

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		 www.m5board.com 01.02 BMWTNR 000007839298 SCOOPZ
	01.03	COD DIA	0006h 06E0h	Diagnostic Code	 www.m5board.com 01.03 COD DIA 0006h 06E0h SCOOPZ
	01.04	KI HSTLDATU M	11.11.2005	Instrument Panel Manufacturing Date	 www.m5board.com 01.04 KI HSTLDATUM 11.11.2005 SCOOPZ

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

	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	UNBELEG T		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	
	04.02	D-VERB1 LIT	291.7 l	Numbers of litres used when calculating mpg for computer	
	04.03	D-VERB1 WEG	1429.2 km	Number of km covered using the number of litres of fuel in 04.02 above.	

	04.04	D-VERB2 LIT	1133.9 l	Numbers of litres used when calculating mpg for journey	 A digital display with a red background and yellow text. The text reads '04.04', 'D-VERB2 LIT', and '1133.9 l'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
	04.05	D-VERB2 WEG	5604.4 km	Number of km covered using the number of litres of fuel in 04.04 above.	 A digital display with a red background and yellow text. The text reads '04.05', 'D-VERB2 WEG', and '5604.4 km'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
05.____					
	05.00	RW-VERB	17.1 l/100km		 A digital display with a red background and yellow text. The text reads '05.00', 'RW-VERB', and '17.1 l/100km'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.

	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		 A screenshot of the M5 board's red LED display. The text shown is '07.02' on the first line, 'ATMP ADC' on the second line, and '126h' on the third line. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
	07.03	N-MOT-MOM	0000 U/min	Current engine revs per minute (engine was off)	 A screenshot of the M5 board's red LED display. The text shown is '07.03' on the first line, 'N-MOT-MOM' on the second line, and '0000 U/min' on the third line. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
			0787 U/min	Current engine revs per minute (engine on, engine warm idle speed after a few minutes)	 A screenshot of the M5 board's red LED display. The text shown is '07.03' on the first line, 'N-MOT-MOM' on the second line, and '0787 U/min' on the third line. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.

			0957 U/min	Current engine revs per minute (engine was on, immediate cold idle speed for roughly two minutes)	 A digital tachometer display with a red background and orange text. The top line shows '07.03', the middle line shows 'N-MOT-MOM', and the bottom line shows '0957 U/min'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is visible in the bottom right corner.
			1388 U/min	Current engine revs per minute (engine on with moderate throttle)	 A digital tachometer display with a red background and orange text. The top line shows '07.03', the middle line shows 'N-MOT-MOM', and the bottom line shows '1388 U/min'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is visible in the bottom right corner.
	07.04	N-VWF-MOM	7350 U/min	This shows the current level of the "yellow" zone of the tacho which increase as the engine warms up. See pic below showing this figure on dial.	 A digital tachometer display with a red background and orange text. The top line shows '07.04', the middle line shows 'N-VWF-MOM', and the bottom line shows '7350 U/min'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is visible in the bottom right corner.

				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			 A red digital display with orange text. The top line shows '08.06', the middle line shows 'DGESCH2 ZEIT', and the bottom line shows '21h 14m 31s'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
09.____					
	09.00	UB		Battery Voltage Jumped from 12v to 14v once engine started.	 A red digital display with orange text. The top line shows '09.00', the middle line shows 'UB', and the bottom line shows '12.0 V'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.
10.____					
	10.00	KM / WOCHE		Km / week ?	 A red digital display with orange text. The top line shows '10.00', the middle line shows 'KM / WOCHE', and the bottom line shows '380d'. A watermark 'www.m5board.com' is visible diagonally across the top, and 'SCOOPZ' is in the bottom right corner.

	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.	 www.m5board.com 11.01 WEG-EINH mls mph SCOOPZ
	11.02	TEMP-EINH		Temperature format.	 www.m5board.com 11.02 TEMP-EINH °C SCOOPZ
	11.03	VERB-EINH		Consumption format	 www.m5board.com 11.03 VERB-EINH mpg US SCOOPZ

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	14.00	FS-EINTRAEGE	1		
14.01	14.01	FSP01 A557h	28000AB00332		

	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.					
	15.00	PORT 00h	01111000		
	15.01	PORT 01h	00000001		
	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.					
	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		
17.____					
	17.00	DISP-HEIZ	Aus iO		
	17.01	NTC1 NTC2	1F9h ---h		

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

				Release parking brake.	 A red emergency light with the word "PARK" in yellow capital letters above a yellow circular symbol containing a "P". A diagonal watermark "www.m5board.com" is visible across the top right, and "SCOOPZ" is in the bottom right corner.
				Lights left on.	 A yellow emergency light with a symbol resembling "DOO" in yellow. A diagonal watermark "www.m5board.com" is visible across the top right, and "SCOOPZ" is in the bottom right corner.
				SOS call not possible. No mobile phone found.	 A yellow emergency light with a yellow "SOS" symbol crossed out by a large "X". A diagonal watermark "www.m5board.com" is visible across the top right, and "SCOOPZ" is in the bottom right corner.

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

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

	20.01	1er KORR	1003		
	20.02	10er KORR	1034		
	20.02	100er KORR	1244		

21.____					
	21.00	RESET?		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.	
				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.	

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