

Intake manifold pressure too low



[Mario Valle](#) 8 posts since Dec 28, 2014

Intake manifold pressure too low Sep 19, 2018 7:34 PM

spn 102 fmi 18

The one box was replace before this code started popping up,

Conducted all the TS steps for this code and even steps on TSB 8 03-14 and I'm still getting the same code.

Only thing I've haven't replaced is the turbo only because it was done 9 months ago. Has no intake or exhaust leaks. MCM was replaced on the last step of the troubleshooting. CAC was replaced because its wasn't done at the time of the turbo.

Tags: low intake manifold pressure, spn 102



[Scott Trippel](#) 4,004 posts since Dec 13, 2014

Re: Intake manifold pressure too low Sep 19, 2018 7:37 PM

Do you have a serial Number

Is it a DD13/15 or 16?

Those codes we will verify on a Dyno, it can be an MCM as well



[Mario Valle](#) 8 posts since Dec 28, 2014

Re: Intake manifold pressure too low Sep 19, 2018 8:17 PM

serial #471927s0226077 the mcm was replaced on the last TS step when everything else checked out.



[Scott Trippel](#) 4,004 posts since Dec 13, 2014

Re: Intake manifold pressure too low Sep 19, 2018 8:22 PM

I assume it is pre GHG17, so the turbo will be waste gated. It does pass the TS for the waste gate?

Also check the IAT sensor for corrosion.

Also get a log file of the verification, loaded drive above 1130 rpm for 5 min, capture to code coming active.

Send log to csc.



[Kyle Siebert](#) 4,101 posts since Nov 14, 2014

Re: Intake manifold pressure too low Sep 20, 2018 12:05 AM

I like to use regulated air pressure to apply and release the wastegate several times. Will typically see it stick or fail to return to the exhausted air position. I think the diag says the pressure is around 40 psi.



[Penske Columbus East](#) 2 posts since Aug 6, 2020

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Re: Intake manifold pressure too low Oct 26, 2020 2:44 AM

Did you ever find a fix to this issue? Have exact same faults on a dd13 ghg14. Truck already has new turbo, egr actuator, wastegate, venture pipe, engine harness, intake temp sensor, and MCM.



Jean-luc Collette 31 posts since Dec 14, 2016

Re: Intake manifold pressure too low Oct 26, 2020 2:43 PM

could be injectors or a plugged up onebox...?



Ariel Guzman 71 posts since Nov 13, 2015

Re: Intake manifold pressure too low Oct 26, 2020 3:41 PM

HHello

Check the turbo. I also had problems with air pressure and the turbo was cracked on the exhaust side. I changed the turbo and the problem disappeared. Before changing the turbo I had changed the harness, intake tube, 02 injectors and had tried an MCM as well.

Attached image.

The screenshot shows the XENTRY Diagnosis interface for a Mercedes-Benz vehicle (WDB964416J0213032). The main menu includes options like Versión, Códigos de averías / Eventos, Valores reales, Activaciones, Adaptaciones, Protocolo de la unidad de control, Comprobaciones, and Funciones de experto. The 'Comprobaciones' tab is selected, showing a successful test result for 'Comprobación de la corrección del caudal del ralentí'. Below this, a table lists the 'Estado de los respectivos valores reales' for six cylinders, showing values ranging from -6.00% to 31.00% against a nominal range of [-99.00 .. 99.00]. At the bottom, a table shows 'Datos periféricos' with 'Valor real' and 'Valor nominal' for engine speed (606.00 1/min) and torque (54.00Nm).

Estado de los respectivos valores reales		
Regulación de la suavidad de marcha del cilindro 1	-6.00%	[-99.00 .. 99.00]
Regulación de la suavidad de marcha del cilindro 2	3.00%	[-99.00 .. 99.00]
Regulación de la suavidad de marcha del cilindro 3	-40.00%	[-99.00 .. 99.00]
Regulación de la suavidad de marcha del cilindro 4	3.00%	[-99.00 .. 99.00]
Regulación de la suavidad de marcha del cilindro 5	7.00%	[-99.00 .. 99.00]
Regulación de la suavidad de marcha del cilindro 6	31.00%	[-99.00 .. 99.00]

Datos periféricos :		
Nombre	Valor real	Valor nominal
Número de revoluciones del motor	606.00 1/min	≤ 750.00
Par de giro del motor	54.00Nm	

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[Ariel Guzman](#) 71 posts since Nov 13, 2015

Re: Intake manifold pressure too low Nov 3, 2020 12:54 PM

I'd forgotten that that cracked turbo is only 8 months old.



[Penske Columbus East](#) 2 posts since Aug 6, 2020

Re: Intake manifold pressure too low Dec 31, 2020 12:45 AM

Well after many months on and off trying to find a fix for our issue we finally found the wastegate control actuator to be bad. When testing on the truck and checking pressure it was fine. Truck would be good for a few days and valve would stick. Prior to this truck had new 1 box, new turbo, new engine harness, new mcm, new intake throttle valve, new intake pressure sensor, second new turbo after seeing compressor wheel had slight damage. After all that we tried the wastegate actuator solenoid and truck has been good for over a month now for spn 102 fmi 18. Fault would come back on after a week before.