

Turbo Compound 2nd Generation - EGR And/Or DPF Diagnostic Trouble Codes (DTC), Diagnostic And Repair Information

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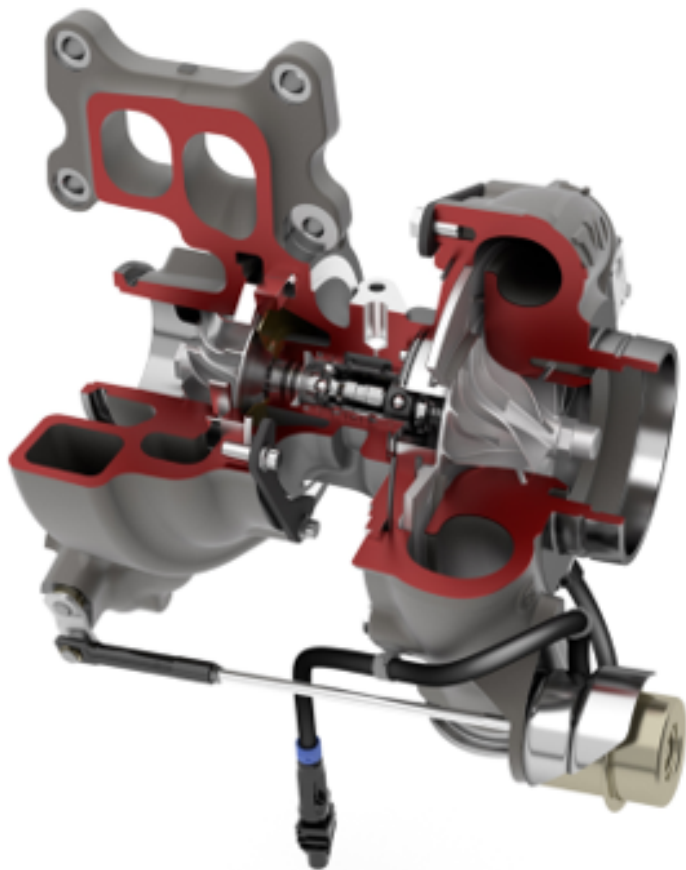
Valid for VN, AN, PI model years 2020 to present

Vehicles equipped with a second generation turbo compound engine may experience a combination of diagnostic trouble codes related to the EGR system and/or issues with regeneration.

This solution should be reviewed and followed prior to performing other diagnostics.

Product Identification

Vehicles equipped with a 2nd Generation Turbo-compound unit will have a turbocharger equipped with a wastegate as seen below.



Symptoms and Diagnostic Trouble Codes

Important: Affected vehicles will display a combination of **two or more** of the DTCs and/or symptoms listed below. Singular codes or symptoms should be investigated via normal diagnostic procedures.

EGR DTC	DPF DTC	Exhaust Backpressure	Symptom
P040100	P10FE00	P047164	Inability to perform a regeneration
P040200	P10E100		
P240F00	P245364		
P023400	P246300		
P029900	P24A400		

Diagnosis

Perform EGR Analysis Test Operation 2939-08-03-01. If the EGR Analysis Test Operation (2939-08-03-01) is unavailable for your application, please complete steps 1 through 3.

NOTE: The remaining steps 4 thru 7 will need to be completed with either option.

2. Using Tech Tool, open operation [2589-08-03-02 Exhaust Aftertreatment System, Service Regeneration](#) for data monitoring and collection. (**DO NOT start a regen. This is for data collection only.**)
3. Start engine and increase engine speed to 2000 RPM for 3-5 minutes.
4. Finish work in PTT.
5. Start an eService case if there is not an existing one for this shop visit.
6. In the summary provide:
 - A detailed summary of symptoms and DTCs
 - Any relevant history
 - This solution number
7. Retrieve and attach the .csv data file to the eService case.

Repair

- Instructions for how to proceed will be provided by Dealer Technical Support via the eService case.
- The eService case should be updated with findings based on the instructions provided.

Related links and attachments

No links or attachments available



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