

## EXHAUST GAS RECIRCULATION (EGR) VALVE

303-08 Engine Emission Control - 2.3L EcoBoost

2020 Ranger

(201kW/273PS)

Removal and Installation

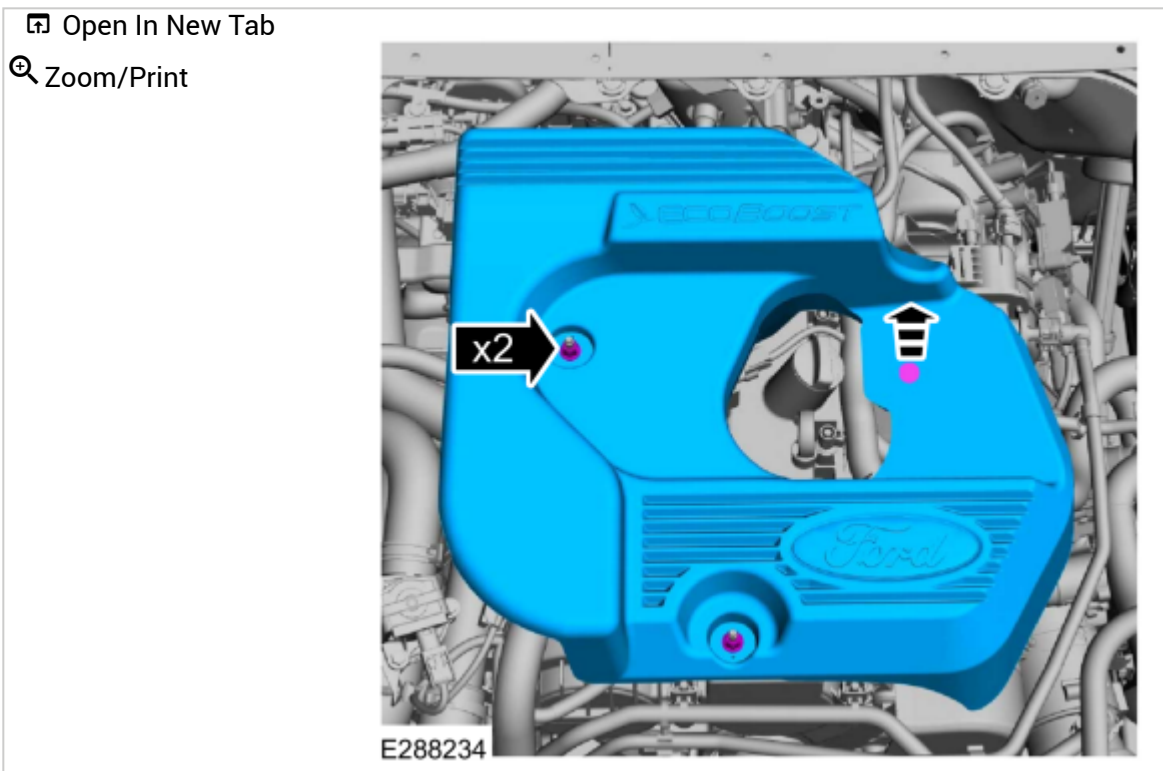
# Exhaust Gas Recirculation (EGR) Valve

## Removal

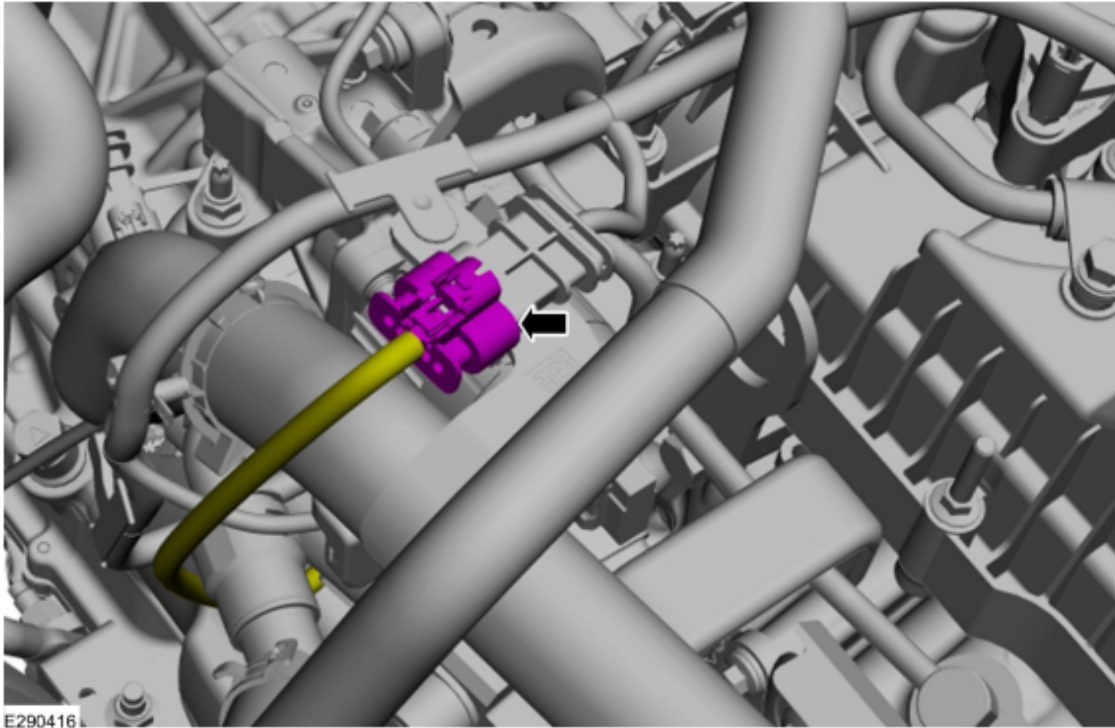
**NOTE:** Removal steps in this procedure may contain installation details.

1. **NOTICE:** Do not pull the engine appearance cover forward or sideways to remove. Failure to press straight upward on the underside of the cover at the attachment points may result in damage to the cover or engine components.

- Remove the engine appearance cover nuts.
- Place your hand under the engine appearance cover at each grommet location and push straight up to release each grommet from the studs.
- After all of the grommets have been released from the studs, remove the appearance cover from the engine.



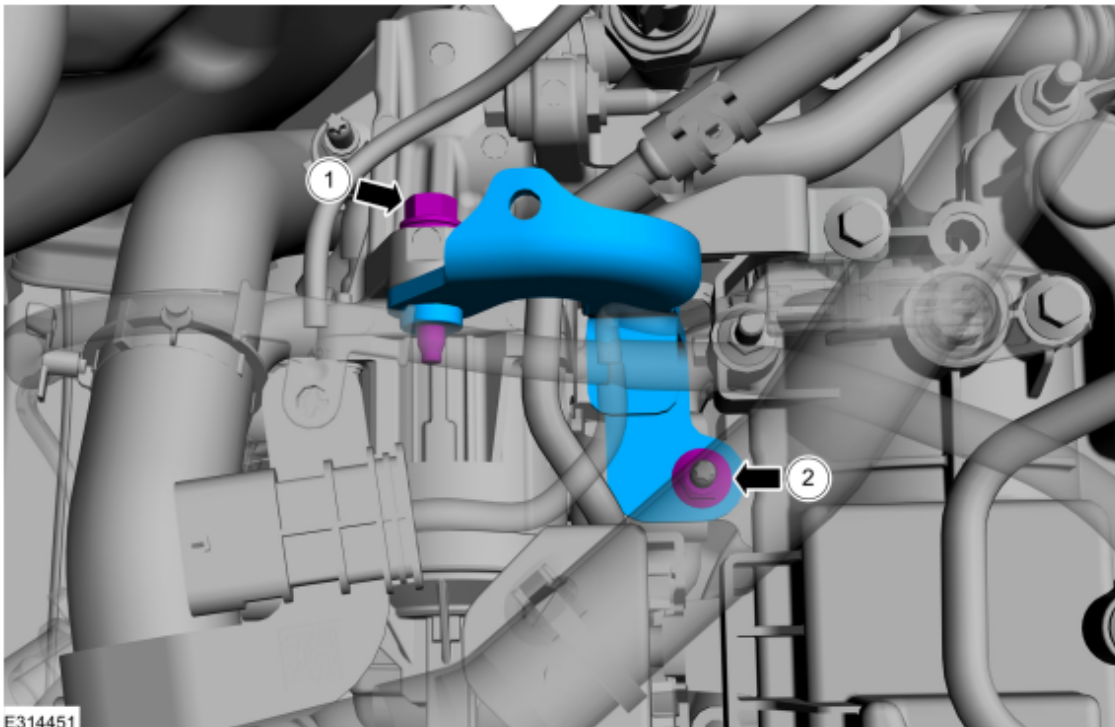
2. Disconnect the HO2S electrical connector.



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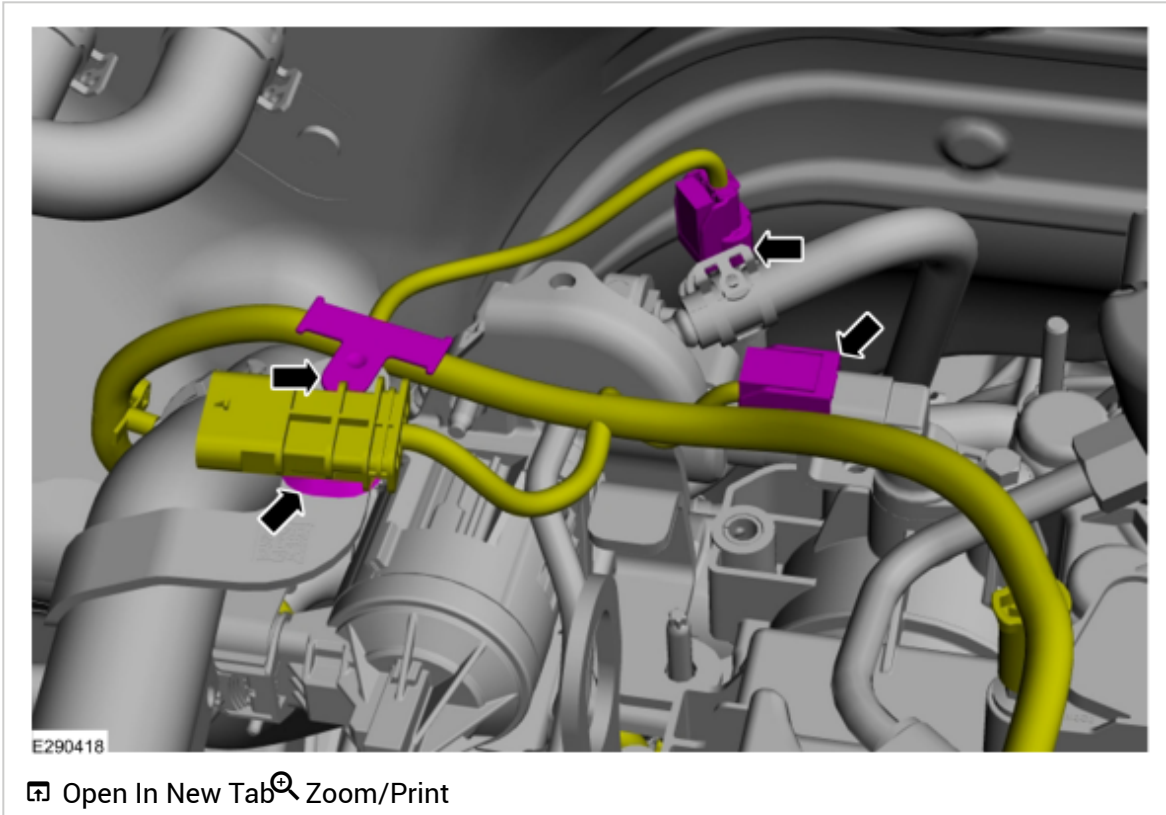
3.
  1. Remove the fastener.  
*Torque : 97 lb.in (11 Nm)*
  2. Remove the fastener and bracket.  
*Torque : 97 lb.in (11 Nm)*



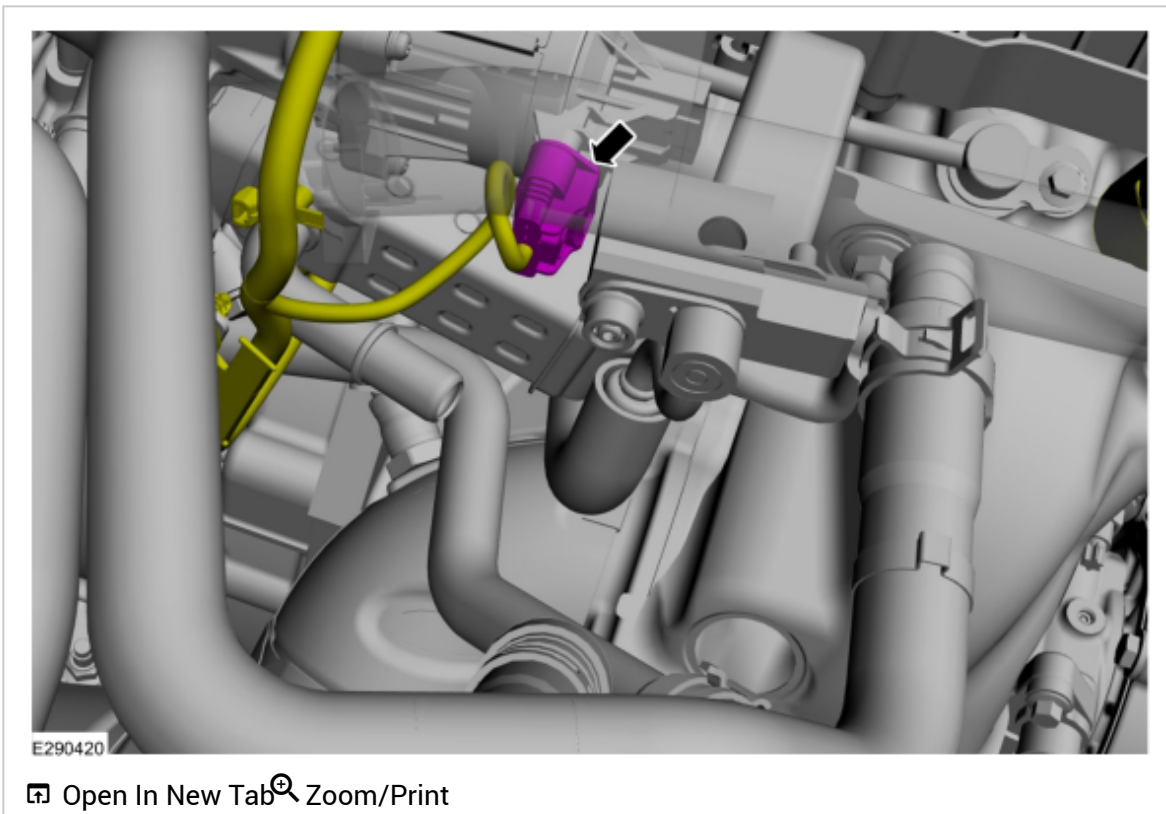
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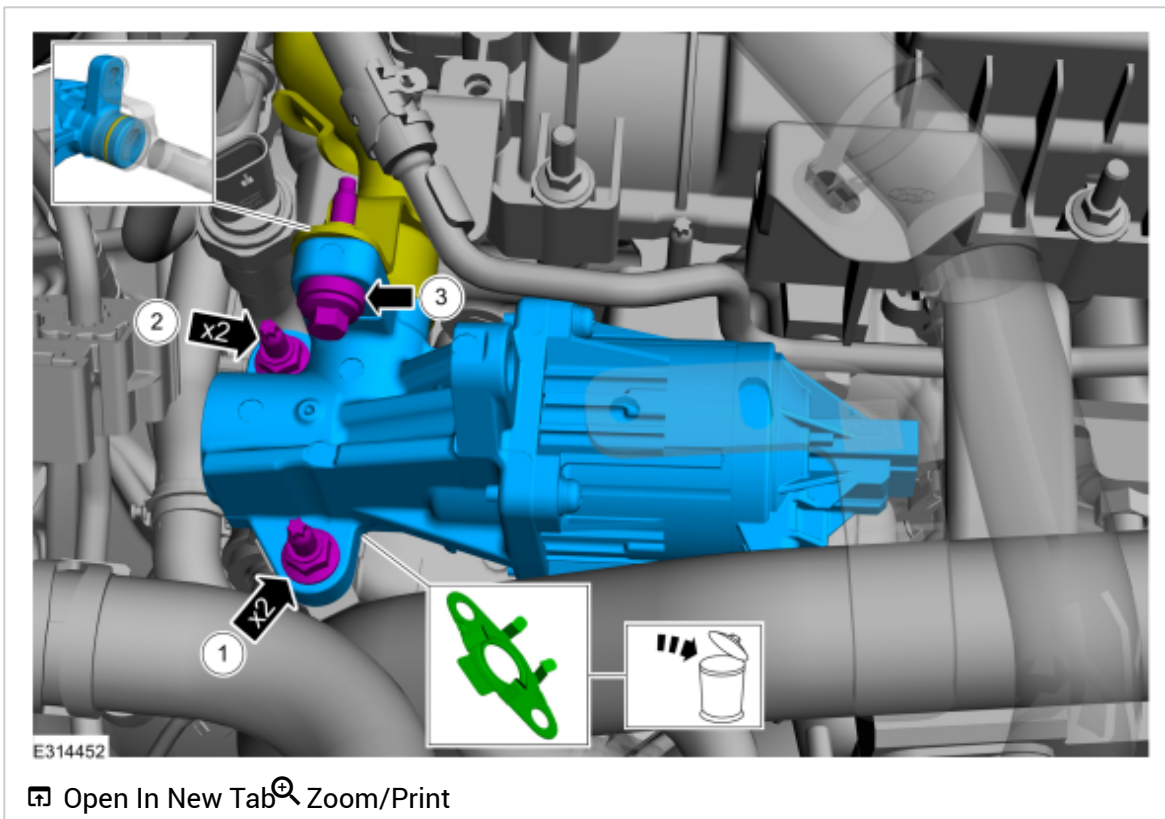
- 4.
- Disconnect the electrical connectors.
  - Detach the retainer and clip.



5. Disconnect the electrical connector.

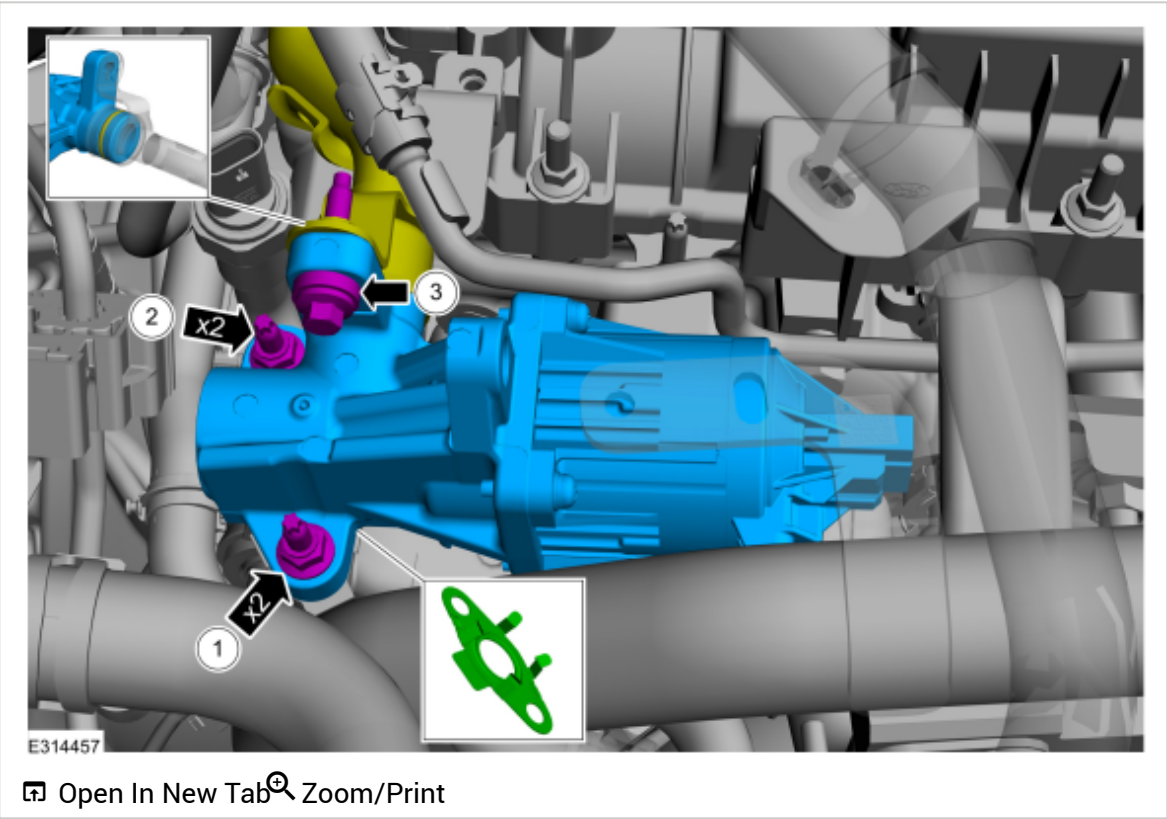


6.
  1. Remove the EGR valve nuts.
  2. Remove the EGR valve studs.
  3. Remove the bolt.
  4. Remove the EGR valve and discard the gasket.




## Installation

1.
  1. Inspect the o-ring and replace if necessary. Lubricate the o-ring with clean engine oil.
  2. Install the new gasket and EGR valve.
  3. Install the EGR valve studs.  
*Torque : 97 lb.in (11 Nm)*
  4. Install the EGR valve nuts.  
*Torque : 97 lb.in (11 Nm)*
  5. Install the EGR valve bolt.  
*Torque : 97 lb.in (11 Nm)*



2. To install, reverse the removal procedure.