



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All	2006-2008	2.0T (BPY)	All	All	All
All	2008-2016	2.0T (CCTA/CBFA)	All	All	All

Condition

24 17 08 August 7, 2017 **2045138** Supersedes Technical Bulletin 24-17-04 (V241704) dated June 29, 2017 for information regarding the Top Tier Fuel Brochure.

MIL ON DTCs P2004, P2014 and or P2015 Stored in ECM Fault Memory

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

Technical Background

Perform 2 inspections before replacing the intake manifold.



Tip:

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.



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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.

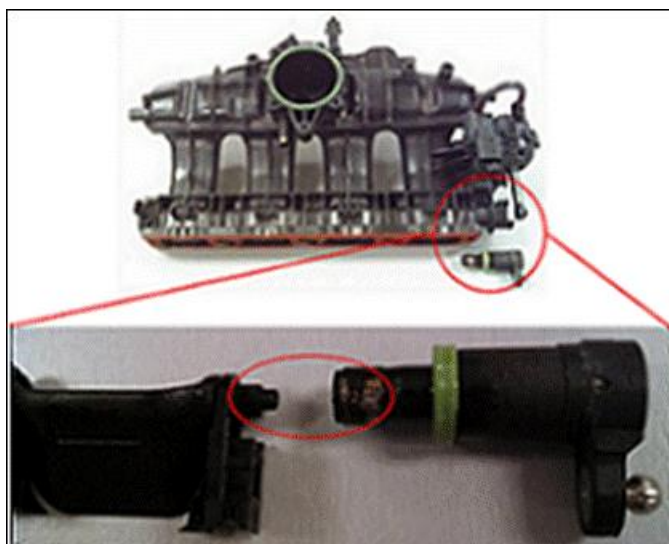


Figure 1.



Figure 2.



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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.

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.



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Figure 3.

If the carrier plate can be pulled out, 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).

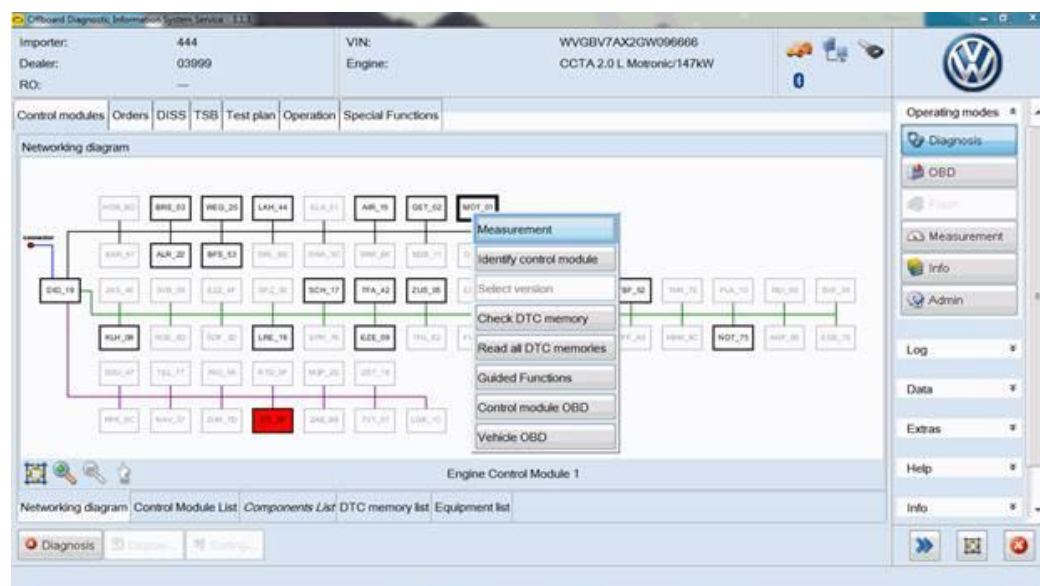


Figure 4



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

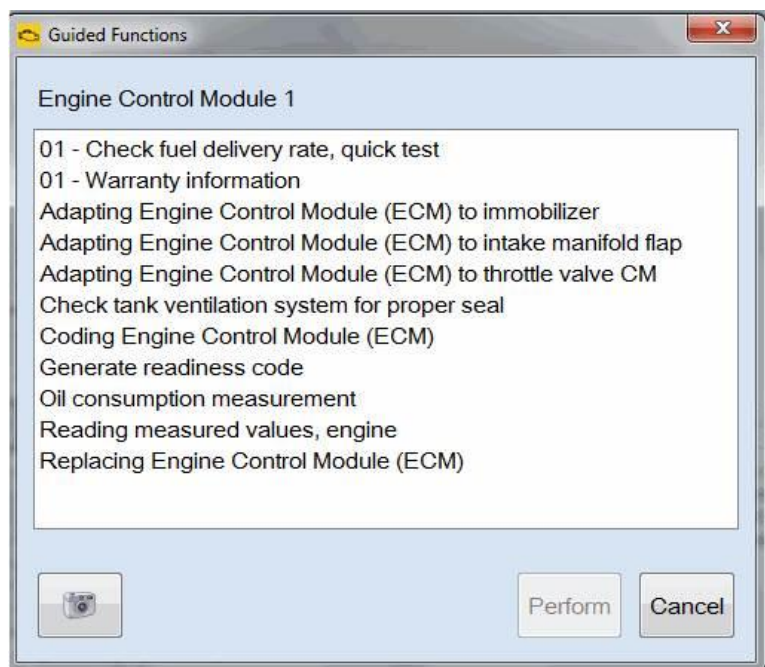


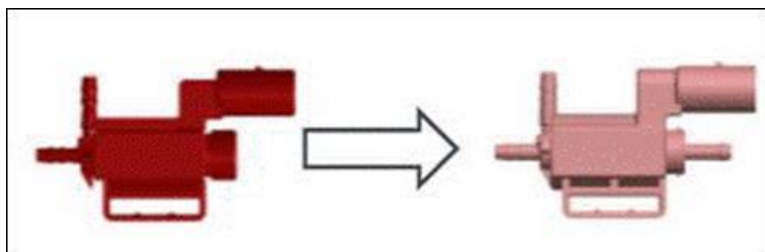
Figure 5

If the adaptation is not successful, 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.



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Note:

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

2. After performing Intake Manifold Replacement, add fuel additive G 001780M3 to the fuel tank. Also, refer the customer to brochure 2014 VW Top Tier Fuel (VWTOPTIERJAN14) 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. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
All	2006-2008	2.0T (BPY)	All	All	All
All	2008-2016	2.0T (CCTA/CBFA)	All	All	All
SAGA Coding					
Claim Type:		Use applicable Claim Type ¹⁾			
Service Number:		Damage Code	HST	Damage Location (Depends on Service No.)	
2447		0010	--	Use applicable when indicated in Elsa (L/R)	
Parts Manufacturer		All		MHO ²⁾	
Labor Operation ³⁾ : Charge Battery			27068950 = 10 TU		
Labor Operation ³⁾ : Inspection and/or repair hose			24474199 = 30 TU		
Labor Operation ³⁾ : Remove and Install Intake Manifold			244719XX = See Elsa (if applicable)		
Labor Operation ³⁾ : Intake Manifold Replace			244755XX = See Elsa (if applicable)		
Labor Operation ³⁾ : Install Clean Air Line			24662399 = 20 TU		
Labor Operation ³⁾ : Install Fuel Injectors (Seal Replacement)			244020XX = See Elsa (if applicable)		
Causal Part: Intake Manifold			XXX 133 XXX X (BPY) XXX 133 XXX XX (CCTA, CBFA)		



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Outside Material: 2014 VW Top Tier Fuel Brochure	Part No: VWTOPTIERJAN14	\$1.50
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 Technical Bulletin 2045138" in comment section of Warranty Claim.		
<p>¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p>²⁾ Code per warranty vendor code policy.</p> <p>³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>⁴⁾ Documentation required per Warranty Policies and Procedures Manual.</p>		

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 B (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



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06F 129 717 D (CCTA/CBFA)	Gasket	1 (If Necessary)
G 001780M3	Injector Cleaner	1
VWTOPTIERJAN14	2014 VW Top Tier Fuel Brochure	1



Tip:

Additional copies of the Top Tier fuel brochure may be ordered from Volkswagen Technical Literature Ordering Center at www.vw.techliterature.com.

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940) or GRX3000VAS
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.

Document Control Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2045138/5	August 7, 2017	V241708	Updated to provide additional information regarding Top Tier Fuel Brochure.
2045138/4	June 29, 2017	V241704	Provide information regarding a new style Solenoid Valve for Intake Manifold Flap - N316 -.
2045138/1	January 4, 2016	V241701	Original publication.