

Emission test nominal data

for BMW cars and MINI cars

Data record: 9681 (ECE)

Date of issue: 05/2009



1. Vehicle data

Model: 116i	BMW type code number: UE31
E series: E87	Engine power: 90 kW / 6000 rpm
Engine model: N43B16O0	
Displacement: 1599 cc	
Type of pollutant: EU4	
Registration number: N43B16AA	
Vehicle version: saloon	
EC homologation number: e1*2001/116*0287*--	
Special technical features: DI2 (Direct Injection; L>1)	
Status: 09 / 2007 -	

2. Nominal values (SI engine w. cat. converter)

Catalytic converter conditioning: -	HC content, idle speed*: 200 ppm
Shifting: manual gearshift	HC content, part load*: 100 ppm
Engine temperature: 70 °C / alternatively: oil temperature 60 °C	Idle speed: 680 - 870 /min
CO content, idle speed: = 0,2 % v/v	Part-load engine speed: 2300 - 2700 /min
CO content, part load = 0,2 % v/v	Exhaust extraction point: Measurement at tailpipe
Lambda value: 0.97-2.3	Number of tail pipes : -
Read out OBD data: MIL + RC + P code + if RC incomplete: Read out values of exhaust-oxygen control sensors	Number of exhaust systems: -
Basic OBD method:	<u>OBD</u>
	Test rpm: 680 - 870 rpm
	Probe type: Broadband sensor LSU 4.2
	Lambda min.: .97
	Lambda max.: 2.3
	Current min.: -.115 mA
	Current max.: 1.325 mA
	Voltage increase min.: -
	Voltage min.: -
	Voltage max.: -

*Note: HC values do not apply to exhaust inspections acc. to §47a from StVZO in Germany and in countries of the European Community, if guideline 92/55/EC or 96/96 EC is applied!

3. Engine-speed pickoff

Engine-speed pickoff: 16-pin OBD plug, pin 5 = ground, pin 9 = signal

Pulses / revolutions: 2

Installation location: Under protective cover on the left A pillar

Type of OBD: EOBD in accordance with 98/69/EC

OBD data log: ISO 14230-4

Transfer rate: 10.4 kB/sec

Number of OBD-relevant control units: 1

4. Visual inspections

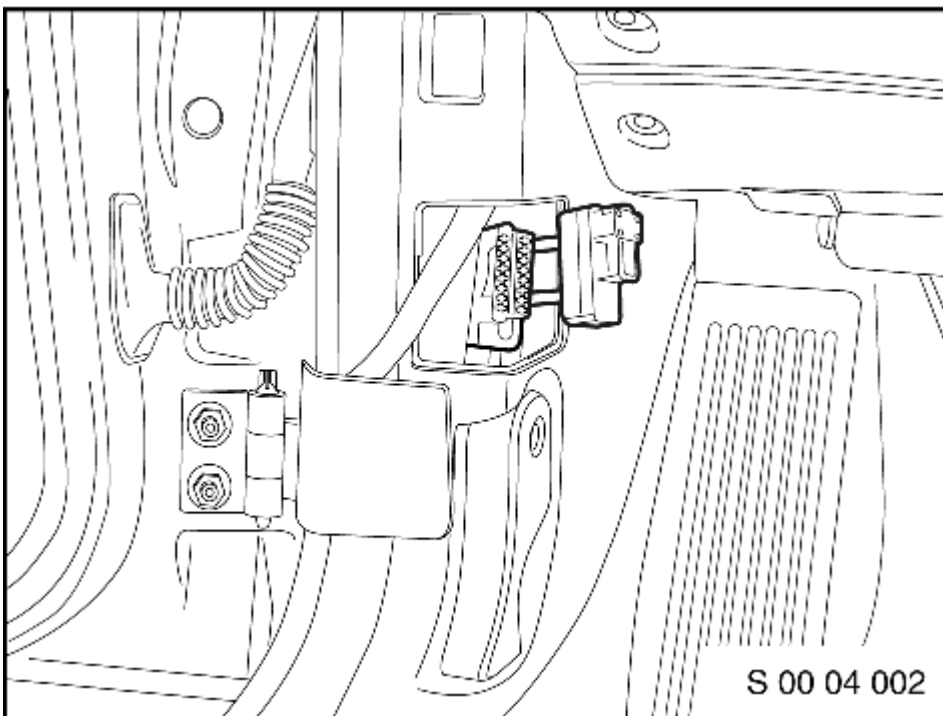
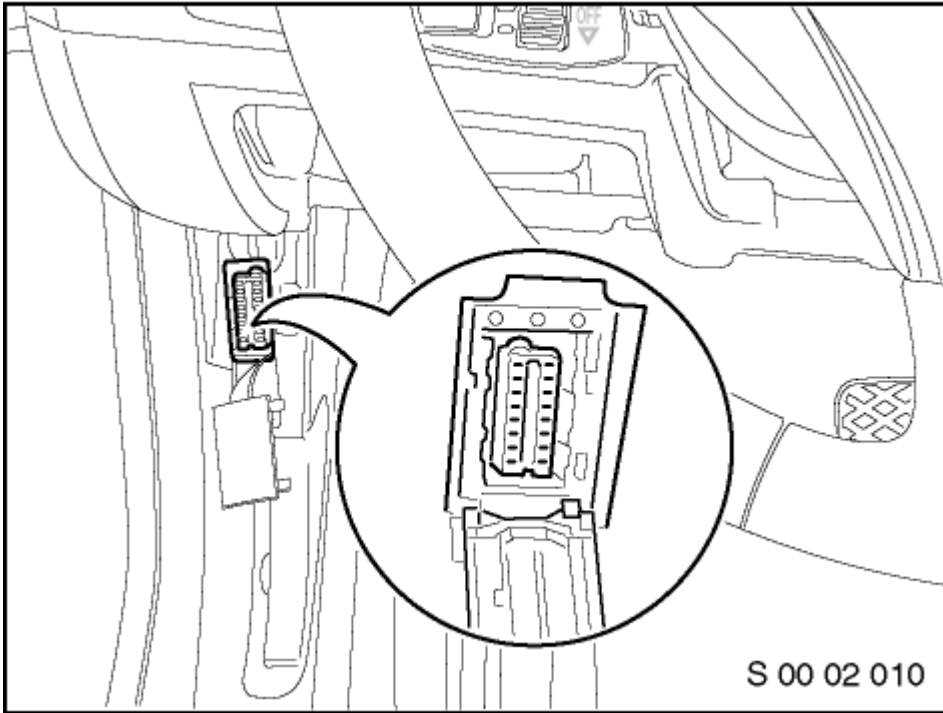
restricted tank filler neck : yes

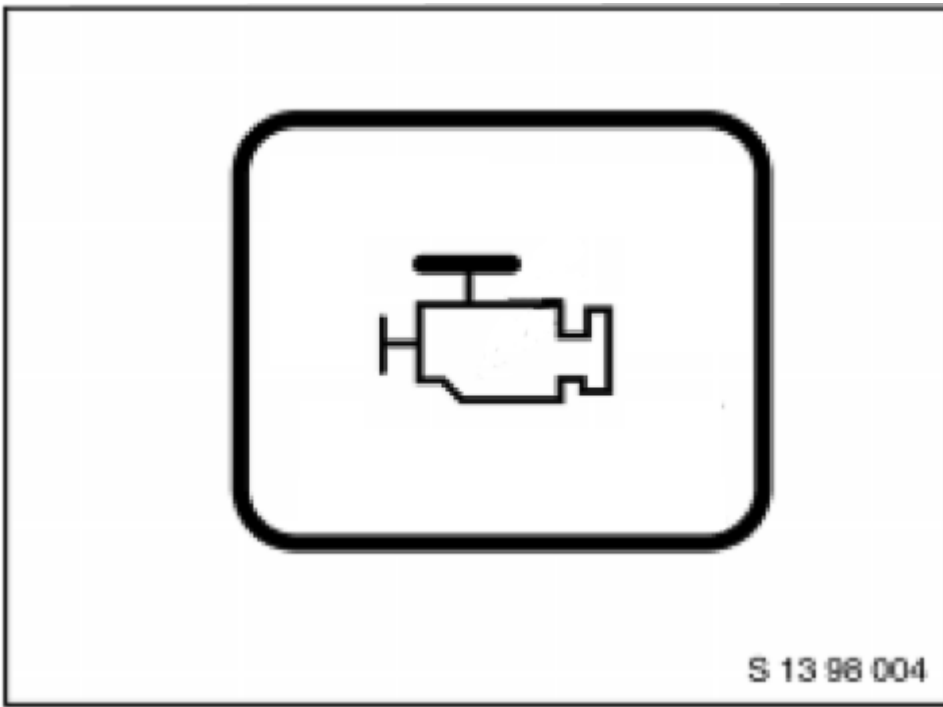
catalytic converters : 1 catalytic converter near the engine, integrated on the exhaust manifold (4 in 1), 1 underbody NOx memory cat.

oxygen sensors : 1 control sensor LSU4 at the input to the catalytic converter, 1 monitor sensor at the output from the catalytic converter, 1 temperature sensor in front of, 1 NOx sensor after the storage catalytic converter.

active carbon filter
tank breather valve
engine control unit : MSD81
Retainer on fuel filler cap : yes
secondary air-pump : no
OBD socket : yes
MIL : warning lamp in combi

5. Figure





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