

AUTOPHIX[®]

USER'S MANUAL

9150



Safety precautions

To avoid body injury and damage to the device or your car, please read this manual carefully before using 9150.

1. The testing process described in the manual is generally the experience of technician.
2. Safety precaution is required in most of the process to avoid body injury and damage to the device or your car.
3. Read the vehicle maintenance manual before use this device and follow safety precautions.
4. 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.
5. 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.
6. Engine parts become very hot when the engine is running. Don't touch hot engine parts to avoid severe burns.
7. 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).
8. 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.

Coverage

1. Supports the vehicles of Ford, Lincoln and Mercury after 1996 with 16PIN Socket, including F150, Transit, VAN.
2. Supports OBDII/EOBD Modes of operation

Product specification

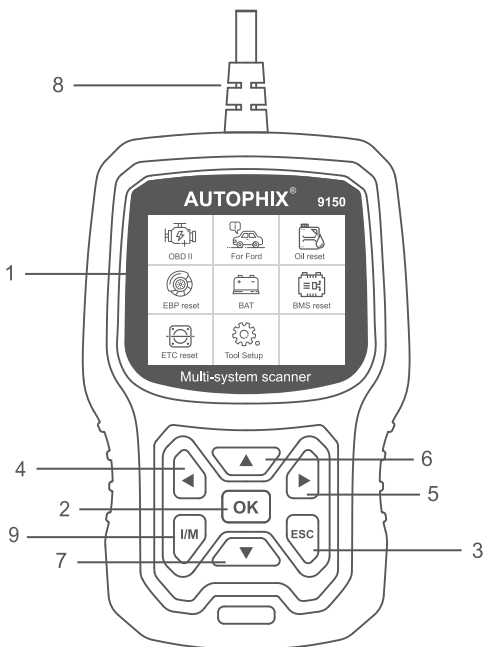
2.8"LCD,320 X 240 pixels color screen

Operating Voltage: 8V-18V


Operating Temperature: -10°C-60°C(14-140°F)

Storage Temperature: -20°C-70°C(4-158°F)

Appearance and Key Descriptions



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 –Move to left menu in main menu mode; When more than one screen of data is retrieved, use the left button could move to previous screens.
5. RIGHT SCROLL BUTTON –Move to right menu in main menu mode; When more than one screen of data is retrieved, use the right button could move to next screen for additional data.
6. UP SCROLL BUTTON –Moves up through menu items in main menu mode; When more than one screen of data is retrieved, use the up button could move to previous screens.
7. DOWN SCROLL BUTTON –Moves down through menu items in main menu mode; When more than one screen of data is retrieved, use the down button could move to next screen for additional data.
8. OBD-16PIN CONNECTOR – Connects the scan tool to vehicle's Data Link Connector (DLC).
9. "I/M" BUTTON - A snapshot of emission-related systems states - i.e., misfire monitor, EVAP system monitor etc.

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

Remarks:

MIL Yellow- Dashboard MIL ON

MIL Gray-Dashboard MIL OFF

⊘ -not support

✓ -complete

✗ -not complete

OPERATION INSTRUCTIONS

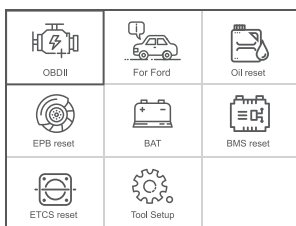
1. Connect 9150

1.1 Turn the ignition on.using 9150.

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



(Main interface)



(Main Menu)

1.3 Main menu functions :

[OBDII]: Detect the engine system.

[For Ford]: Test all systems.

[Oil reset]: Oil change reset

[EPB reset]: EPB Brake pad reset

[BAT]: To read real Time Battery Voltage

[BMS reset]: Battery management system reset

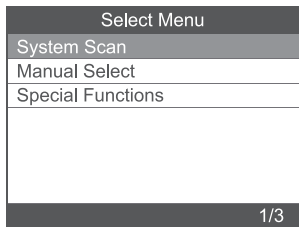
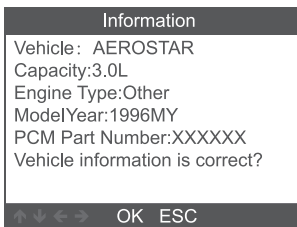
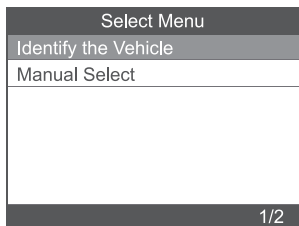
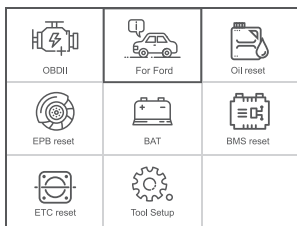
[ETC reset]: Electric Throttle Control reset

[Tool Setup]: Language / Beeper/Instructions (Display at startup)/Unit of Measure/Skin Style/Feedback the test result

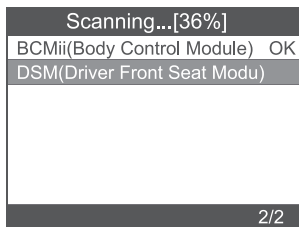
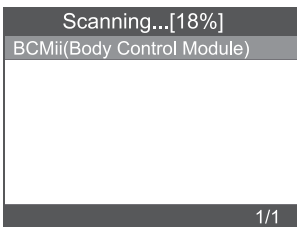
2. 9150 Features

2.1 Basic Functions

Choose [For Ford] and it displays as follows :



[System scan] is to scan all vehicle systems. Press [System scan] and it displays as follows :



Scanning...[81%]
BCMii(Body Control Module) OK
PCM(Power train Control M... OK
PDM(Passenger Front Door
3/3

Select System Diagnose
BCMii(Body Control Module) OK
PCM(Power train Control M... OK
1/2

[Manual select] is to display all possible systems, select one of the systems to diagnose.

Choose [Manual select] and it displays as follows :

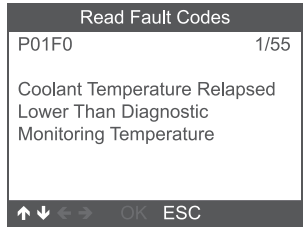
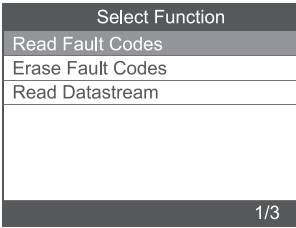
Select Menu
System Scan
Manual Select
Special Functions
2/3

Select System Diagnose
ABS(Antilock braking system)
BCMii(Body Control Module)
DDM(Driver Front Door Module)
DSM(Driver Front Seat Module)
GWM(Gateway Module A)
HVAC(Heating Ventiletion Air C..)
IPC(Intrument Panel Control M...)
1/11

Select System Diagnose
PCM(Power train Control Module)
PDM(Passenger Front Door Mo...
PSCM(Power Steering Control...
RCM(Restraint Control Module)
8/11

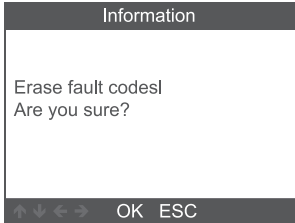
2.1.1 Read Fault Codes

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



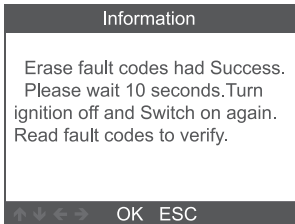
2.1.2 Erase Fault Codes

Choose [Erase Fault Codes] then press [OK] button, screen displays as follow:



You need to press [OK] again to clear the fault codes.

It shows as follow after clearing the fault codes.



If you give up clearing fault codes, please press [ESC] button.

2.1.3 Read Datastream

Choose [Read Datastream] then press [OK] button, screen displays as follows:

Select Function
Read Fault Codes
Erase Fault Codes
Read Datastream

3/3

Datastream
View All Items
Select Items

1/2

Choose [View All Items] then press [OK] button, screen displays as follow:

Datastream	
A/C Pressure Sensor Voltage[Voits]	1.40
A/C clutch output fault detected.	NO Fault
CMP and CKP Synchronized	Yes
o2s11 Status	NO Fault
o2s11 is warm and ready to operate.	Yes

1-5/471

Choose [Select Items] then press [OK] button, screen displays as follows:

Datastream
View All Items
Select Items

2/2

Select Datastream	
<input type="checkbox"/>	All Datastream of Page
<input type="checkbox"/>	A/C Pressure Sensor Voltage
<input type="checkbox"/>	A/C clutch output fault detected.
<input type="checkbox"/>	A/C Pressure sensor
<input type="checkbox"/>	CMP and CKP Synchronized

1-4/284

Press [LEFT] and [RIGHT] buttons to page.

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

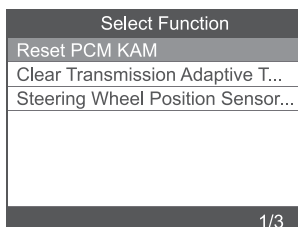
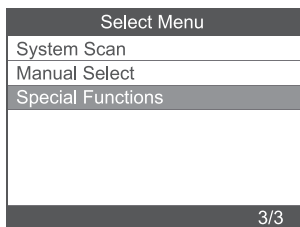
2.2 Main special functions

Different car models have different special functions.

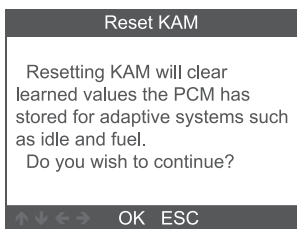
(Here are some common special functions. If you want to learn more about the special features of the 9150, please call or email us.)

2.2.1 Reset PCM KAM

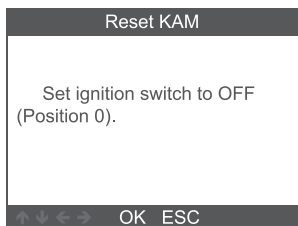
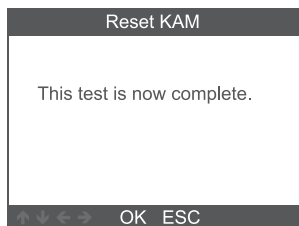
Choose [Special Functions] and it displays as follows:



Choose [Reset PCM KAM] and it displays as follow:

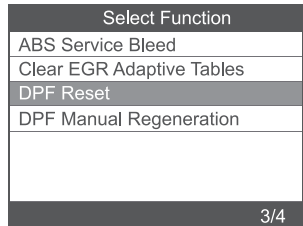
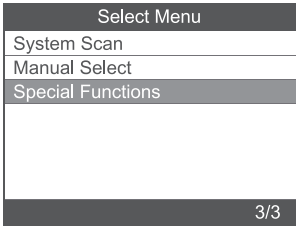


Press [OK] button to next and complete special function operation:

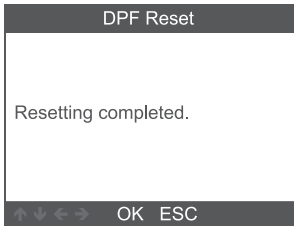


2.2.2 DPF Reset

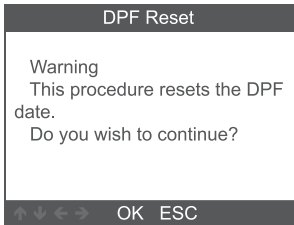
Choose [Special Functions] and it displays as follows:



Press [OK] button to next:



Press [OK] button to next:



2.2.3 Injector Quantity Adjustment

In the Engine system, choose [Special Function] and it displays as follow :

Select Function
ABS Service Bleed
Reset TCM KAM
Clear Transmission Adaptive T...
DPF Manual Regeneration
IQA

5/5

Choose [Injector Quantity Adjustment] and it displays as follows :

Injector Quantity Adjustment

Carry out this procedure to enter the new IQA date whenever a fuel in ject is replaced or to make a correction to the existing in jector IQA data currently stored in the PCM.

↑ ↓ ← → OK ESC

Injector Quantity Adjustment

On the following screen,the diagnostic tester will attempt to retrieve the in jector IQA data from the PCM allowing for verification and data entry.
Perform the following :

↑ ↓ ← → OK ESC

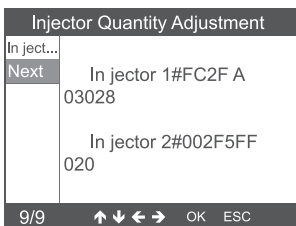
Press [OK] button to next step:

Injector 1

OK	
Delete	
0	
1	Enter the character IQA data
2	
3	
4	

3/38 ↑ ↓ ← → OK ESC

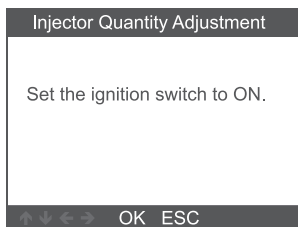
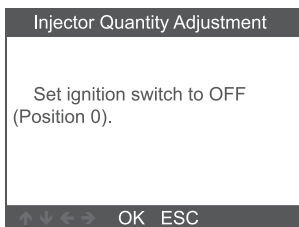
Press [OK] button, you will need to OK values manually and it displays as follow :



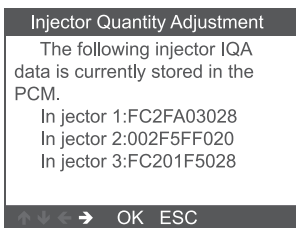
Press left button to character selection page down.

Press Right button to information page down.

Press [OK] button to next:



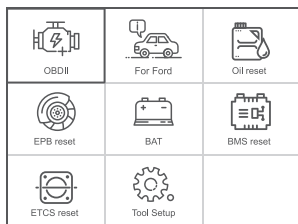
Press [OK] button to next:



Note: Different models may have different configurations and special features maybe different.

3 OBDII Diagnose

Choose [OBDII] and it displays as follows :



Select System Diagnose	
J1850 VPW	[fail]
J1850 PWM	[fail]
ISO15765-4 CAN (11bit)	[fail]
ISO15765-4 CAN (29bit)	[]
ISO14230-4 KWP	[]
ISO14230-4 KWP(5BPS)	[]
ISO9141	[]
Processing	

3.1 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 problems 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. Select [Read Codes], then press [OK]

Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Evap System Test	
Vehicle Information	
1/6	

If there are no Diagnostic Trouble Codes present, 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; Type of codes (Generic of Manufacturer specific))

DTC	
P1113	1/3
FORD	Pending
IAT Sensor Open/Short	
↑ ↓ ← → OK ESC	

3.2 Erase Codes

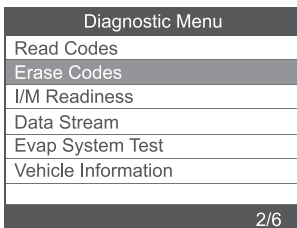
Notes:

This function is performed with key on engine off . Do not start the engine.

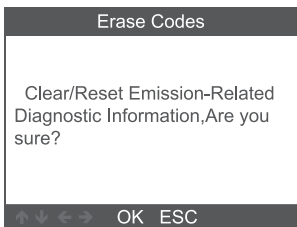
Before performing this function, make sure to retrieve and record the trouble codes.

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.

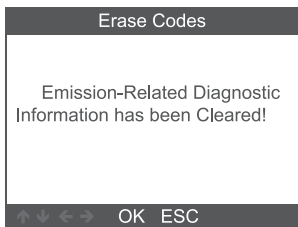
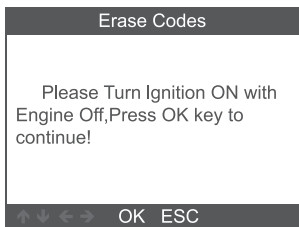
1. Select [Erase codes] , then press [OK]



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



3. Press [OK] to confirm.



3.3 I/M Readiness

Select I/M Readiness option, press [OK], the screen will display as follows:

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

3/6

I/M Readiness
Since DTCs Were Cleared
This Drive Cycle

1/2

Use UP or Down button to select, then press [OK], the screen will display as follow

I/M Readiness	
Misfire monitor	OK
Fuel system monitor	OK
Comprehensive component monitor	OK
Catalyst monitor	INC
Heated catalyst monitor	N/A

1-5/10

N/A means not available on this vehicle, INC means incomplete or not ready, OK means Completed or Monitor OK.

3.4 Data Stream

Choose [Data Stream] and it displays as follows:

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

4/6

Datastream
View All Items
Select Items

1/2

Datastream	
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	0.0%
Engine Coolant Temperature	-31°C
Short Term Fuel Trim-Bank 1	0.0%
1-5/19	

3.5 EVAP System 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

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

3.6 Vehicle Information

Choose [Vehicle Information] and it displays as follows:

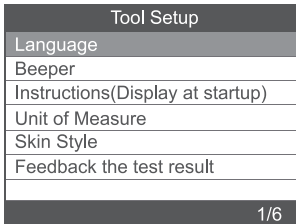
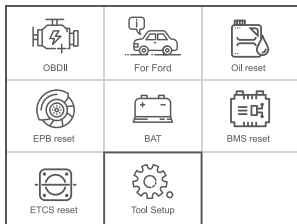
Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Evap System Test
Vehicle Information
6/6

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

4. Tool Setup

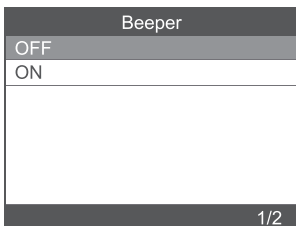
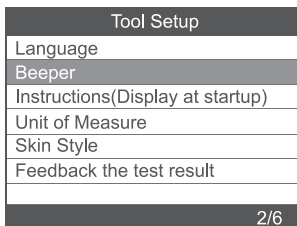
4.1 Language

Choose [Language] and it displays as follows:



4.2 Beeper

Choose [Beeper] and it displays as follows:



4.3 Instructions (Display at startup)

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

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

Instructions(Display at startup)
OFF
ON
1/2

4.4 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 the test result
4/6

Unit of Measure
Metric
Imperial
1/2

4.5 Skin Style

Choose Skin Style and it displays as follows:

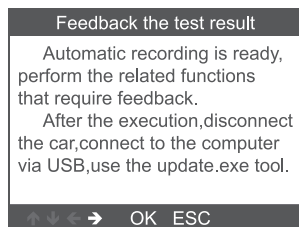
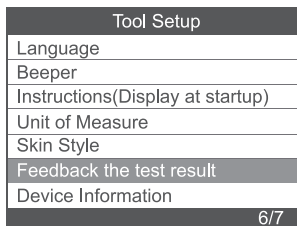
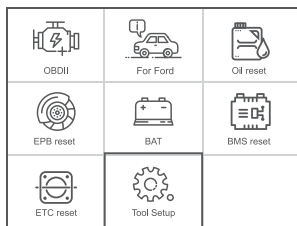
Tool Setup
Language
Beeper
Instructions(Display at startup)
Unit of Measure
Skin Style
Feedback the test result
5/6

Skin Style
Sky Gray
Gem Blue
1/2

4.6 Feedback

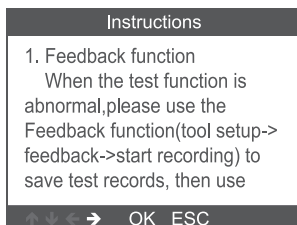
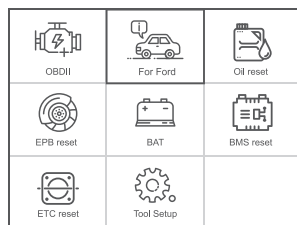
If it shows connected error with vehicle or other problem during using, please using the feedback function.

Choose [Tool Setup], click on the [feedback the test result menu] and it display as follows:

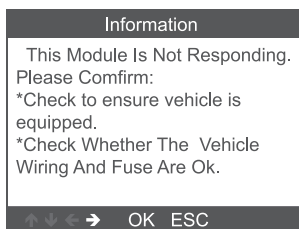
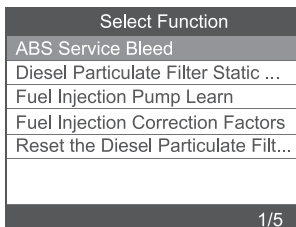
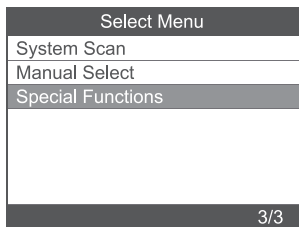
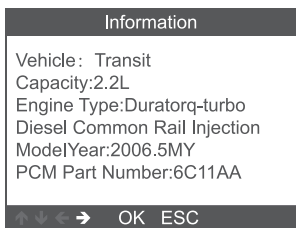
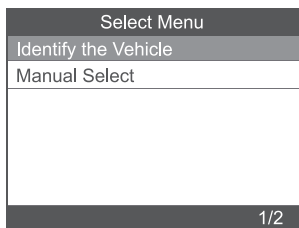


The device will display the “Feedback” prompt and exit the feedback menu. Press [Esc] to exit to the main menu.

For example: If the Ford ABS system fails to connect, please follow the steps below:

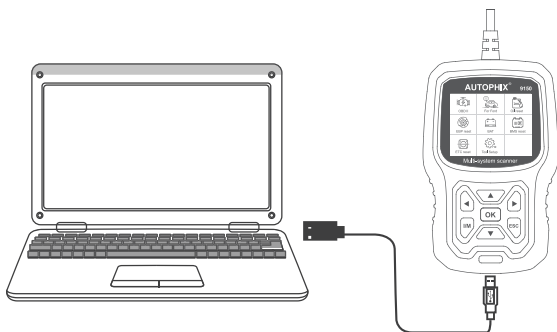


After exiting the feedback menu, return to the main menu: Open Ford menu, Enter the interface that failed to connect or the operation was unsuccessful during the diagnosis.

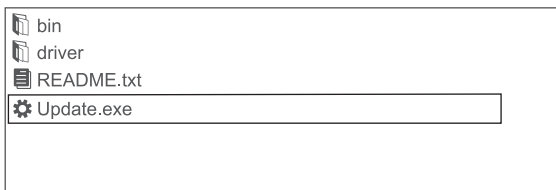


Note: In the above steps, the diagnostic instrument and the vehicle must be connected.

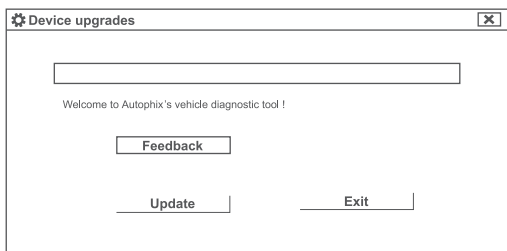
After the recording is successful, unplug the device to the computer to export the data.

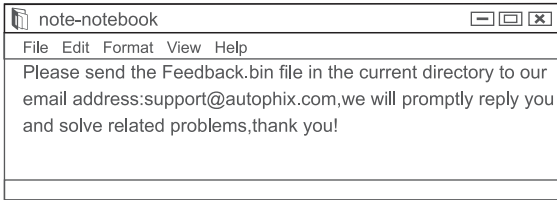


Connect tool with computer, Open the upgrade files, choose "Update".

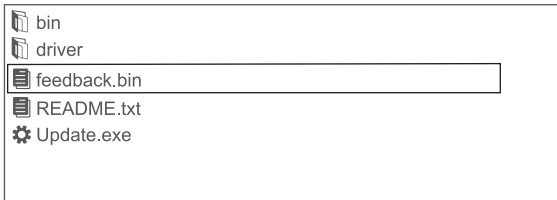


Then pop up: "Upgrade Tools" window, click "Feedback" will appear a TXT text to explain, Please follow the instructions.





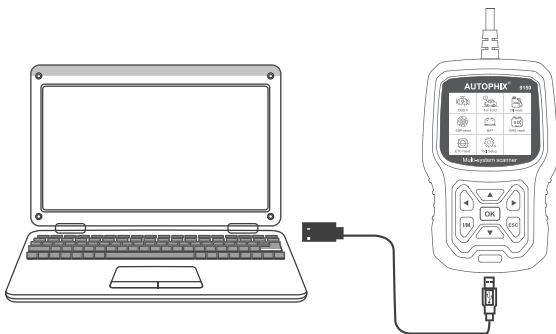
Choose the note file; send the Feedback.bin text to support@autophix.com .



Remark: In the above steps, keep the tool connected to the computer.

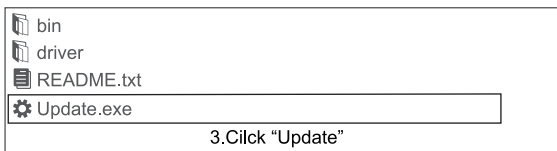
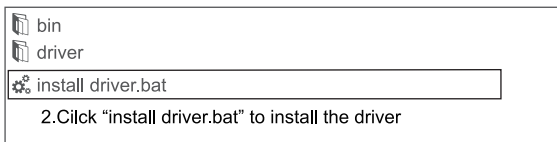
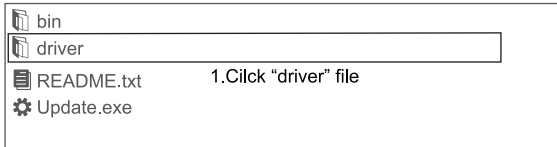
5. Update

- 1.Download update software.
2. Connect the devise with computer through USB cable.

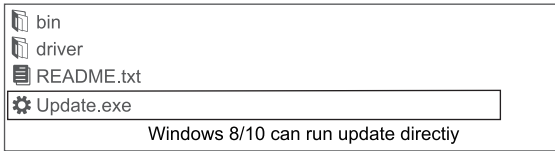


3. The update software is only supported by 7/8/10.

* If computer system is Windows 7, please click "install driver.bat" in the driver files to install the driver.



* Windows 8/10 can run update software directly.



6. Warranty

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

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

7. Service Procedures

If you have any questions, please contact your local store distributor or visit our website [www. autophix.com](http://www.autophix.com) .

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

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