



01-20-05TT - Engine/Motor Control Module - J623-, DTCs P053F, P0087, P0088, P1025

Release date: 9/22/2022

Condition

ATTENTION:

**THIS IS A TECH TIP, NOT A TECHNICAL BULLETIN.
TECH TIPS ARE NOT ASSOCIATED WITH WARRANTY CLAIMING.**

Applicable Vehicles

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Passat	2006 - 2018	3.6L (BLV, CDVB)	All	All	All
CC	2009-2017	3.6L (BLV, CNNA)	All	All	All
Touareg	2006-2017	3.6L (BHK, CGRA)	All	All	All
Atlas, Atlas CrossSport	2018-2021	3.6L (CDVC)	All	All	All

Revision Table

Instance Number	Published Date	Version Number	Reason For Update
2060799/4	9/22/22	01-20-05TT	To include DTCs P053F and P0087.
2060799/3	5/19/22	01-20-05TT	Update to service procedure.
2060799/2	9/28/20	01-20-05TT	Administrative.
2060799/1	9/18/20	01-20-05TT	Original publication.

Technical Background

DTCs P053F, P0087, P0088 and or P1025 may set as a result of the high pressure fuel pump being out of time.

DTC	Description
P053F	Cold Start Fuel Pressure Performance Bank 1
P0087	Fuel Rail/System Pressure - Too Low
P0088	Fuel Rail/System Pressure - Too High Bank 1



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P1025	Fuel pressure regulator valve Mechanical malfunction
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Service

Monitor fuel rail pressure at idle. If the pressure is reading excessively high (over 60 bar, in many cases up 125 bar), then timing issues are suspect.

- For 2006-2011 vehicles with KWP2000 MVB's:
 - Go to Engine, Control Module OBD, Check MVB 208 and 209, field 3
- For 2011 and new vehicles with UDE/IDE MVB's:
 - Check IDE 00182 Camshaft adaptation intake bank 1, phase position and IDE 00184 Camshaft adaptation exhaust bank 1, phase position.
- If these values exceed 8 degrees, the engine timing is off and the high pressure fuel pump is also out of time.
 - If the value reads blank or 0 then fault memory may have been cleared and has lost its adaptation. Remove upper timing cover to check base timing. If engine is out of time proceed to repair portion. If engine is in time then follow ODIS test plan.

Repair

For 2006-2007 Passat and Touareg:

- Replace both timing chains, timing chain tensioners, oil pump, oil pump gears (2x), oil pump bolt, engine oil, and engine oil filter.



Tip:

Prime the oil pump with clean engine oil prior to installation. Do this by adding oil to the oil pump and spinning the oil pump by hand.



Note:

Be sure to update the Engine/Motor Control Module -J623- Passat (3018), Touareg (3019).

For 2008 and newer vehicles:

- Replace timing chains, tensioners and guides.

Additional Information

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