



## Show diagnostic information on the trip computer..... By Steven

It is possible to show diagnostic information on the trip computer. Here are the instruction on how to do it and whats shown.

[b]To enable the OBC diagnostics:[/b]

- a) Press and hold the trip reset button.
- b) Put key into ignition switch and turn to KLR (Ignition switch position #1) If you want to drive whilst showing trip details then start the engine keeping the trip button depressed.
- c) Your LCD display will show something like this "test 1.-"
- d) Press the reset button till you get to "test 19.-". (19.0 unlocks all the features)
- e) Wait for display to show "Log I -off" and press the reset button
- f) With no delay press Trip Reset several times to select one of the following functions:

[b]1 Car, Engine and cluster data[/b]

- 1.0 VIN serial number
- 1.1 K-number
- 1.2 Cluster Part Number
- 1.3 Coding (04)/diagnosis (52)/bus index (10)
- 1.4 Week of manufacture (eg. 1200 = week 12)/year of manufacture (eg. 2000)
- 1.5 Hardware number (eg. 09) and Software number (eg. 11600 = 16.0) of IPK.
- 1.6 Injection Status-number of cylinders-motor number

[b]2 Cluster System Test[/b]

2.0 Activates the gauge drivers, indicators and LEDs to confirm function.

When function 2.0 is selected, the instrument pack provides a check of the warning lamps, major and minor gauges, displays and illumination functions. The gauge pointers are driven through their full arc and back again to check operation. All warning lamps are illuminated to check that none of the LEDs have failed. All yellow and red pixels of the message centre are flashed on and off in a chequered pattern to check that all elements of the display are functional.

[b]3 Service Inspection (SI) Data[/b]

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

[b]4 Momentary Consumption[/b]

- 4.0 Momentary fuel consumption in litres/100km (eg. 0145 = 14.5 litres/100km)
- 4.1 Momentary fuel consumption in litres/hour (eg. 0018 = 1.8 l/hr)

[b]5 Distance Gone Consumption[/b]

- 5.0 Average consumption in litres/100km (eg. 082 = 8.2 litres/100km)
- 5.1 Calculate distance ( km) to refuel (momentary distance to go)

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[b]6 Fuel level sensor outputs in litres (Fuel tank has left and right side sensors)[/b]

6.0 Fuel levels both (eg: 109330 means left half sensor = 10.9 litres; right half sensor = 33.0 litres)

6.1 Total tank level (eg: 0439 is  $10.9 + 33.0 = 43.9$  litres)

6.2 Indicated value with diagnostics: The Test Number (6.2) is preceded by 1, 2 or 3 (eg. 1-6.2 or 2-6.2 or 3-6.2)

If first digit is 1 - both sensors are OK. This is followed by three left signal digits, then three right signal digits.

If first digit is 2 - one sensor has an error. Side in error will display - - 0. Functional side will show its three digits

If first digit is 3 - no sensor signal, no display. Probably - - 0 - - 0 (Needs confirming -TC)

[b]7 Temperature and Speed[/b]

7.0 Coolant/Engine temperature - changes every whole degree Centigrade. (eg: 021 + is 21°C)

7.1 Ambient/Outside temperature - changes every 0.5 degree Centigrade. (eg. 125/130/135 is 12.5°/13.0°/13.5°C)

7.2 Engine speed / Current (RPM)

7.3 Vehicle speed / Current Speed (km/hour)

[b]8 Values of 7.0 to 7.3 in HEX form (Unknown)[/b]

[b]9 Battery[/b]

9.0 Battery Voltage (eg: 137 = 13.7v)

[b]10.0 Country code[/b]

[b]11.0 Unit code[/b]

[b]12.0 Not used[/b]

[b]13.0 Gong test[/b]

This tests the lights on gong which chimes when you open the door. The same gong is used in the speed limit warning for models with the trip computer.

[b]14.0-14.4 Error memory[/b]: if 000000 no error in memory

[b]15.0 - 18.0[/b] not used

[b]19 Lock Status: unlocks functions in range 1-18 and 20.[/b]

19.0 Log I -On/Log I -Off Locks/Unlocks diagnostic regime: To access, press button when Log I -Off shows

[b]20 Correction Factor for OBC Fuel Consumption display[/b]

20.0 The Factor is displayed numerically in the form ABCD (Thousands/hundreds/tens/units)

The formula for the Factor =  $\text{Indicated Consumption} \times 1000 / \text{Measured Consumption}$

The indicated consumption should be established by running the system for several hundred miles, preferably a thousand or so without resetting the OBC at any stage. The longer you allow the un-reset system to operate, the more 'accurate' is the indicated consumption. Determine the measured consumption using brim to brim calculations over a similar period. Now calculate your more accurate factor using the formula above. These digits are what you insert for ABCD.

Press the button to show 20.1 which allows the units (D) to be set.

The display counts down from the current figure and cycles until you press at the required one.

This sets it and the display will advance to 20.2

20.2 This allows the 'tens' (C) to be set as above. When you press the set button, the display advances to 20.3

20.3 This sets the 'hundreds' (B) and then the 'thousands' (A). Each digit is set in succession by a single press.

After setting (A), the display advances to the next function (21.0)

[b]21.0 Software Reset[/b]

Resets OBC settings. Do not press this.

You may now drive the car with the selected display showing for the duration of the journey.

Turn off the ignition to exit Diagnostic Mode.