



# 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 04** June 29, 2017 **2045138** Supersedes Technical Bulletin 24-17-03 (V241703) dated March 6, 2017 for information regarding a new style solenoid valve for Intake Manifold Flap -**N316**.

**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.



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.



# Technical Bulletin

## 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.

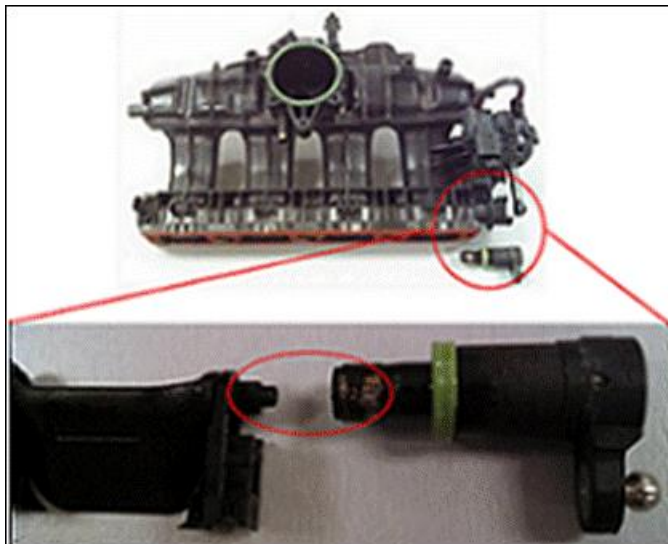


Figure 1.



Figure 2.



# Technical Bulletin

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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.



Figure 3.



# Technical Bulletin

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).

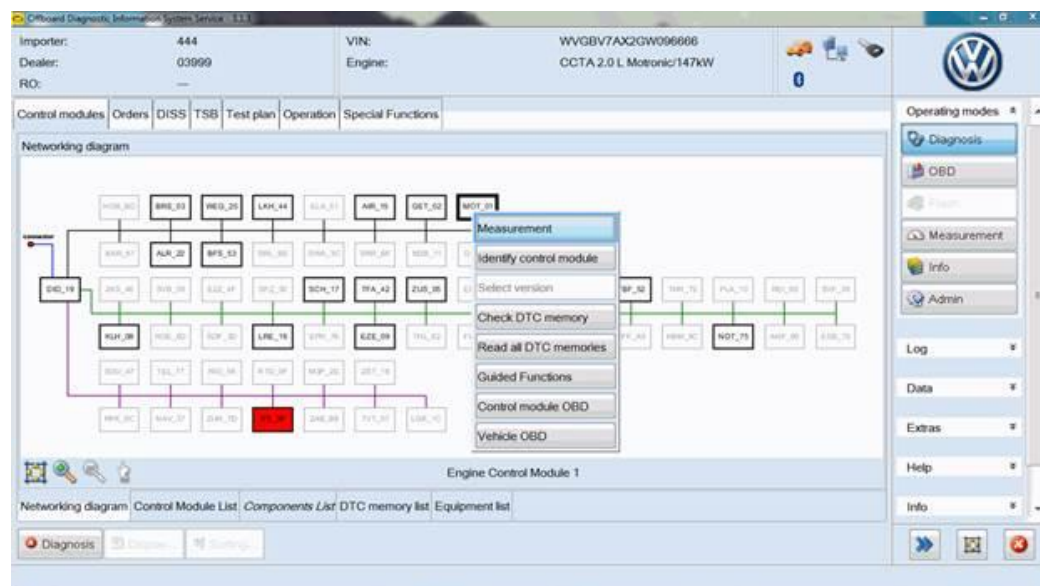


Figure 4

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

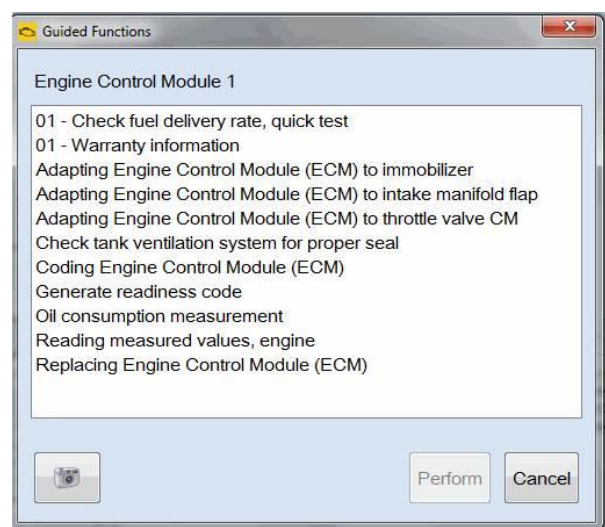


Figure 5



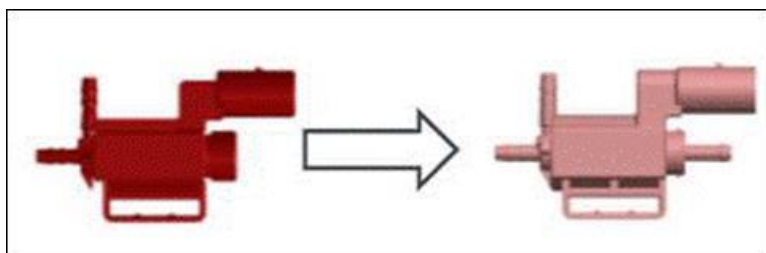
# Technical Bulletin

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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.

**! 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.



# Technical Bulletin

## Warranty

<b>To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup></b>					
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
<b>SAGA Coding</b>					
<b>Claim Type:</b>	<b>Use applicable Claim Type <sup>1)</sup></b>				
<b>Service Number:</b>	<b>Damage Code</b>	<b>HST</b>		<b>Damage Location (Depends on Service No.)</b>	
2447	0010	--		Use applicable when indicated in Elsa (L/R)	
<b>Parts Manufacturer</b>	<b>All</b>		<b>MHO <sup>2)</sup></b>		
<b>Labor Operation <sup>3)</sup> : Charge Battery</b>			27068950 = 10 TU		
<b>Labor Operation <sup>3)</sup> : Inspection and/or repair hose</b>			24474199 = 30 TU		
<b>Labor Operation <sup>3)</sup> : Remove and Install Intake Manifold</b>			244719XX = See Elsa (if applicable)		
<b>Labor Operation <sup>3)</sup> : Intake Manifold Replace</b>			244755XX = See Elsa (if applicable)		
<b>Labor Operation <sup>3)</sup> : Install Clean Air Line</b>			24662399 = 20 TU		
<b>Labor Operation <sup>3)</sup> : Install Fuel Injectors (Seal Replacement)</b>			244020XX = See Elsa (if applicable)		
<b>Causal Part: Intake Manifold</b>			XXX 133 XXX X (BPY) XXX 133 XXX XX (CCTA, CBFA)		



# Technical Bulletin

Diagnostic Time <sup>4)</sup>		
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><sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p><sup>2)</sup> Code per warranty vendor code policy.</p> <p><sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p><sup>4)</sup> 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
06F 129 717 D (CCTA/CBFA)	Gasket	1 (If Necessary)
Injector Cleaner	G 001780M3	1





# Technical Bulletin

2014 VW Top Tier Fuel Brochure	VWTOPTIERJAN14 (customer literature is not reimbursable under warranty)	1
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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
2045138/4	June 29, 2017	V241704	Provide information regarding a new style Solenoid Valve for Intake Manifold Flap - <b>N316</b> -.
2045138/3	March 6, 2017	V241703	To remove engine coolant from required parts table.
2045138/1	January 4, 2016	V241701	Original publication.