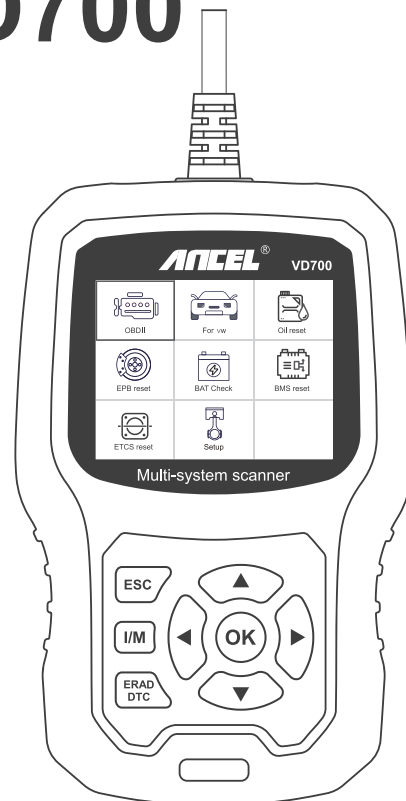


ANCEL[®]

USER'S MANUAL VD700



OBDSpace TECHNOLOGY CO.,LTD

Runfeng office longhua district Shenzhen Guang Dong 518000 P.R.China .

Phone:0755-81751202

E-mail: support@anceltech.com

Website: www.anceltech.com



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 .

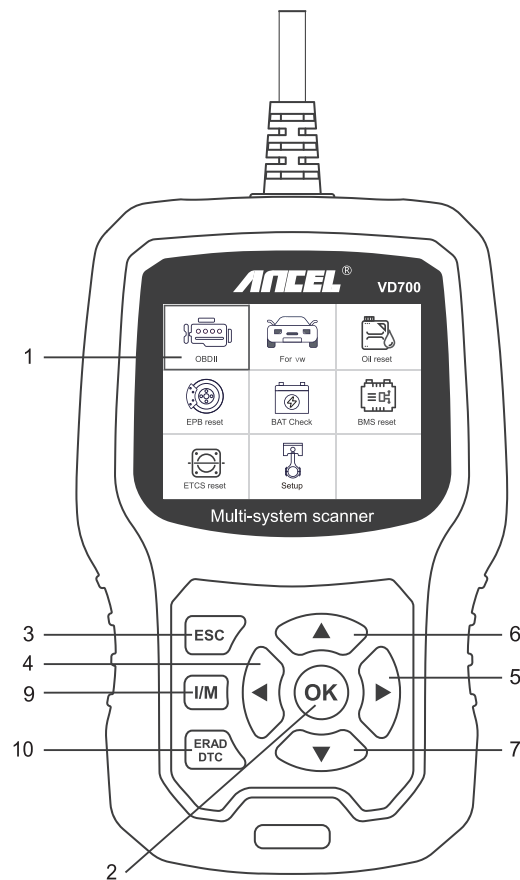
2) Supports all VW diagnostic protocols: UDS, TP20, TP16, KWP2000 and KWP1281.

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	✗
HCAT	⊘	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
4
5
1
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
↑ ↓ ← → OK ESC

01-Version Information
Serve station code: 01 81 CD
34 4C 04
Coding: 7505
↑ ↓ ← → OK ESC

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
↑ ↓ ← → OK ESC

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

Information
Erase fault codes!
Are you sure?
↑ ↓ ← → OK ESC

Information
Erase fault codes had success.
Please wait 10 seconds, Turn ignition off and Switch on again.
Read fault codes to verify.
↑ ↓ ← → OK ESC

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

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

Special Functions		CH:5
ASCLL Character	-	-
ASCLL Characte	-	-
Count		300
Count		365
1/3	↑ ↓ ← → OK ESC	

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

Input channel	
OK	
Delete	
0	Input a channel number
1	(0~255)
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)
↑ ↓ ← → OK ESC

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

07-Adaptation

Input channel

Select Function

1/2

Input channel

OK005

Delete

0

1

2

3

4

Input a channel number
(0~255)

3/12

↑↓←→OKESC

07-Adaptation

This function is not supported on this vehicle

Note!

When ten test function is abnormal,Please use the feedback function(tool setup)

↑↓←→OKESC

07-Adaptation

feedback) to save the test records, Carry out vehicle test again, then use the upgrade tool to export record file. Mail the file at last.

↑↓←→OKESC

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

Select Function

001 Tank Characteristic(F...

CH:002 Service reminder

CH:002 Restting Service In...

CH:002 Consumption display

CH:002 Consumption Corre...

CH:002 Language

CH:002 Langune for error ...

1/84

Input channel

OK005

Delete

0

1

2

3

4

Input a channel number
(0~255)

3/12

↑↓←→OKESC

2.1.1.7 Access Authorization

Select Function

01-Version Information

02-Read Fault Codes

03-Erase Fault Codes

04-Read Datastream

05-Basic Setting

07-Adaptation

08-Access Authorization

7/7

08-Access Authorization

OK

Delete

0

1

2

3

4

Login code (Enter five decimal digits)

3/12

↑↓←→OKESC

2.1.2 Gate way

Select System

0017-Dash Board4

0019-Gateway5

0061-Battery Regulation1

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

2/7

More further operations, please refer to 2.1.1.1 to 2.1.1.7

2.1.3 Battery Regulation

Select System

0017-Dash Board4

0019-Gateway5

0061-Battery Regulation1

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

2/7

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 Menu
Common System
All Systems
1/2

Select System
0001-Engine Control Modu...
0002-Transmission Contro...
0003-Brakes 1
0008-Air Conditioning
0009-Central Electrics
0015-Airbag
0016-Steering Column Ele...
1/14

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

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

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

Select Menu
Common System
All Systems
2/2

Select System
0001-Engine Control Modu...
0002-Transmission Contro...
0003-Brakes 1
0008-Air Conditioning
0009-Central Electrics
0015-Airbag
0016-Steering Column Ele...
1/14

2.3 Crafter (LT3) test:

Select Menu
System Scan
System Selection
Crafter(LT3) 2006-2017
Special Functions
3/4

Select Menu
System Scan
Manual Select
2/2

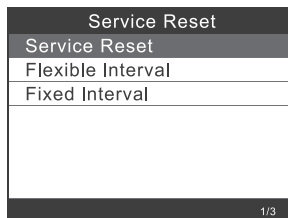
Scanning...[3%]
0001-Engine Control Modu...
1/1

2.4 Special Functions: Choose [Special Functions],

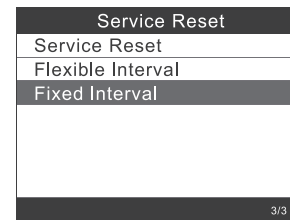
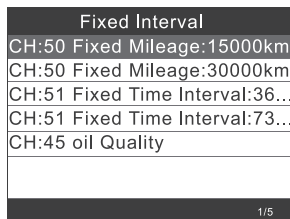
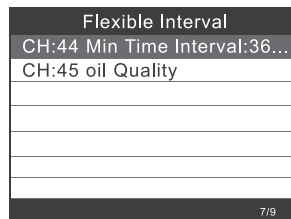
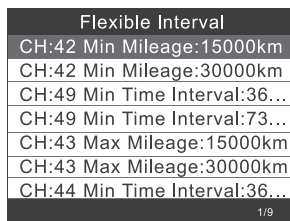
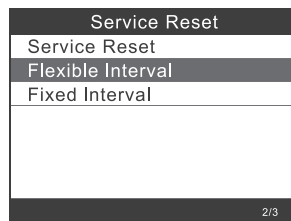
Select Menu
System Scan
System Selection
Crafter(LT3) 2006-20
Special Functions
3/4

Special Functions
Service Reset
Throttle Learning
EPB ReplaceBrakePads
Diesel Engine Special Fun...
Steering Angle Learning
Tire Pressure Reset(TPMS)
Injector Adaptation
1/7

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



Choose [Flexible Interval], It displays as follows:

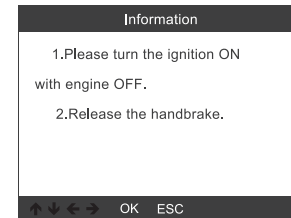
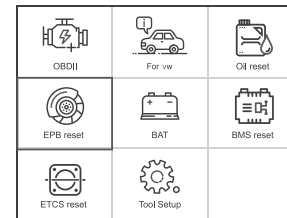


Remark: Before setting the maintenance interval, do set the corresponding [oil quality]

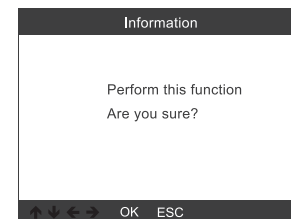
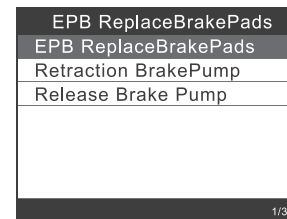
If vehicle uses UDS protocol, you could do inspection due reset, service reset, and mileage and time settings. Settings of mileage and time support be input manually with any value you want.

3. EPB reset

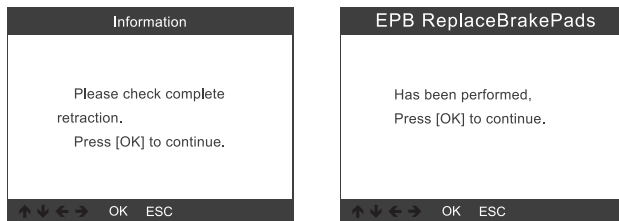
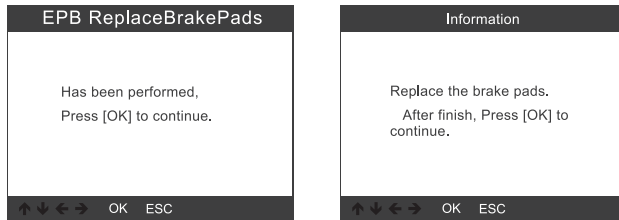
Choose [EPB reset], press [OK] button to continue



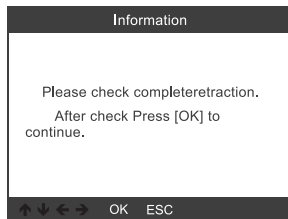
3.1 Choose [EPB replace brake pads], press [OK] button to continue:



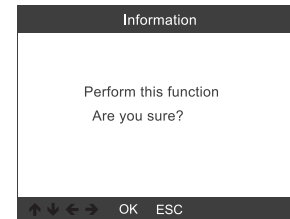
Retract the brake pump , please pay attention to the operation tips, and press [OK] button to continue:



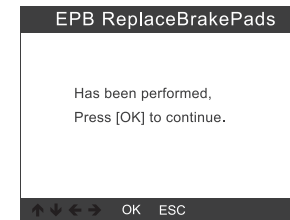
3.1.1 Check whether the brake pump is completely released.
The operation of replacing the brake pads is finished, press [OK] to complete



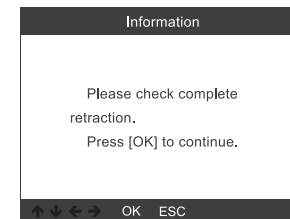
3.2 Choose [Retraction Brackpump] , press [OK] to continue:



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
EPB ReplaceBrakePads
Retraction BrakePump
Release Brake Pump
1/3

Information
Perform this function Are you sure?
↑ ↓ ← → OK ESC

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

EPB ReplaceBrakePads
Has been performed, press [OK] to continue.
↑ ↓ ← → OK ESC

Information
Please check complete release After finish, press [OK] to continue.
↑ ↓ ← → 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
95Ah
110Ah
68Ah
75Ah
92Ah
105Ah
115Ah
8/20

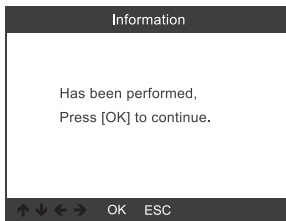
Select battery manufacturer
Mol[MLA]
VARTA[VAO]
JCI/JCB[JCB]
Exide[TU3]
JFF(Boading)/China[5D0]
Banner[BA2]
EPN[EPM]
1/8

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

4.3 Press [OK] button to continue:

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

Battery Registration
Press [OK] to continue Matching New Battery Value Capacity(Ah) :95Ah Manufacturer :VARTA[VAO].
↑ ↓ ← → 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.

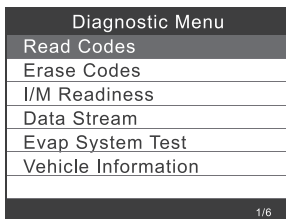
Pending Codes are also referred to as "maturing codes" or "continuous monitor codes".

It indicates the problem that control module has detected during the current or last driving cycle, but they are not considered seriously.

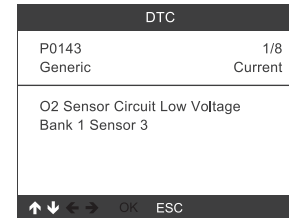
Pending Codes will not turn on the malfunction indicator light, and codes will be cleared from memory if there is no failure during the following warm-up period

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.

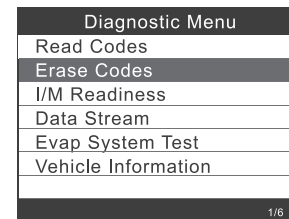


The control module number, sequence of the DTCs, total number of codes detected and type of codes (Generic of Manufacturer specific) will be observed on the upper right hand corner of the display.

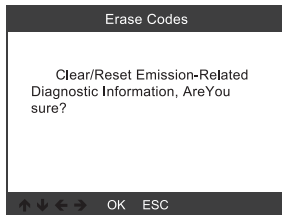
5.2 Erase Codes

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.

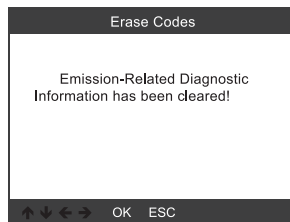
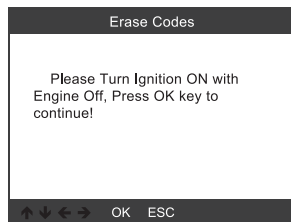
1) Use the UP/DOWN scroll buttons to select Erase Codes from the Diagnostic Menu and press [OK].



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



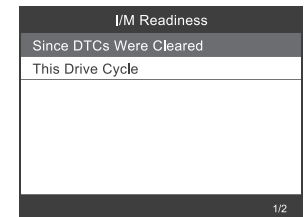
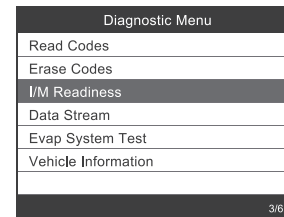
3) Press [OK] to confirm.



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.

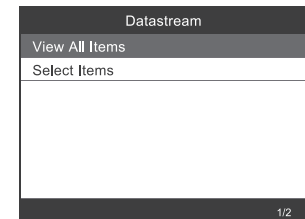
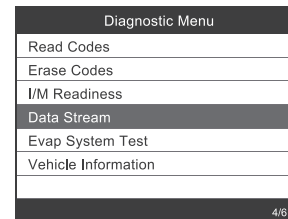
The I/M readiness Monitor Status function also can be used (after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/ or to check for Monitor Run Status.



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): LVSFBFAC94F020950
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

Instrucions(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.

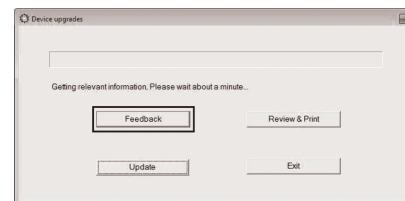
Download upgrade file on the computer from ANCEL website.
The device is connected with computer through USB cable.



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:

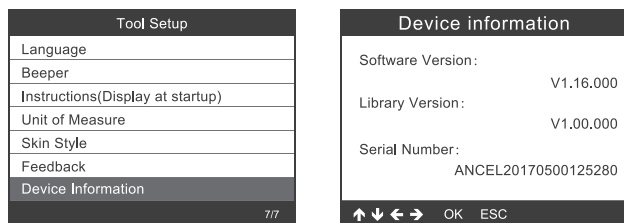


名称	修改日期	类型	大小
bin	2019/5/22 10:07	文件夹	
driver	2019/5/22 10:06	文件夹	
README.txt	2019/5/21 19:30	文本文档	1 KB
Update.exe	2019/5/21 19:30	应用程序	9,166 KB
Feedback.bin	2019/7/24 11:10	BIN 文件	128 KB

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

6.7 Device information

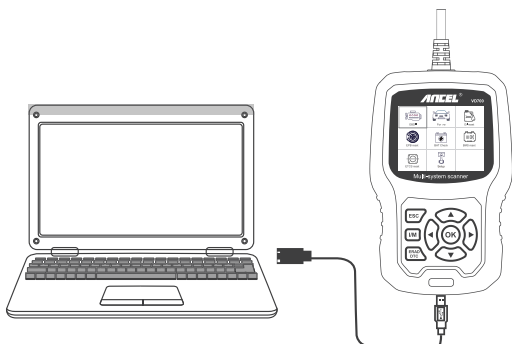
Choose Device information and it displays as follows:



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.

