



Technical Service Bulletin

PSS 01 3.0TFSI Bank 2 engine misfires - Q8/Q7 (DCBD engine)

01 21 03 2054182/5 April 7, 2021. Supersedes Technical Service Bulletin Group 01 number 20-85 dated September 3, 2020 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7, Q8	2019 - 2022	All	3.0TFSI

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised title Revised header (Added MY21-22) Revised <i>Production Solution</i> (Updated estimate)
4	09/03/2020	Revised <i>Production Solution</i> (Updated estimate) Revised <i>Service</i> (Adjusted Steps and updated with software release)
3	12/13/2019	Revised title (Changed format) Revised header (Added MY20) Revised <i>Service</i> (Updated estimate added to <i>Production Solution</i>)

This PSS only applies if all of the following conditions are met, see Figure 1 for an example:

- MIL on, MIL flashing, or misfires reported by customer.
- Misfire DTCs are stored for more than one cylinder on Bank 2.
- DTC ambient conditions show misfires occurring at or near the same timestamp.
- DTC ambient conditions show misfires occur while engine operating condition is "Leerlauf" (idle in German).
- DTC ambient conditions show misfires occur when the vehicle is at or near 0 km/h speed.
- The vehicle is NOT currently misfiring when examined in the workshop.

If all of the above criteria are not met, this PSS does not apply and the vehicle should be diagnosed using the normal GFF process.



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DTC memory entry
Number: P030500: Cyl.5 Misfire
Error type 2: Detected
Symptom: passive/sporadic
Status: 10595
Status: 01100000

Standard ambient conditions:
Date: 12/2/18
Time: 2:42:42 PM
Mileage (DTC): 1771
Priority: 2
Frequency counter: 2
Elimination counter / driving cycle: 255

Expanded ambient conditions:
Engine speed 626.5 1/min
Normed load value 7.8431373 %
Vehicle speed 0 km/h
Coolant temperature 101 °C
Intake air temperature 23 °C
Ambient air pressure 970 mbar
Voltage terminal 30 13.1 V
Dynamic environmental data 20 96 27 10 7A 03 11 BD 0E 77
1B 60 00 02 10 10 01 6A
Unlearning counter according OBD 39
Engine status COENG_RUNNING
Param_TestProgrCoEngStCOMPUVERBUBYTE3
Engine oil temperature 97.16 °C
Engine operating condition Leerlauf
Param_TestProgrChann87 5
Relative load value 18.726562 %
Current system status SYC_DRIVE
Param_TestProgrExeConState02UBYTE 4
Virtual_SigXSet_TIOff_eStrEnd_Off 2 s
Engine torque 36.2 Nm

DTC memory entry
Number: P030600: Cyl.6 Misfire
Error type 2: Detected
Symptom: passive/sporadic
Status: 10596
Status: 01100000

Standard ambient conditions:
Date: 12/2/18
Time: 2:42:42 PM
Mileage (DTC): 1771
Priority: 2
Frequency counter: 2
Elimination counter / driving cycle: 255

Expanded ambient conditions:
Engine speed 626.5 1/min
Normed load value 7.8431373 %
Vehicle speed 0 km/h
Coolant temperature 101 °C
Intake air temperature 23 °C
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Figure 1. Example of applicable DTC.

Technical Background

Software calibration causing misfire under certain running conditions using winter blend fuel (higher vapor pressure). This condition would occur mostly during winter months.



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Production Solution

Improved software in development pending 4th quarter of 2021 release.

Service

1. If customer's vehicle condition matches the conditions listed in this PSS TSB clear DTC's and test drive vehicle.
2. If no faults return after the test drive, explain to the customer that a solution is forthcoming for the 4th quarter of 2021 and that no repairs are necessary at this point. Do not replace any components for this condition since this will not resolve the customer's concern.
3. Create a PSS record in the PSS application through the Pending Service Solutions (PSS) link in AccessAudi (under *Related Links >> Service*), or through the Technical Assistance Page in Elsa.

Warranty

This TSB is informational only and not applicable to any Audi Warranty.

Additional Information

All parts and service references provided in this TSB (2054182) 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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