

# ANCEL<sup>®</sup>

## USER'S MANUAL LD700





## EN

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The content (Tool Setup, Update, Warranty) is in English only, and there is no corresponding translation in other languages.

# Safety Precautions and Warnings

To avoid injury or damage to the vehicle and/or scan tool, first read this manual and observe the following safety precautions when working on a vehicle:

- First, turn off the ignition. Connect the 16-pin connector, and then turn on the ignition.
- Always perform vehicle tests in a safe environment.
- Do not attempt to operate or observe the unit while driving a vehicle.
- Operating or observing the device distracts to the driver and may result in a fatal accident.
- Wear safety glasses that meet the standards of ANSI.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated area: Exhaust fumes are toxic.
- Place blocks in front of the drive wheels and never leave the vehicle unattended while performing tests.
- Use extreme caution when working near the ignition coil, distributor cap, ignition wires and spark plugs. These components generate dangerous voltages when the engine is running.
- Keep a fire extinguisher nearby that is suitable for gasoline, chemical, and electrical fires.
- Keep the scan tool dry, clean, and free of oil/water or grease. If necessary, use a mild detergent on a clean cloth to clean the outside of the scan tool.

## Instruction Manual

- Turn the ignition on
- Locate the vehicle's 16-pin Data Link Connector (DLC)

# 1. Product Descriptions

ANCEL LD700 is a professional diagnostic tool for Land Rover and Jaguar. It is convenient to carry, plug and use, one-button operation, and supports vehicle system: engine, brake, airbag, automatic transmission, instrumentation and other control systems.

It support vehicles include:

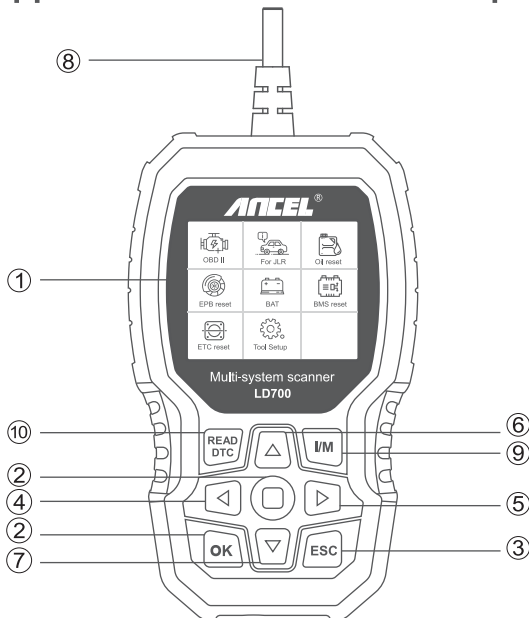
Land Rover: Range Rover, Range Rover Velar, Range Rover Sport, Evoque, Evoque II, Freelander, Discovery, Discovery Sport, Defender,

Jaguar: XJS, XF, XK, F-Type, S-Type, XE, F-Pace, I-Pace

## 2. Product specification

- 2.8'LCD,320 X 240 pixels color screen.
- Operating Voltage: 8V-18V.
- Operating Temperature: 0°C-60°C(32-140°F).
- Storage Temperature: -20°C-70°C(4-158°F).

### 3. Appearance and buttons description



① LCD DISPLAY - Displays test results. Display with backlight, 320 x 240 pixels

② [OK] BUTTON - Confirms a selection (or action) from a menu.

③ [ESC] BUTTON - Cancels a selection (or action) from a menu or returns to the menu.

④ [LEFT] SCROLL BUTTON - move left through menu and submenu in menu mode, when scrolling in a data interface the left key can be used to move to the last screen.

⑤ [RIGHT] SCROLL BUTTON - in menu mode move through the menu and submenu items to the right, when scrolling in a data interface the right key can be used to move to the next screen.

- ⑥ [UP] SCROLL BUTTON - in menu mode, move up through the menu and submenu items. When retrieving data for more than one screen, by moving the screen up to the previous screen for more data.
- ⑦ [DOWN] SCROLL BUTTON - in menu mode, using the menu and submenu items to move down. If retrieving data for more than one screen, move down the screen to the next screen for more data.
- ⑧ OBD-16PIN CONNECTOR - Connects the scan tool to the vehicle's Data Link Connector (DLC).
- ⑨ [I/M] BUTTON - Quick State Emissions Readiness Check and Drive Cycle Check.

I/M Readiness	
IGN Spark	
CtDTC 0	PdDTC 0
MIL	ECAT <input type="checkbox"/>
MIS <input type="checkbox"/>	BP <input type="checkbox"/>
FUEL <input checked="" type="checkbox"/>	EGS <input checked="" type="checkbox"/>
CCM <input checked="" type="checkbox"/>	PM <input type="checkbox"/>
HCCAT <input type="checkbox"/>	EGR <input type="checkbox"/>

Remarks:

MIL Yellow- Dashboard MIL ON

MIL Gray-Dashboard MIL OFF

-not support

-complete

-not complete

- ⑩ [READ DTC] BUTTON - Quick readout of the vehicle's fault code.

## 4. Diagnose

### 4.1 Job menu

OBDII	This option provides a quick way to check the codes of the engine light.
For JLR	Professional diagnostic tool for Land Rover and Jaguar.
Reset Oil	hot key: After an oil change, you need to reset the oil indicator.









Datastream	
View All Items	
Select Items	
1/2	

Datastream	
Absolute load value[%]	21.961
Absolute throttle position B[%]	12.157
Absolute throttle position [ %]	12.941
Accelerator pedal position sensor - circuit	15.686
Accelerator pedal position sensor - circuit	15.686
1-5/277	

Datastream	
Actual exhaust (B) camshaft position -	-0.75
Actual exhaust camshaft position -	-0.5
Actual intake (A) camshaft position -	35.25
Actual intake camshaft position - Bank 2[°]	35.437
Air charge temperature [C]	92
6-10/277	

Datastream	
Air conditioning refrigerant pressure	1930000
Air flow rate from mass air flow sensor - bank 1.	9720
Air flow rate from mass air flow sensor - bank 2.	8280
Air monitor completion condition counts(	0
Air monitor conditions encountered counts(	0
11-15/277	

Select [Read Datastream] and select [Select Items], it will be displayed as follows:

Datastream	
View All Items	
Select Items	
2/2	

Select Datastream	
[ ]	All Datastream of page
[ ]	Absolute load value[ %]
[ ]	Absolute throttle position B[ %]
[ ]	Absolute throttle position[ %]
[ ]	Accelerator pedal position sensor - Circuit D[%]
1-4/277	

Select Datastream	
[ v ]	All Datastream of page
[ v ]	Absolute load value[ %]
[ v ]	Absolute throttle position B[ %]
[ v ]	Absolute throttle position[ %]
[ v ]	Accelerator pedal position sensor - Circuit D[%]
1-4/277	

Datastream	
Absolute load value[ %]	21.961
Absolute throttle position B[%]	12.157
Absolute throttle position [%]	12.941
Accelerator pedal position sensor - circuit	15.686
1-4/4	

Press [LEFT] and [RIGHT] keys to scroll, press [UP] and [DOWN] keys to select in sequence.  
 Press [OK] key to select the datastream.  
 Press [ESC] key to read the datastream.

### 4.3 For JLR Manual selection

Manual selection is to display all systems, select one of the systems to diagnosis. Choose [Manual Select] and it displays as follows:

Select Menu
System Scan
Manual Select
Special Functions
2/3

Select System Diagnose
PCM((Power train Control Module)
TCM(Transmission control mod...
ABS (Anti-lock Braking System)
SRS (Supplemental Inflatable R...
IPC (Instrument cluster control ...
BCM(Body control module)
CHCM(Chassis control module)
1/41

Select Function
Read Fault Codes
Erase Fault Codes
Read Datastream
1/3

The operating steps are the same as in the System Scan menu.

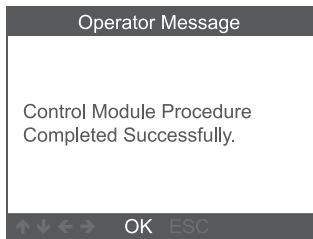
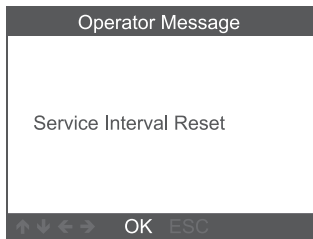
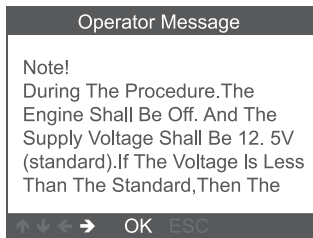
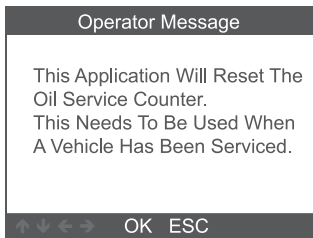
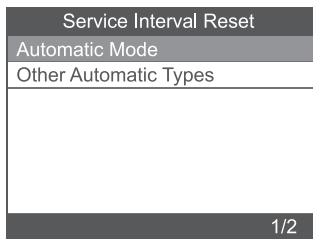
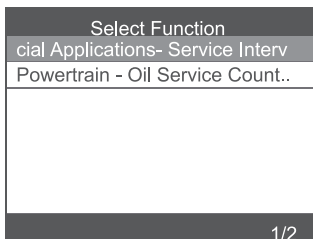
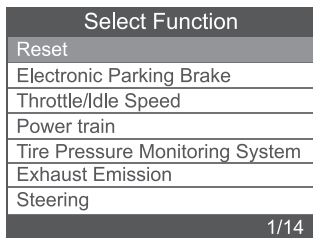
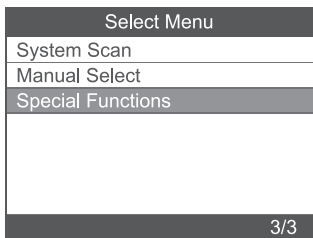
### 4.4 For JLR Special Functions

#### 4.4.1 Reset

Select [Special Functions] and select [Reset], it will be displayed as follows:

Follow the instructions. Since there are many steps, we only give some of the pictures.

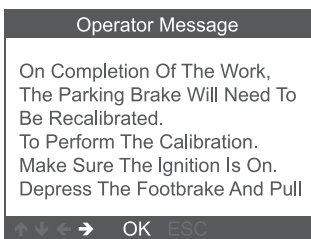
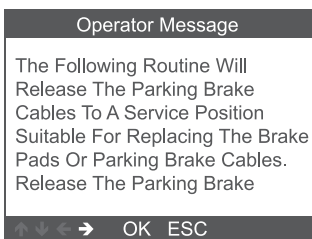
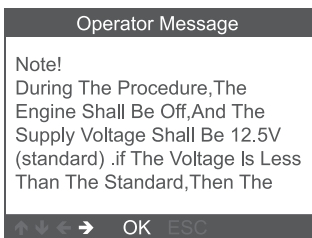
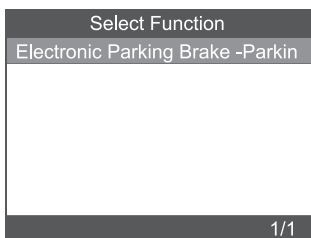
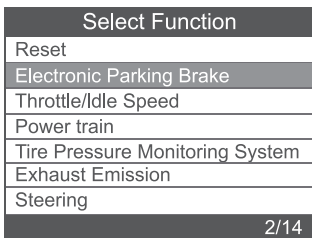
**Note: Different vehicles have different diagnostic menus.**

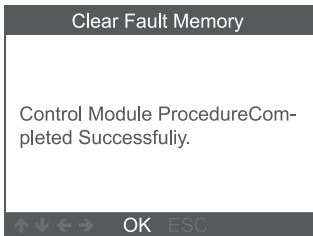
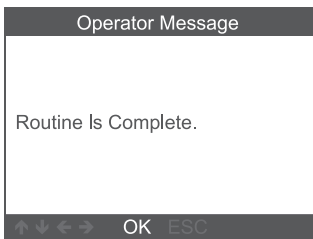


## 4.4.2 Electronic Parking Brake

Select [Special Functions] and select [Electronic Parking Brake], it is displayed as follows:

Follow the prompts. Since there are many steps, we have only shown part of the operation.

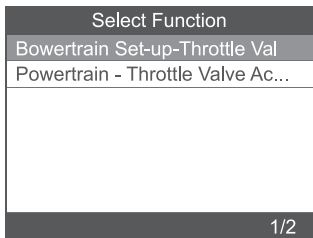
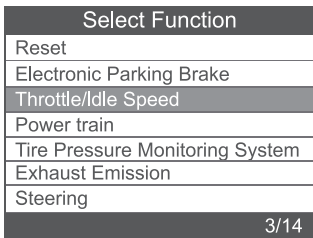


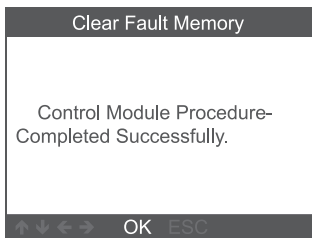
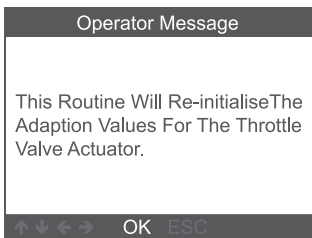
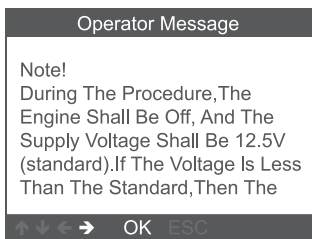
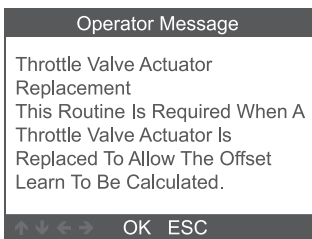


#### 4.4.3 Throttle/Idle Speed

Select [Special Functions] and select [Throttle/Idle Speed], it will be displayed as follows:

Follow the prompts. Since there are many steps, we have only shown part of the operation.

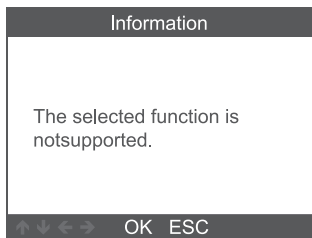
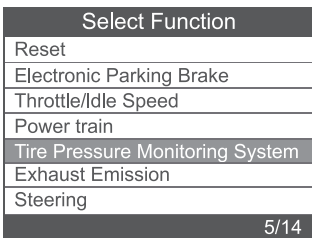




#### 4.4.4 Tire Pressure Monitoring System

Select [Special Functions] and select [Tire Pressure Monitoring System]. It is displayed as follows:

Not all special functions are supported, and some are not supported.



#### 4.4.5 Battery



Select Function
Air Suspension
Headlamp
Battery
Brake Bleed
Injector
Chassis
Others

10/14

Select Function
Battery Replacement

1/1

**Ignition State**

Set The Ignition Switch To On  
(position 2)

↑ ↓ ← → OK ESC

**Battery Replacement**

This routine will reset stored internal battery monitoring data. This is required when a battery is replaced. Press OK to confirm selection or CANCEL to abort

↑ ↓ ← → OK ESC

**Battery Replacement**

Complete

↑ ↓ ← → OK ESC

**Clear Fault Memory**

The Next Procedure Will Be To Carry Out A Complete Vehicle Diagnostic Trouble Code Clear. Do You Wish To Continue?

↑ ↓ ← → OK ESC

**Ignition State**

Set The Ignition Switch To Off  
(position 0)

↑ ↓ ← → OK ESC

**Clear Fault Memory**

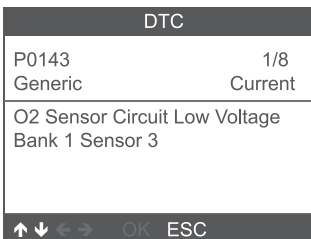
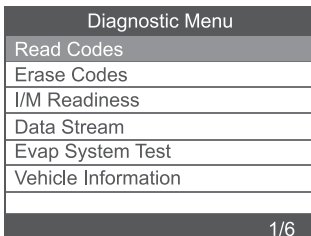
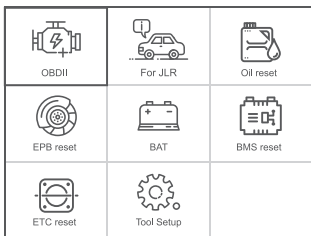
Control Module Procedure Completed Successfully.

↑ ↓ ← → OK ESC

## 5. OBDII System

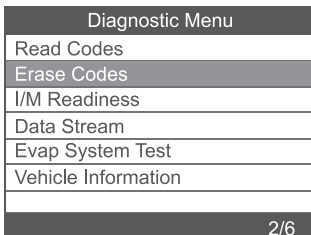
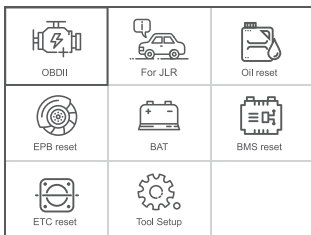
### 5.1 Read Codes

Select [OBDII] and select [Read Codes], it will be displayed as follows:

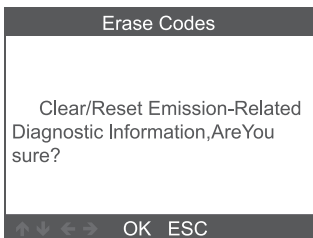


### 5.2 Erase Codes

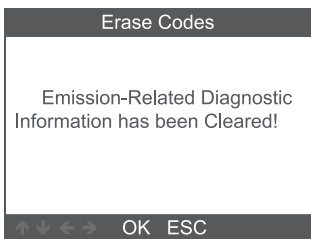
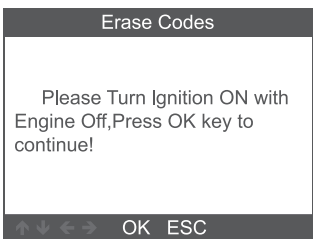
Select [OBDII] and select [Erase Codes], it will be displayed as follows:



A warning message comes up asking for your confirmation.

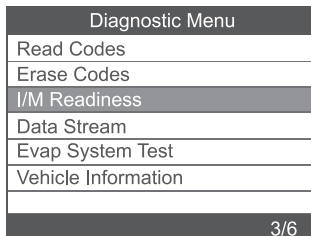
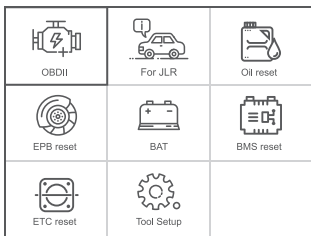


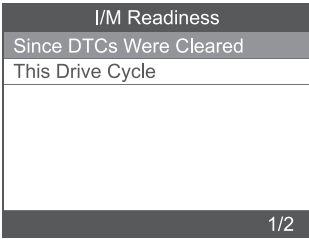
Press the [OK] button to confirm.



### 5.3 I/M Readiness

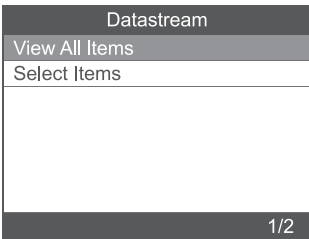
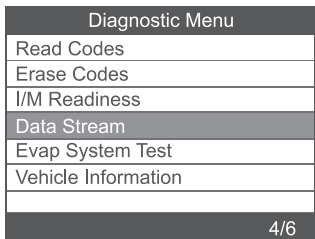
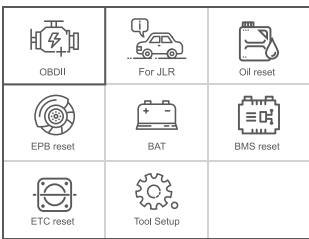
Select [OBDII] and select [I/M Readiness], it will be displayed as follows:





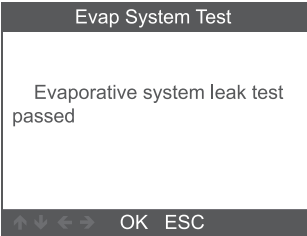
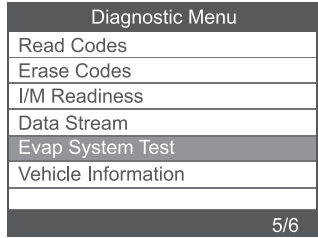
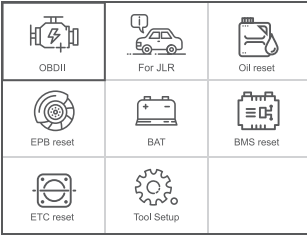
### 5.4 Data Stream

Select [OBDII] and select [Data Stream], it will be displayed as follows:



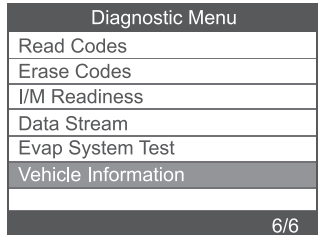
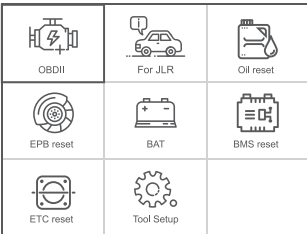
### 5.5 EVAP System Test

Select [OBDII] and select [EVAP System Test], it will be displayed as follows:



## 5.6 Vehicle Information









Select [OBDII] and select [Vehicle Information], it will be displayed as follows:



Vehicle Information
Vehicle Identification Number(VIN): LVSFBFAC94F020950
Calibration Identifications(CID): 000007550753
Calibration Verification Numbers(CVN): B5073064
↑ ↓ ← → OK ESC

## 6. BAT Check

This function allows you to read the battery voltage in real time. In the main menu, use the LEAF / RIGHT keys to select the BAT menu and press the OK key. The screen will display the interface shown below:

 OBDII	 For JLR	 Oil reset
 EPB reset	 BAT	 BMS reset
 ETC reset	 Tool Setup	

**BAT Check**

Please turn off engine.

Current Voltage:12.07V

[OK]:Start detection  
[ESC]:Cancel detection

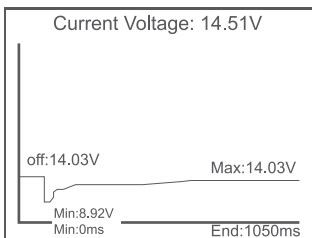
Please turn off the engine.

**BAT Check**

Please start engine.

[ESC]:Cancel detection









When you press [OK] and start the detection, the interface will be displayed:



## 7. Tool Setup

### 7.1 Language

Select the [Language] and it will be displayed as follows:  
Supports only the multilingual "menu interface".

 OBDII	 For JLR	 Oil reset
 EPB reset	 BAT	 BMS reset
 ETC reset	 Tool Setup	

Tool Setup	
Language	
Beeper	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
1/7	

Language	
English	
Français	
Deutsch	
Español	
Italiano	
Русский	
Portugués	
1/12	

Language	
Suomalainen	
Polish	
Dansk	
Svenska	
Norsk	
8/12	

## 7.2 Beeper

Select [Beeper] and it will be displayed as follows:

Tool Setup	Beeper
Language	OFF
<b>Beeper</b>	ON
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
2/7	1/2

## 7.3 Instructions(Display at start up)

Select [Instructions ( Display at start up )] and the following is displayed:

Tool Setup	Instructions(Display at startup)
Language	OFF
Beeper	ON
<b>Instructions(Display at startup)</b>	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
3/7	1/2

## 7.4 Unit of measure

Select [Unit of measure] and it will be displayed as follows:

Tool Setup	Unit of measure
Language	Mertic
Beeper	Imperial
Instructions(Display at startup)	
<b>Unit of Measure</b>	
Skin Style	
Feedback the test result	
Device Information	
4/7	1/2



## 7.5 Skin Style

Select [Skin Style] and it will be displayed as follows:

Tool Setup	Skin Style
Language	Sky Gray
Beeper	Gem Blue
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
5/7	1/2

## 7.6 Feedback of the test result

1) If the device indicates a connection error with the vehicle or any other problem during use, please use the feedback function. Select [Feedback the test result] and it will be displayed as follows:

Tool Setup	feedback the test result
Language	Automatic recording is ready. perform the related functions that require feedback.
Beeper	After the execution.disconnect the car.connect to the computer via USB,use the update.exe tool.
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
6/7	↑ ↓ ← → OK ESC

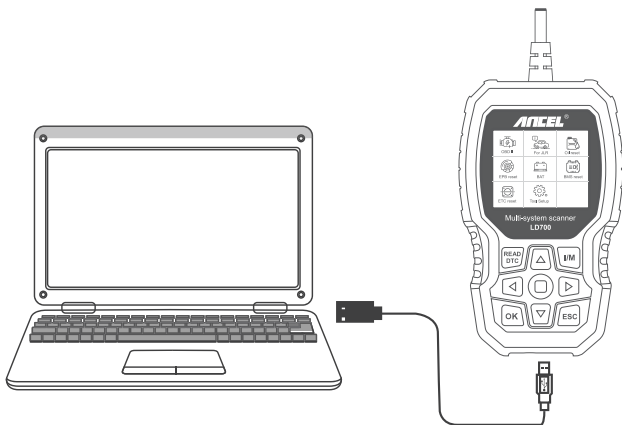
For example: Register battery change enter [Register battery change], and execute register battery change again (This step is very important).

Note: keep the unit connected to the vehicle during the above steps.

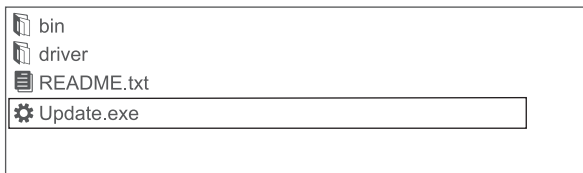
2) After you have registered the battery change, disconnect the device from the vehicle.

3) Transfer the data to your computer and create a feedback file.(You will need to download the upgrade file from the ANCEL website to your computer).

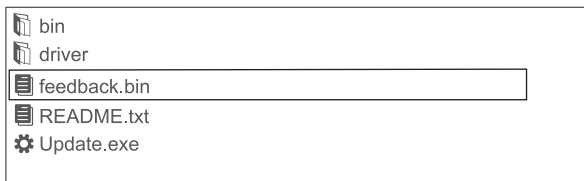
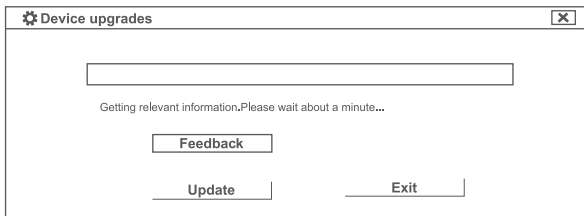
The device is connected to the computer via a USB cable.



Select the file “Update” and it will be displayed as follows:



Click on “Feedback” and it will be displayed as follows:



Click on “Feedback” and it will be displayed as follows:

## 7.7 Device Information

Select [Device Information] and it will be displayed as follows:

Tool Setup
Language
Beeper
Instructions(Display at startup)
Unit of Measure
Skin Style
Feedback the test result
Device Information

7/7

Device Information	
Software Version:	01.00.000
Library version:	01.00.000
Serial Number:	ANCEL90000500473462

↑ ↓ ← → OK ESC

## 8. Update

- 1) Download the update software and unzip the file.
- 2) Connect the device to the computer via USB cable.
- 3) The update software is only supported by 7/8/10. In Windows 7, you need to install the driver, in Windows 8/10, you can run the update software directly.

Note:

Windows XP and Apple computers do not support upgrades.

If you do not understand the upgrade steps in the instructions, please contact ANCEL customer service.

## 9. Warranty

- 1) This warranty is limited to the person who purchases ANCEL products.
- 2) ANCEL products are warranted against defects in materials and workmanship for a period of one year (12 months) from the date of shipment to the user.

## **OBDSpace TECHNOLOGY CO., LTD**

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