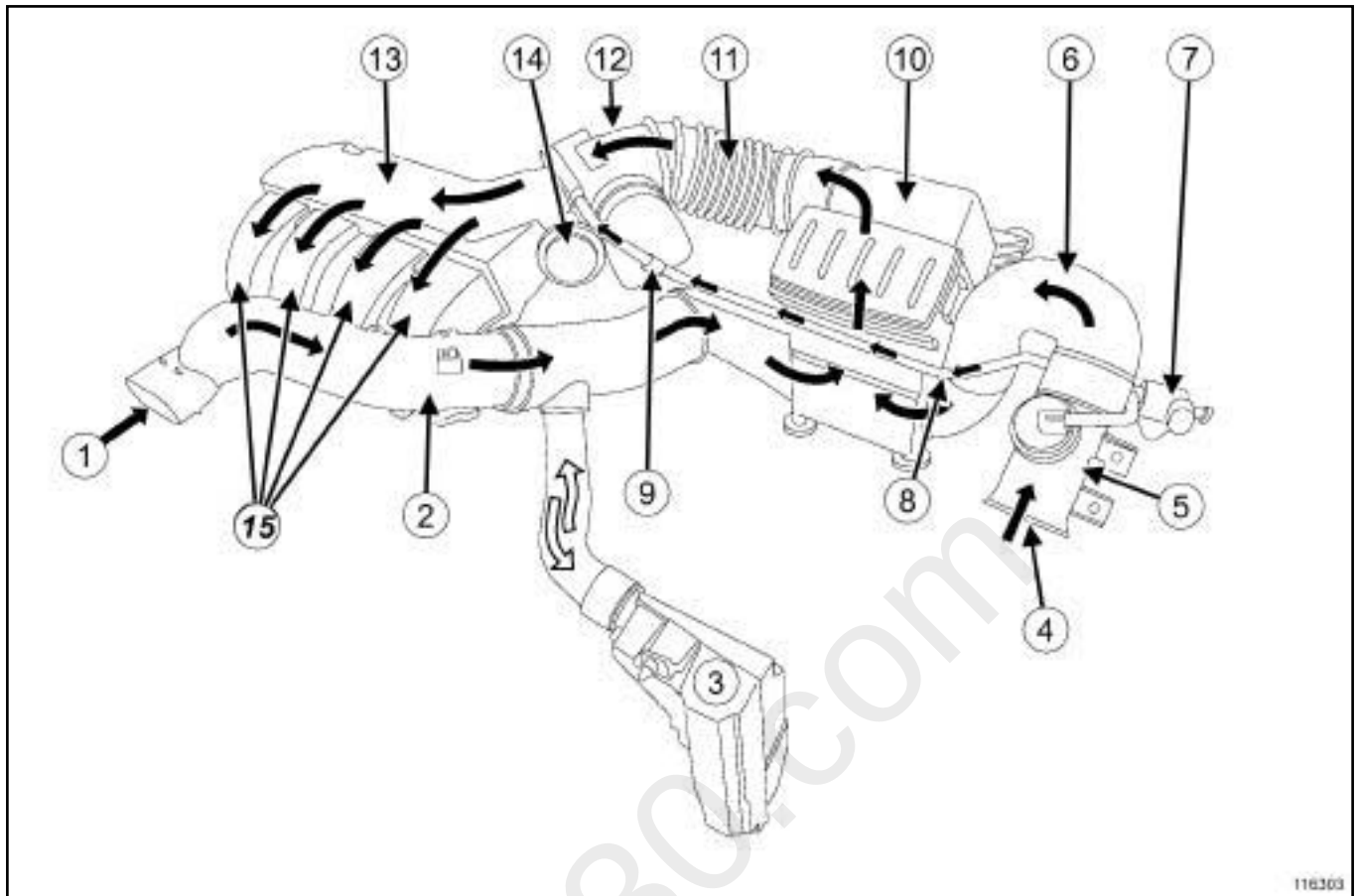


FUEL MIXTURE

Air inlet: Description

12A

F4R



116303

- (1) main air inlet
- (2) main inlet trunking
- (3) air resonator
- (4) soundproofing unit air inlet
- (5) soundproofing unit
- (6) soundproofing unit duct
- (7) soundproofing unit control solenoid valve
- (8) soundproofing unit control vacuum hose
- (9) anti-return valve
- (10) air filter box
- (11) air inlet duct
- (12) throttle valve
- (13) inlet manifold
- (14) oil vapour rebreathing unit
- (15) outlets to injector holder plate then to cylinder head

I - AT LOW SPEED

The soundproofing unit control solenoid valve **(6)** controls the soundproofing unit valve, which is in the closed position. Air enters only via the main air inlet **(1)**.

II - AT HIGH SPEED

The soundproofing unit control solenoid valve **(6)** no longer controls the soundproofing unit valve, which is in the open position. Air enters via the main air inlet **(1)** and the soundproofing unit air inlet **(4)** at a ratio of 60% for the main air inlet and 40% for the soundproofing unit air inlet.

Note:

In rest position the soundproofing unit valve is open; if the control circuit is not correctly sealed, the valve will be in the rest position.

FUEL MIXTURE

Air resonator: Removal - Refitting

12A

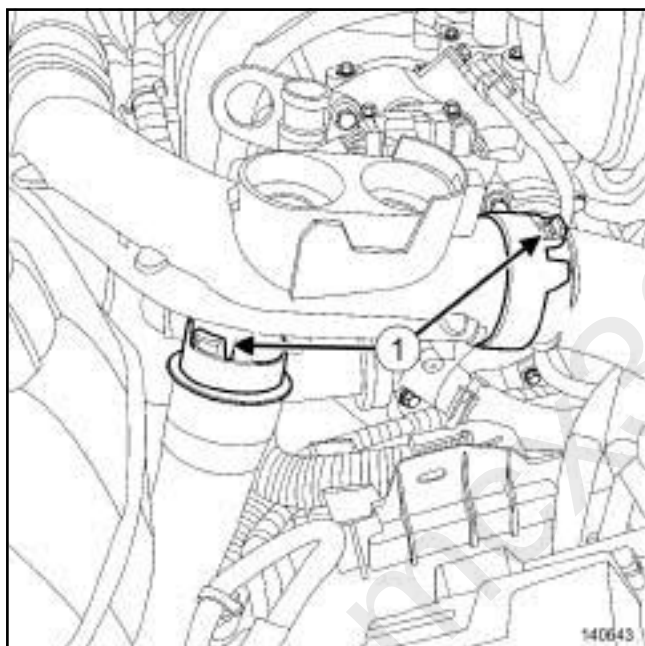
K4M – F4R

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- ☐ Remove:
 - the battery (see **Battery: Removal - Refitting**) (80A, Battery),
 - the engine cover,
 - the battery tray (see **Battery tray: Removal - Refitting**) (80A, Battery).

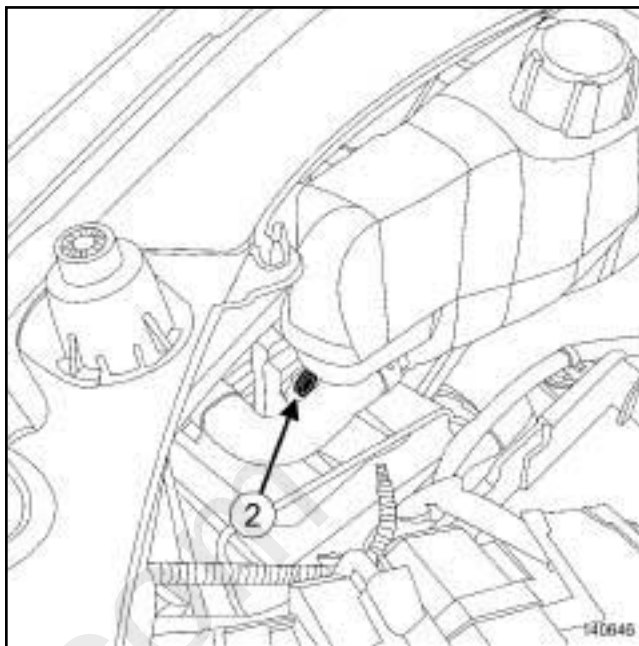
K4M, and 862



140643

- ☐ Unclip the air inlet pipe from the air filter unit (1) .
- ☐ Move aside the air filter unit air inlet pipe.

II - OPERATION FOR REMOVAL OF PART CONCERNED



140646

- ☐ Remove:
 - the air resonator upper mounting (2) ,
 - the air resonator.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the air resonator,
 - the air resonator upper mounting.

II - FINAL OPERATION

K4M, and 862

- ☐ Refit the air filter unit air inlet pipe.

- ☐ Refit:
 - the battery tray (see **Battery tray: Removal - Refitting**) (80A, Battery),
 - the air inlet duct,
 - the engine cover,
 - the battery (see **Battery: Removal - Refitting**) (80A, Battery).

FUEL MIXTURE

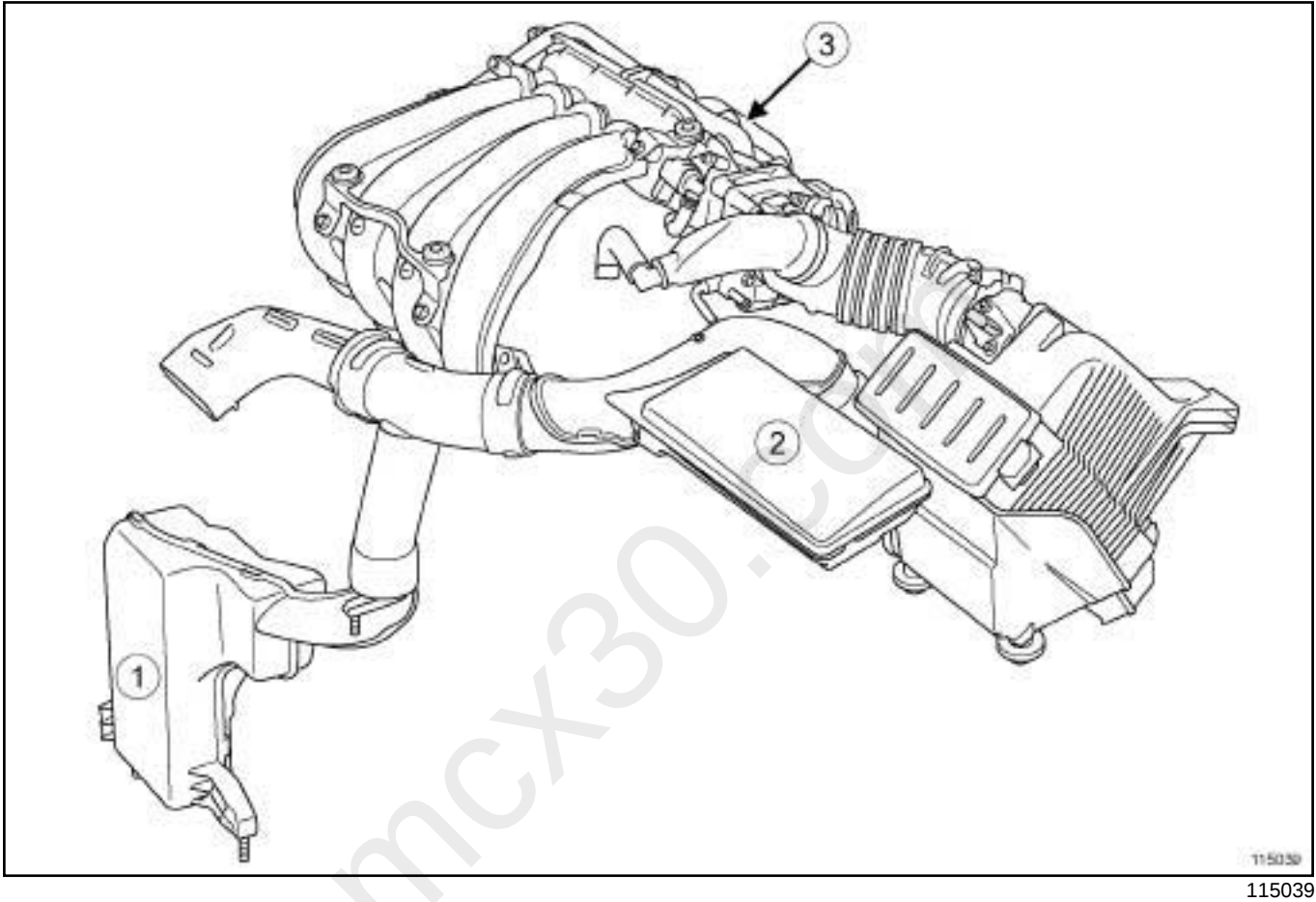
Air resonator: Removal - Refitting

12A

M4R

Tightening torques 	
air resonator mounting bolt on the intake distributor	11 Nm

Note:
The vehicle has three air resonators.



- (1)

Air resonator on front end panel
- (2)

Air resonator on battery
- (3)

Air resonator on inlet manifold

FUEL MIXTURE

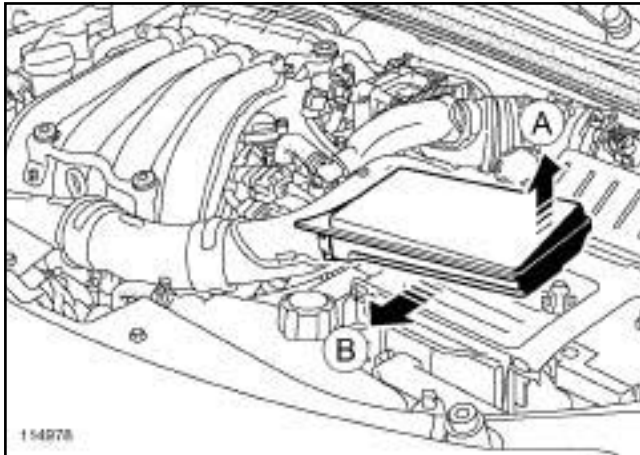
Air resonator: Removal - Refitting

12A

M4R

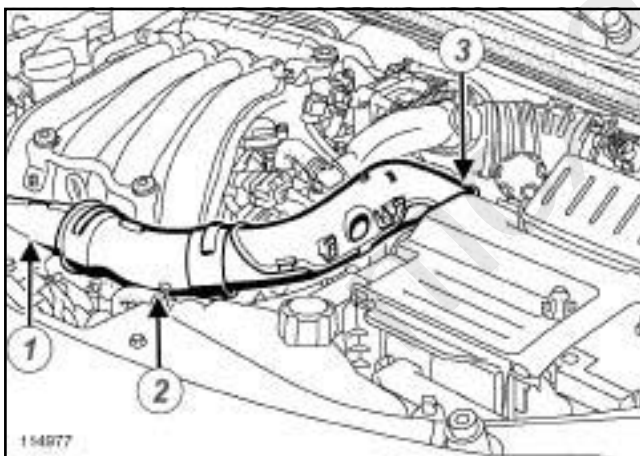
REMOVING THE AIR RESONATOR ON THE FRONT END PANEL

I - REMOVAL PREPARATION OPERATION



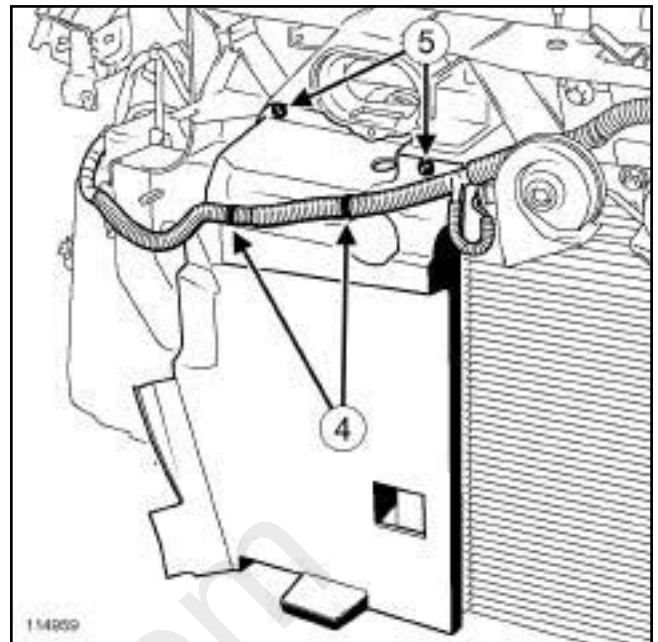
114978

- ☐ Lift the air resonator (A) to remove it from the battery cover.
- ☐ Pull the air resonator towards the front of the vehicle (B) to remove it.



114977

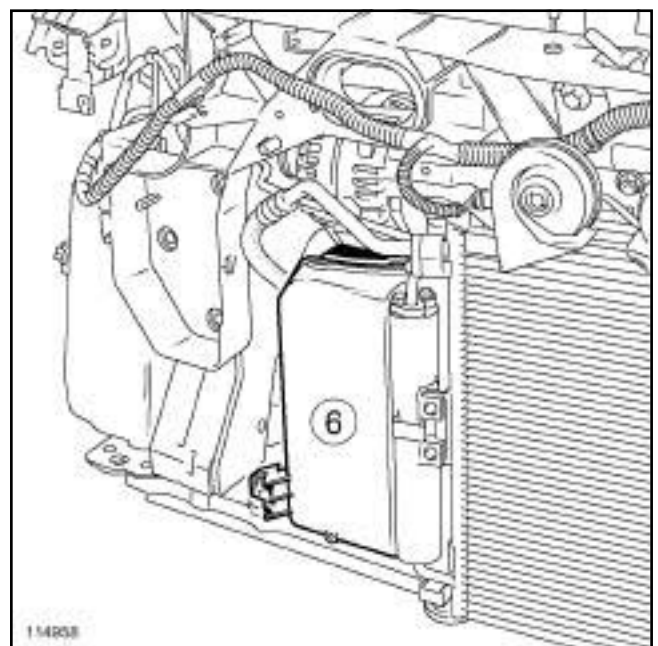
- ☐ Detach the air intake sleeve:
 - from the front end panel at (1) ,
 - from the air resonator on the front end panel at (2) ,
 - from the air filter unit at (3) .
- ☐ Remove the air intake sleeve.
- ☐ Remove the front bumper (see **Action / Front side roof rail lining**) (MR 393, 55A, Exterior protection).
- ☐ Remove the frontal impact cross member (see **Front end lower cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure).



114959

- ☐ Unclip the wiring harness at (4) .
- ☐ Remove:
 - plastic rivets (5) ,
 - the air deflector.

II - REMOVAL OF PART CONCERNED



114958

- ☐ Lift the air resonator on the front end panel (6) to remove it from the mountings.
- ☐ Remove the air resonator on the front end panel.

M4R

REFITTING THE AIR RESONATOR ON THE FRONT END PANEL**I - REFITTING PREPARATIONS OPERATION**

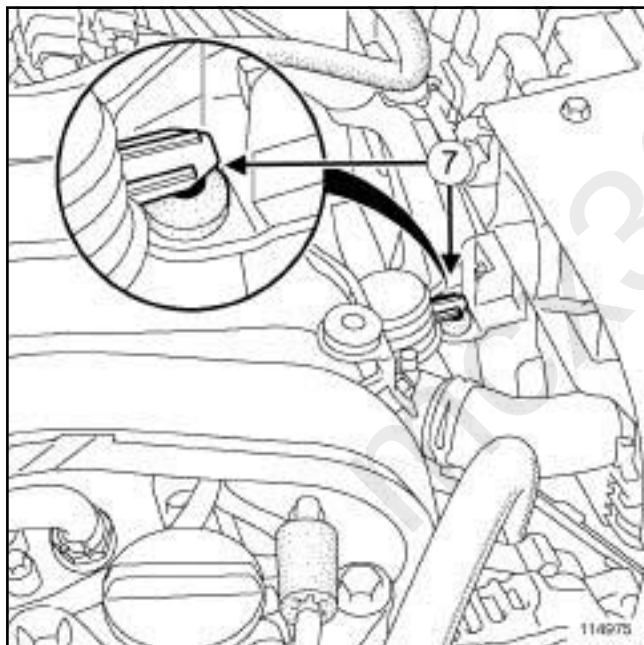
- ☐ Check that there are three air resonator mountings on the front end panel.

II - REFITTING PART CONCERNED

- ☐ Refit the air resonator on the front end panel.

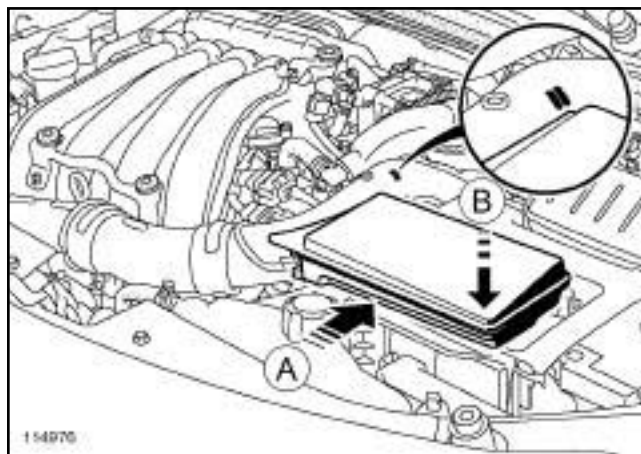
III - FINAL OPERATION.

- ☐ Refit the air deflector.
- ☐ Refit the frontal impact cross member (see **Front end lower cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure).
- ☐ Refit the front bumper (see **Action / Front side roof rail lining**) (MR 393, 55A, Exterior protection).



114975

- ☐ Before refitting the air intake sleeve, check that the air resonator's upper mounting in the front end panel is correctly clipped at (7) .
- ☐ Refit the air intake sleeve.



114976

- ☐ Push the air resonator towards the rear of the vehicle (A) until the air resonator's rear face is located between the two marks on the air intake sleeve.
- ☐ Push the air resonator (B) to fit it onto the battery cover.

REMOVING THE AIR RESONATOR ON THE INLET MANIFOLD**I - REMOVAL PREPARATION OPERATION**

- ☐ Remove the inlet manifold (see **12A, Fuel mixture, Inlet distributor: Removal - Refitting**, page 12A-46) .