





TURBOCHARGER FAILURE EGR SYSTEM

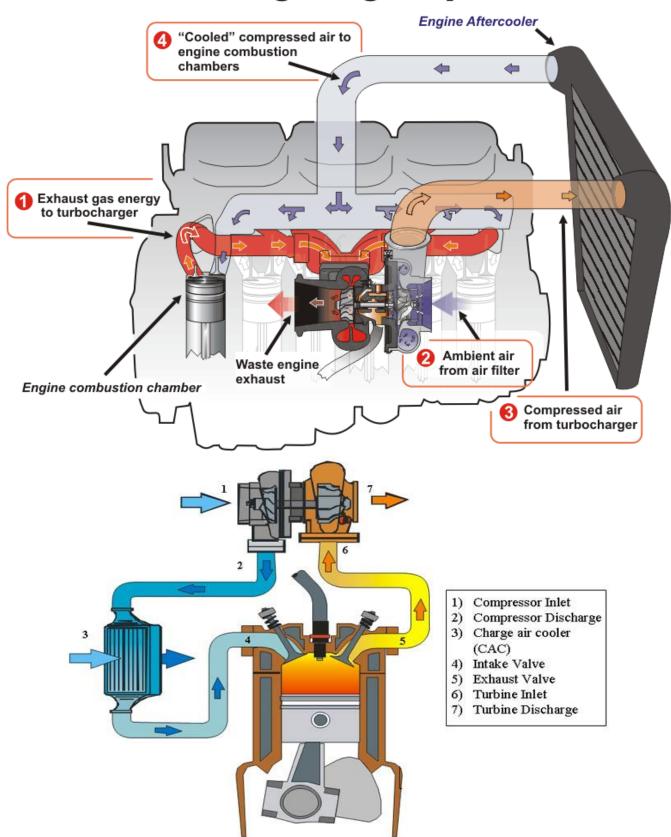


Typical Commercial Diesel Turbocharged Engine System

Daramount

autozo

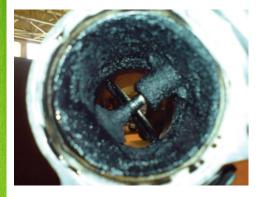
ISO 9001:2008 Certified Company







FAILURES IN TURBOCHARGER DUE TO EGR SYSTEM



Exhaust Gas Recirculation (EGR) Valve:

The EGR (Exhaust Gas Recirculation) valve recirculates a small amount of the exhaust gases back into the air intake system and lowering the maximum temperature of the burning fuel. The EGR valve ensures that the EGR system is disabled at idle speeds and at peak power.

The EGR valve can become stuck or chocked with coke on some applications.

Non-functional EGR valve can create excessive carbon/soot at the turbine end of the turbocharger which can cause the Variable Turbine Geometry mechanism to get stuck / dysfunctional.

Problems when EGR Valve remains closed:

- Erratic engine idling / unable to idle
- Engine operation poor when cold
- Fuel consumption is higher
- Poor performance / Power

Engine warning fault light and/or fault code is activated

Possible reasons for EGR Valve not Opening :

- EGR valve is stuck / glued up
- Air leaks on the vacuum side

Vacuum connections are leaking, disconnected or incorrect

➢ Faulty electric switch pressure converter valve / Blow off valve not opening (in turbocharger).

Possible reasons for EGR Valve not Closing :

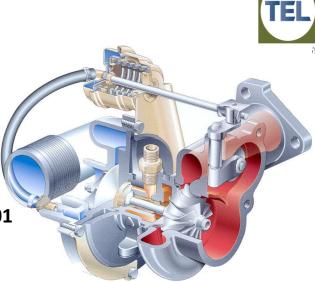
Heavy carbon / sludge deposits on tappet or valve

- EGR valve damaged through overheating, due to:
 - EGR Control Faulty
 - Exhaust back pressure high
 - Blow-off valve not opening (in turbocharger)
- Faulty sensor signal or Air flow meter
- > Deposits inside the Intake pipe of the EGR system constricting it partly
- Oil leak from the turbocharger.



Service Centers:

Palakkad 17/550(9),KTV Tower, West Fort Road, Palakkad – 678 001 Phone : 0491 – 3260808, 3208000



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Collection Centers:

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