

ANCEL[®]

USER'S MANUAL VD700



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MADE IN CHINA

Safety precautions

To avoid body injury and damage to the device or your car, please read this manual carefully before using VD700.

The testing process described in the manual is generally the experience of technician.

Safety precaution is required in most of the process to avoid body injury and damage to the device or your car.

Read the vehicle maintenance manual before use this device and follow safety precautions.

- It generates CO and other poisonous air when engine is running. To avoid this kind of hurt, please repair the car in a well-air-ventilated place.
- When the engine is running, many parts (such as the coolant fan, pulleys, fan belt etc.) rotate at high speed. To avoid serious injury, always be aware of moving parts. Keep a safe distance from these parts as well as other potentially moving objects.
- Engine parts become very hot when the engine is running. Don't touch hot engine parts to avoid severe burns.
- When the ignition is ON, Connecting or disconnecting test equipment will damage test equipment and the vehicle's electronic components. Turn the ignition OFF before connecting or disconnecting the device from the vehicle's Data Link Connector (DLC).
- Fuel and battery vapors are highly flammable. To prevent an explosion, keep all sparks, heated items and open flames away from the battery and fuel/ fuel vapors. Do not smoke near the vehicle during testing.

1. coverage :

1) Support vehicles for VW, AUDI, SKODA, SEAT and BENTLEY etc .

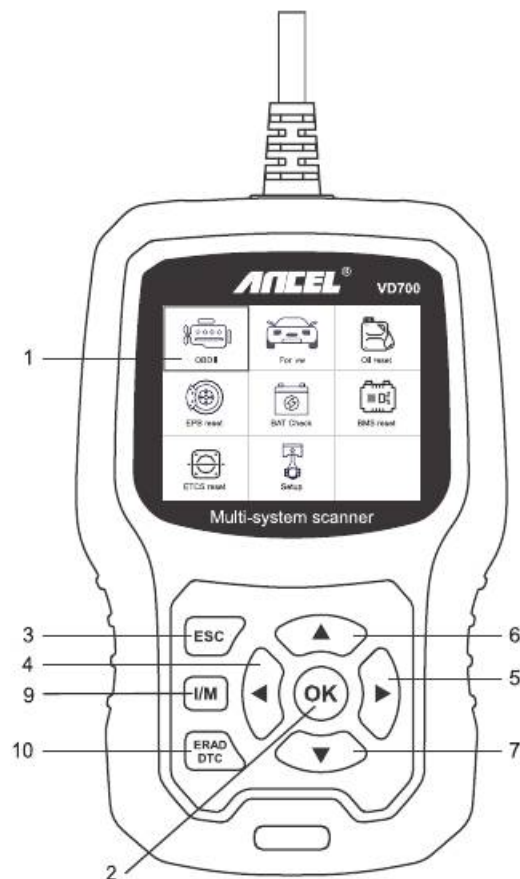
2) Supports all VW diagnostic protocols: UDS, TP20, TP16, KWP2000 and KWP1281.

Supports all OBDII/EOBD protocols : VPW, PWM, ISO, KWP 2000 and CAN

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 – Indicates test results. Backlit, 320 x 240 pixels display.
- 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 –in the menu mode through the menu and sub menu move to the left, when rolling in a data interface, use the left button can be moved to the last screen.
- 5) [RIGHT] SCROLL BUTTON –In the menu mode through the menu and sub menu item move to the right, when rolling in the data interface, use the right button can be moved to the next screen.
- 6) [UP] SCROLL BUTTON –in the menu mode through the menu and sub menu item moving up. When retrieving data for more than a screen by moving up the screen to the previous screen for more data.
- 7) [DOWN] SCROLL BUTTON –In the menu mode through the menu and sub menu item moves down. When retrieving data more than one screen, by moving 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 verification.

I/M Readiness			
IGN	Spark	DTC	0
MIL		PdDTC	0
MIS	⊘	EVAP	⊘
FUE	✓	AIR	⊘
CCM	✓	O2S	✗
CAT	✓	HRT	✗
HCAI	⊘	EGR	⊘

Remarks:

MIL Yellow- Dashboard MIL ON

MIL Gray-Dashboard MIL OFF

⊘ -not support

✓ -complete

✗ -not complete

- 10) [READ DTC] BUTTON-Quick read the vehicle's fault codes.

OPERATION INSTRUCTIONS

1. Connect VD700

1.1 Turn the ignition on.

1.2 Locate the vehicle's 16-pin Data Link Connector (DLC).

2. VD700 Features

2.1 For VW

Choose [For VW] and then select [Vehicle Scan]. As follows:

Select Menu
Vehicle Scan
System Selection
Crafter(LT3) 2006-2017
Special Functions
1/4

Select Menu
System Scan
Manual Select
1/2

Remark: [System Scan] is used to check faulty systems and display the number of faults

[Manual Select] uses to scan all supported systems.

Select System
0017-Dash Board
0019-Gateway
0061-Battery Regulation
1/3

2.1.1 Choose [System Scan], select [0017-Dash Board], The screen displays as follows:

Select System	
0017-Dash Board	4
0019-Gateway	5
0061-Battery Regulation	1
1/3	

Select Function	
01-Version Information	
02-Read Fault Codes	
03-Erase Fault Codes	
04-Read Datastream	
05-Basic Setting	
07-Adaptation	
08-Access Authorization	
1/7	

2.1.1.1 Choose [01-version information] The screen displays as follows:

01-Version Information	
Protocol Type: CAN20	
VW/Audi part number:3C	
0920870T	
VIN:	
System description:	
KOMBIINSTRUMENT VD1	
1/3	

01-Version Information	
Serve station code: 01 81 CD	
34 4C 04	
Coding: 7505	
1/3	

2.1.1.2 Choose[Read Fault Codes]. The screen displays as follows:

Select Function	
01-Version Information	
02-Read Fault Codes	
03-Erase Fault Codes	
04-Read Datastream	
05-Basic Setting	
07-Adaptation	
08-Access Authorization	
2/7	

02-Read Fault Codes	
1/4	
01312 Drive train data bus	
2/7	

2.1.1.3 Choose[Erase fault codes], then press [OK] button . The screen displays as follows

Information	
Erase fault codes!	
Are you sure?	
3/12	

Information	
Erase fault codes had success.	
Please wait 10 seconds, Turn Ignition off and Switch on again.	
Read fault codes to verify.	
1/3	

2.1.1.4 Choose[Read Datastream], if enter number:005 . The screen shows as follows

Input channel	
OK	Input a channel number (0~255)
Delete	
0	
1	
2	
3	
4	
3/12 ↑ ↓ ← → OK ESC	

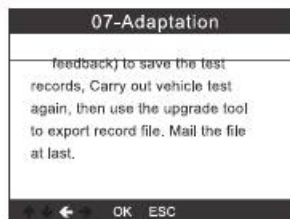
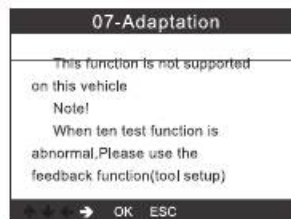
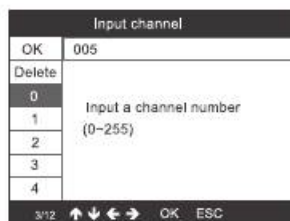
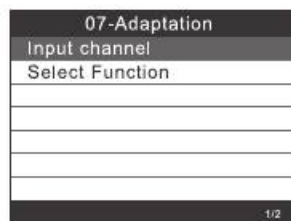
Special Functions	
ASCLL Character	- -
ASCLL Character	- -
Count	300
Count	365
1/3	

2.1.1.5 Choose[Basic setting], if enter number:005. The screen shows as follows

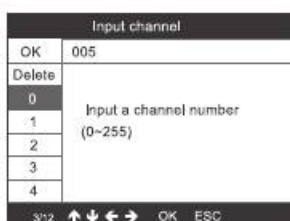
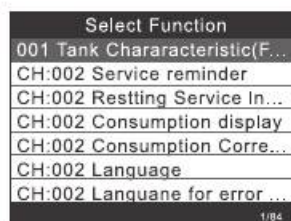
Input channel	
OK	Input a channel number: (0~255)
Delete	
0	
1	
2	
3	
4	
3/12 ↑ ↓ ← → OK ESC	

Throttle Learning	
This function is not supported on this vehicle	
Note!	
When ten test function is abnormal, Please use the feedback function(tool setup)	
1/3	

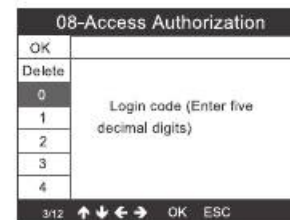
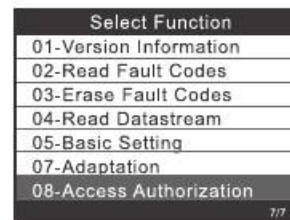
2.1.1.6 Choose [Adaptation], select [Input channel], if enter number:005. The screen displays as follows:



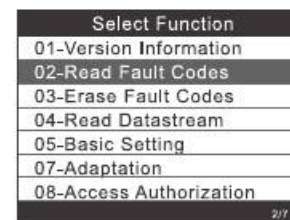
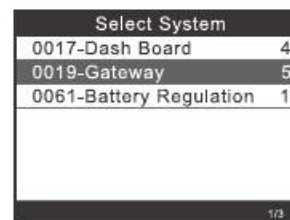
Choose [Select Function], select [Input channel], if enter number:005. The screen displays as follows:



2.1.1.7 Access Authorization

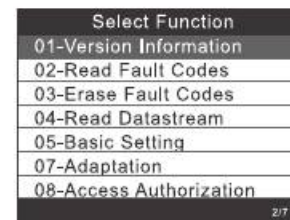
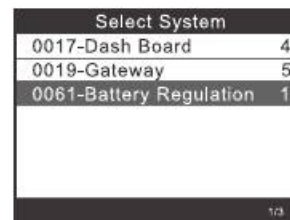


2.1.2 Gate way



More further operations, please refer to 2.1.1.1 to 2.1.1.7

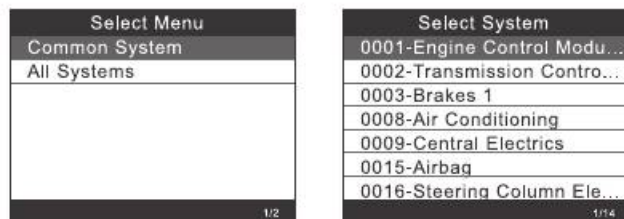
2.1.3 Battery Regulation



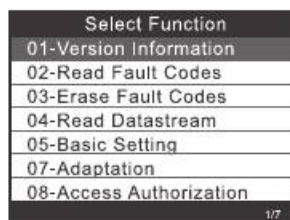
More further operations, please refer to 2.1.1.1 to 2.1.1.7

2.2 System Selection:

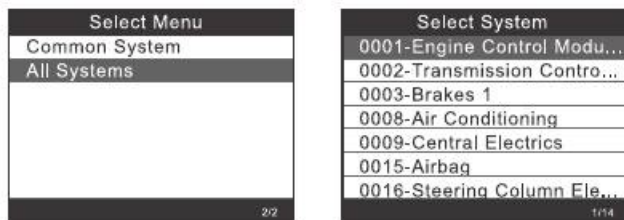
2.2.1 Choose [System Selection], click [Common System],



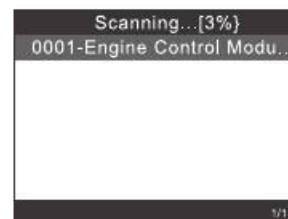
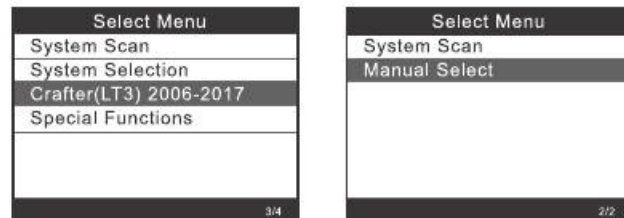
Select one system to test, more operations, please refer to 2.1.1 to 2.1.3



2.2.2 Choose [All System], the screen displays all supported systems, then select one systems to test.

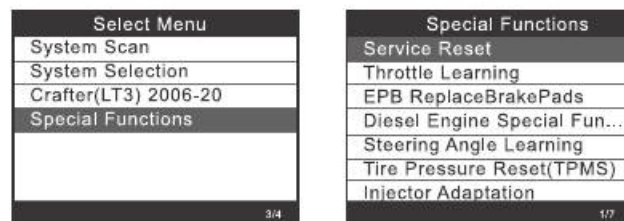


2.3 Crafter (LT3) test:

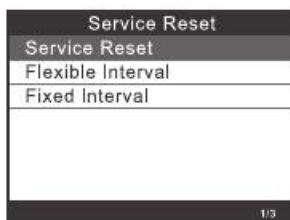


2.4 Special Functions:

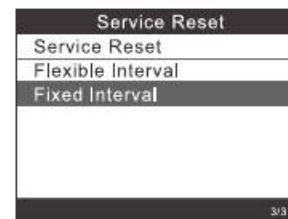
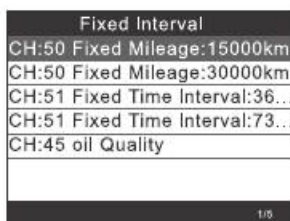
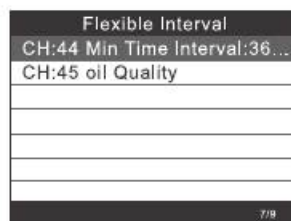
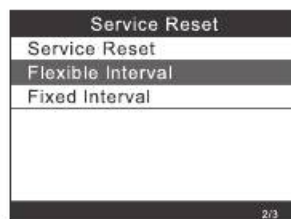
Choose [Special Functions],



Choose one of special functions, such as [Service Reset]. Press [OK] to continue:



Choose [Flexible Interval], It displays as follows:

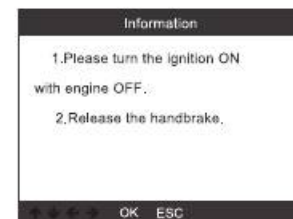


Remark: Before setting the maintenance interval, do set the corresponding [oil quality]

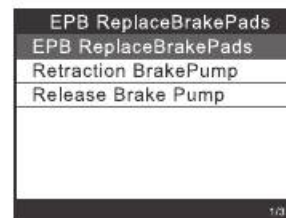
If vehicle uses UDS protocol, you could do inspection due reset, service reset, and mileage and time settings. Settings of mileage and time support be input manually with any value you want.

3. EPB reset

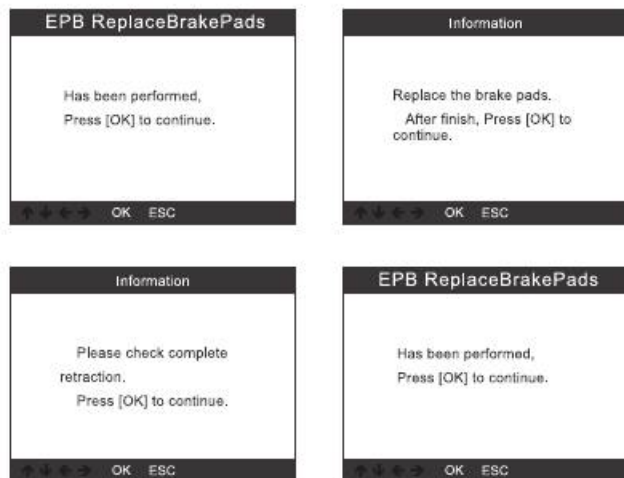
Choose [EPB reset], press [OK] button to continue



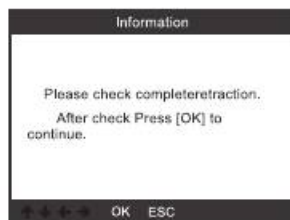
3.1 Choose [EPB replace brake pads], press [OK] button to continue:



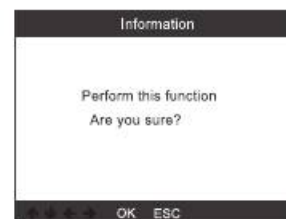
Retract the brake pump , please pay attention to the operation tips, and press [OK] button to continue:



3.1.1 Check whether the brake pump is completely released.
The operation of replacing the brake pads is finished, press [OK] to complete



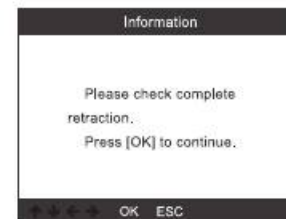
3.2 Choose [Retraction Brackpump] , press [OK] to continue:



3.2.1 After retract brakepump, press [OK] to continue:



3.2.2 Check whether the retraction is completely, then start to replace the brake pads. After finished, press OK to continue:



3.3 Choose [Release Brake Pump] , press [OK] to continue:

EPB ReplaceBrakePads	Information
EPB ReplaceBrakePads	
Retraction BrakePump	Perform this function
Release Brake Pump	Are you sure?
1/3	OK ESC

3.3.1 Release Brake Pump, and press [OK] to continue:

EPB ReplaceBrakePads	Information
Has been performed, press [OK] to continue.	Please check complete release After finish, press [OK] to continue.
OK ESC	OK ESC

4. Battery Registration

Choose [BMS reset] option , press [OK] button. The screen displays as follow:

Battery Registration
0019-Gateway
0016-Battery Regulation
008C-Battery Energy Contr...
1/3

4.1 Press [OK] button again , The screen will displays old battery parameters.

It is better to record the parameters to prevent the old battery parameters from being restored when the new battery parameters are not available.

Battery Registration
Press [OK] to continue
Description Battery Value
Capacity(Ah) :95Ah
Manufacturer :VARTA[VAO].
OK ESC

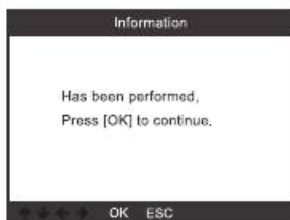
4.2 Choose new battery capacity and manufacturer:

Select battery capacity	Select battery manufacturer
95Ah	Mol[MLA]
110Ah	VARTA[VAO]
68Ah	JCI/JCB[JCB]
75Ah	Exide[TU3]
92Ah	JFF(Boading)/China[5D0]
105Ah	Banner[BA2]
115Ah	EPN[EPM]
8/20	1/5

Remark: If manufacturer is not been indicated in the list, please choose others

4.3 Press [OK] button to continue:

Battery Registration	Battery Registration
Press [OK] to continue	Press [OK] to continue
Configure New Battery Value	Matching New Battery Value
Capacity(Ah) :95Ah	Capacity(Ah) :95Ah
Manufacturer :VARTA[VAO].	Manufacturer :VARTA[VAO].
OK ESC	OK ESC



5. OBDII diagnosis

5.1 Read Codes

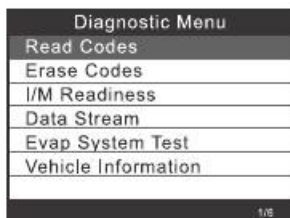
Stored codes are also known as "hard codes" or "permanent codes". These codes cause the control module to illuminate the malfunction indicator lamp (MIL) when an emission-related fault occurs.

Pending Codes are also referred to as "maturing codes" or "continuous monitor codes". It indicates the problem that control module has detected during the current or last driving cycle, but they are not considered seriously.

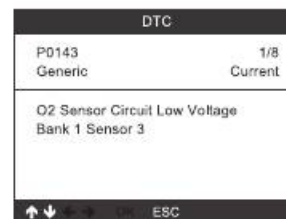
Pending Codes will not turn on the malfunction indicator light, and codes will be cleared from memory if there is no failure during the following warm-up period

1) Use the UP/DOWN scroll button to select Read Codes from the Diagnostic Menu and press [OK].

If there are no Diagnostic Trouble Codes, the display.



indicates "No (pending) codes are stored in the module!" Wait a few seconds or press any key to return to the Diagnostic Menu.
2) View DTCs and their definitions on screen.

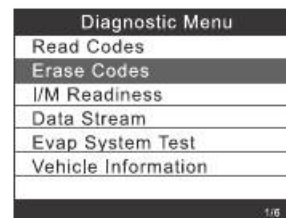


The control module number, sequence of the DTCs, total number of codes detected and type of codes (Generic of Manufacturer specific) will be observed on the upper right hand corner of the display.

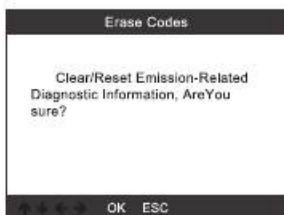
5.2 Erase Codes

Notes: This function is performed with key on engine off. Do not start the engine. Before performing this function, make sure to retrieve and record the trouble codes. After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there is still some trouble codes for hard troubles, please find the reason caused the trouble code firstly, and then solve the problem. Now, the trouble codes can be erased.

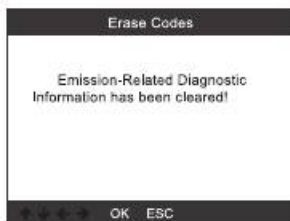
1) Use the UP/DOWN scroll buttons to select Erase Codes from the Diagnostic Menu and press [OK].



2) A warning message comes up asking for your confirmation.



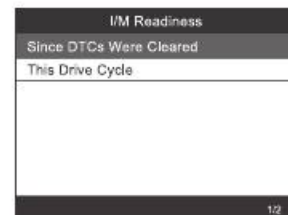
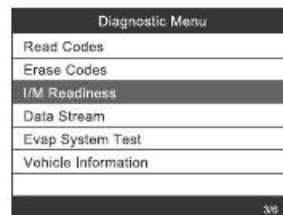
3) Press [OK] to confirm.



5.3 I/M Readiness

I/M refers to Inspection and Maintenance, that is legislated by the Government to meet federal clean-air standards. I/M Readiness indicates whether or not the various emissions-related systems on the vehicle are operating properly and are ready for Inspection and Maintenance testing.

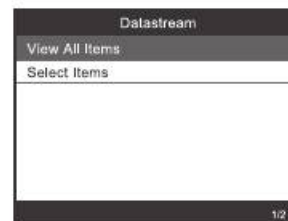
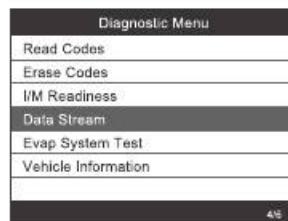
The I/M readiness Monitor Status function also can be used (after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/ or to check for Monitor Run Status.



5.4 Data Stream

The OBDII Scan Tool is a special diagnostic tool that communicates with the vehicle's computer. The Scan Tool lets you view "real-time" Live Data. This information includes value(volts, rpm, temperature, speed etc.) and system status information (open loop, closed loop, fuel system status, etc.) generated by the various vehicle sensors, switches and actuators.

Press ENTER



5.5 Evap Leak Test

This function enables the conditions required to conduct an evaporative system leak test, but does not actually run the test. The vehicle manufacturer is responsible to determine the criteria to automatically stop the test.

Before performing this function, please check the vehicle's service repair manual to determine the necessary procedures.

Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Evap System Test	
Vehicle Information	
5/6	

Evap System Test	
Evaporative system leak test not supported	
↑ ↓ ← → OK ESC	

5.6 Vehicle Information.

Select [Vehicle Information] and press [ENTER], the screen will display the information such as VIN (Vehicle identification Number) , CID (Calibration ID) and CVN (Calibration verify number).

Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Evap System Test	
Vehicle Information	
6/6	

Vehicle Information	
Vehicle Identification Number(VIN): LV5FBFAC94F020950	
Calibration Identifications(CID): 000007550753	
Calibration Verification Numbers(CVN): B5073064	
↑ ↓ ← → OK ESC	

6. Tool Setup

6.1 Language

Choose [Language] and it displays as follows:

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

Language	
English	
Svenska	
Suomalainen	
Norsk språk	
Dansk	
Deutsch	
Français	
1/10	

6.2 Beeper

Choose [Beeper] and it displays as follows:

Tool Setup	
Language	
Beeper	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback	
Device Information	
2/7	

Beeper	
OFF	
ON	
1/2	

6.3 Instructions

Choose [Instructions] and it displays as follows:

Tool Setup	
Language	
Beeper	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback	
Device Information	
3/7	

Instructions(Display at startup)	
OFF	
ON	
1/2	

6.4 Unit of measure

Choose Unit of measure and it displays as follows:

Tool Setup	
Language	
Beeper	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback	
Device Information	
4/7	

Unit of measure	
Metric	
Imperial	
1/2	

6.5 Skin Style

Choose Unit of measure and it displays as follows:

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

6.6 Feedback

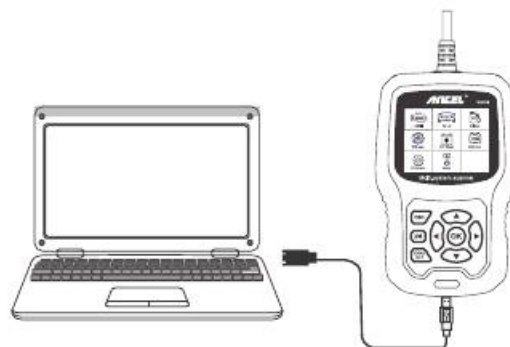
1) When the [OBDII] function shows connected error with vehicle, please using the feedback function. Choose [Feedback] and it displays as follows:

Tool Setup	Feedback
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
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback	
Device Information	
6/7	OK ESC

Next : Press EXIT Button and return to the main menu. Choose [OBDII] menu to detecting again and it will record the data.

2) Transfer data to your computer and generate feedback file.

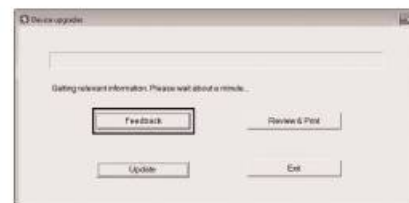
Download upgrade file on the computer from ANCEL website.
The device is connected with computer through USB cable.



Choose "Update" file and it displays as follow:

bin	2019/7/1 10:46	File folder	
driver	2019/7/1 10:46	File folder	
README	2019/7/1 10:46	BIN File	1 KB
Update	2019/7/1 10:46	Application	9,166 KB

Click "Feedback" and it displays as follow:



名称	修改日期	类型	大小
bin	2019/5/22 10:07	文件夹	
driver	2019/5/22 10:06	文件夹	
README.txt	2019/5/21 19:30	文本文件	1 KB
Update.exe	2019/5/21 19:30	应用程序	9,166 KB
Feedback.bin	2019/7/24 11:10	BIN 文件	128 KB

Please send the feedback.bin file to support@anceltech.com.

6.7 Device information

Choose Device information and it displays as follows:

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

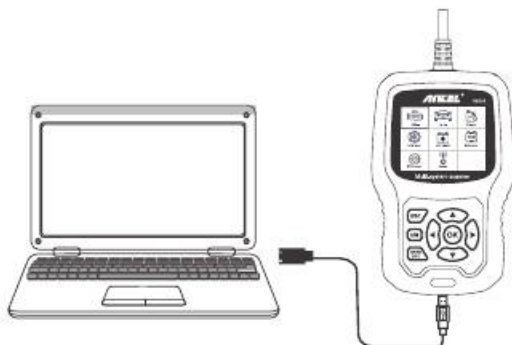
Device information	
Software Version:	V1.16.000
Library Version:	V1.00.000
Serial Number:	ANCEL20170500125280



7. Update

1. Download update software

2. Connect the device with computer through USB cable.



3. The update software is only supported by 7/8/10.

- * Windows 8/10 can run update software directly,
- * Click "install driver.bat" in the driver files to install the driver, if computer system is Windows 7

bin	2019/7/1 10:46	File folder	
driver	2019/7/1 10:46	File folder	
README	2019/7/1 10:46	BIN File	1 KB
Update	2019/7/1 10:46	Application	9,166 KB

8. Warranty and Service

8.1 Limited One Year Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE ANCEL VD700 PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

ANCEL VD700 code reader is warranted against defects in materials and workmanship for one year (12 months) from the date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and ANCEL VD700 shall not be liable for any consequential or incidental damages.

8.2 Service Procedures

If you have any questions, please contact your local store distributor.

If it becomes necessary to return the scan tool for repair, contact your local distributor for more information.

