ANCEL®

USER'S MANUAL
BM500

ANCEL® BM500

OBD II	For bmw	Oil reset
EPB reset	BAT	BMS reset
ETC reset	Tool setup	

Multi-system scanner
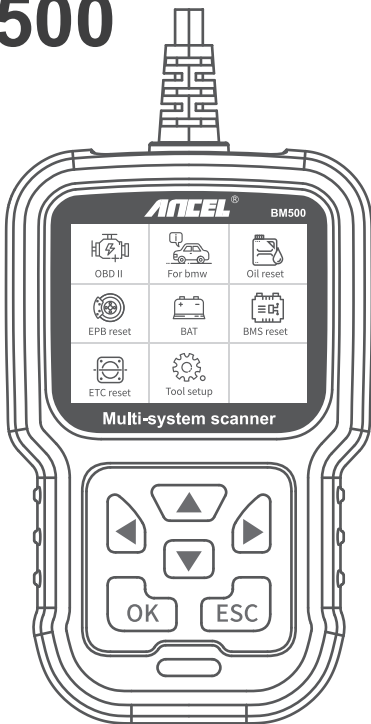
SAFETY PRECAUTIONS

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

Always perform automotive testing in a safe environment.
Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
Wear safety eye protection that meets ANSI standards.
Operate the vehicle in a well ventilated work area: Exhaust gases are Poisonous.
Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.

ABOUT BM500

1. Coverage
1) BM500 supports for BMW, Mini and Rolls-Royce brand cars. It works on all the systems such as engine, transmission, ABS and airbag etc.
2) Supports OBDII/EOBD Modes of operation.

2. Product specification
• 2.4" 240x320 pixels LCD 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
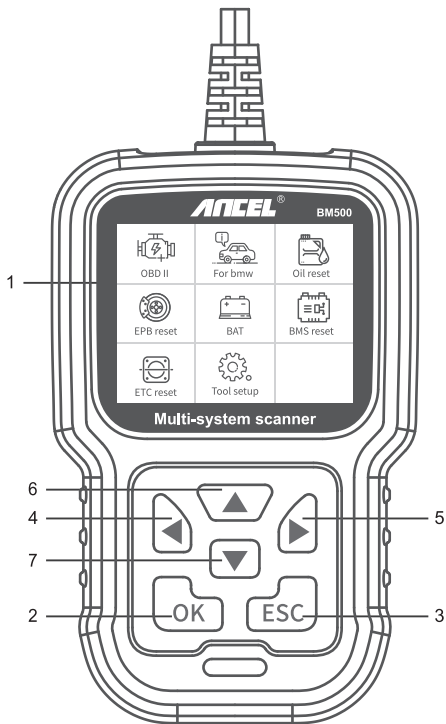
1. LCD SCREEN – Indicates test results. Backlit, 320 x 240 pixels display
2. [OK] BUTTON – Confirms a selection (or action) from a menu.
3. [ESC] BUTTON – Cancels a selection (or action) from a menu or returns to the menu.

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.

OPERATION INSTRUCTIONS

1. Connect BM500
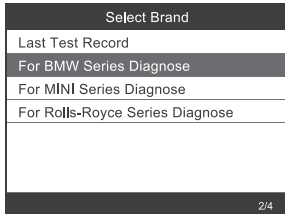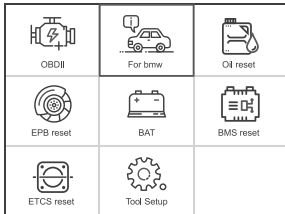
1.1 Turn the ignition on.

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

2. BM500 Features

2.1 For bmw

Choose [For bmw] and then select [For BMW Series Diagnose]. The screen will show all car series. As follow:

For example: Choose [For 5 Series] and select [G38(2017-Present)], it displays as follow:

Select Series
For 1 Series
For 2 Series
For 3 Series
For 4 Series
For 5 Series
For 6 Series
For 7 Series
5/11

Select Chassis
G38(2017-Present)
8/8

2.2 Basic Functions

Choose [Basic Functions] and it displays as follow:

Select Function
Basic Functions
Special Functions
Erase All Systems Fault Codes
1/3

System scan is to scan all vehicle systems.

Manual Select is to display all possible systems, select one of the systems to diagnosis.

Choose [Manual Select] and it displays as follows:

Select Menu
System Scan
Manual Select
2/2

Select System Diagnose
CAS Car Access System
ECM Engine Control Module
ECM2 Engone Control Module 2
EGS/SMG Transmission Manag
EKPS Fuel-pump Control
GWS Gear Selector Switch
VTG Transfer Case
1/86

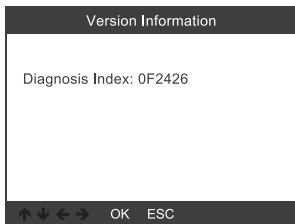For example: Choose [ECM Engine Control Module] and it displays as follows:

Select System Diagnose	
CAS Car Access System	
ECM Engine Control Module	
ECM2 Engone Control Module 2	
EGS/SMG Transmission Manag	
EKPS Fuel-pump Control	
GWS Gear Selector Switch	
VTG Transfer Case	2/86

Select Function	
Version Information	
Read Fault Codes	
Erase Fault Codes	
Read Datastream	
	1/4
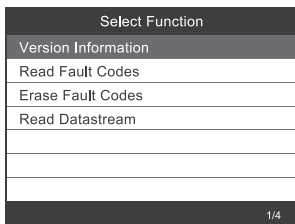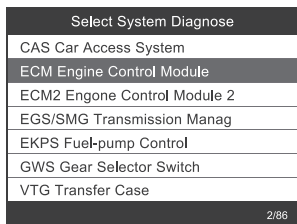
2.2.1 Version Information

Choose [Version Information] and it displays as follows:

Select Function	
Version Information	
Read Fault Codes	
Erase Fault Codes	
Read Datastream	
	1/4

Version Information
Diagnosis Index: 0F2426
↑ ↓ ← →   OK   ESC
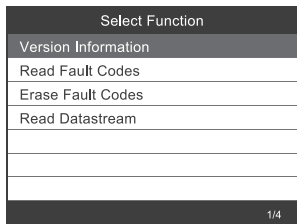
2.2.2 Read Fault Codes

Choose [Read Fault Codes]. Press up or down button to check each fault code as follows:

Select Function	
Version Information	
Read Fault Codes	
Erase Fault Codes	
Read Datastream	
	2/4

Read Fault Codes	
	1/20
29CF Combustion misfires Cylinder 3	
↑ ↓ ← → OK ESC	
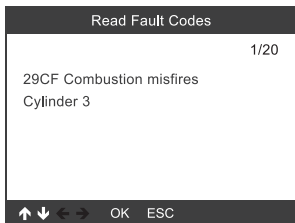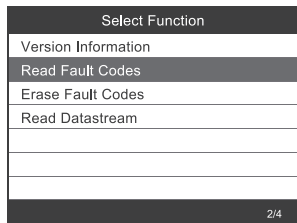
2.2.3 Erase Fault Codes

Choose [Erase Fault Codes] then press [OK] button as follows:
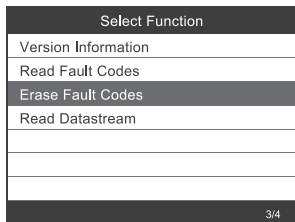
Select Function		Information

Select Function	
Version Information	
Read Fault Codes	
Erase Fault Codes	
Read Datastream	
	3/4

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

You need to press [OK] again to clear the fault codes, or you can press [ESC] button to give up clearing fault codes, as follows:
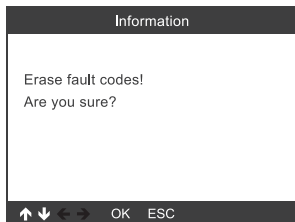
Version Information
Erase fault codes had success.
Please wait 10 seconds, Turn ignition
off and Switch on again.
Read fault codes to verify.
↑ ↓ ← →   OK   ESC
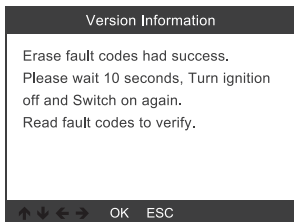
2.2.4 Read Datastream

Choose [Read Datastream] then press [OK] button as follow:

Select Function
Version Information
Read Fault Codes
Erase Fault Codes
Read Datastream
4/4

Choose [Select Items] and press [OK] button as follows:

Select Function
View All Items
Select Items
2/2

Select Datastream	
[v]	All Datastream Of Page
[v]	Engine speed[rpm]
[v]	DISA potentiometer voltage[v]
[v]	Throttle opening[%]
[v]	Throttle opening[%]
	1~4/6

Press [LEFT] and [RIGHT] buttons to page

Press [UP] and [DOWN] buttons to select one by one

Press [OK] button to select the Datastream

Press [ESC] button to read Datastream

2.3 Special Functions

Choose [Special Functions] function step by step and it displays as follows:

Select Function
Basic Functions
Special Functions
Erase All Systems Fault Codes
2/3

Special Function
CBS Reset
PCM Clear adaptations
Battery Management
EPB Electronic Parking Brake
2/4

EN

2.3.1 CBS Functions

Choose [CBS Reset] function step by step and it displays as follow:

Special Function	
CBS Reset	
PCM Clear adaptations	
Battery Management	
EPB Electronic Parking Brake	
	1/4

Special Funcetions	
Engine oil: 73%	
Vehicle check: 100%	
Front Brake: 99%	
Rear Brake: 98%	
Brake fluid: 98%	
Microfilter: 98%	
Vehicle inspection	
	1/8

2.3.2 PCM Clear adaptations

Choose [PCM Clear adaptations] function step by step and it displays as follows:

Special Function	
CBS Reset	
PCM Clear adaptations	
Battery Management	
EPB Electronic Parking Brake	
	2/4

Special Functions	
Clear adaptations	
DME:Delete adaptation variable	
	2/2

Special Functions	
(1)	The adaptation values can be reset in the next test step.
	(1).Reset VANOS adaptation values.
1/1 ↑ ↓ ← → OK ESC	

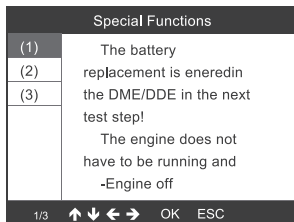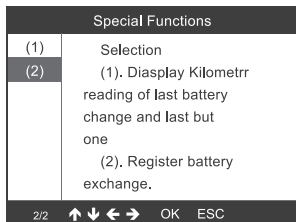| Special Functions	
	Service function finished
1/2 ↑ ↓ ← → OK ESC	

2.3.3 Battery Management

Choose [Battery Management] function step by step and it displays as follows:

Special Function	
CBS Reset	
PCM Clear adaptations	
Battery Management	
EPB Electronic Parking Brake	
	3/4

Special Functions	
(1)	Selection
(2)	(1). Diasplay Kilometrr reading of last battery change and last but one
	(2). Register battery exchange.
1/2 ↑ ↓ ← → OK ESC	
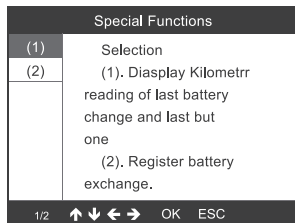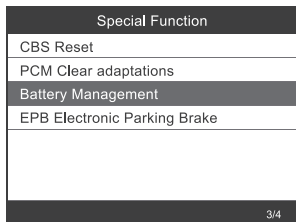
Step 1: Use the up or down button to select the (2) option and press the [OK] button to achieve register battery replacement and display the following menu:

Special Functions	
(1)	Selection
(2)	(1). Diasplay Kilometrr reading of last battery change and last but one
	(2). Register battery exchange.
2/2 ↑ ↓ ← → OK ESC	

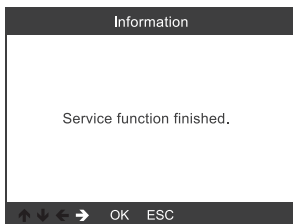| Special Functions	
(1)	The battery replacement is eneredin the DME/DDE in the next test step!
(2)	
(3)	
	The engine does not have to be running and
	-Engine off
1/3 ↑ ↓ ← → OK ESC	

Step 2: Use the up or down button to select the (1) option and press the [OK] button to display the following menu:

Special Functions
The battery replacement is entered in the engine electronics(DME or DDE) Please wait!
↑ ↓ ← → OK ESC

Special Functions
The battery replacement was registered successfully in the DME/DDE) The following is now entered in the DME/DDE: Last battery replacement:
↑ ↓ ← → OK ESC
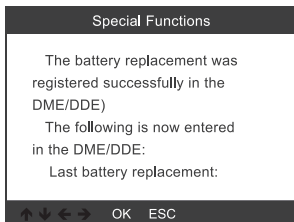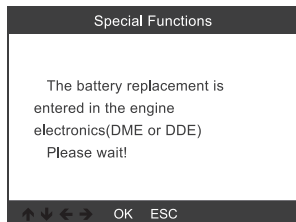
2.3.4 EPB Electronic Parking Brake

Choose [EPB Electronic Parking brake] function step by step and it displays as follows:

Special Function	
CBS Reset	
PCM Clear adaptations	
Battery Management	
EPB Electronic Parking Brake	
	4/4

EPB Parking brake	
(1).Activate the installation positi	
(2).Deactivate the installation p...	
	1/2

Information
Initialisation was completed successfully.
If faults occurred during this, they must be processed according to the test schedule.
↑ ↓ ← →   OK   ESC

Information
Service function finished.
↑ ↓ ← →   OK   ESC
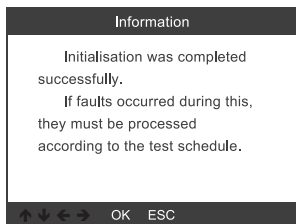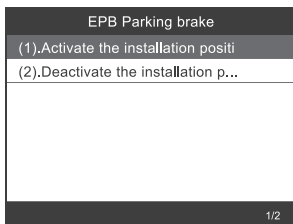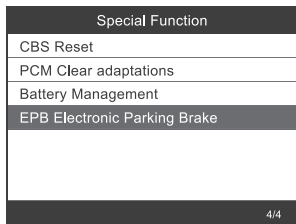
Note: The special features of each model are different, please according to the actual operation.

2.4 Erase All Systems Fault Codes

Choose [Erase All Systems Fault Codes] and it displays as follows:
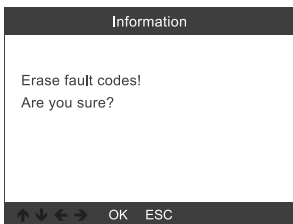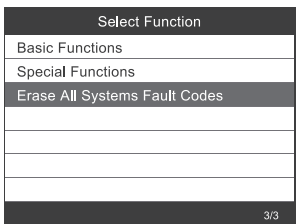
Select Function	
Basic Functions	
Special Functions	
Erase All Systems Fault Codes	
	3/3

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

You need to press [OK] again to clear the fault codes. Or you can press [ESC] button to give up clearing fault codes. It shows as the follow after clearing the fault codes.
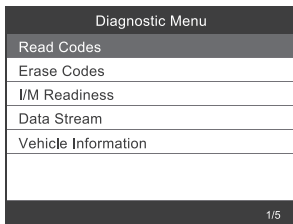
```
┌─────────────────────────────┐
│        Information          │
├─────────────────────────────┤
│                             │
│  Erase fault codes had      │
│  success.                   │
│  Please wait 10 seconds, Turn│
│  ignition off and Switch on again.│
│  Read fault codes to verify.│
│                             │
│                             │
├─────────────────────────────┤
│  ↑ ↓ ← →      OK   ESC      │
└─────────────────────────────┘
```
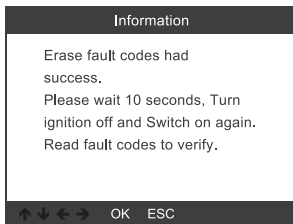
Note: For BMW car after 2003.

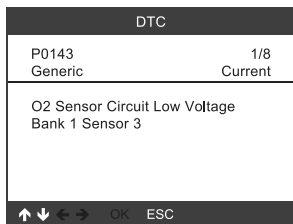# 3. OBDII System

3.1 Read Codes

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

```
┌─────────────────────────────┐
│      Diagnostic Menu        │
├─────────────────────────────┤
│  Read Codes                 │
│  Erase Codes                │
│  I/M Readiness              │
│  Data Stream                │
│  Vehicle Information        │
│                             │
│                             │
│                        1/5  │
└─────────────────────────────┘
```

2) View DTCs and their definitions on screen.

```
┌─────────────────────────────────────┐
│                 DTC                  │
├─────────────────────────────────────┤
│  P0143                          1/8  │
│  Generic                    Current  │
├─────────────────────────────────────┤
│  O2 Sensor Circuit Low Voltage       │
│  Bank 1 Sensor 3                     │
│                                      │
│                                      │
│                                      │
├─────────────────────────────────────┤
│  ↑ ↓ ← →   OK   ESC                  │
└─────────────────────────────────────┘
```
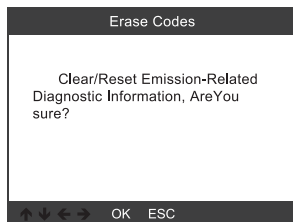
3.2 Erase Codes

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

```
┌─────────────────────────────────────┐
│           Diagnostic Menu            │
├─────────────────────────────────────┤
│  Read Codes                          │
│  Erase Codes                         │
│  I/M Readiness                       │
│  Data Stream                         │
│  Vehicle Information                 │
│                                      │
│                                 2/5  │
└─────────────────────────────────────┘
```
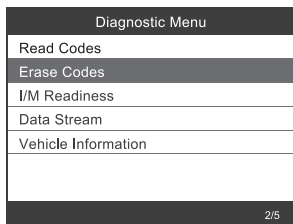
2) A warning message comes up asking for your confirmation.

```
┌─────────────────────────────────────┐
│             Erase Codes              │
├─────────────────────────────────────┤
│                                      │
│      Clear/Reset Emission-Related    │
│    Diagnostic Information, AreYou     │
│    sure?                              │
│                                      │
│                                      │
│  ↑ ↓ ← →   OK   ESC                  │
└─────────────────────────────────────┘
```

3) Press [OK] to confirm.

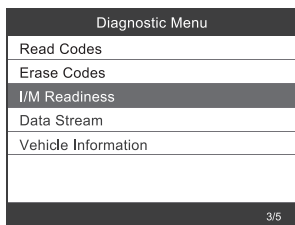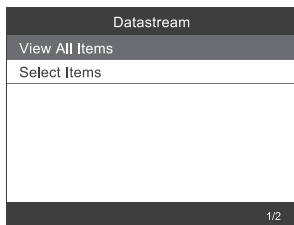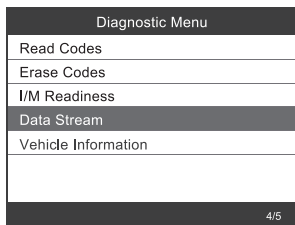| Erase Codes	Erase Codes
Please Turn Ignition ON with Engine Off, Press OK key to continue!	Emission-Related Diagnostic Information has been cleared!
↑ ↓ ← → OK ESC	↑ ↓ ← → OK ESC
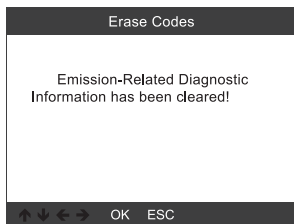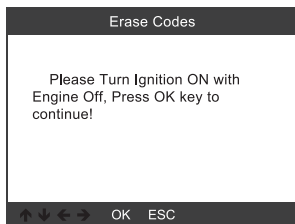
3.3 I/M Readiness

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

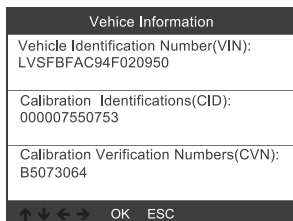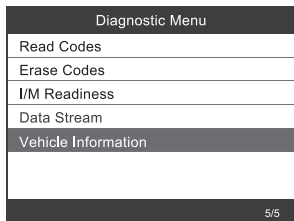| Diagnostic Menu	I/M Readiness
Read Codes	Since DTCs Were Cleared
Erase Codes	This Drive Cycle
I/M Readiness	
Data Stream	
Vehicle Information	
3/5	1/2
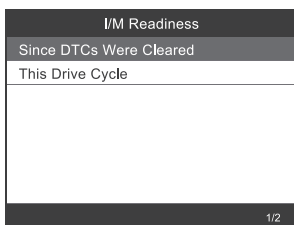
3.4 Data Stream

Use the UP/DOWN scroll button to select Data Stream from the Diagnostic Menu and press [OK].

Diagnostic Menu	Datastream
Read Codes	View All Items
Erase Codes	Select Items
I/M Readiness	
Data Stream	
Vehicle Information	
4/5	1/2

13

3.5 Vehicle Information.

Select [Vehicle Information] and press [OK],the screen will display the formation such as VIN (Vehicle identification Number) , CID (Calibration ID)and CVN (Calibration verify number).
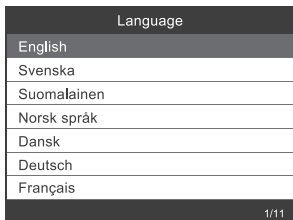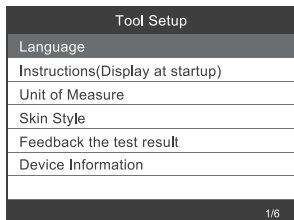
Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Vehicle Information	
	5/5

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

4. Tool Setup

4.1 Language

Choose [Language] and it displays as follows:
Interface languages：English, French, German, Spanish, Russian, Portuguese, Sweden, Finland, Norway, Denmark, Italian.

Tool Setup	
Language	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
	1/6

Language	
English	
Svenska	
Suomalainen	
Norsk språk	
Dansk	
Deutsch	
Français	
	1/11

4.2 Instructions (Display at startup)

Choose [Instructions (Display at startup)] and it displays as follows:

Tool Setup	
Language	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
	2/6

Beeper	
OFF	
ON	
	1/2

4.3 Unit of measure

Choose Unit of measure and it displays as follows:

Tool Setup	
Language	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
	3/6

Unit of measure	
Mertic	
Imperial	
	1/2

4.4 Skin Style

Choose Unit of measure and it displays as follows:

Tool Setup	
Language	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
	4/6

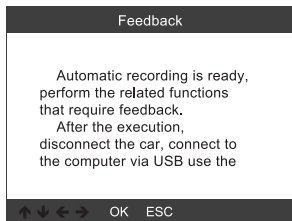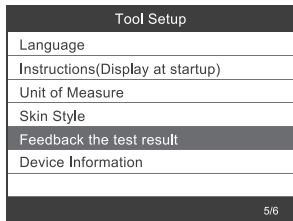| Skin Style	
Sky Gray	
Gem Blue	
	1/2

4.5 Feedback the test result

1. If it shows connected error with vehicle or other problem during using, please using the feedback function. Choose [Feedback the test result] and it displays as follows:

Tool Setup	
Language	
Instructions(Display at startup)	
Unit of Measure	
Skin Style	
Feedback the test result	
Device Information	
	5/6

Feedback
Automatic recording is ready, perform the related functions that require feedback. After the execution, disconnect the car, connect to the computer via USB use the
↑ ↓ ← →   OK   ESC

Next : Press ESC Button several times and return to the main menu.

2. For example: Register battery change fail.
Select [Register battery change] option, and do Register battery change again (This step is very important).
Note : Keep tool connect with vehicle in above steps.
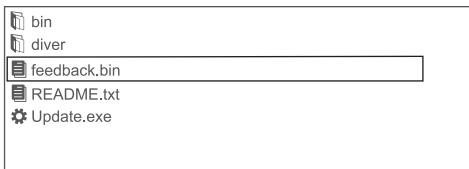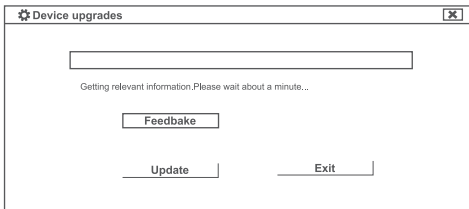3.After doing register battery change, disconnect with car
4. Transfer data to your computer and generate feedback file (You need to download upgrade file on the computer from ANCEL website).The device is connected with computer through USB cable.
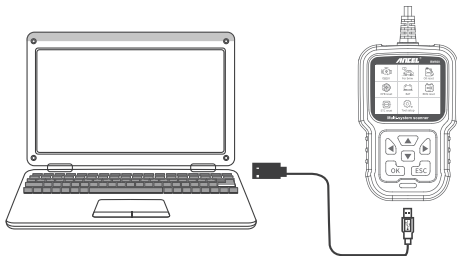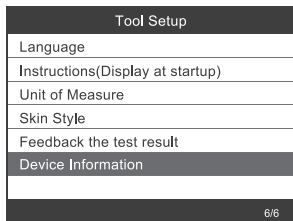
Choose "Update" file and it displays as follow:

```
📄 bin
📄 diver
📘 README.txt
⚙ Update.exe
```
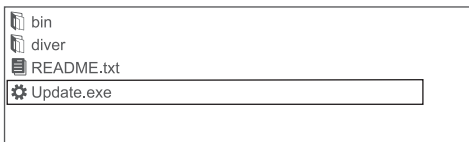
Click "Feedback" and it displays as follow:

```
⚙ Device upgrades                                          ✕

  ┌──────────────────────────────────────────────┐
  └──────────────────────────────────────────────┘
        Getting relevant information.Please wait about a minute...

                    ┌──────────┐
                    │ Feedbake │
                    └──────────┘

            ┌──────────┐            ┌──────────┐
            │  Update  │            │   Exit   │
            └──────────┘            └──────────┘
```

```
📄 bin
📄 diver
📘 feedback.bin
📘 README.txt
⚙ Update.exe
```

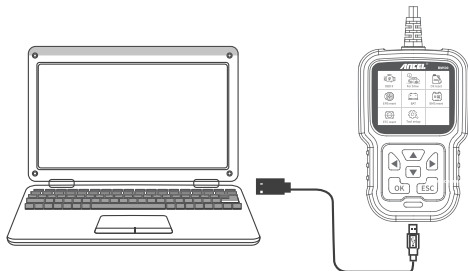Please send the feedback.bin file to support@anceltech.com

4.6 Device Information

Choose Device Information and it displays as follows:

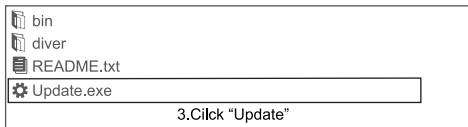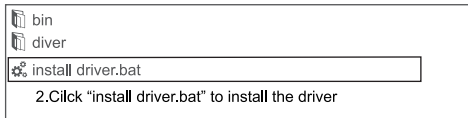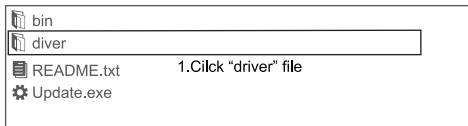| Tool Setup	Device Information
Language	Software Version:
Instructions(Display at startup)	01.00.000
Unit of Measure	Hardware Version:
Skin Style	01.00.000
Feedback the test result	Serial Number:
Device Information	ANCEL20170500173758
6/6	↑ ↓ ← → OK ESC

5. Update

1. Download update software.

2. Connect the devise with computer through USB cable.

3. The update software is only supported by win7/8/10.

* Click "install driver.bat" in the driver files to install the driver, if computer system is Windows 7

📁 bin
📁 diver
📄 README.txt   1.Cilck "driver" file
⚙ Update.exe

📁 bin
📁 diver
⚙ install driver.bat
2.Cilck "install driver.bat" to install the driver

📁 bin
📁 diver
📄 README.txt
⚙ Update.exe
3.Cilck "Update"

* Windows 8/10 can run update software directly.

Warranty

1) This warranty is limited to the person who purchases ANCEL products.

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

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