



ACT301 SMART SCANNER

User Manual

V1.10

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1. Product Introduction

1.1. Introduction

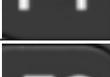
ACT301 is exclusively designed for Heavy Duty Diesels ,It Covers Cummins , Detroit, Paccar,International , Isuzu, Hino, UD, Scania and so on by OBDResource Electronics Co.,Ltd

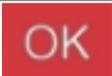
Note: Please refer to the menu for different products ,Here are for reference only.

2. Product Structure

2.1.Main Device



No.	Name	Description
1		Connect to vehicle via cable
2		Signal Light
3		Warning Light
4		Power Light
5		Return or Quit
6		Home
7		Help
8		Function Key
9		Function Key
10		Up
11		Down
12		Left

13		Right
14		Confirm

2.2 Technical Parameters

No.	Name	Description
1	CPU	240MHZ
2	Display	2.8 inch
3	Resolution Ratio	320*240
4	Interface	DB15 Port, USB Port
5	Power Supply	11-30V
6	Storage Temperature	-30~90°C
7	Working Temperature	-10~70°C
8	Humidity	<90%
9	Dimension	200*93*30mm

2.3 Configuration

- * Main Device
- * Main Cable
- * USB Cable
- * HD-9P adapter
- * HD-6P adapter

3. Product Operation

3.1. Device Connection

3.1.1. Connect the main cable to the vehicle or ECU,if the connector is 6/9 Pin, please use the HD-6P or HD-9P adaptor for conversion.

3.1.2. After the device is connected, please turn the ignition on, the device will be on for next step.

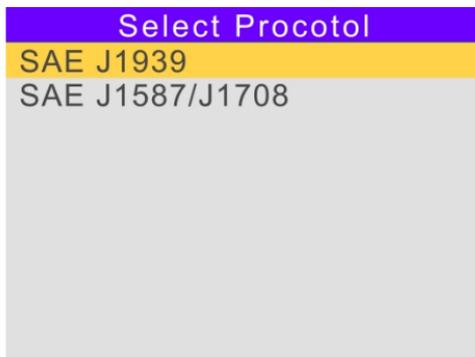
Main Menu



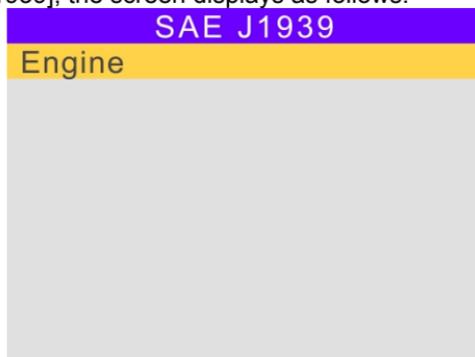
3.2. Operation Display

3.2.1. Read/Erase codes HeavyDuty Vehicle OBD Code by entering [Diagnose]:

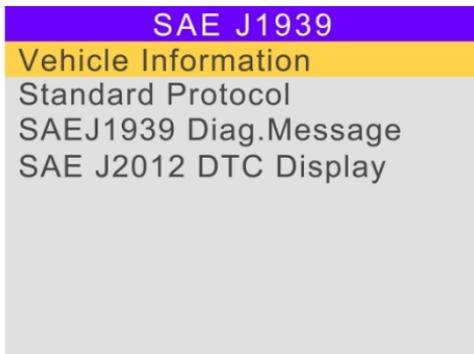
Select [Diagnose], then press [OK] to confirm.



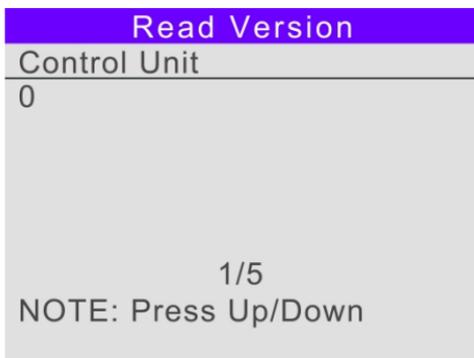
Select [SAE J1939], the screen displays as follows.



Select [Engine], the screen displays as follows.



Select [Vehicle Information], the screen displays as follows.



Read Version

Engine Manufacturer

CUMMINS

2/5

NOTE: Press Up/Down

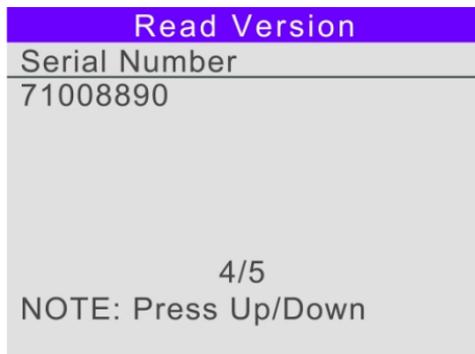
Read Version

Engine Model

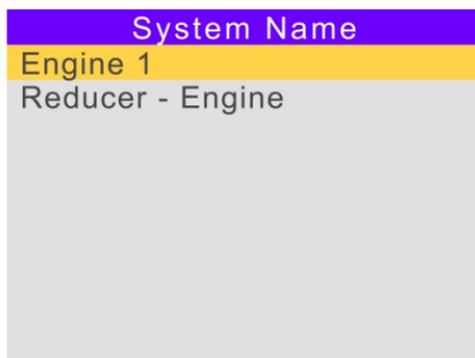
ISM CM570

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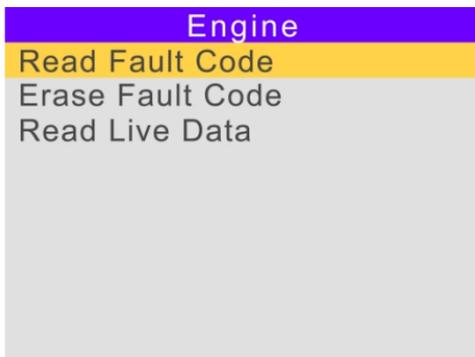
NOTE: Press Up/Down



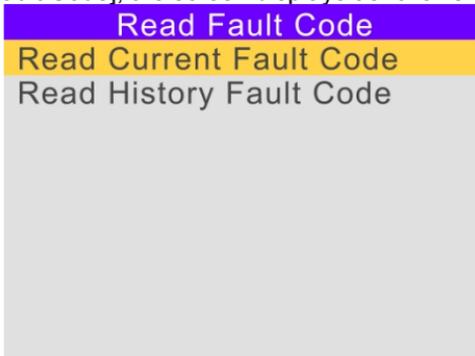
Select [Standard Protocol], if Access ECU or Vehicle Successfully,the screen displays as follows.



Select [Engine 1], the screen displays as follows.



Select [Read Fault Code], the screen displays as follows.



Select [Read Current Fault Code], the screen displays as follows.

Read Current Fault Code	
SPN0097	1/3
OC = 1 FMI=3 - Voltage above Normal or Short Circuit to High Voltage	
SPN 97 Water in Fuel Indicator	

Read Current Fault Code	
SPN0100	2/3
OC = 1 FMI= 4 - Voltage above Normal or Short Circuit to Low Voltage	
SPN 100 Engine Oil Pressure	

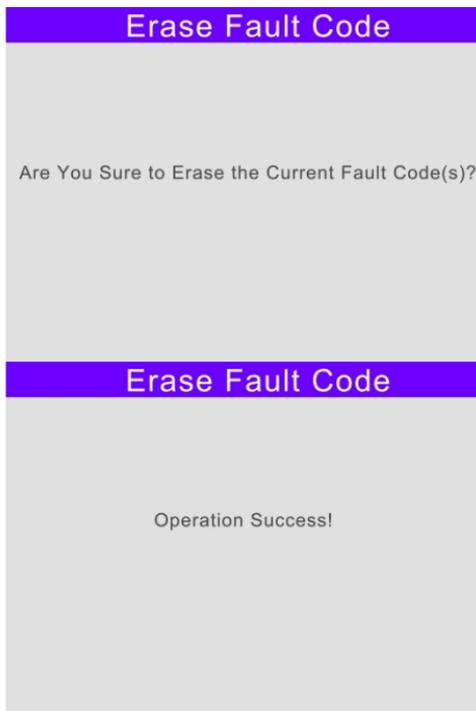
Select [Read History Fault Code], the screen displays as follows.

Read History Fault Code	
SPN0632	1/2
OC = 1 FMI= 3 - Voltage above Normal or Short Circuit to High Voltage	
SPN 632 Engine Fuel Shutoff 1 Control	

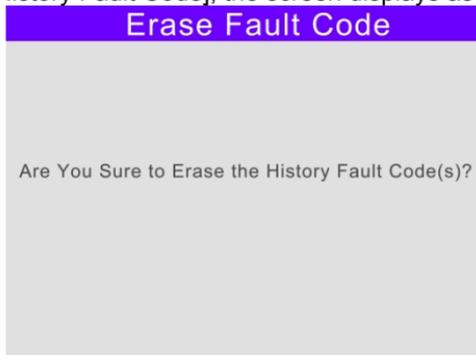
Select [Erase Fault Code], the screen displays as follows.

Erase Fault Code
Erase Current Fault Code
Erase History Fault Code

Select [Erase Current Fault Code], the screen displays as follows.

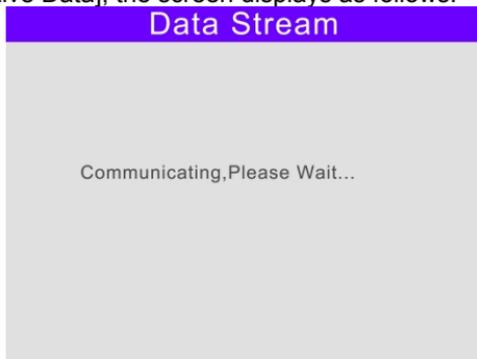


Select [Erase History Fault Code], the screen displays as follows.





Select [Read Live Data], the screen displays as follows.



Read Live Data successfully, the screen displays as follows.



Browse the list, the screen displays as follows.

Select Items	
SPN22 Engine Extend Crankcase Blow-by Pressure	12.75kPa
SPN29 Accelerator Pedal Position 2	102%
SPN52 Engine Intercooler Temperature	215°C
SPN69 Two Speed Axle Switch	Not available

View All Items	
SPN91 Accelerator Pedal Position 1	101.6%
SPN92 Engine Percent Load At Current Speed	0%
SPN94 Engine Fuel Delivery Pressure	1020kPa
SPN98 Engine Oil Level	102%

3.2.2 Injector Program by entering [Injector]:

Select [Injector] from main menu, press [OK] to confirm the model of cars. (Please note the interface may vary depends on different car models. Here are examples of ISUZU.)



Enter [ISUZU] from the engine menu, the screen displays as follows.



Enter [Engine], and the screen displays as follows.



Enter [4JJ1-TC Euro V], and the screen displays as follows.

Engine
Read Version
Read Fault Code
Erase Fault Code
Injector Program

Enter [Read Version], and the screen displays as follows.

Read Version	Read Version
Hardware Number	Diagnostic Identifi.
98268244	893B
1/12	2/12
NOTE: Press Up/Down	NOTE: Press Up/Down

Read Version	Read Version
System Name	Engine Serial Number
4JJ1XDM	171148
6/12	12/12
NOTE: Press Up/Down	NOTE: Press Up/Down

Enter [Read Fault Code], and the screen displays as follows.

Read Fault Code	Read Fault Code
Code: P2122	Code: P2127
Attri.:	Attri.:
Value:	Value:
Pedal Position Sensor Low Input(Sensor 1)	Pedal Position Sensor Low Input(Sensor 2)
1/14	2/14
Note: Press Up/Down	Note: Press Up/Down

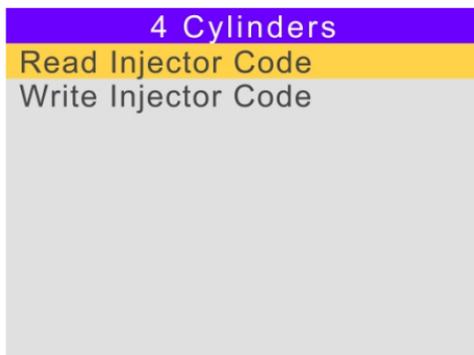
Read Fault Code	Read Fault Code
Code: P2228	Code: P0409
Attri.:	Attri.:
Value:	Value:
Atmospheric Pressure Sensor Low Input	Exhaust Gas Recirculation Position Sensor Anomaly
3/14	4/14
Note: Press Up/Down	Note: Press Up/Down

Enter [Erase Fault Code], and the screen displays as follows.

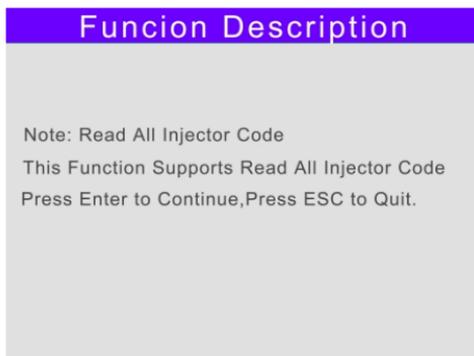
Erase Fault Code	Read Fault Code
Erase Fault Code?	Communicating, Please Wait...

Select [Injector Program] from [Engine], and the screen displays as

follows.



Select [Read Injector Code], and the screen displays as follows.



Press [OK] to confirm, and the screen displays as follows.



If Read Injector Code successfully, and the screen displays as follows

Note: Press Up/Down to Change the Injector Code, Press ESC to Quit

Information	Information
Injector 1 Code	Injector 2 Code
701006FDF7FFDEDED00F8EE95	701004FAF105FEF1FEF7E884
1/4	2/4
Note: Press Up/Down	Note: Press Up/Down

Information	Information
Injector 3 Code	Injector 4 Code
700304FD0905FB04FCFA037C	700300F5F402F6EF01F7F16E
3/4	4/4
Note: Press Up/Down	Note: Press Up/Down

Select [Write Injector Code], and the screen displays as follows.

Write Injector Code
Write Injector 1 Code
Write Injector 2 Code
Write Injector 3 Code
Write Injector 4 Code

Select [Write Injector 1 Code], and the screen displays as follows.

Funcion Description

Note: Write Injector Code

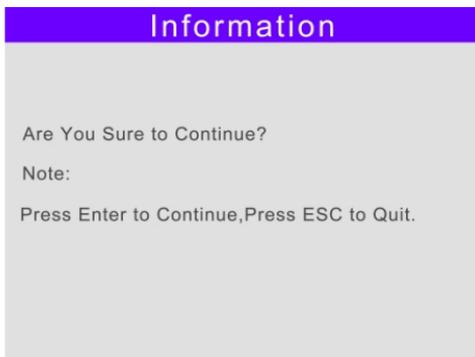
This Function Supports Write Injector Code

Press Enter to Continue,Press ESC to Quit.

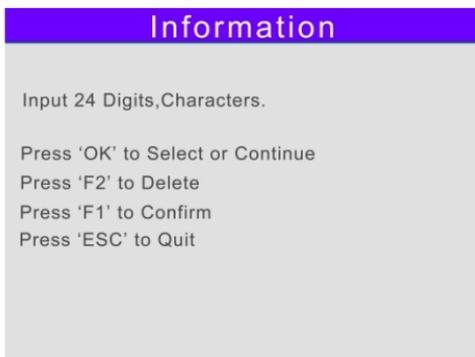
Press [OK] to confirm, and the screen displays as follows.

Information

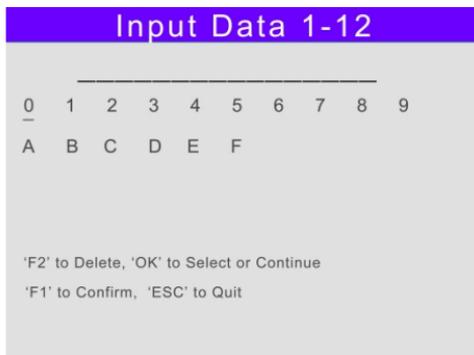
Establishing Communication...



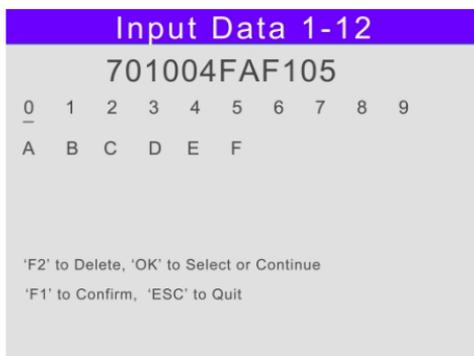
Press [OK] to confirm, and the screen displays as follows.



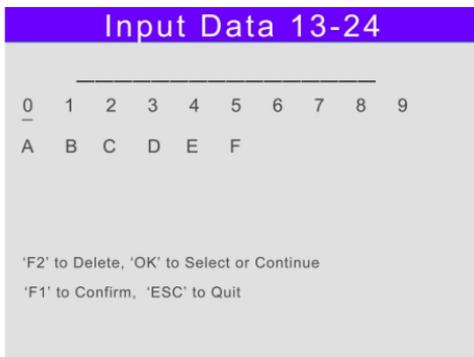
Press [OK] to confirm, and the screen displays as follows.



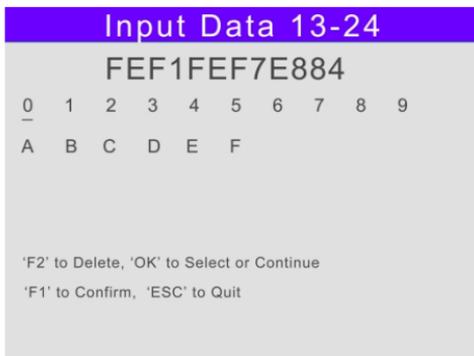
Input Data 1-12: 701004FAF105



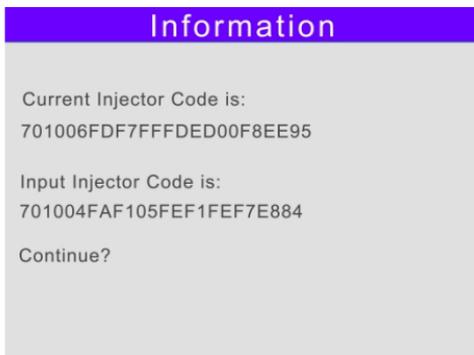
Press [F1] to confirm, and the screen displays as follows.



Input Data 13-24: FEF1FEF7E884

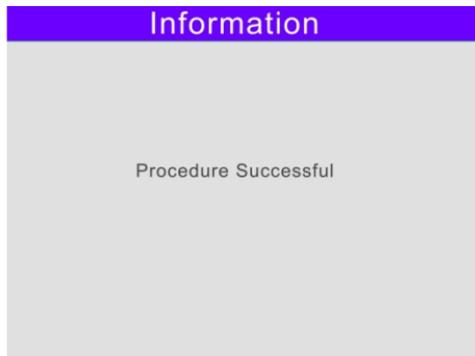


Input Finish, Press [F1] to confirm, and the screen displays as follows.



Press [OK] to confirm, and the screen displays as follows.





Write Injector 1 Code Finish.

Note:

If write failed, Please check and make sure the Code is correct.

Write Injector 2 - 4 Code's procedure same as Write Injecto 1 Code

3.2.3 Cylinder Cutoff by entering [Cylinder]:

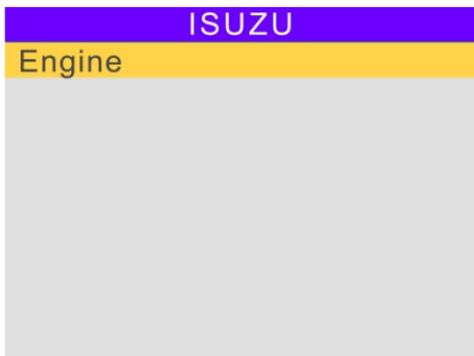
Select [Cylinder] from main menu, press [OK] to confirm the model of cars. (Please note the interface may vary depends on different car models. Here are examples of ISUZU.)

Note: Please Start Engine

Enter [Cylinder], and the screen displays as follows.



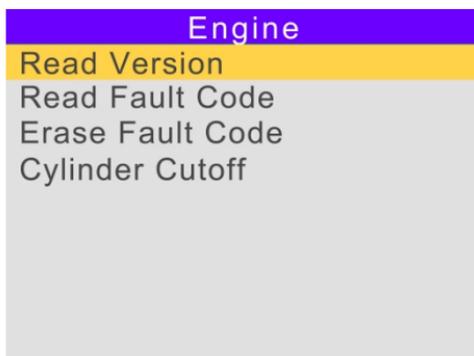
Select [ISUZU] ,and the screen displays as follows



Select [ENGINE] ,and the screen displays as follows



Select [4JJ1-TC Euro V], and the screen displays as follows



Enter [Read Version], and the screen displays as follows.

Read Version	Read Version
Hardware Number 98268244	Diagnostic Identifi. 893B
1/12 NOTE: Press Up/Down	2/12 NOTE: Press Up/Down

Read Version	Read Version
System Name 4JJ1XDM	Engine Serial Number 171148
6/12 NOTE: Press Up/Down	12/12 NOTE: Press Up/Down

Enter [Read Fault Code], and the screen displays as follows.

Read Fault Code	Read Fault Code
Code: P2122 Attri.: Value: Pedal Position Sensor Low Input(Sensor 1)	Code: P2127 Attri.: Value: Pedal Position Sensor Low Input(Sensor 2)
1/14 Note: Press Up/Down	2/14 Note: Press Up/Down

Read Fault Code	Read Fault Code
Code: P2228	Code: P0409
Attri.:	Attri.:
Value:	Value:
Atmospheric Pressure Sensor Low Input	Exhaust Gas Recirculation Position Sensor Anomaly
3/14	4/14
Note: Press Up/Down	Note: Press Up/Down

Enter [Erase Fault Code], and the screen displays as follows.

Erase Fault Code	Read Fault Code
Erase Fault Code?	Communicating, Please Wait...

Select [Cylinder Cutoff] ,and the screen displays as follows

Cylinder Cutoff
Cylinder 1
Cylinder 2
Cylinder 3
Cylinder 4

Select [Cylinder 1] ,and the screen displays as follows



Select [Cylinder 1 Off] ,and the screen displays as follows



Select [Cylinder 1 On] to Recover,and the screen displays as follows

Information

Procedure in Progress...

[Cylinder Cutoff] test finish

Note:

Engine must be running.

Injector 2 - 4 Code's procedure same as Injecto 1 Code

3.3. Setup

3.3.1. Set Beeper

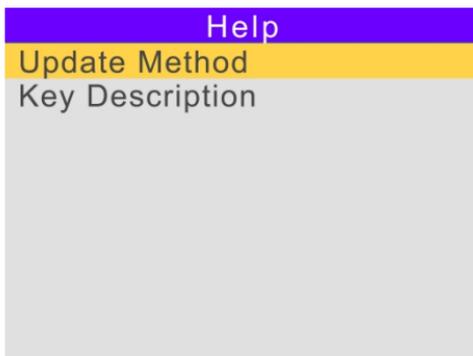


Enter [Setup] from main menu, then select Beeper. Please press [OK] to set [ON] or [OFF] of the beeper.

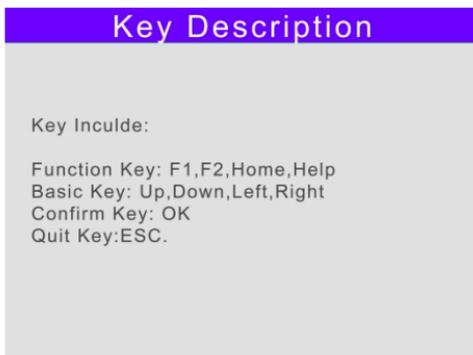


3.4. Help

For more information, please enter [Help] from the main menu.



Select [Key Description], the screen displays as follows.



Select [Update Method], the screen displays as follows.

Update Method

Step:

- 1.Install Update Client to Laptop.
- 2.Plug USB Cable to Device and Laptop only,Don't Use Main Cable
- 3.the Green Led and Red Led on in Update Mode.
- 4.Run the Update Client,Click Update.

3.5. About

About	
Product Type:	DAEA301
Software Ver.:	V1.10
Hardware Ver.:	V3.03
Serial Number:	DAEA301010100101

4. Product Update

4.1. Software Install

4.1.1. Download Software

For Install software, please contact

: info@obdresource.com.

4.1.2 Run "HdUpdate Installer.exe", please follow the popup instructions and wait for the install software and driver to be done.

4.2.Upgrade Steps

4.2.1 Before upgrading,please make sure the computer with the installed software is well connected to the network.

4.2.2 Connect the main device via USB cable with the computer. If the connection fails,please check if the driver is installed successfully.

P.S. "No device connected" will be shown when connection fails.



4.2.3 Select the packages that need to be upgraded, then select [Yes]. Please wait for the upgrading to be finished.



5. Product Warranty

For a better using experience, we suggest you take good care of your product and follow the instructions in the usermanual Please read the following warranty carefully before using.The specific terms are as follows:

5.1 Warranty will be valid within one year when the product is purchased through our company or our authorized product distributor.

5.2 From the purchase date of the product on, if the product has a non-human-performance failure,it can be repaired or replaced with the same type of product within one month.

6. Product Help

Email:info@obdresource.com

Disclaimer

The information, specifications and illustrations in this manual are based on the latest information available at the time of printing.OBDResource reserves the rights to make changes at any time

