

# OPEL Diagnostic Software User Guide

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# 1. Technical Terms

- AT: Automatic Transmission
- ABS/TCS: Anti Lock Brake Module/Traction Control System
- AHL: Automatic Headlamp Leveling
- BCM: Body Control Module
- CDC: Continuous Damping Control
- CIM: Steering Column Module
- EBCM: Electronic Brake Control Module
- ECC: Electronic Climate Control
- EHPS: Electro hydraulic Power Steering
- EHS: Electrical Heater System
- ESC: Electronic Suspension Control
- HVAC: Heating Ventilation and Cooling
- IPC: Instrument Panel Cluster
- MSM: Memory Seat and Mirrors
- PAS: Park Pilot
- REC: Rear Electrical Centre
- RFA: Remote Function Actuator
- SDM: Sensing and Diagnostic Module
- SLM: Shift Lever Module
- TPMS: Tyre Pressure Monitoring System
- UEC: Underhood Electrical Centre

## 2. Document Brief

### 2.1 About Document

This document introduces how to test OPEL cars with LAUNCH diagnostic tools and the menu selection.

### 2.2 Application Range

It's applicable for Opel and Vauxhall car models.

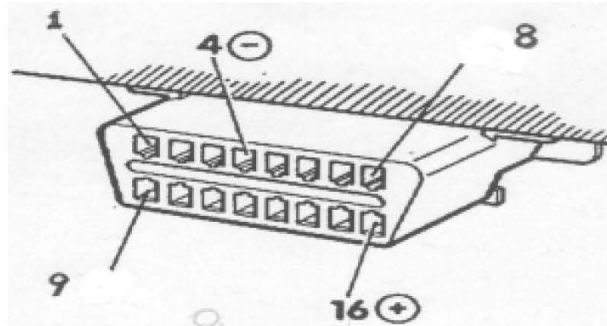
## 3. Content

### 3.1 Content Description

Vauxhall models are the same as Opel models.

## 3.2 OPEL Diagnostic Socket

Opel car uses 16PIN diagnostic socket and has CANBUS and KWP Protocols.



## 3.3 Diagnostic Socket Position

- Meriva-B: Under a plate in front of Park Brake. User must use screw driver to open the plate.
- Meriva: Between the two seats. User can open the plate from the side next to media player.
- Corsa-D: Right ahead the transmission (under media player).
- Astra-H: Between driver and passenger seats. User can remove the cover to find it.
- Zafira-B: Under a plate in front of Park Brake. User can use screw driver to open the plate.
- Vectra-C: In the box under radio. User can remove the cover to find it.
- Insignia: Under steering wheel.
- Vivaro: Under steering wheel. User can remove the cover to find it.
- Antara: In right bottom corner of steering wheel.
- Agila-B: Under steering wheel.
- Tigra-B: In right bottom corner of steering wheel.
- Signum: Between the two seats. User can remove the cover to find it.

## 3.4 Diagnostic Connector Selection

### 3.4.1 X-431

16PIN Diagnostic Socket

- CANBUS protocol requires CANBUS II or SUPER 16 Connector.
- Non-CANBUS protocol requires OBD II – 16C Connector or SUPER 16 Connector (do not use SMART OBD 16 Connector).
- It is recommended to use SUPER 16 Connector as standard.

### **3.4.2 X-431 GX3/MASTER/NCP/3G/GDS/X-431 IV**

16PIN Diagnostic Socket

- Please use SMART OBDII-16 connector.

### **3.4.3 X-431 Diagon**

16PIN Diagnostic Socket

- Please use X-431 DIAGUN connector.

### **3.4.4 X-431 Diagon III/X-431 Pad**

16PIN Diagnostic Socket

- Please use DBSCar connector.

### **3.4.5 X-431 TOP**

16PIN Diagnostic Socket

- Please use universal OBDII-16 connector.

## **3.5 Test Instructions**

Opel diagnostic software tests Opel and Vauxhall car models. Take X-431 for example. Test procedure is as below:

- 1). Select the latest version of OPEL Diagnostic Software. Take V39.93 for example. See Figure 1&2.



Figure 1

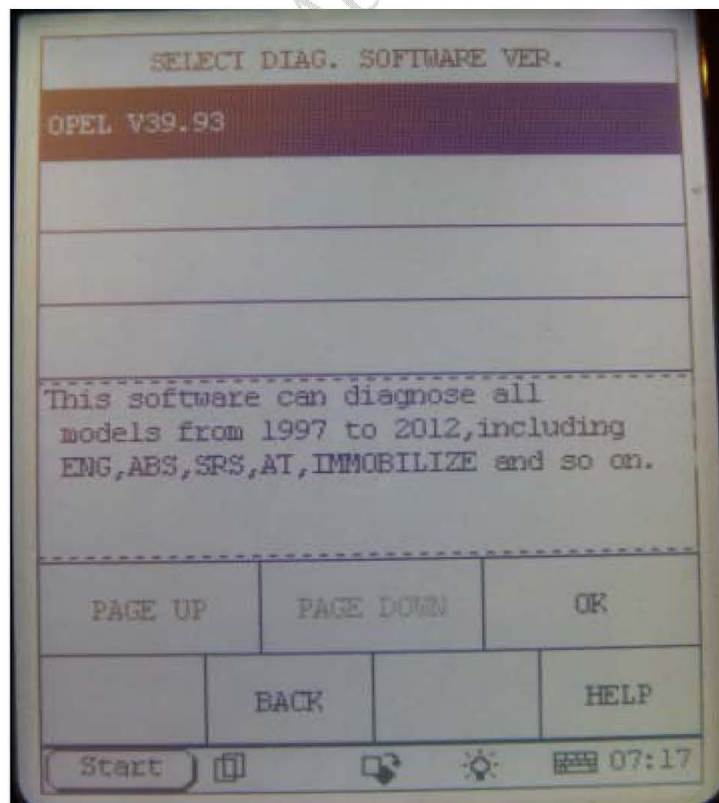


Figure 2

2). After accessing, select diagnosis and select the model year according to the 10<sup>th</sup> character of VIN code (see Table 1). For model year, see Figure 3.

Opel Model Year Table			
V	1997	5	2005
W	1998	6	2006
X	1999	7	2007
Y	2000	8	2008
1	2001	9	2009
2	2002	A	2010
3	2003	B	2011
4	2004	C	2012

Table 1

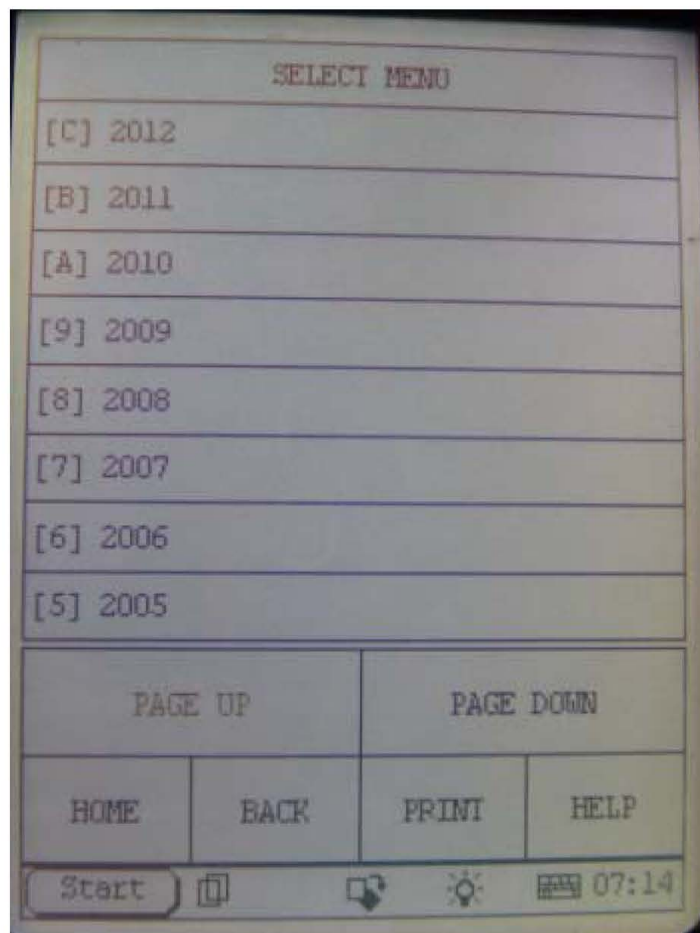


Figure 3

- 3). When testing engine system, please select correct engine type. Method:
- Open car front cover, there's a bar code on the side of the engine. Select according to the engine type displayed on the bar code.
  - For some models, there's no engine type displayed on bar code. In this case, select engine type according to the displacement. The 2<sup>nd</sup> and 3<sup>rd</sup> characters of engine type stand for the displacement. Take 2012 Astra-H for example. If the displacement is 1.7L, user can firstly select Z17DTL to enter the system. If failed, then select Z17DTH, and so forth. See Figure 4&5.

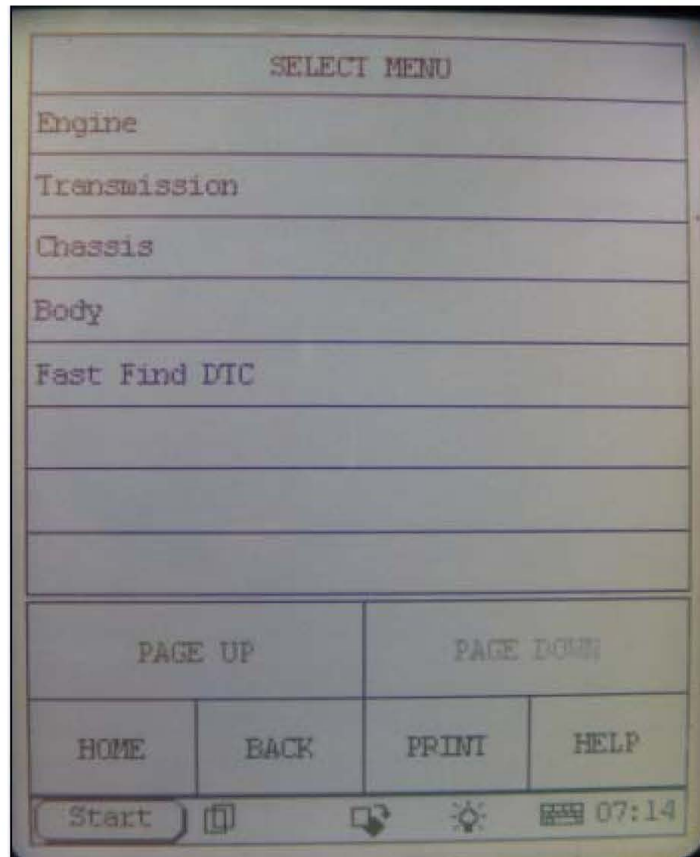


Figure 4

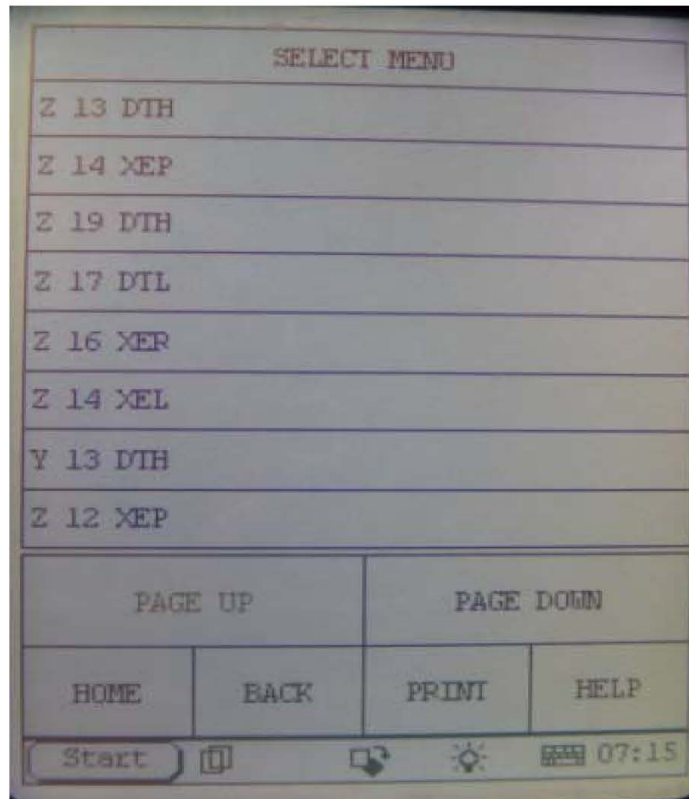


Figure 5

4). Select correct connector according to the prompt. See Figure 6.

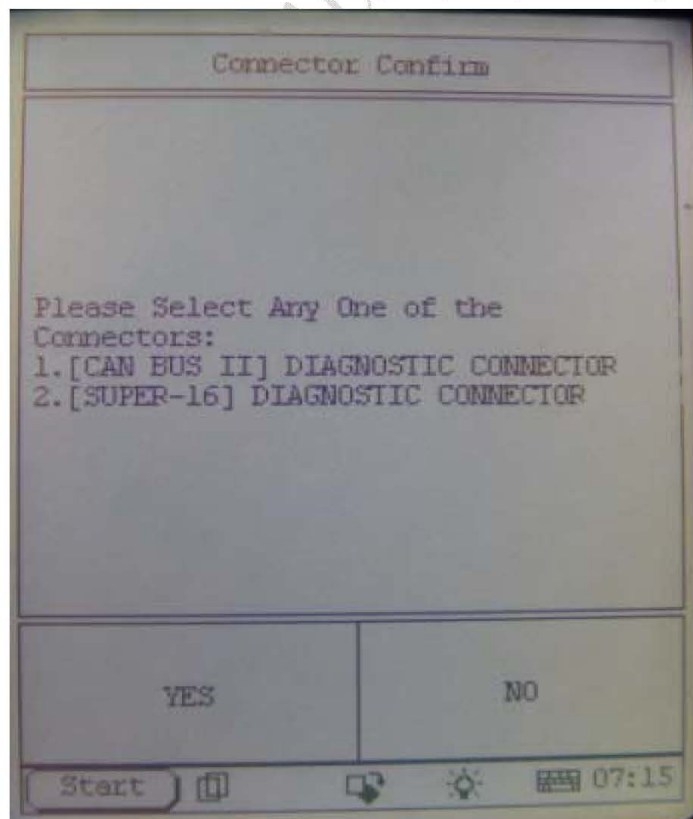


Figure 6



5). After selecting connector, it displays ECU information. Click OK to access the test. See Figure 7&8.

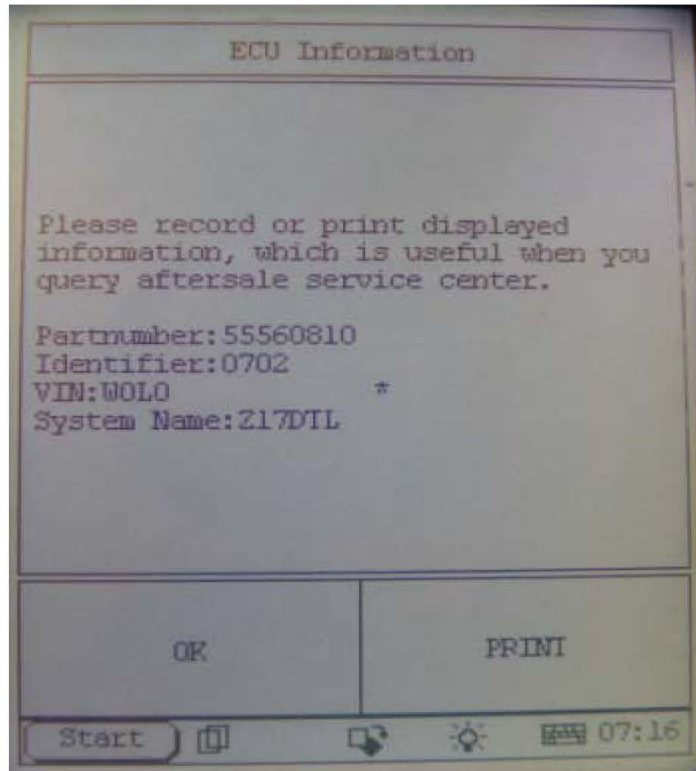


Figure 7

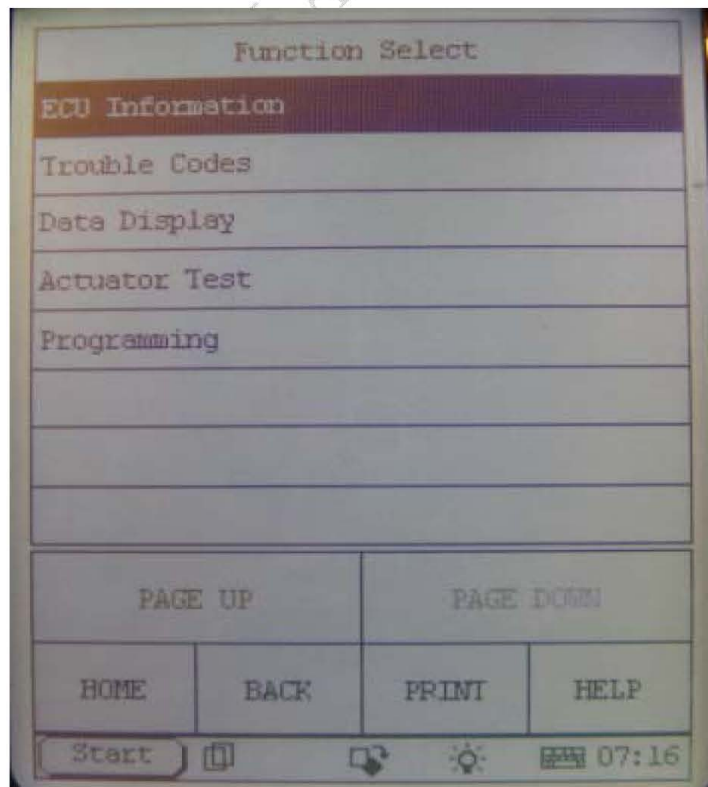


Figure 8

- 6). Details about Read DTC, Clear DTC, Read Data Stream, Actuation Test and Special Functions will not be explained here. For testable system and function, please refer to the Car Model Coverage Table, which can be downloaded from [www.x431.com](http://www.x431.com).

LAUNCH