

Technical Service Bulletin



01 Engine warning lamp on; DTC entries about AVS adjustment

01 15 45 2042071/1 October 5, 2015.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8	2013 - 2015	All	4.0TFSI

Condition

- One or more of the following conditions is present:
 - Engine warning lamp is illuminated.
 - EPC lamp is illuminated.
 - The engine runs irregularly.
- DTCs related to the cylinder on demand (COD) function are stored in the engine control module, J623 (address word 01). See the *Service* section of this bulletin for a complete list.

Technical Background

A delay during the actuation of the COD adjusting mechanism is possible during the switch between 8 and 4 cylinder mode.

Production Solution

Optimized production.

Service

1. Use the following image (Figure 1) and chart to identify the installation position of the affected actuator based on the DTC.



Figure 1. Use this image to identify the installation position of the affected actuator.

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DTC Entry	Position in illustration	Cylinder	Description	Component Code
P11A8 (Cam shift actuator "B" cylinder 2 range/performance)	A	2	Inlet camshaft 2	F453
P12B1 (Camshaft adjuster "B" cylinder 2 malfunction)	A	2	Inlet camshaft 2	F453
P11D6 (Cam shift actuator outlet "B" cylinder 2 range/performance)	B	2	Exhaust camshaft 2	F455
P12C1 (Exhaust camshaft adjuster "B" cylinder 2 malfunction)	B	2	Exhaust camshaft 2	F455
P11A6 (Cam shift actuator "A" cylinder 2 range/performance)	C	2	Inlet camshaft 1	F452
P12A9 (Camshaft adjuster "A" cylinder 2 malfunction)	C	2	Inlet camshaft 1	F452
P11D5 (Cam shift actuator outlet "A" cylinder 2 range/performance)	D	2	Exhaust camshaft 1	F454
P12B9 (Exhaust camshaft adjuster "A" cylinder 2 malfunction)	D	2	Exhaust camshaft 1	F454
P11AA (Cam shift actuator "A" cylinder 3 range/performance)	E	3	Inlet camshaft 1	F456
P12AA (Camshaft adjuster "A" cylinder 3 malfunction)	E	3	Inlet camshaft 1	F456
P11D7 (Cam shift actuator outlet "A" cylinder 3 range/performance)	F	3	Exhaust camshaft 1	F458
P12BA (Exhaust camshaft adjuster "A" cylinder 3 malfunction)	F	3	Exhaust camshaft 1	F458
P11AC (Cam shift actuator "B" cylinder 3 range/performance)	G	3	Inlet camshaft 2	F457
P12B2 (Camshaft adjuster "B" cylinder 3 malfunction)	G	3	Inlet camshaft 2	F457
P11D8 (Cam shift actuator outlet "B" cylinder 3 range/performance)	H	3	Exhaust camshaft 2	F459
P12C2 (Exhaust camshaft adjuster "B" cylinder 3 malfunction)	H	3	Exhaust camshaft 2	F459

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P11DB (Camshaft actuator outlet "A" cylinder 5 range/performance)	I	5	Exhaust camshaft 2	F467
P12BC (Exhaust camshaft adjuster "A" cylinder 5 malfunction)	I	5	Exhaust camshaft 2	F467
P11B2 (Cam shift actuator "A" cylinder 5 range/performance)	J	5	Inlet camshaft 2	F465
P12AC (Camshaft adjuster "A" cylinder 5 malfunction)	J	5	Inlet camshaft 2	F465
P11DC (Cam shift actuator outlet "B" cylinder 5 range/performance)	K	5	Exhaust camshaft 1	F466
P12C4 (Exhaust camshaft adjuster "B" cylinder 5 malfunction)	K	5	Exhaust camshaft 1	F466
P11B4 (Cam shift actuator "B" cylinder 5 range/performance)	L	5	Inlet camshaft 1	F464
P12B4 (Camshaft adjuster "B" cylinder 5 malfunction)	L	5	Inlet camshaft 1	F464
P11E2 (Cam shift actuator outlet "A" cylinder 8 range/performance)	M	8	Exhaust camshaft 1	F478
P12C7 (Exhaust camshaft adjuster "B" cylinder 8 malfunction)	M	8	Exhaust camshaft 1	F478
P11D2 (Cam shift actuator "B" cylinder 8 range/performance)	N	8	Inlet camshaft 1	F476
P12B7 (Camshaft adjuster "B" cylinder 8 malfunction)	N	8	Inlet camshaft 1	F476
P11E1 (Cam shift actuator outlet "A" cylinder 8 range/performance)	O	8	Exhaust camshaft 2	F479
P12BF (Exhaust camshaft adjuster "A" cylinder 8 malfunction)	O	8	Exhaust camshaft 2	F479
P11D1 (Cam shift actuator "A" cylinder 8 range/performance)	P	8	Inlet camshaft 2	F477
P12AF (Camshaft adjuster "A" cylinder 8 malfunction)	P	8	Inlet camshaft 2	F477

2. Replaced the affected COD adjusting mechanism.



Note:

The engine could be damaged.

3. Bring all of the replaced cam adjustment actuator pins into the installed position. Press the pins down in the direction of the arrow (Figure 2) by hand. The pins must not be in the outward position.

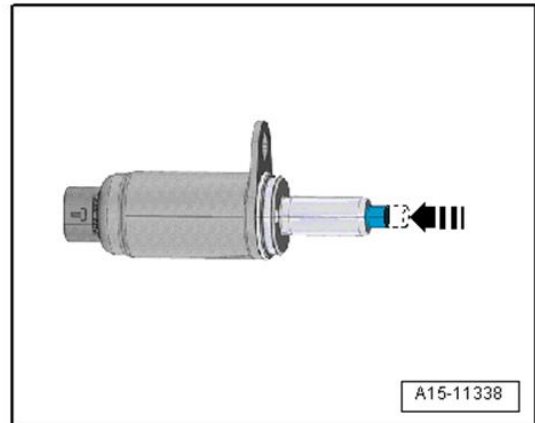


Figure 2. Press the pins down in the direction of the arrow.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	1551		
Damage Code:	0040		
Labor Operations:	For A8/S8:		
	Adjusting mechanism for valvelift system (COD) remove+reinstall Bank 2	1551 1921	20 TU
	Adjusting mechanism for valvelift system (COD) remove+reinstall Bank 1 (Includes air hose remove+reinstall)	1551 1922	30 TU
	For S6/S7/RS 7:		
	Adjusting mechanism for valvelift system (COD) remove+reinstall Bank 2	1551 1921	30 TU
	Adjusting mechanism for valvelift system (COD) remove+reinstall Bank 1	1551 1922	40 TU
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	10 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2042071/1		

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

Part Number	Part Description	Quantity
06E103697L	Camshaft adjuster	As needed (One per DTC entry)

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Additional Information

All parts and service references provided in this TSB (2042071) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.