

Release date:

8/25/2022

Condition

Applicable Vehicles							
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To		
All	2006-2008	2.0T (BPY)	All	All	All		
All	2008-2017	2.0T (CCTA/CBFA)	All	All	All		

Revision Table					
Instance Number	Published Date	Version Number	Reason For Update		
2045138/11	8/25/2022	24-18-01	Update to Warranty table labor operation numbers per SAGA updates.		
2045138/10	9/2/2021	24-18-01	To update applicable model year.		
2045138/1	1/4/16	V241701	Original publication.		

DTC	Description
P2004	Intake Manifold Flap for Air Flow Control Bank 1 Stuck Closed
P2014	Intake Manifold Runner Position Sensor/Switch Circuit
P2015	Sender for Intake Manifold Flap Position/Air Flow Control, Implausible Signal

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Technical Background

Perform 2 inspections before replacing the intake manifold.

ітір:

An ODIS intake manifold adaptation process must be performed after intake manifold replacement.

Inspection 1:

Vacuum line and vacuum tee restrictions (CCTA/CBFA).

Vacuum lines and "T" fittings may become clogged with debris from production or increasing mileage.

This debris may cause a restriction that could affect the intake manifold operation and cause DTC P2014, P2015 faults.

Inspection 2:

Intake Manifold flap (BPY/CCTA/CBFA).

The intake manifold flap can separate internally and will not operate correctly with the regulator valve. See Figure 1. and Figure 2. for an example of a damaged flap disassembled.

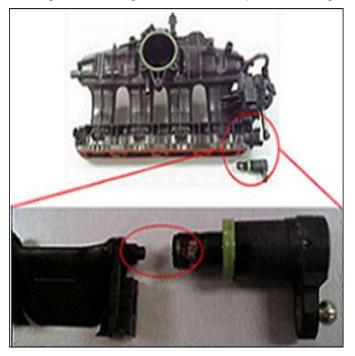


Figure 1.

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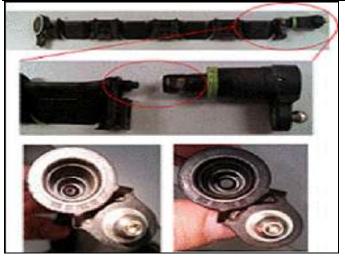


Figure 2.

Production Solution

Improved intake manifold design.

Service

Procedure 1:

Vacuum line and vacuum tee restrictions.

Ensure correct intake manifold is installed on engine, refer to ETKA.

The intake manifold runner can be checked for proper operation using MVB 143 field 3.

The vehicle must be driven in order to place a load on the engine.

The engine RPM should be quickly increased to at least 3000 RPM and released. MVB 143 field 3 value should immediately change from 0% up to 100%.

If the values in field 3 instantly change to 100%, the hose and fittings are not restricted. If no restriction has been identified, Continue procedure 2 diagnosis.

If there is a restriction, the values in field 3 will slowly increase or not increase at all. Inspect vacuum lines leading to intake manifold, and fittings, for restrictions (twisted, kinked hoses or blockages caused by debris).

Reposition or clean as required.

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Procedure 2:

Intake Manifold flap.

Check intake manifold flaps and if necessary replace intake manifold.

- Remove the engine cover. See Repair Group 10 Engine Assembly in Elsa.
- Move the carrier plate by hand in an axial direction (Figure 3, red arrow) to check if the carrier plate can be pulled out.



Figure 3.

<u>If the carrier plate can be pulled out</u>, the flap has separated and the intake manifold must be replaced. See Repair Group 24 Multiport Fuel Injection in Elsa.

If the carrier plate cannot be pulled out, perform the following procedure:

- Check the diagnostic limits of the flap with the ODIS tester.
- Under Motor, select Guided Functions (Figure 4).

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Networking diagram	m Control Module List Compane	ents List DTC memory list Equ	ipment list		Info			•
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Figure 4

• Select Adapting Engine Control Module (ECM) to intake manifold flap (Figure 5).

01 - Check fuel delivery rate, quick test 01 - Warranty information Adapting Engine Control Module (ECM) to immobilizer Adapting Engine Control Module (ECM) to intake manifold flap Adapting Engine Control Module (ECM) to throttle valve CM Check tank ventilation system for proper seal Coding Engine Control Module (ECM) Generate readiness code Oil consumption measurement Reading measured values, engine Replacing Engine Control Module (ECM)		
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	Replacing Engine	Control Module (ECM)
	Conducing English	Contract module (LCom)

Figure 5

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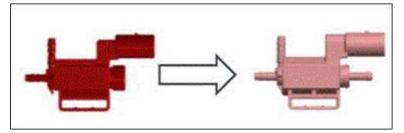


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<u>If the adaptation is not successful</u>, the flap stop is worn internally, the intake manifold also has to be replaced. See Repair Group 24 Multiport Fuel Injection in Elsa.

Note:

The new intake manifold will come with a new style Solenoid Valve for Intake Manifold Flap -*N316*. Please reference TB 2047363 for installation of Clean Air Line.



Note:

If no carrier plate, vacuum line or vacuum tee related damage is identified, and the adaptation passes, diagnose the faults using guided fault finding. This bulletin does not apply.

Note:

During intake manifold replacement, all fuel injector seals must be replaced, see Elsa for installation instructions.

After performing Intake Manifold Replacement, add fuel additive G 001780M3 to the fuel tank. Also, refer the customer to brochure 2020 VW Top Tier Fuel (VWTOPTIERMAY20) and explain the benefits of using Top-Tier fuels as indicated in Technical Bulletin 2014815.

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Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾

Model(s)	Year(s) Eng. Coo			ode(s)	Trans. Code(s)		l Range From	VIN Range To
All	2006	-2008	2.0 (BP	-	All		All	All
All	2008	-2017	2.0 (CCTA/0		All		All	All
				SAGA Co	oding			•
Claim Type:		Use app	licable Clai	m Type ¹⁾				
Service Nur	vice Number: Damage Code			HST			ge Location ds on Service No.)	
2447	2447 0010					ſ		
Parts Ma	Inufactur	er		All			MH	O ²⁾
Labor Operation	on ³⁾ : Cha	rge Batte	ry	2706895	50 = See Elsa fo	r latest	time units	
Labor Operation	on ³⁾ : Insp	ection an	d/or repair	2447419	99 = 30 TU			
Labor Operation ^{3) :} Remove + Reinstall Fuel Injectors (Seal Replacement).			<mark>244019</mark> >	⟨X = See Elsa fo	or lates	<mark>t time units</mark>		
Labor Operation ³⁾ : Intake Manifold Replace			244755XX = See Elsa for latest time units (if applicable)					
Labor Operation ³⁾ : Install Clean Air Line			24662399 = 20 TU					
Causal Part: In	take Mani	fold		XXX 133 XXX X (BPY) XXX 133 XXX XX (CCTA, CBFA)				
Outside Mater Tier Fue	ial: 2020 I Brochur		VW	TOPTIE	RMAY20		\$1.	50

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Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = Actual GFF print out	YES			
Road Test	01210002 = 10 TU 01210004 = 10 TU	YES			
Technical Diagnosis	01320000 = 10 TU max.	YES			
Claim Comment: Input "As per Te	echnical Bulletin 2045138" in commer	nt section of Warranty Claim.			
 ¹⁾ Vehicle may be outside any War ²⁾ Code per warranty vendor code ³⁾ Labor Time Units (TUs) are subj 		illetin is informational only.			

⁴⁾ Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

Part No:	Part Description	Quantity
06F 133 201 P (BPY)	Intake Manifold	1 (If Necessary)
06D 998 907 (BPY)	Seals	4 (If Necessary)
06F 129 717 D (BPY)	Gasket	1 (If Necessary)
06J 133 201 BH (CCTA/CBFA)	Intake Manifold	1 (If Necessary)
06J 998 907 * (CCTA/CBFA)	Seals	4 (If Necessary)
N 107 732 01 (CCTA/CBFA)	Flat- headed Screw with Torx (thread cutting)	1
06H 133 583 F (CCTA/CBFA)	Clean Air Hose	1
06E 127 065 G	Adapter	2 (If Necessary)
06F 129 717 D (CCTA/CBFA)	Gasket	1 (If Necessary)

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G 001780M3	Injector Cleaner	1
VWTOPTIERMAY20	2020 VW Top Tier Fuel Brochure	1

Part numbers are accurate at time of publication. Always refer to ETKA for the latest part information.

ітір:

Additional copies of the Top Tier fuel brochure may be ordered from Volkswagen Technical Literature Ordering Center at https://literature.vw.com/

Tool Description	Tool No:
Midtronics Battery Tester/Charger	GRX3000VAS
	or
	MTRMSP0702 battery maintainer/charger
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X and
	ODIS Service with: current online updates

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

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