

# BMW E60 M5: Hidden OBC Menu

(OBC = On Board Computer)

It appears that there is a hidden OBD menu which shows all sorts of weird and wonderful information.

To access the menu follow these steps:

1. Ensure your engine is OFF but ignition is in stage 2. (For those with comfort access just press the start/stop button twice once in the car without your foot on the brake)
2. Press and hold the odometer reset button (from now on I shall just call it the button) for 6 seconds, during which it will show an oil icon:



then a warning triangle:



...keep holding and release when it shows:

**01.\_\_\_\_**  
**FGSTNR**



3. After a second or two the **01.\_\_\_\_** will be updated with **01.00** and the last 7 characters of your VIN/Chassis # will show:  
**01.00**  
**FGSTNR**  
**CU12345**  
 Make a note of the numbers, this is important as you will need them in a minute to unlock all the menus because at present you can only access menu 01.\_\_\_\_, 02.\_\_\_\_ and 19.\_\_\_\_
  
4. Now that you have made a note of your VIN number you need to add all the individual digits together so if your VIN was CU12345  
 Then you need to do:  
 $1+2+3+4+5 = 15$   
 This number [15 in this example] is you magic unlock number and is needed for step 6.
  
5. Press and hold the button for two seconds until it shows  
*(press button 2 seconds)*  
**01.\_\_\_\_**
  
6. Whilst it is displaying **01.\_\_\_\_** repeatedly press the button to cycle through the menu's incrementally:  
**01.\_\_\_\_**  
*(press button)*  
**02.\_\_\_\_**  
*(press button)*  
**03.\_\_\_\_**  
*(press button)*  
 until you get to **19.\_\_\_\_** at which point stop and wait for it to show  
**19.00**  
**LOCK: ON**  
**CODE: 00**  
 Now press the button repeatedly to increment the CODE eg:  
*(press button)*  
**CODE: 01**  
*(press button)*  
**CODE: 02**  
*(press button)*  
**CODE: 03**  
*(press button)*  
 ...until you get to the number you calculated in step 4, your unlock code, in this example 15:  
**CODE: 15**
  
7. Once you have reached your unlock code wait a few seconds and it should jump you back to **01.00** and all the other menus will be available.

8. There are 21 top level menus and some have sub-menu's, for example:

**01. \_\_**  
    **01.00**  
    **01.01**  
    **01.02**  
    **01.03**  
**02. \_\_**  
    **02.00**  
**03. \_\_**  
    **03.00**  
**04. \_\_**  
    **04.00**  
    **04.01**  
    **04.02**  
    etc

9. To change top level menu's press the button for 2 seconds until the last two digits turn to underscores (**XX. \_\_**) then release the button and quickly press the button repeatedly to increment through the top level menu's, e.g.:

*(press button 2 seconds)*

**01. \_\_**  
*(press button)*  
**02. \_\_**  
*(press button)*  
**03. \_\_**  
etc

Once you arrive at the menu you want to go into just wait a few seconds and the two underscores will be replaced by double zeroes (XX.00) and every subsequent press of the button will cycle you through the selected menu's sub menu:

**04. \_\_** *(wait few seconds)*  
**04.00**  
*(press button)*  
**04.01**  
*(press button)*  
**04.02**  
*(press button)*  
**04.03**

10. Some menus don't have sub menus so waiting for the to display **XX.00** and then pressing the button again will activate that feature, try it on menu **02.00** and it will carry out a dashboard test and move all the needs. Press and hold the button for two seconds until the last two digits turn to underscores then release and keep pressing the button until it shows:

**02.\_\_**


(press button)

**02.00**

(press button)

Dashboard will do strange things:





Ok so that's a run down on how to access the menus and move around the different levels of the menus. I systematically accessed each menu and it's sub menus and photographed each one to create a rough guide as to what is shown, most things I haven't got a clue what they are but some things like current true speed, rpm and rpm limit are useful.

01.__	Displayed	Name	Value	Description	Image
	01.00	FGSTNR (Fahrzeug ?? Nummer)	CU173XX	Last 7 digits of VIN / chassis number	
	01.01	K-ZAHL W/T	7336 / 73004		

	01.02	BMWTNR	000007839 298		
	01.03	COD DIA	0006h 06E0h	Diagnostic Code	
	01.04	KI HSTLDATU M	11.11.2005	Instrument Panel Manufacturing Date	

	01.05	HW AEI	0204h 0033h		 <p>www.m5board.com</p> <p>01.05 HW AEI 0204h 0033h</p> <p>SCOOPZ</p>
	01.06	SW	69.51.01	Software Version	 <p>www.m5board.com</p> <p>01.06 SW 69.51.01</p> <p>SCOOPZ</p>
	01.07	KODIERDA TEN	08.02.19.04		 <p>www.m5board.com</p> <p>01.07 KODIERDATEN 08.02.19.04</p> <p>SCOOPZ</p>




	01.08	CAN	00 16 109	CAN or MOST BUS version?	
02.____				Instrument Panel Test	
	02.00	KI TEST		Screen shot 01 of instrument panel test in operation	
				Screen shot 02 of instrument panel test in operation	

				Screen shot 03 of instrument panel test in operation	
03.____					
	03.00	UNBELEGT		Not used	
04.____					
	04.00	VERB-MOM	00.0 l/100km	Current fuel consumption in litres/100km	



	04.01	VERB-MOM	00.0 l/h	Current fuel consumption in litres/hour	 <p>A red digital display showing three lines of orange text: '04.01', 'VERB-MOM', and '00.0 l/h'. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>
	04.02	D-VERB1 LIT	291.7 l	Numbers of litres used when calculating mpg for computer	 <p>A red digital display showing three lines of orange text: '04.02', 'D-VERB1 LIT', and '291.7 l'. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>
	04.03	D-VERB1 WEG	1429.2 km	Number of km covered using the number of litres of fuel in 04.02 above.	 <p>A red digital display showing three lines of orange text: '04.03', 'D-VERB1 WEG', and '1429.2 km'. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>

	04.04	D-VERB2 LIT	1133.9 l	Numbers of litres used when calculating mpg for journey	
	04.05	D-VERB2 WEG	5604.4 km	Number of km covered using the number of litres of fuel in 04.04 above.	
05.____					
	05.00	RW-VERB	17.1 l/100km		

	05.01	RW-MOM	0132.5 km	Range remaining on current fuel, calculated from 5.00	
06.____					
	06.00	TANK L R S	00.6 22.1 22	Number of litres of fuel remaining in both the left and the right tank. Final figure seems to be rough sum of the pair.	
	06.01	TANK-ANZ PH	22.6   1	Average litres of fuel remaining	


	06.02	TANK-ADC L R	058h 220h		
07.____					
	07.00	KTMP- MOM	85 °C	Coolant temperature	
	07.01	ATMP- MOM	18.5 °C	Outside temperature	

	07.02	ATMP-ADC	126h		 <p>A red digital display showing three lines of yellow text: '07.02', 'ATMP ADC', and '126h'. A watermark 'www.m5board.com' is visible diagonally across the top right, and 'SCOOPZ' is at the bottom right.</p>
	07.03	N-MOT-MOM	0000 U/min	Current engine revs per minute (engine was off)	 <p>A red digital display showing three lines of yellow text: '07.03', 'N-MOT-MOM', and '0000 U/min'. A watermark 'www.m5board.com' is visible diagonally across the top right, and 'SCOOPZ' is at the bottom right.</p>
			0787 U/min	Current engine revs per minute (engine on, engine warm idle speed after a few minutes)	 <p>A red digital display showing three lines of yellow text: '07.03', 'N-MOT-MOM', and '0787 U/min'. A watermark 'www.m5board.com' is visible diagonally across the top right, and 'SCOOPZ' is at the bottom right.</p>




			0957 U/min	Current engine revs per minute (engine was on, immediate cold idle speed for roughly two minutes)	
			1388 U/min	Current engine revs per minute (engine on with moderate throttle)	
07.04	N-VWF-MOM		7350 U/min	This shows the current level of the "yellow" zone of the tachometer which increases as the engine warms up. See picture below showing this figure on dial.	




				7350 on dash	
			7750 U/min	Figure increases in blocks of 50rpm and is coupled with an movement of the rev limiter bar. See picture below.	
				7750 on dash	




08.____	08.00	V-EFF	Current true speed in km/h	
	08.01	V-ANZ	Current speed indicated to driver via dash and HUD. This is always a few km/h higher than the actual speed.	
	08.02	V-SZ	Speed cruise control set to.	

08.03	DGESCH1 WEG		
08.04	DGESCH1 ZEIT		
08.05	DGESCH2 WEG		


	08.06	DGESCH2 ZEIT		
09.____	09.00	UB	Battery Voltage Jumped from 12v to 14v once engine started.	
10.____	10.00	KM / WOCHE	Km / week ?	


10.01	GELB CBS H A		
10.02	SC- STATUS		
10.03	CBS- MODE		






	10.04	TAG-ZAEHLER		
11. _	11.00	ZEIT-EINH	Time format	
	11.01	WEG-EINH	Distance format In this case km/h but I change via i-drive to miles to see if it was affected, see below	



			Distance format after changing from km to mls on i-drive settings.	
11.02	TEMP-EINH		Temperature format.	
11.03	VERB-EINH		Consumption format	

12.____	12.00	V- ANKUNFT		Avg speed used to estimate time of arrival	
	12.01	ANK-ZEIT		Estimated time of arrival based on speed above.	
13.____	13.00	AUDIO		Sound Test  Press button to play BLINKER sound (i.e. indicator sound)	

				Whilst playing indicator sound it displays this.	
14.00	FS-EINTRAEGE	1			
14.01	FSP01 A557h	28000AB00 332			

14.02	FSP02	---		
14.03	FSP03	---		
14.04	FSP04	---		

14.05	FSP05	---		
14.06	FSP06	---		
14.07	FSP07	---		



14.08	FSP08	---		
14.09	FSP09	---		
14.10	FSP10	---		






15.					<p>A red LED display showing the text: 15.00, PORT 00h, and 01111000. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>
	15.00	PORT 00h	01111000		
					<p>A red LED display showing the text: 15.01, PORT 01h, and 00000001. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>
	15.01	PORT 01h	00000001		
					<p>A red LED display showing the text: 15.02, PORT 02h, and 11111100. A watermark 'www.m5board.com' is visible at the top, and 'SCOOPZ' is at the bottom right.</p>
	15.02	PORT 02h	11111100		

15.03	PORT 03h	00000011		
15.04	PORT 04h	00000000		
15.05	PORT 05h	00001110		

15.06	PORT 06h	00000000	
15.07	PORT 07h	00101000	
15.08	PORT 08h	10001000	

15.09	PORT 09h	00111011		
15.10	PORT 0Ah	00100010		
15.11	PORT 0Bh	00111000		

16.00	DIMMRAD-CAN	FDh	Dashboard lighting?	
16.01	PHOTO-ADC	09Bh	Photo sensor signal (could be for auto-dim mirrors, HUD brightness, auto-lights, high-beam assist or simply the dashboard brightness as mentioned above which changes in varying light conditions)	
16.02	DIMM-PWM S Z	FEh FEh		



	16.03	DIMM- PWM D K	??h A?h		 <p>www.m5board.com</p> <p>16.03 DIMM-PWM D K 80h A0h</p> <p>SCOOPZ</p>
17.00	17.00	DISP-HEIZ	Aus iO		 <p>www.m5board.com</p> <p>17.00 DISP-HEIZ Aus iO</p> <p>SCOOPZ</p>
17.01	17.01	NTC1 NTC2	1F9h ---h		 <p>www.m5board.com</p> <p>17.01 NTC1 NTC2 1F9h ---h</p> <p>SCOOPZ</p>



	17.02	KONTR-PWM	86h		
18.____	18.00	CC-TEST?		<p>Check Control Tests</p> <p>Pressing the button will make it cycle through the warning icons below, with audible warning and text description on i-drive screen.</p>	
				<p>High Rate of Battery Discharge and many other warnings.</p>	

Release parking brake.






Lights left on.



SOS call not possible. No mobile phone found.





				Brake pad warning	
19.00	LOCK: ON	CODE: 00	19.00	<p>Unlock Menu</p> <p>Initial screen showing all menu's except 01, 02 and 19 are locked.</p> <p>Every subsequent press of the button increases the code.</p>	
				<p>Button been press 13 times to increment code to 13.</p> <p>You need to calculate your unlock code by adding up the last 5 digits of your VIN number which is listed in 01.00.</p>	

				<p>Here the unlock code is 17 and once 17 is reached a pause for a few seconds will unlock the other menus.</p>	
		LOCK: OFF		<p>This is what is displayed once the menus have been unlocked (it may jump back to 01.00 upon first unlocking)</p>	
20.	20.00	KORR- VERBR	1000		

20.01	1er KORR	1003		 <p>www.m5board.com</p> <p>20.01 1er KORR 1003</p> <p>SCOOPZ</p>
20.02	10er KORR	1034		 <p>www.m5board.com</p> <p>20.02 10er KORR 1034</p> <p>SCOOPZ</p>
20.02	100er KORR	1244		 <p>www.m5board.com</p> <p>20.03 100er KORR 1244</p> <p>SCOOPZ</p>



21.____	21.00	RESET?	<p>Well the name says it all. What exactly it resets I do not know but for those not brave enough to try it, I did ☺ and you get rewarded with the image below. You press the button to reset.</p>	
			<p>Image shown once you select reset option. It didn't seem to reset much except my trip mileage, the date, time and units. All navigation, radio, Bluetooth, etc remain untouched by this reset.</p>	

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