

## THE LIST:

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Instructions to access the hidden OBC functions:

1. Hold Trip Reset while turning ignition key to on position
2. OBC should show "Test"
3. Use Trip Reset to select function 19.0 that unlocks all the features
3. Wait for display to show "Off"
4. Depress Trip Reset for 1/4 second and release it
5. With no delay press Trip Reset several times to select one of the following function s

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### BMW E46 On-Board Computer (OBC) Hidden Codes

nr example description

#### 1 Car Engine and cluster data

- 1.0 46nnn Chassis nr/VIN serial number (last 5 digits)
- 1.1 4nnn K-number
- 1.2 690236 Cluster Part #
- 1.3 045210 Coding (04)/diagnosis (52)/bus index (10)
- 1.4 1200 Week (12)/year of manufacture (2000)
- 1.5 09\_160 Hardware (09) and software # (16.0) of cluster
- 1.6 Not used
- 1.7 04\_\_44 CAN-version (04) KI-revision index (44)

2 (test) Cluster System Test - Activates the gauge drivers, indicators and LEDs to confirm function

#### 3 SI Data

- 3.0 1098 Used fuel in liters since last SI (Service Inspection)
- 3.1 0231 Periodic inspection days; elapsed days (since last SI)

#### 4 Momentary Consumption

- 4.0 0145+ Instant fuel consumption - 0145=14.5 liters/100km
- 4.1 0018 Instant fuel consumption - 0018=1.8 l/Hour

#### 5 Distance Gone Consumption

- 5.0 082 Average mileage; 082=8.2 liters/100km
- 5.1 0536 Calc. km to refuel (momentary distance to go)

#### 6 Fuel Level sensor inputs in liters

6.0 109330+ Fuel level averaged; Left half sensor input=10.9 liters; Right sensor input=33.0 liters

6.1 0439+ Total tank level averaged; vlg 6.0: 10.9+33.0=43.9 liters

6.2 0442+ Indicated value (44.2) and tank phase

#### 7 Temperature and Speed

7.0 021+ Coolant/Engine temperature (2.1C)

7.1 130 Ambient/Outside temperature - chg met 5 pts. 125/130/135  
7.2 + Engine speed / Current RPMs 1/min  
7.3 + Vehicle speed / Current Speed in km/hour  
8 Input value in HEX form  
8.0 1d0+ System voltage ADC-Value Hex code  
8.1 26C33C+ ADC Values HG left/HG right  
8.2 0000 ADC Value brake degradation sensor (000=o.k.)  
8.3 18C ADC Value outside temperature  
9 Battery  
9.0 140 Battery Voltage - 140 = UB 14.0v  
9.1 242013+?  
9.2 074\_78+?  
9.3 0011+?  
10 Not used  
11 Not used  
12 Not used  
13 Gong Gong Test  
14 Not used  
15 Status cluster I/O-ports (bit codes) 0=low; 1=high  
1st-belt contact, seat belt fastened=0; 2) ignition lock contact, key inserted=0; 3) door contact, door open=0; 4) clock button pressed=0; 5) SI reset=0, for reset=0; 6) EGS transmission failure=0  
Status Digital Outputs (bits) 0=inactive, 1=active  
1) Gong output; 2) Brake warning lamp; 3) Low fuel warning lamp; 4) EGA lamp; 5) seat belt lamp; 6) manipulation dot  
16 Not used  
17 Not used  
18 Not used  
19 Lock Status; unlocks functions in range 3-18  
19.0 L-On/L-Off Unlock: press button when "L-Off"  
20 Not used  
21 Software Reset; reset OBC settings  
00 End of test