

Technical Service Bulletin

Topic	24 Engine: charge pressure control - exhaust emissions warning lamp on, P0299 - 4.0 ltr. V8 TFSI
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2079209/1
Level	EH
Status	Released for publishing
Release date	Sep 9, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0001 - Engine electronics	P029900: Turbo/Super Charger Underboost		Intermittent
0001 - Engine electronics	P029900: Turbo/Super Charger Underboost		static

New customer code

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

New workshop code

Object of complaint	Complaint type	Position
engine -> operation, engine control -> engine control module	control modules, services -> with fault stored in the DTC memory	

Vehicle data

Fahrzeuge mit EA825 V8TFSI

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
*	2019	A		CXYA	*	*
*	2020	A		CWWB	*	*
*	2020	A		CXYA	*	*
*	2020	A		DCUE	*	*
*	2020	A		DHUB	*	*
*	2021	A		CWWB	*	*
*	2021	A		DJPB	*	*
*	2021	A		CXYA	*	*
*	2021	A		DHUB	*	*

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
*	2021	A		DCUE	*	*
*	2022	A		CWWB	*	*
*	2022	A		DJPB	*	*
*	2022	A		DHUB	*	*
*	2022	A		DCUE	*	*
*	2023	A		DWRB	*	*
*	2023	A		DWNB	*	*
*	2023	A		DWLA	*	*
*	2023	A		DWKA	*	*
*	2024	A		DWRB	*	*
*	2024	A		DYG*	*	*
*	2024	A		DWKA	*	*

Documents

Document name
master.xml



Connection offline

Technical Service Bulletin

Transaction No.: **2079209/1**

24 Engine: charge pressure control - exhaust emissions warning lamp on, P0299 - 4.0 ltr. V8 TFSI

Release date: Sep 9, 2025

Condition

Customer states:

- Exhaust emissions warning lamp on

Workshop findings:

- The event memory entry P0299 (Turbo/Super Charger Underboost) is logged, and the extended ambient conditions show that it was entered during the engine's warm-up phase (coolant temperature below 90°C).

Technical Background

The charge pressure control for the EA825 V8 TFSI turbochargers is electropneumatic.

This means that charge pressure positioners V465 and V546 are electropneumatic pressure converters. Depending on activation (PWM) by the engine control unit, they are able to induce a calculated negative pressure (characteristic curve).

SSP 676 contains more information on the EA825 V8 TFSI engine vacuum system.

Production Solution

Not applicable.

Service

First, please check the vacuum hose between the mechanical coolant pump and the switch valve for mechanical coolant pump (N649) for damage and leaks.

When performing the check, please note that the switch valve for mechanical coolant pump (N649) is closed when not activated and therefore does not supply vacuum to the mechanical pump.

If you discover damage or a leak, please replace the vacuum hose.

If you do not find any damage or a leak, please continue with Guided Fault Finding.

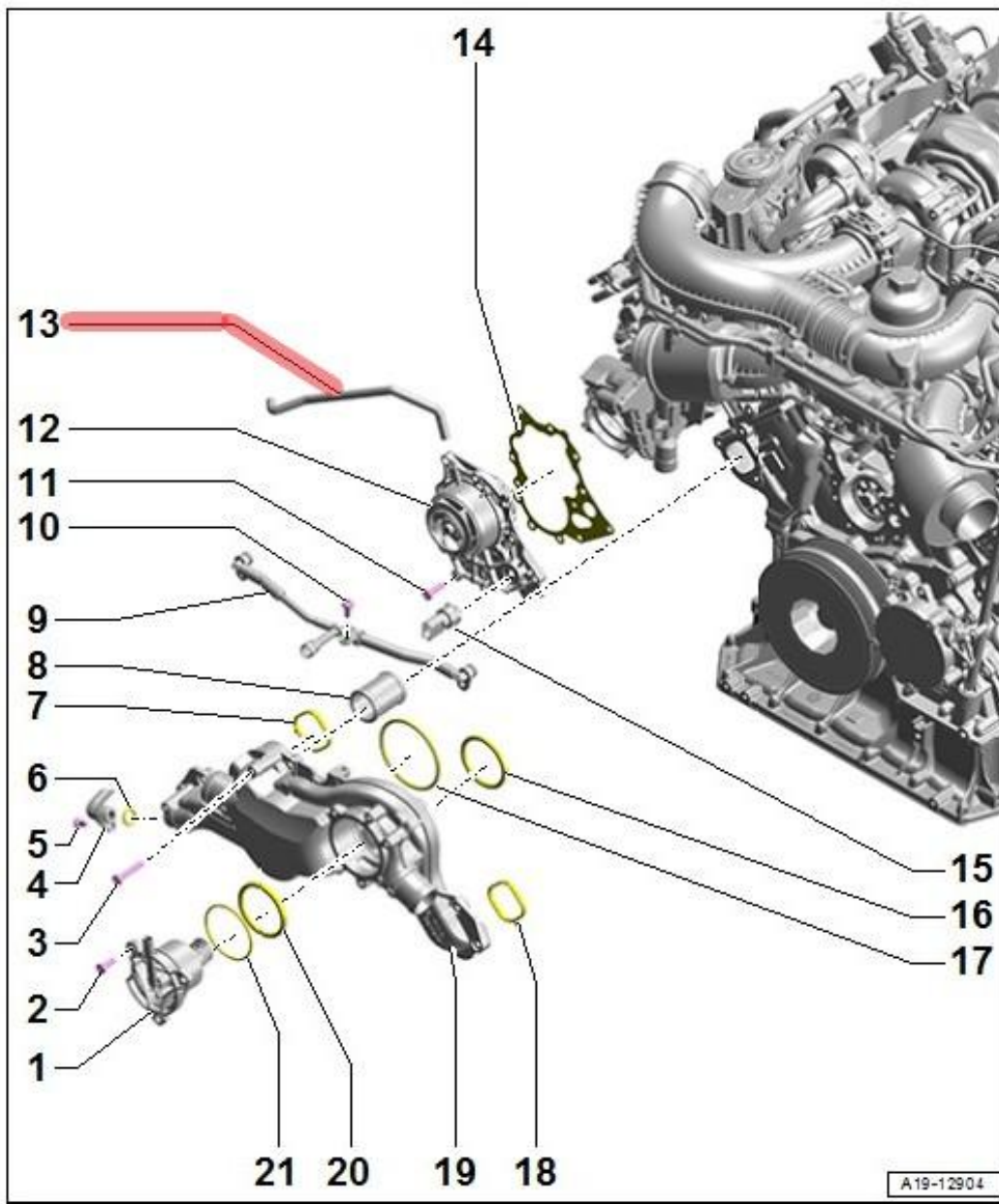


Figure 1. Assembly overview; coolant pump/thermostat including switchable mechanical coolant pump in position 12, vacuum hose between mechanical coolant pump and switch valve for mechanical coolant pump (N649) in position 13.

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

Claim Type:	If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2483		
Damage Code:	0010		
Labor Operations:	Check vacuum line	2483 0199	10 TU
	GFF	0150 0060	Time stated on the diagnostic protocol
	GFF	0150 0010	See SRT with associated operations
Claim Comment:	As per TSB 2079209/1		

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.

Additional Information

All part and service references provided in this TSB (**2079209**) 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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