

Exhaust gas recirculation solenoid valve: Removal - Refitting

K9K, and 750 or 752

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the EGR solenoid valve studs, if necessary.
- ☐ Torque tighten the **EGR solenoid valve studs (4 N.m)**, if necessary.
- ☐ Refit:
 - the seal between the EGR solenoid valve and the EGR solenoid valve mounting,
 - the EGR solenoid valve,
 - the EGR solenoid valve heat shield,
 - the bolt from the EGR solenoid valve heat shield,
 - the strut on the EGR solenoid valve,
 - the nuts from the strut on the EGR solenoid valve,
- ☐ Torque tighten:
 - the **EGR solenoid valve heat shield bolt (12 N.m)**,
 - the **nuts for the strut on the EGR solenoid valve (12 N.m)**.
- ☐ Connect the EGR solenoid valve connector.

III - FINAL OPERATION

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

Note:

If replacing the exhaust gas recirculation solenoid valve, perform the necessary programming (see **MR394, Section 13B, Fault finding - Replacement of components**).

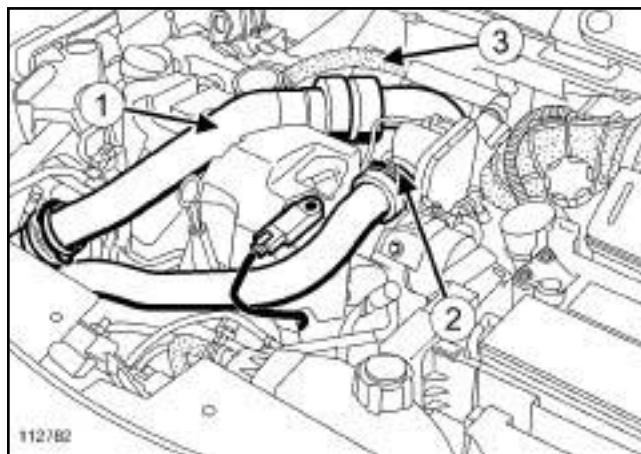
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Special tooling required**Ms. 583** Pipe clamps.**Equipment required**

Diagnostic tool

Tightening torques bolts mounting the exhaust gas cooler on the timing end support **12 N.m**bolts mounting the exhaust gas cooler on the flywheel end support **12 N.m**mounting bolts of the exhaust gas cooler on the support at the flywheel end **12 N.m**coolant circulation cover mounting bolts **10 N.m**mounting bolts of the lifting bracket at the timing end **10 N.m**mounting nut of the pipe at the intercooler inlet on the alternator **8 N.m****REMOVAL****I - REMOVAL PREPARATION OPERATION**

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) .

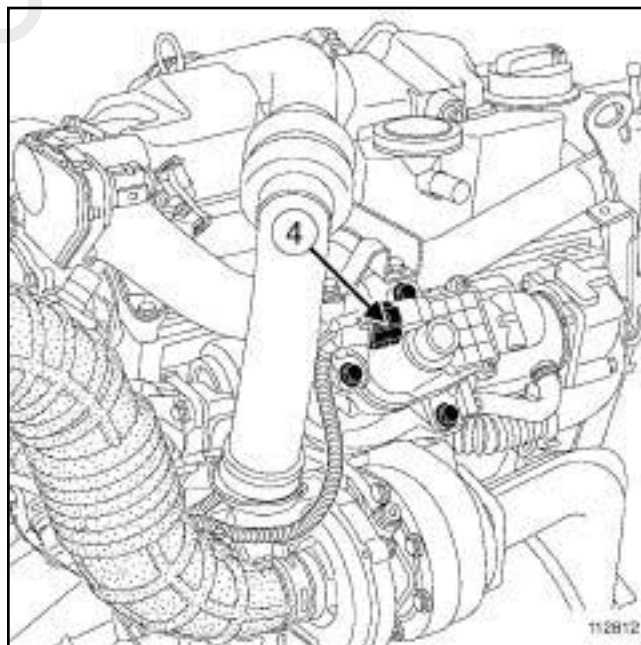


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- ☐ Remove the inlet duct (1) between the turbocharger and the intercooler.
- ☐ Disconnect the inlet duct (2) .

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- ☐ Remove the oil vapour re-breathing pipe (3) .

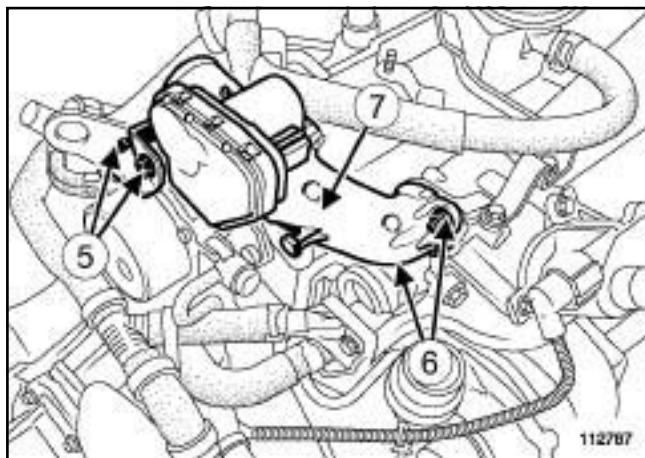


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- ☐ Disconnect the connector (4) from the exhaust gas recirculation solenoid valve.
- ☐ Disconnect the vacuum pump pipe.

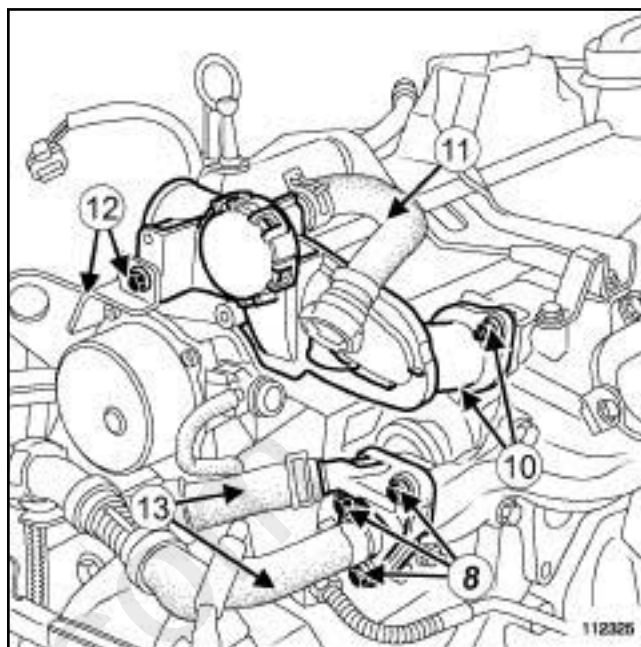
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- ☐ Disconnect the connector from the cut-off valve (if equipped).
- ☐ Remove:
 - the bolts (5) mounting the damper valve retaining bracket,
 - the damper valve mounting bolts (6) ,
 - the damper valve (7) (if equipped).

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- ☐ Disconnect the oil vapour recirculation pipe (11) .
- ☐ Remove:
 - the oil vapour recirculation valve bolts (10) ,
 - the oil vapour recirculation valve,
 - the mounting bolts (12) of the oil vapour recirculation valve retaining bracket.
- ☐ Position the tools (**Ms. 583**) or the hose clamps on the coolant inlet and outlet hoses (13) of the exhaust gas cooler.
- ☐ Remove the mounting bolts (8) of the coolant circulation cover.
- ☐ Detach the coolant circulation cover.

Note:

Be prepared for the escape of coolant.

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- ☐ Remove the catalytic converter (see **19B, Exhaust, Catalytic converter: Removal - Refitting**, page 19B-27) .

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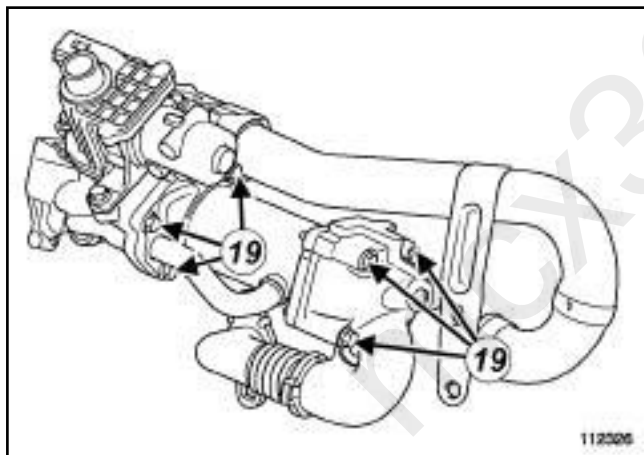
- ❑ Remove the catalytic pre-converter (see **19B, Exhaust, Catalytic pre-converter: Removal - Refitting**, page **19B-21**) .

❑ Remove:

- the exhaust gas recirculation rigid pipe (see **14A, Antipollution, Exhaust gas recirculation rigid pipe: Removal - Refitting**, page **14A-20**) ,
- the exhaust gas recirculation assembly (see **Exhaust gas recirculation assembly: Removal - Refitting**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

1 - First fitting of the exhaust gas cooler recirculation assembly

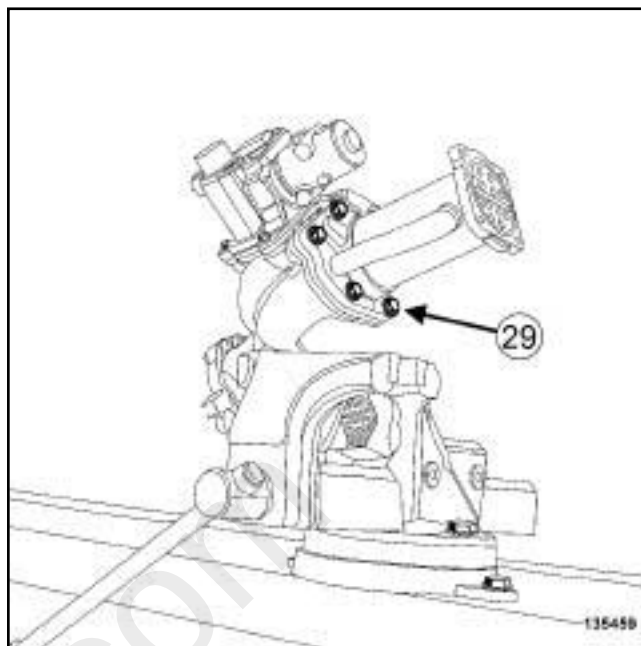


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❑ Using the workbench, remove:

- the bolts (**19**) mounting the exhaust gas cooler on its two supports,
- the exhaust gas cooler.

2 - Second fitting of the exhaust gas cooler recirculation assembly



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❑ Remove:

- the bolts (**29**) of the cooler on the support,
- the seal of the cooler on the support,
- the cooler.

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REFITTING

I - REFITTING PREPARATION OPERATION

- ☐ All the supporting surfaces on each removed part must be carefully cleaned.

WARNING

Take care not to damage the bearing faces to prevent any risk of coolant leaks.

WARNING

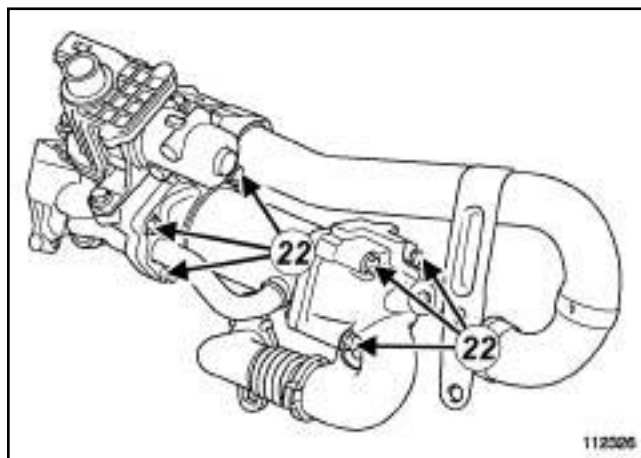
Always replace:

- the air inlet metal tube and its O-rings,
- the exhaust gas inlet pipe, its mounting bolts, its seal and its snap-on clip,
- the cooler seals on its mountings,
- the coolant circulation cover seals within the exhaust gas cooler,
- the seal between the cut-off valve downstream duct and the exhaust gas cooler mounting,
- the seal between the catalytic converter and the turbocharger.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the exhaust gas cooler on its two mountings with new seals.

1 - First fitting of the exhaust gas cooler recirculation assembly



- ☐ Position the cooler mounting bolts (22) , avoiding contact so that the cooler can move.
- ☐ Refit the exhaust gas recirculation unit assembly on the cylinder head with its cooler.
- ☐ Tighten the two mounting bolts on the exhaust gas cooler mountings until contact is made.
- ☐ Adjust the exhaust gas cooler in relation to its two mountings.
- ☐ Tighten the exhaust gas cooler mounting bolts on to its two mountings until contact is made and so that it is locked into place.
- ☐ Remove the exhaust gas recirculation unit and its cooler.
- ☐ On the workbench, torque tighten:
 - the **bolts mounting the exhaust gas cooler on the timing end support (12 N.m)**,
 - the **bolts mounting the exhaust gas cooler on the flywheel end support (12 N.m)**.

WARNING

Ensure that the seals between the cooler and its two supports are correctly positioned to avoid any coolant leaks.