



Technical Service Bulletin

15 4.0 TFSI EA825 engine - Misfiring, Engine does not run smoothly - Possible broken valve spring

15 22 41 2065684/3 May 11, 2022. Supersedes Technical Service Bulletin Group 15 number 22-40 dated March 3, 2022, for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
RS 6 & RS7	2021	910161 – 999999	EA825 Engine
	2022	900000 – 902424	
A8	2021	023583 – 999999	
SQ7 & SQ8	2021	039618 – 099999	
	2022	000000 – 012263	
RS Q8	2021	042970 – 999999	
	2022	000000 – 012263	

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised <i>Production Solution</i> (Modified Engine production date) <i>Service</i> (Modified repair procedure and production date range table) <i>Warranty</i> (Updated labor operations)
2	03/04/2022	Revised <i>Warranty</i> (Updated Labor Operations)
1	03/02/2022	Initial publication

Customer statement:

- Engine not running smoothly



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- MIL on and/or flashing

Workshop findings:

One or more of the following DTC's may be stored in the engine control module:

- DTC P030000
- DTC P030100
- DTC P030200
- DTC P030300
- DTC P030400
- DTC P030500
- DTC P030600
- DTC P030700
- DTC P030800

A broken valve spring (intake/exhaust) is identified during diagnosis.

Technical Background

There was an issue with raw material quality at the supplier.

Production Solution

Improved valve springs introduced as of vehicle production date (see VIN break):

Model	VIN Break	Production Date
A8	*****NN000433	After January 12, 2022
S8	*****NN000406	After December 18, 2021
SQ7 and SQ8	*****ND012788	After December 17, 2021
RS Q8	*****ND012264	After December 15, 2021



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RS 6 and RS 7	*****NN902425	After January 28, 2022
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Service

1. Verify the customer's complaint.
2. Check compression on all cylinders (*15 Cylinder Head, Valvetrain >>> Cylinder Head >>> Compression Checking*).
3. Check all valve springs on the cylinder with the lowest compression.
4. If a broken valve spring (intake or exhaust side) is identified during diagnosis, use a borescope to check whether the piston and valve head have made contact.
5. If valves **did not** contact the piston:
 - a. Use the vehicle production date table below to determine the proper repair procedure:

	Replace all 16 intake and 16 exhaust valve springs	Replace all 16 intake valve springs (Only)
Model/Engine code	Vehicle production range	Vehicle production range
A8 (CXYA)	June 15, 2021 - October 28, 2021	October 29, 2021 - January 11, 2022
S8 (CWWB)	June 14, 2021 - November 5, 2021	November 6, 2021 - December 17, 2021
SQ7/SQ8 (DCUE)	June 16, 2021 - October 1, 2021	October 2, 2021 - December 16, 2021
RSQ8 (DHUB)	June 8, 2021 - December 14, 2021	
RS6/RS7 (DJPB)	June 6, 2021 - October 21, 2021	October 22, 2021 - January 27, 2022

6. If valves **did** contact the pistons: This TSB does not apply, perform the appropriate diagnostic procedure, and perform necessary repairs.



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Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 Up to 48 Months/50,000 Miles • G10 for CPO Covered Vehicles – Verify owner • If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	1565		
Damage Code:	0010		
Labor Operations:	Cylinder compression check (all cylinders)	1019 0199	30 TU (remaining time is included in repair operation 1565 2099)
	Check cylinder block with borescope	1009 0299	20 TU
	Remove and install engine (engine remains on engine scissor table)	1085 1923	See SRT with associated operations
	Replace 16 intake valve springs (Only)	1565 2099	1210 TU
	Replace all 32 valve springs	1565 2099	1450 TU
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol
	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 2065684/2		



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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.

Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA
0P2109623	Exhaust valve spring (as applicable)	16
06E109623AD	Intake valve spring	16
06M998907	Repair kit for valve unit	8
0P2103649E	Gasket	1
0P2103650E	Gasket	1
0P2103113A	Cover	3
D176501A1	Silicone adhesive sealant	1
WHT005184	Seal	2

Tool Number	Tool Description
VAS 5161 A	Kit for removal and installation of valve keeper
VAS 5161 A/38	Guide Plate



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VAS 6131 B	Engine scissor table
VAS 6160/VAS 6150	VAS tester with the current version of ODIS

Additional Information

All parts and service references provided in this TSB (2065684) are subject to change and/or removal.

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