Technical Service Bulletin

PSS 01 3.0TFSI Bank 2 engine misfires - A6 and A7

01 21 02 2058038/3 April 7, 2021. Supersedes Technical Service Bulletin Group 01 number 20-86 dated September 3, 2020 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A6 Avant, A6 allroad, A7, and A7 Sportback	2019 - 2022	All	3.0 TFSI

Condition

REVISION HISTORY		
Revision	**Date**	**Purpose**
3	-	Revised header (Added MY) Revised *Production Solution* (Updated estimate)
2	09/03/2020	Revised *Production Solution* (Updated estimate) Revised *Service* (Adjusted Steps and updated with software release)
1	12/13/2019	Initial publication

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.

```
DTC memory entry
Number:                              P030500: Cyl.5 Misfire
                                     Detected
Error type 2:                        passive/sporadic
Symptom:                             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
                                     20 96 27 10 7A 03 11 BD 0E 77
   Dynamic environmental data        3E FC 05 12 16 03 1F 15 14 04
                                     1B 60 00 02 10 10 01 6A
   Unlearning counter according      39
   OBD
   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_tiStrtEnd_Off 2                      s
   Engine torque                     36.2                     Nm
DTC memory entry
Number:                              P030600: Cyl.6 Misfire
                                     Detected
Error type 2:                        passive/sporadic
Symptom:                             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
```
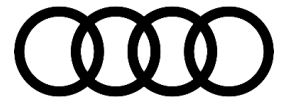
Figure 1. *Example of applicable DTC.*

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.

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 (2058038) 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.