

## Technical Service Bulletin

<b>Topic</b>	15 4.0 TFSI EA825 engine - Misfiring, Engine does not run smoothly - Possible broken valve spring
<b>Market area</b>	United States 444 Volkswagen of America, Inc. (6444)
<b>Brand</b>	Audi
<b>Transaction No.</b>	2065684/7
<b>Level</b>	EH
<b>Status</b>	Released for publishing
<b>Release date</b>	Sep 4, 2025

### Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0001 - Engine electronics	P030000: Random Misfire Detected No Sub Type Information		static
0001 - Engine electronics	P030000: Random Misfire Detected No Sub Type Information		Intermittent

### New customer code

Object of complaint	Complaint type	Position
engine -> engine operation -> engine running	functionality -> irregular	
information, navigation, communication, entertainment -> malfunction display symbols -> emissions control system malfunction display	functionality -> activates	
engine -> engine operation -> engine running	functionality -> misfire	

### New workshop code

Object of complaint	Complaint type	Position
engine -> cylinder head, valvetrain -> valve spring	component, automotive fluids -> cracked/broken	

## Vehicle data

### S8

#### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4N*	2021	A		CWWB	*	*
4N*	2022	A		CWWB	*	*

#### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WAU	*	F8	*	N	*	000001	003630		
WAU	*	F8	*	M	*	023779	999999		

## SQ8

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4MN*	2021	A		DCUE	*	*
4MN*	2022	A		DCUE	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WA1	*	F1	*	M	*	039698	999999		
WA1	*	F1	*	N	*	000001	022217		

## RS Q8

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4MN*	2021	A		DHUB	*	*
4MN*	2022	A		DHUB	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WU1	*	F1	*	N	*	000001	022676		
WU1	*	F1	*	M	*	042970	999999		

## A8

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4N*	2021	A		CXYA	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WAU	*	F8	*	M	*	023583	999999		

## SQ7

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4MG*	2021	A		DCUE	*	*
4MG*	2022	A		DCUE	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WA1	*	F7	*	M	*	039618	999999		
WA1	*	F7	*	N	*	000001	014656		

## RS 6

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4A*	2021	A		DJPB	*	*
4A*	2022	A		DJPB	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WUA	*	F2	*	M	*	910164	999999		
WUA	*	F2	*	N	*	900000	904800		

## RS 7

### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4K*	2021	A		DJPB	*	*
4K*	2022	A		DJPB	*	*

### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
WUA	*	F2	*	M	*	910164	999999		
WUA	*	F2	*	N	*	900000	904851		

## Documents

Document name
<a href="#">master.xml</a>
<a href="#">vdm2065684_3.doc</a>

## Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised <i>Service</i> (Corrected typo in VIN reference table)
6	09/03/2025	Revised <i>Production Solution</i> (Updated reference table) Revised <i>Service</i> (Updated all verbiage, VIN reference tables) Revised <i>Warranty</i> (Updated claim type, and labor operations)
5	08/18/2023	Revised header (Updated VIN breaks)

### Customer states:

- Engine not running smoothly.
- MIL on and/or flashing.

### Workshop findings:

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

One or more of the following DTCs 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**

## Technical Background

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

## Production Solution

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

Engine Code	VIN Break	Production Date
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CXYA	*****NN004204	After March 29, 2022
CWWB	*****NN003631	After March 16, 2022
DCUE	*****ND022406	After March 25, 2022
DHUB	*****ND022518	After March 25, 2022
DJPB	*****NN904852	After April 29, 2022

## Service

Try to reproduce the customer complaint (based on the description/cause of the issue), so that it can be clearly assigned to this TSB. The following repair must only be carried out if all criteria (model/type, VIN number, engine and transmission code, PR number(s), part number, software version, code etc.) apply exactly. Otherwise, this service solution will not eliminate the problem and repeat repairs may be necessary. In such a case, we may reject the warranty claim and re-debit the parts.

If a broken valve spring (inlet or exhaust side) is identified during diagnosis, check whether the piston and valve head have made contact. If this is not the case, check whether the vehicle is from production period 1 or 2.

Engine code	Vehicle production period 1	Vehicle production period 2
CXYA	06/15/2021 to 10/28/2021	10/29/2021 to 01/11/2022
CWWB	06/14/2021 to 11/05/2021	11/06/2021 to 12/17/2021
DCUE	06/16/2021 to 10/01/2021	10/02/2021 to 12/16/2021
DHUB	06/08/2021 to 10/13/2021	10/14/2021 to 12/14/2021
DJPB	06/16/2021 to 10/21/2021	10/22/2021 to 01/27/2022

- Vehicle production period 1: Replace all 16 inlet valve springs **and** 16 exhaust valve springs.
- Vehicle production period 2: Replace all 16 inlet valve springs.
- If the vehicle was produced after vehicle production period 2, please replace only the damaged valve spring.

Exception:

RS Q8 with the following VINS	Measures
*****ND008878	Vehicle production period 1
*****ND008806	Vehicle production period 1
*****ND008819	Vehicle production period 1
*****ND008833	Vehicle production period 1

*****ND008842	Vehicle production period 1
*****ND008863	Vehicle production period 1
*****ND008884	Vehicle production period 1
*****ND008890	Vehicle production period 1

**Please write in the description whether an inlet valve spring or an exhaust valve spring was broken.**

When adjusting the engine's valve gear drive, in addition to the Workshop Manual for EA825 in ELSA, we also recommend you observe the information about a related engine version in the video STV\_0467 "3.0l TFSI engine of EA839 – setting the valve timing" in the Audi Knowledge Tank (AKT).

The adjustment values and tightening torque should be taken from the Workshop Manual for EA825 in ELSA as usual.

<https://www.knowledgetank.audi/page/detail/type=stv&key=a307cb0a-94f6-44C6-81f4-f104e739fa9a/>

When billing, please always attach photos that clearly show the complaint to DOC-IT. To ensure a reference to the vehicle, the image/video must:

- Include the VIN and date.
- Must not be edited.
- Should be in focus and taken with sufficient light. A high resolution is not necessary.

If appropriate, please mark the location of the problem so that parts analysis has a clear reference to the complaint. Please ensure that the photo documentation does not show any people and/or face, license plates, or customer data.

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	1565		
<b>Damage Code:</b>	0010		
<b>Labor Operations:</b>	<b>If the piston and the valve head have made contact, use the following table:</b>		
	Check compression pressure (all cylinders)	1019 01xx	See SRT with associated operations
	Check cylinder block with a borescope	1009 02xx	See SRT with associated operations
	GFF	0150 000	Labor according to the diagnostic log
	Charge battery	2706 8950	See SRT with associated operations
	<b>If the piston and the valve head have not made contact, use the following table (if replacing all valve springs or inlet valve springs):</b>		
	Check compression pressure (all cylinders)	1019 0199	30 TU

		(Remaining time is included in repair operations 1565 2099)
Check cylinder block with borescope	1009 02xx	See SRT with associated operations
Remove and install engine (remains on scissor-type assembly platform)	1085 1923	See SRT with associated operations
Replace all inlet valve springs	1565 2099	1400 TU
Replace all valve springs	1565 2099	1450 TU
GFF	0150 0000	Labor according to the diagnostic log
Charge battery	2706 8950	See SRT with associated operations
<b>If the piston and the valve head have not made contact, use the following table (if replacing only one valve spring):</b>		
Check compression pressure (all cylinders)	1019 0199	80 TU (Remaining time is included in repair operation 1565 19 or 1503 19)
Check cylinder block with borescope	1009 02xx	See SRT with associated operations
On cylinders 4 and 8: Remove and install engine (remains on scissor-type assembly platform)	1085 1923	See SRT with associated operations
On cylinders 4 and 8: Replace valve spring	1565 1999	790 TU
On cylinders 1, 2, 3, 5, 6, 7: Remove and install camshaft housing	1503 19xx	See SRT with associated operations
On cylinders 1, 2, 3, 5, 6, 7: Replace valve spring	1565 1999	40 TU
GFF	0150 0000	Labor according to the diagnostic log
Charge battery	2706 8950	See SRT with associated operations
<b>Claim Comment:</b>	As per TSB 2065684/7	

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.

## Additional Information

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

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