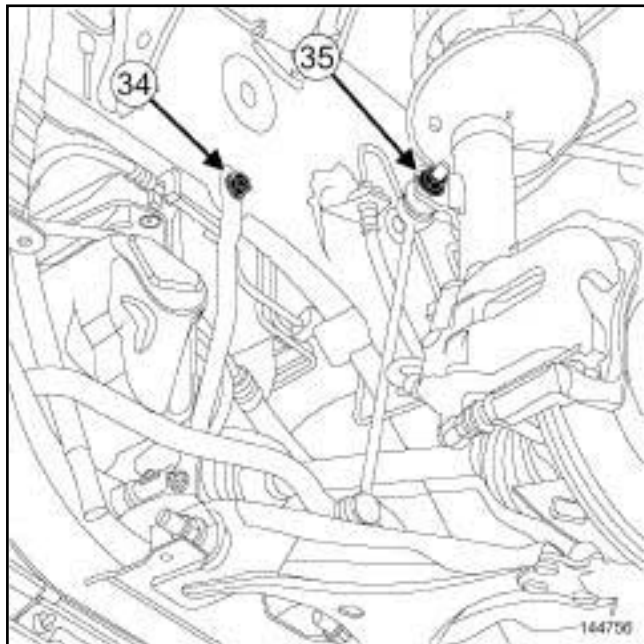
145501

- Move aside the cooling hose clips (33) on the heating radiator using the (Mot. 1448).
- Disconnect the cooling hoses on the heating radiator.
- Remove the cooling hoses from their mountings.
- Remove (see) (36A, Steering assembly):
 - the steering box heat shield bolts,

K9K, and 796

- the steering box heat shield,
- the steering box bolts on the front axle subframe.

□ Attach the steering rack to the body.



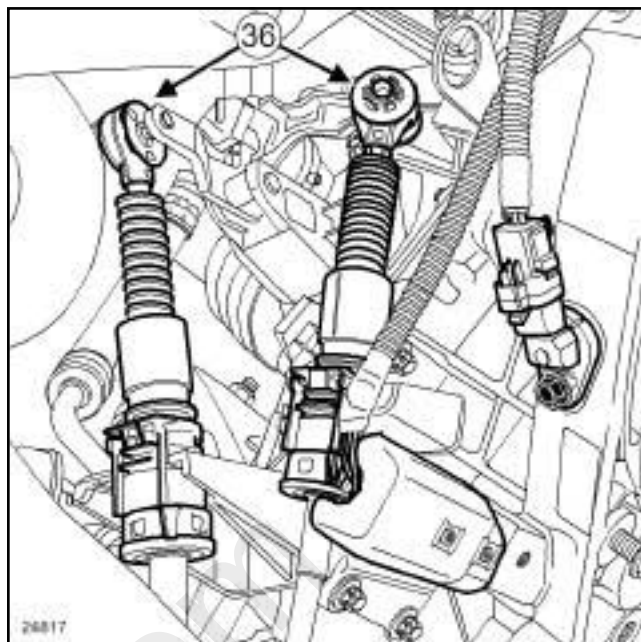
□ Remove:

- the front axle subframe tie-rod upper bolts (34) ,
- the anti-roll bar tie rod upper bolts (35) .

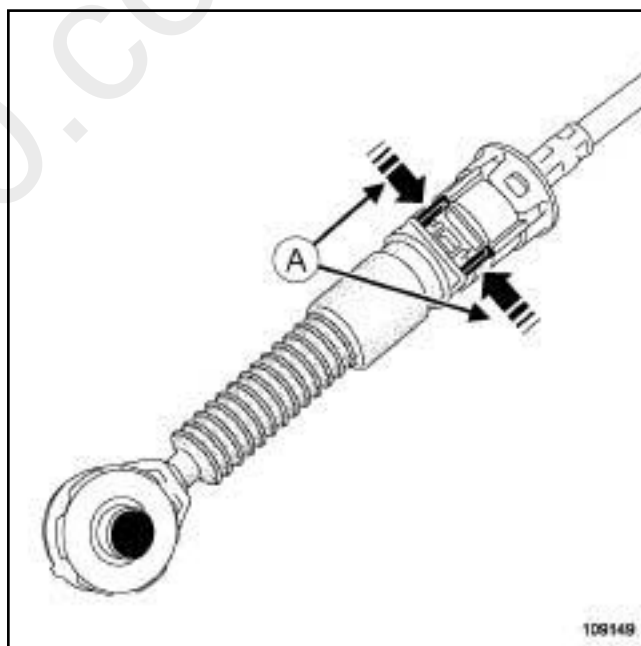
□ Remove:

- the front right-hand wheel driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) (29A, Driveshaft),
- the front left-hand wheel driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) (29A, Transmission).

□ Pass the power-assisted steering low pressure pipe over the gearbox cover.



24817



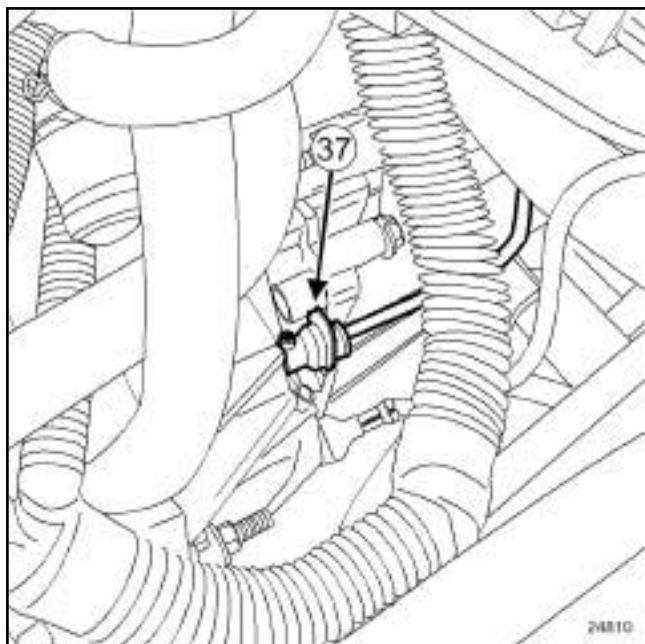
109149

□ Unclip:

- the gear control cables on the gearbox at (36) using a screwdriver,
- the gear control cables from the sleeve stops by pressing at (A) .

□ Move the gear control cables away from the gearbox.

K9K, and 796



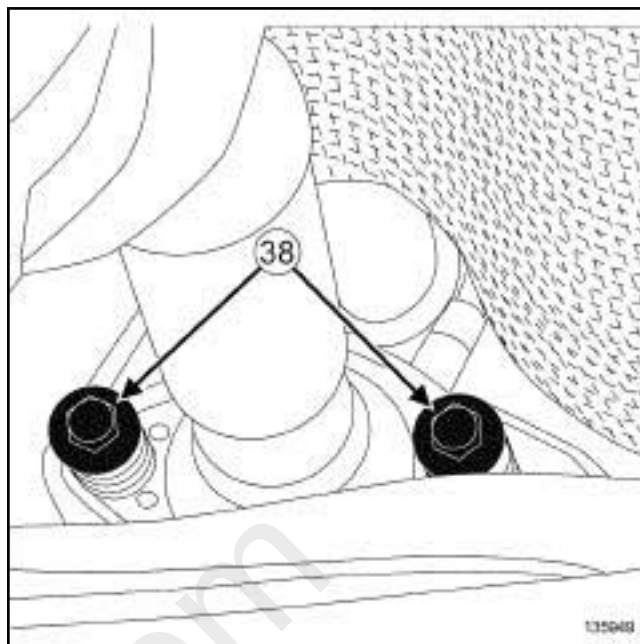
24810



WARNING

Do not pull the clip. If it is incorrectly handled in any way, the pipe will need to be replaced.

- ☐ Disconnect the clutch control pipe on the clutch slave cylinder by pressing the clip (37) .
- ☐ Recover the brake fluid in a container.
- ☐ Fit blanking plugs in the pipe openings.
- ☐ Remove the lower engine tie-bar (see **19D, Engine mounting, Lower engine tie-bar: Removal - Refitting**, page 19D-8) .



135949

Remove:

- the bolts (38) from the exhaust flange,
- the exhaust bracket ring.

- ☐ Move aside the exhaust pipe.

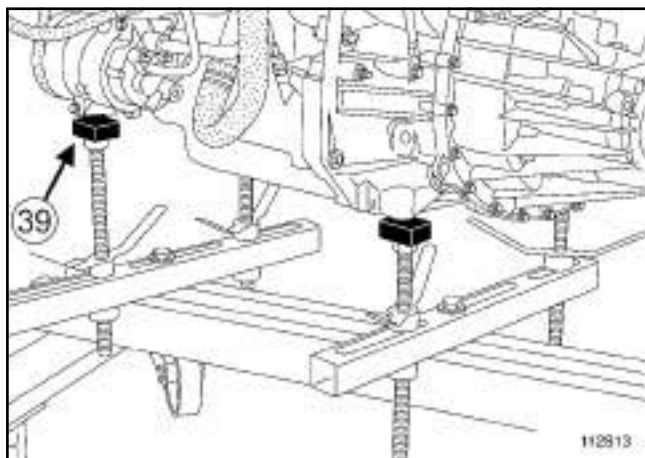
Note:

Pull the exhaust pipe backwards.

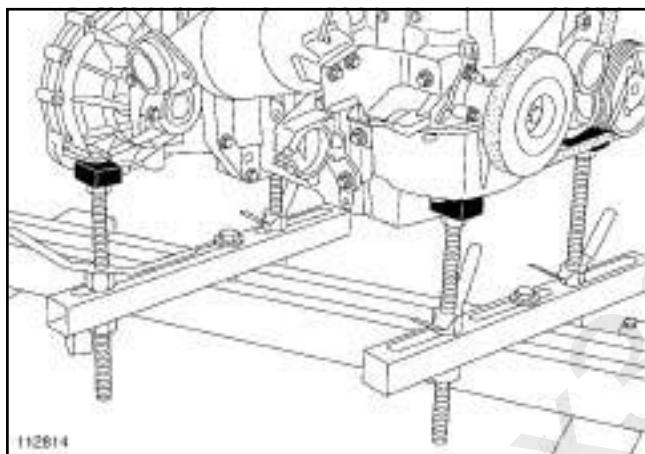
- ☐ Remove the front axle subframe (see **Front axle subframe: Removal - Refitting**) (31A, Front axle components).

K9K, and 796

II - REMOVAL OPERATION



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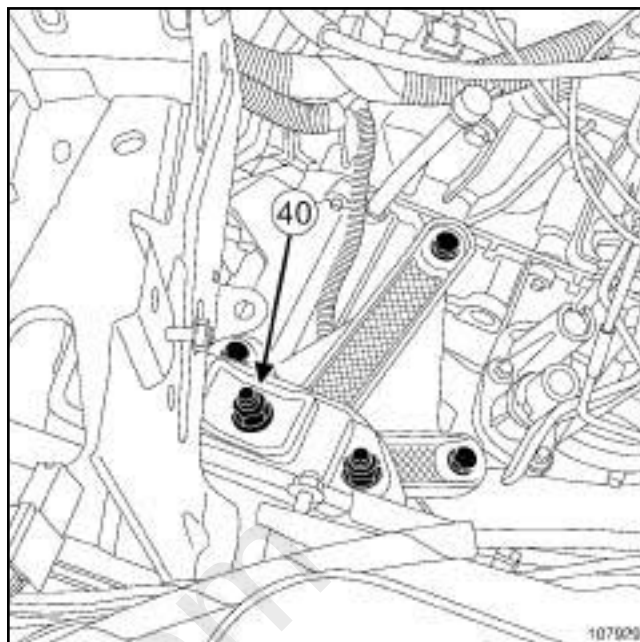
112814



Note:

Ensure that the **(Mot. 1390)** is correctly positioned on the multifunction support at **(39)**.

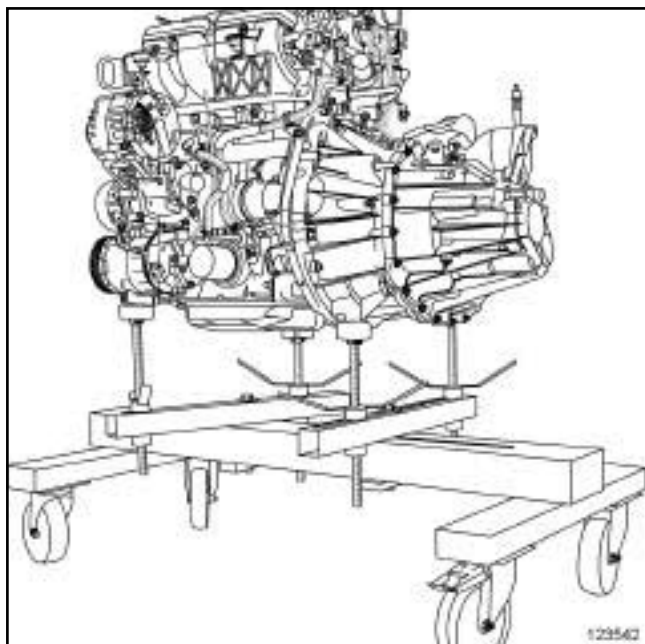
- ☐ Position the **(Mot. 1390)** under the engine - gearbox assembly.
- ☐ Remove the right-hand suspended engine mounting (see **19D, Engine mounting, Right-hand suspended engine mounting: Removal - Refitting, page 19D-4**).



107929

- ☐ Remove the nut **(40)** on the rubber pad support of the left-hand suspended engine mounting.
- ☐ Strike the gearbox stud with a copper hammer to separate the engine - gearbox assembly from the body.

K9K, and 796



123542

- ❑ Lift the vehicle to remove the engine - gearbox assembly.

Note:

Ensure that no component obstructs the movement of the body around the engine - gearbox assembly.

- ❑ Remove the engine - gearbox assembly.

REFITTING

I - REFITTING PREPARATION OPERATION

- ❑ For standard engine replacements (see **Engine: Standard replacement**) (Technical Note 6006A, 10A, Engine and peripherals).
- ❑ **parts always to be replaced: ring between exhaust manifold and catalytic converter**

II - REFITTING OPERATION

- ❑ Fit the engine - gearbox assembly.
- ❑ Refit the nut on the rubber pad support of the left-hand suspended engine mounting.
- ❑ Torque tighten the **nut on the rubber pad support of the left-hand suspended engine mounting (62 N.m)**.
- ❑ Refit the right-hand suspended engine mounting (see **19D, Engine mounting, Right-hand suspended engine mounting: Removal - Refitting, page 19D-4**).

- ❑ Remove the **(Mot. 1390)** from the engine - gearbox assembly.

III - FINAL OPERATION

- ❑ Proceed in the reverse order to removal.
- ❑ Torque tighten:
 - the **exhaust flange bolts (21 N.m)**,
 - the **front axle subframe tie-rod upper bolts (21 N.m)**,
 - the **anti-roll bar tie rod upper bolts (37 N.m)**,
 - the **earth strap bolt on the gearbox (21 N.m)**,
 - the **power-assisted steering low pressure pipe bolt on the front axle subframe (21 N.m)**,
 - the **power-assisted steering pipe bolts on the gearbox support (21 N.m)**,
 - the **power-assisted steering pipe bolts on the gearbox (21 N.m)**,
 - the **power-assisted steering pipe bolt on the cylinder block (21 N.m)**.
- ❑ Perform the following operations:
 - top up the engine oil (see **10A, Engine and cylinder block assembly, Engine oil: Draining - Refilling, page 10A-32**),
 - fill up the gearbox oil (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox),
 - fill and bleed the cooling circuit (see **19A, Cooling, Cooling system: Draining - Refilling, page 19A-6**),
 - bleed the clutch circuit (see **Clutch circuit: Bleed**) (37A, Mechanical component controls).

AIR CONDITIONING

- ❑ Fill the refrigerant circuit using the tool **refrigerant charging station** (see **Refrigerant circuit: Draining - Filling**) (62A, Air conditioning).

- ❑ Fill up the power-assisted steering circuit.
- ❑ First, bleed the power-assisted steering circuit by turning the steering wheel fully from left to right with the engine off.
- ❑ Bleed the power-assisted steering circuit by turning the steering wheel fully from lock to lock with the engine running.
- ❑ Top up the oil in the power-assisted steering oil reservoir.