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TECHNICAL REPORT

Ajusa New Product
EGR valve pipe



REASON

Inform the customer about our new product, **EGR (exhaust gas recirculation) valve pipe** and its recommendations.

<p>PGR0001 OEM: 028131521AD</p> 	<p>PGR0002 OEM: 038131521BD</p> 	<p>PGR0003 OEM: 038131521BE</p> 	<p>PGR0004 OEM: 038131521AP OEM: 038131521CC OEM: 038131521BQ</p> 
<p>PGR0005 OEM: 504155826 OEM: 5802740771</p> 	<p>PGR0006 OEM: 5801385944 OEM: 5801365304 OEM: 5801856913 ...</p> 	<p>PGR0007 OEM: 076131525C</p> 	<p>PGR0008 OEM: 6011420964 OEM: A601140005 OEM: 6011400057 ...</p> 
<p>PGR0009 OEM: FM5Q9D477AB OEM: FM5Q9D477A</p> 	<p>PGR0010 OEM: A6421400908 OEM: A6421400600</p> 	<p>PGR0011 OEM: 04L131521BF OEM: 04L131521AK</p> 	<p>PGR0012 OEM: 04L131521BG</p> 

Good maintenance of the exhaust gas recirculation system in the engine will prevent future breakdowns and an increase in emissions of polluting gases, such as CO₂ and NO_x.

DESCRIPTION

High-temperature exhaust gases circulate through the EGR pipe, which can reach 900°C. **Possible faults** are shown below:

- **Carbon buildup:** Over time, the EGR pipe can become clogged with carbon deposits and other combustion debris. This can restrict the flow of exhaust gases, affecting engine performance and increasing emissions. A loss of power, increased fuel consumption, an unstable idle and possible error codes in the vehicle's diagnostic system would be the possible symptoms.



In this image you can see the **carbon obstruction of the EGR valve tube**. Its replacement is necessary to avoid future breakdowns and an increase in polluting gas emissions.

- **Cracks:** The EGR valve pipe can develop leaks due to wear (mechanical and thermal), corrosion or physical damage. Leaks can cause an incorrect air/fuel mixture, affecting engine efficiency and increasing emissions. The most typical symptoms are exhaust odors, even inside the vehicle's cabin, unusual noises, loss of power and increased fuel consumption.



En esta imagen se puede observar una **fisura en el tubo EGT**. La rotura de estos tubos puede producirse por desgaste, corrosión o daños físicos.

It is important to check the correct operation of the EGR valve and its sensor, to ensure that recirculation occurs at the right time and avoid future breakdowns. It is advisable to replace the pipe when these defects occur, as well as when the EGR valve is replaced due to obstruction.

Cleaning the pipe would not be enough, as there could be cracks that are not normally observed.

REPLACING THE EGR VALVE PIPE

- 1. Remove components:** Remove components that may hinder access to the EGR pipe, such as the engine cover or the intake manifold.
- 2. Disassemble the EGR pipe:** Loosen and remove the screws or clamps that hold the EGR pipe, being careful not to damage other parts of the system.
- 3. Cleaning:** Clean any carbon residue on the connection areas using a suitable cleaner.
- 4. Install the New Tube:** Install the new EGR pipe and make sure it is tight. It is recommended to replace the connection gaskets.



- 5. Reassemble the components** that were removed.

VERIFICATION

Once the EGR pipe has been replaced, we can carry out a check by starting the engine and checking that there are no leaks. We can also perform a diagnostic scan for error codes.



ADDITIONAL RECOMMENDATIONS

- **Regular Maintenance:** Perform periodic maintenance on the EGR system to avoid carbon buildup and other problems.
- **Quality Fuel:** Use good quality fuel to reduce the formation of residues in the exhaust system.



Reparación válvula EGR.
Paso a paso

<https://www.youtube.com/watch?v=WtLH-IrYpDo>