



Technical Service Bulletin

01 MIL on in sub-freezing conditions, DTC P0087 stored in the ECM

01 19 10 2036169/5 March 13, 2019. Supersedes Technical Service Bulletin Group 01 number 15-05 dated January 16, 2015 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	2011 - 2016	All	TDI

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised title Revised header data (Added model year) Revised <i>Warranty</i> (Updated Labor Operations)
4	01/16/2015	Revised header data (Added model years) Revised <i>Service</i> (Added information about the cost of No. 2 Diesel fuel)
3	01/24/2014	Revised <i>Warranty</i> (Updated Diagnostic Time)

Customer states:

- MIL on.

Workshop findings:

The following DTC may be stored in the engine control module (ECM), J623 (address word 0001):

- **DTC P0087** (Fuel Rail/System Pressure - Too Low).
- Drivability concerns such as hard starting/no starting are present.
- Outside temperature is sub-freezing.
- In the tank, the fuel pump may be making a straining noise.

Technical Background

Diesel fuel requires additive blending or “winterization” to be useable at low temperatures. At temperatures below 20° F (-7° C), No. 2 Diesel with insufficient winterization blending may lose its fluidity due to wax separation. This may clog the fuel filter or in-tank filter, preventing the engine from operating properly.

No. 2 Diesel is blended by refineries to various levels of winterization (minimum useable temperature) based on month, geographical location, and the 10th percentile minimum ambient air temperature for the given region.



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Although rare, during *sudden* periods of extremely low temperatures (record lows), fuel stations may not be adequately prepared with No. 2 Diesel fuel with sufficient winterization to resist wax formation or “gelling”.

Tips for optimal operation include:

- When traveling from a warmer location to a colder location during sub-freezing conditions, try to refill the tank locally in the cold destination area.
- Refuel using major name brand fuel stations with high turnover rates.
- Garage vehicle overnight during extreme cold conditions if possible.
- Utilize engine preheater (when equipped – A3 TDI only).
- **Do not** utilize any fuel additive on any common rail diesel engine.



Tip: Factory fill fuel may not have sufficient winterization for use in the coldest regions in the United States. Fill any incoming new TDI vehicles with local diesel fuel as quickly as possible during the winter months.

Production Solution

None; this issue is related to the diesel fuel and not a technical problem with the vehicle.

Service

1. If fuel gelling is suspected based on ambient temperature and vehicle condition, allow the vehicle to warm to shop temperature before further diagnosis. If the vehicle starts and operates to specifications once it is warm, this TSB can be applied.
2. Inspect fuel level. If the fuel level is at the ½ tank or less, top off with local No. 2 Diesel* from a brand name station with high turnover.
3. If the fuel level is greater than the ½ tank, drain fuel tank contents and fully then fill with local No. 2 Diesel* from a brand name station with high turnover.
4. Replace fuel filter, drain water separator (if applicable).
5. Verify normal operation and release vehicle.

*Cost of No. 2 Diesel fuel top-off/fill-up is not warrantable.



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Warranty

Claim Type:	1SP		
Service Number:	2010		
Damage Code:	0010		
Labor Operations:	Diesel fuel filter remove + reinstall	2034 1900 Or 2034 1951 (A3 Only)	See SRT
	Fuel	2003 0750	See SRT
Diagnostic Time:	GFF	0150 0000	Time as stated on diagnostic protocol (Max 30 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2036169/5		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Additional Information

All parts and service references provided in this TSB (2036169) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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