



How to access 75/ZT diagnostics and car data via the Instrument Pack (IPK)..... By Mike additional info by Steven.

Rover 75/MG ZT - Diagnostics access via the Instrument Pack

To enable the OBC diagnostics:

- a) Press and hold the trip reset button.
- b) Put key into ignition switch and turn to KLR (Ignition switch position #1)
- 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:

#### 1 Car, Engine and cluster data

##### 1.0 VIN serial number

##### 1.1 K-number

##### 1.2 Cluster Part #

##### 1.3 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 Injection Status-number of cylinders-motor number

#### 2.0 2 Cluster System Test - Activates the gauge drivers, indicators and LEDs to confirm function

#### 3 Service Inspection (SI) Data

##### 3.0 Used fuel in liters since last SI

##### 3.1 Periodic inspection days; elapsed days (since last SI)

#### 4 Momentary Consumption

##### 4.0 Instant fuel consumption - 0145=14.5 liters/100km

##### 4.1 Instant fuel consumption - 0018=1.8 l/Hour

#### 5 Distance Gone Consumption

##### 5.0 Average mileage; 082=8.2 liters/100km

##### 5.1 Calc. km to refuel (momentary distance to go)

#### 6 Fuel Level sensor inputs in liters

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6.0 Fuel level averaged; 109330 - Left half sensor input=10.9 liters;  
Right sensor input=33.0 liters  
6.1 Total tank level averaged; 0439 - vlg 6.0:  $10.9+33.0=43.9$  liters  
6.2 Indicated value and diagnostics:  
last digit: 1 - both sensors ok; 2 - sensor error; 3 - signal error  
- no display

## 7 Temperature and Speed

7.0 021+ Coolant/Engine temperature (21C)  
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 Values of 7.0 bis 7.3 in HEX form

## 9 Battery

9.0 140 Battery Voltage - 140 = UB 14.0v

10.0 Country code

11.0 Unit code

12.0 Not used

13.0 Gong test

14.0-14.4 Error memory: if 000000 no error in memory

15.0 - 18.0 not used

19 Lock Status; unlocks functions in range 3-18

19.0 L-On/L-Off Unlock: press button when "L-Off"

20.0 Correction Factor for OBC Fuel Consumption

Formula for the Correction Factor:  $\text{Indicated Consumption} \times 1000 / \text{Measured Consumption} = \text{Factor (4321)}$

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

Press Reset button to begin setting the of the first (1) digit - press  
reset when the right digit appears

20.1 Setting of the second (2) digit

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20.2 Setting of the hundred (3) and thousand (4) digit

20.3 Store and Display the Correction Factor

21.0 Software Reset; reset 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.