



# Technical Service Bulletin

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**15: 4.0 TFSI EA825 engine - Misfiring, Engine does not run smoothly - Possible broke valve spring**  
15 22 40 2065684/1 March 3, 2022.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A6 allroad, S6, RS 6 Avant, A7, A7 e quattro, S7, and RS 7	2021	910161 – 910211	Not Applicable
	2022	900009 – 901357	

## Condition

### Customer statement:

- Engine not running smoothly
- 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



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

The affected engines were produced during the following period:

- Engine code CXYA: June 15, 2021, up to and including November 10, 2021
- Engine code CWWB: June 14, 2021, up to and including November 16, 2021
- Engine code DCUE: June 16, 2021, up to and including November 12, 2021
- Engine code DHUB: June 8, 2021, up to and including November 13, 2021
- Engine code DJPB: June 16, 2021, up to and including November 19, 2021



## Note:

This TSB only applies to engines produced during the period(s) specified above.

## Production Solution

Improved valve springs introduced as of engine production date (see engine label):

- Engine code CXYA: after November 10, 2021
- Engine code CWWB: after November 16, 2021
- Engine code DCUE: after November 12, 2021
- Engine code DHUB: after November 13, 2021
- Engine code DJPB: after November 19, 2021

## 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.



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5. If valves **did not** contact the piston:
- a. Replace all 16 intake valve springs and all 16 exhaust valve springs following ELSA repair instructions:  
*Engine >>> Servicing >>> 15 Cylinder Head, Valvetrain >>> Valve Spring, Removing and Installing.*
  - b. If valves **did** contact the pistons: This TSB does not apply, perform the appropriate diagnostic procedure, and perform necessary repairs.

## Warranty

<b>Claim Type:</b>	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.		
<b>Service Number:</b>	1565		
<b>Damage Code:</b>	0010		
<b>Labor Operations:</b>	Cylinder compression check (all cylinders)	1019 0199	30 TU (remaining time is included in repair operation 1565 2099)
	Check cylinder block with borescope	1009 0251	See SRT with associated operations
	Remove and install engine (engine remains on engine scissor table)	1085 1923	See SRT with associated operations
	Replace all 32 valve springs	1565 2099	1450 TU



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<b>Diagnostic Time:</b>	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
<b>Claim Comment:</b>	As per TSB 2065684/1		

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	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



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