



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Golf, Jetta, Jetta SportWagon	2010 – 2014	2.0L TDI (CJAA)	All	All	All
Beetle, Beetle Convertible	2013 - 2014	2.0L TDI (CJAA)	All	All	All
Passat	2012 - 2014	2.0L TDI (CKRA)	All	All	All
Touareg	2009 - 2014	3.0L TDI (CATA, CNRB)	All	All	All

Condition

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MIL ON in Sub-Freezing Conditions (DTC P0087), Engine Cranks but does not Start

A customer may comment on one or more of the following conditions when outside temperature is sub-freezing:

- MIL ON.
- The following DTC may be stored in the engine control module (ECM), -J623- (address word 01):
 - DTC P0087 (Fuel Rail/System Pressure - Too Low)
- Drivability concerns such as hard starting/no starting are present.
- In tank, 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.

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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. Although rare, during sudden periods of extreme 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 normal 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.

Place the vehicle in a garage overnight during extreme cold conditions, if possible.

DO NOT utilize any fuel additive on any common rail diesel engine.

Production Solution

Not applicable, 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 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 ½ tank or less, top off with local No. 2 Diesel from a name brand station with high turnover.
3. If fuel level is greater than ½ tank, drain fuel tank contents and fully fill with local No. 2 Diesel from a name brand station with high turnover.
4. Replace fuel filter, drain water separator (if applicable).
5. Verify normal operation and release vehicle.

Warranty

Information only.

Issues related to inadequate blending of Winter fuel are not a manufacturing defect and should not be charged to warranty.



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Required Parts and Tools

No Special Parts required.

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)
VAS Diagnostic Tool	VAS 5051B, VAS 5052A, VAS 6150/X & VAS 6160/X with: ODIS Service 2.0.0 or higher with current online updates

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.