

# BORGWARNER

## General BMW EGR 710327D Exchange!

Before EGR replacement, Borg Warner recommends to check:

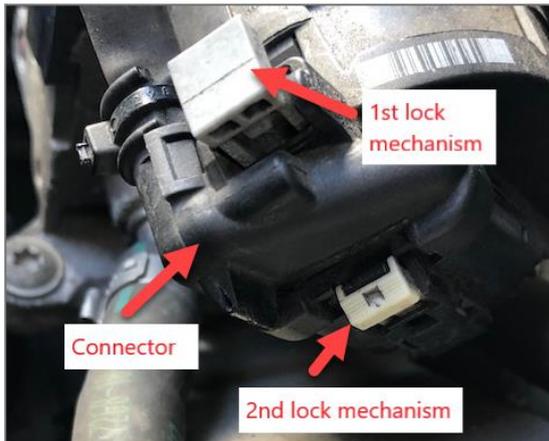
1. EGR cooler – possible coolant liquid leakage, excessive carbon deposit, dry or wet soot.
2. Intake manifold - variable intake manifold geometry functionality, excessive carbon deposit, dry or wet soot.
3. Bypass valve pneumatic actuator and vacuum line - possible leakage, actuator sticking.
4. Three-way valve – functionality, sticking, possible short circuit.
5. Electric circuit - potential isolation defect, wire break, short circuit.
6. Common failures codes and possible solutions:

Problem	Possible Cause	Remedy
P0400	EGR flow malfunction	Check the EGR valve, hose or/and electrical connections.
P0401	EGR insufficient flow detected	Check the EGR valve and possibly clogged EGR ports or passages.
P0402	EGR excessive flow detected	Check for a stuck-open EGR valve, an electrical short in a related component or even a misrouted hose in the system.
P0403	EGR circuit malfunction	Check for a failed EGR is to disconnect the vacuum hose to the EGR valve while the engine is running cold. There should not be a change in the engine operation. If there is, it indicates a problem with the electric parts of EGR.
P1403	EGR solenoid low	Clean the passageways and valve. From there, you may find a wire or connector that needs to be repaired.
P1404	EGR system – closed valve pintle error	Check the carbon deposit issues on EGR.
P1406	EGR system pintle position error	Check DPF sensor according to manual

When all above points are checked, replacement of EGR can be started.

## Installation:

1. Always use new gaskets and all available sealings.
2. If it is possible, please always use new bolts and nuts for new EGR assembly.
3. Tight all bolts using correct torque, defined in OEM service work instruction.
4. Be sure that you have checked and solved all possible issue described at the beginning of this document.
5. Please be sure that all connectors (electrical and pneumatic) are connected in correct way.



6. After assembly of new EGR please perform adaptation/ learning process if is needed and perform components diagnostic/test.

## Remember!

Failure code related to EGR (mentioned in "Common failures codes and possible solutions:"), are not always an indicator of EGR problem. Real cause can be related to components from EGR system (coolers, sensors hoses wires etc.)

