

EasyDiag User's Manual

Issued: 2013-11-11

Precautions on operating vehicle's ECU

- Do not disconnect the vehicle inner consume when the ignition switch is on, so as to avoid the sensors or the ECU damage.
- Do not place the magnetic object near the ECU in order to avoid the failure of the circuitry and components.
- Do cut off the power supply of ECU system before welding on the vehicle.
- Pay more attention to the ECU and the sensors when the operation is next to them.
- Ground yourself when you disassemble PROM, otherwise ECU and sensors will be damaged by static electricity.
- Do connect ECU harness connector firmly, otherwise electronic elements, such as IC inside ECU, will be damaged.

Precautions on operation

- The instrument is a precision electronic instrument. Pay more attention when in use, do not have it dashed.
- The equipment power is supplied by 12v battery voltage; do not use other voltage power.
- Turn off the ignition switch when connect or disconnect the diagnostic connector.
- Do not keep EasyDiag Pin Connector plugged into your vehicle overnight, be sure to always remove connector once testing and/or diagnosis is complete. Failure to do so may result in drained or weakened battery.
- The illustrations herein are for reference only and are subject to change based on the Smart Device you are using and/ or software updates.

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1 Overview

1.1 Product Introduction

EasyDiag, based on iOS/Android operation system design, research and development, is an internet vehicle trouble diagnosis tester designed specifically for automotive repair technicians, students and DIY users. After being connected with a mobile terminal through the internal Bluetooth, it achieves for x-431 serial product the full diagnostic functions, including Read DTCs, Clear DTCs, Read Data Stream, Action Test and Special Functions. Meanwhile, through your intelligent mobile terminal, you can access internet to get your required information, or share and exchange information, etc.



Fig1.1

1.2 Parameters

- Working voltage: 9~15V
- Working average current: about 35mA



- Static current: about 25mA
- Working temperature: -20 to 55°C (-4 to 131°F)
- Storage temperature: -30 to 70°C (-22 to 158°F)
- Storage humidity: <80%
- Working humidity: <60%
- Net weight: about 26g

1.3 Features

- Most of the electronic system of vehicle, including Europe, Asia, America and domestic models, can be detected;
- Applies to iOS and Android system, simple interface, elegant and easy to operate;
- Bluetooth communication;
- Online download diagnostic software (single vehicle model or combined software models). Many ways to pay.
- Online share and communicate diagnostic technology with core of community concept and service.
- One-key upgrade

1.4 Accessories



Password Envelope	
Auxiliary Connector(optional)	

2 Configuration and Structure

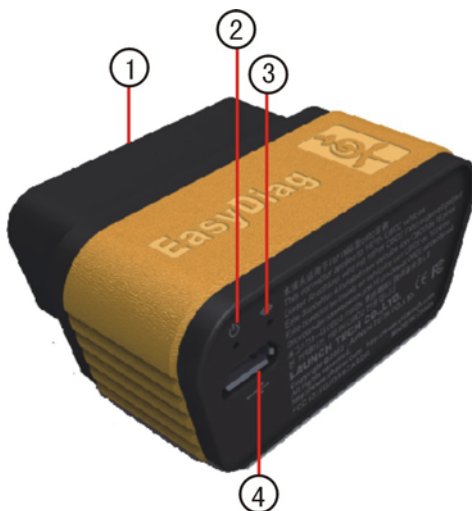


Fig2.1

①	OBD-16 diagnostic	To connect to vehicle's OBD2
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	connector	diagnostic socket
②	Power indicator	It will light up once EasyDiag is plugged into OBD2 diagnostic socket.
③	Communication indicator	It will flash when EasyDiag is communicating with mobile device or EasyDiag is resetting.
④	Micro USB port	To connect on PC for data transmission or upgrade via USB cable

3 Connection and Installation

3.1 EasyDiag Connection

NOTE:

1. Remove connector once testing and/or diagnosis is complete.
2. Maybe it is difficult to plug or unplug connector in some vehicles because of the varied position of the DLC, you can use auxiliary connector to help you avoid this problem.
3. Please turn off the ignition switch before connecting or disconnecting EasyDiag.

Step 1: Locate the vehicle's DLC socket, which is usually located under the dashboard, towards the driver's left knee area.

Step 2: Plug the EasyDiag connector into the DLC socket. The connector's power indicator will light up to signify communication and you will hear an audible beep.

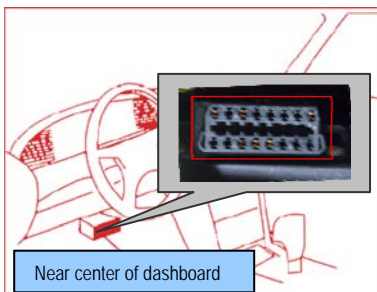


Fig3.1

3.2 Download and Install The EasyDiag App

The EasyDiag App is free to download in Google Play.

Step 1: Turn on your Android device. Be sure that you have a strong signal that links to the network.

Step 2: Go into Google Play.



Fig3.2

Google Play can be found in the following url as well:
<https://play.google.com/store> .

Step: 3: Search for **EasyDiag** and then click the EasyDiag app to download.

4 How to Use

Click on EasyDiag app icon  to open

4.1 Initial Use

During the initial setup, you will see some illustrations that can guide you to understand some features of the EasyDiag by sliding the screen to left.

A request as Fig4.1 will be seen if the Bluetooth in your Android phone is closed,

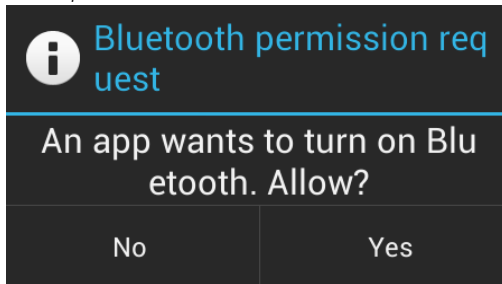


Fig4.1

Click on **Yes** to turn on Bluetooth, or you can not communicate with EasyDiag

Then you will see the **Disclaimer** that contains some precautions and warnings, please read it carefully.

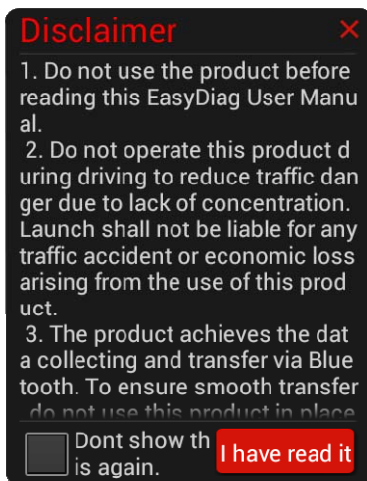


Fig4.2

When reading is finished, click on **I have read it** to enter login interface, see Fig4.3. If you don't want to read this again, choose **Don't show this again** and it will not appear next time.

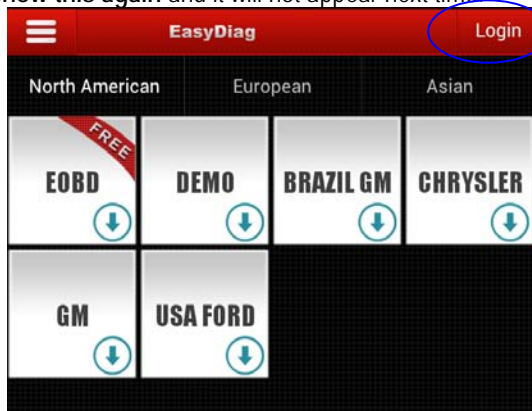


Fig4.3

Click on **Login** on the upper right corner.

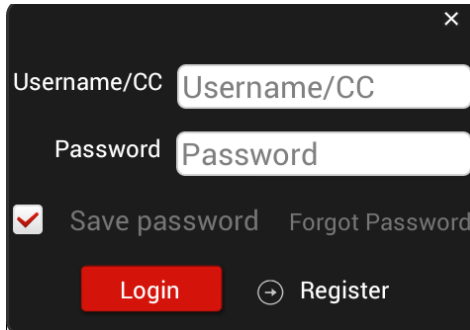
A login form with a dark background. It features two input fields: 'Username/CC' and 'Password'. Below the password field is a checked checkbox labeled 'Save password' and a link 'Forgot Password'. At the bottom, there are two buttons: a red 'Login' button and a 'Register' button with a right-pointing arrow icon.

Fig4.4

For existing users, input your Account and Password to login directly.

For new users, click on **Register** to register.

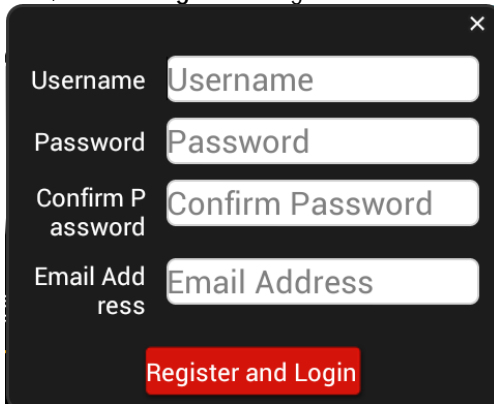
A registration form with a dark background. It features four input fields: 'Username', 'Password', 'Confirm Password', and 'Email Address'. At the bottom, there is a red button labeled 'Register and Login'.

Fig4.5

Input the required information, and then click on **Register and Login** to proceed.

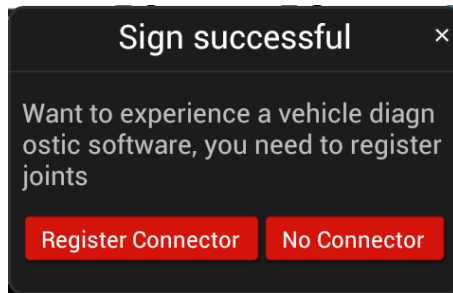


Fig4.6

If you have more than one connector, it is suggested to select **Register Connector** to add the serial number of the connector to your account, which can also be done in “4.2 Register Connector” as well.

If not, click on **No Connector** to login directly.

NOTE: When registration is successful, a confirmation letter will be sent to your registered Email.

Then the interface as below will pop up.

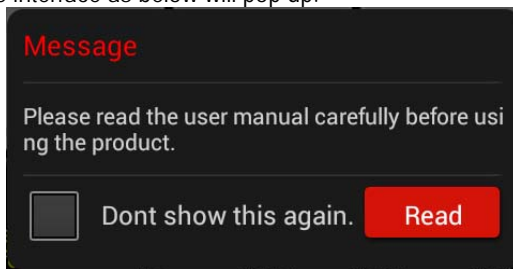


Fig4.7

Click on **Read** to open Quick Start Guide.

See the illustrations of the main interface, see Fig4.8.

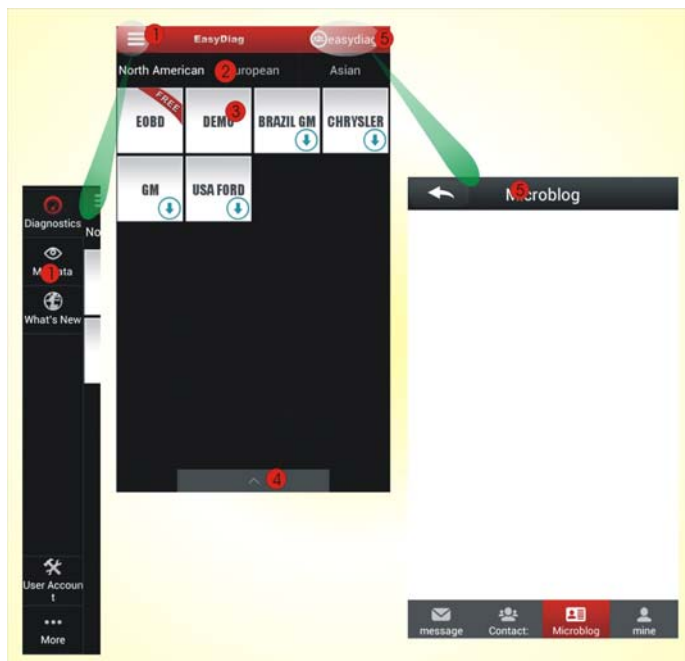




Fig4.8

- ①: Function menu,
- ②: Vehicle origin selection
- ③: Car model selection area, the icon  means this diagnostic software for this make has not been downloaded.
- ④: Partial display button
- ⑤: Chat tool

If you don't have a EasyDiag, you can click DEMO icon  to get into the demo function interface, and experience the vehicle diagnosis function

If you have already got an EasyDiag, please continue the registration.

4.2 Register Connector

Each new connector must be registered before using. Plug the EasyDiag into DLC socket and turn on the ignition switch. Go into **Account** and click on **Register Connector**.

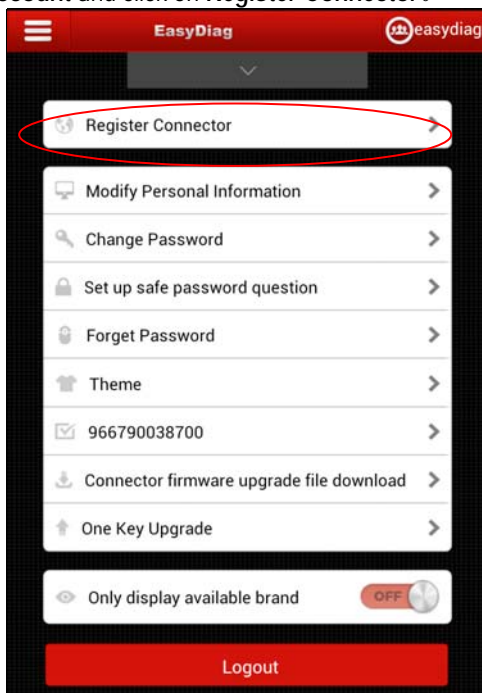


Fig4.9

Input the Serial Number and Verification Code, which can be found in the Password Envelope, then click on **Register** to complete registration.

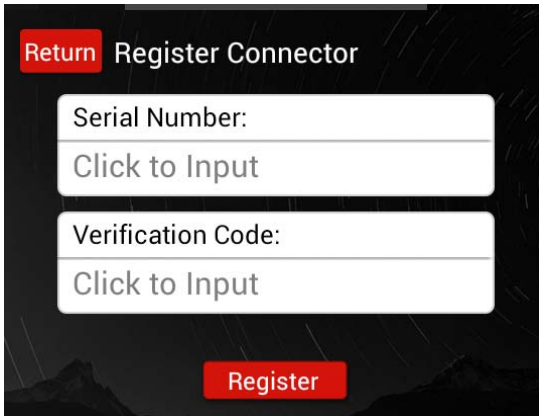


Fig4.10

See the illustrations of the Password Envelope.

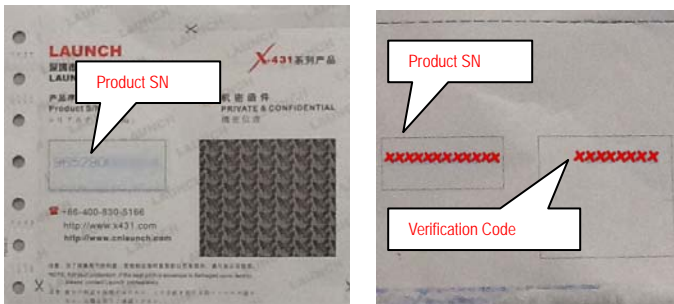



Fig4.11

4.3 Acquire the Diagnostic Software

Before diagnosis, you need to download the specific software of vehicle.

The icon  means the diagnostic software for this make has not been downloaded, if you want to diagnose this car, please click it to

download the diagnostic software.

First, select a Serial Number of your connector, see Fig4.12.

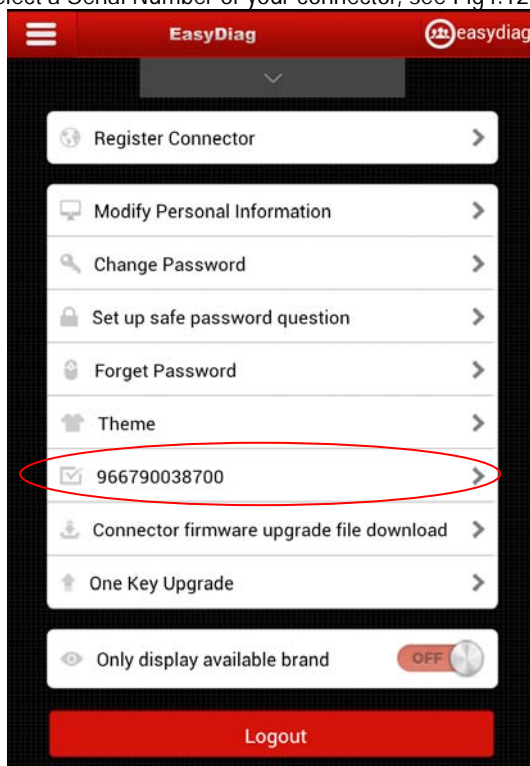


Fig4.12

Click on the vehicle brand icon which you want.

Take **GM** as an example.

Click on **GM** to see the software message, see Fig4.13.

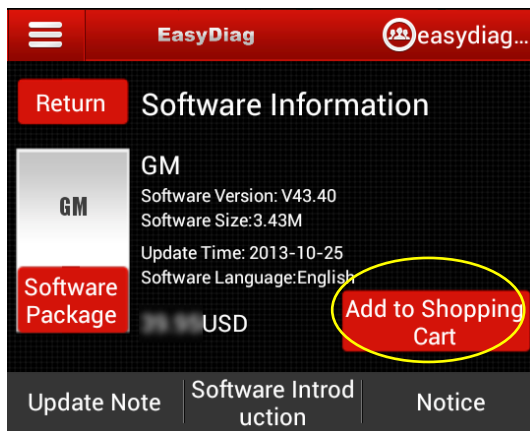


Fig4.13

If only this software to be purchased, click **Add to Shopping Cart**. Or click on **Software Package** to purchase software in packages or individually.

NOTE: Software package only supplies to individual regions.

When the selection is completed, click on **Create Order**.

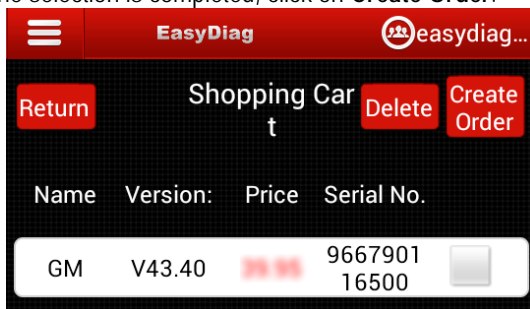


Fig4.14

Order list will be created, see Fig4.15

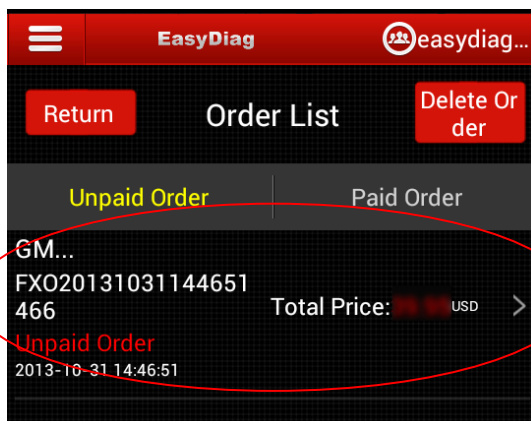


Fig4.15

After you click the space which marked in red circle in Fig4.15, it would provide some useful information as in the Fig4.16, such as diagnosis soft order name, order number, product serial number, total price, order status, and order time. Please confirm those information, and take a note about the order number which is the most important.

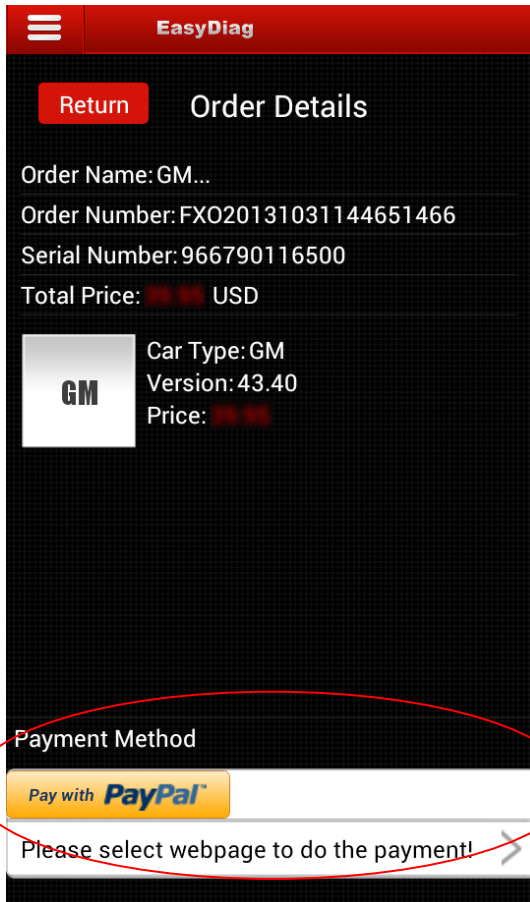


Fig4.16

PAYMENT: You can select pay with PayPal or pay on website; here we choose the latter to illustrate how to pay. As for PayPal method, you can follow the on-screen instructions to complete.

After click button, the browser will automatic jump into LAUNCH

user center login page.

Use the Login name and password, which you have registered before, which is same as EasyDiag app login account.

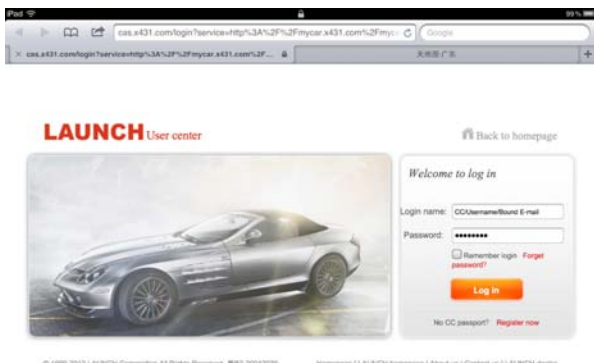


Fig4.17

After login successfully, the web page will include order information. Please confirm the order information, especially for the order number. See Fig4.18

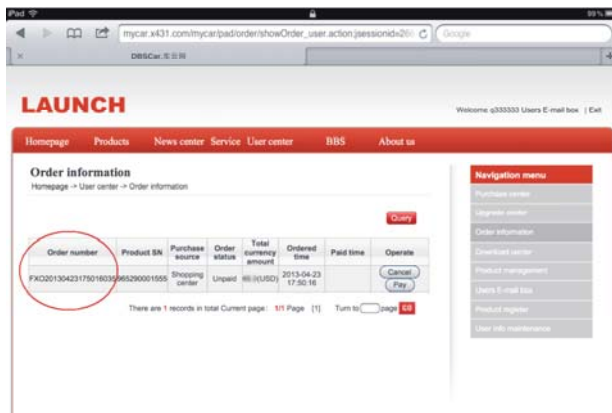


Fig4.18

Click on **PAY** then confirm to pay.

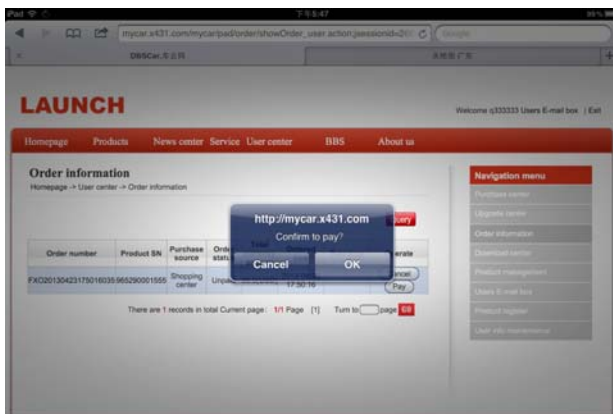


Fig4.19

In the Fig4.20, there are two options, one is called 支付宝, which is use for Chinese currency. The other one is PayPal, which for USD. If you use USD to pay, Please select PayPal.

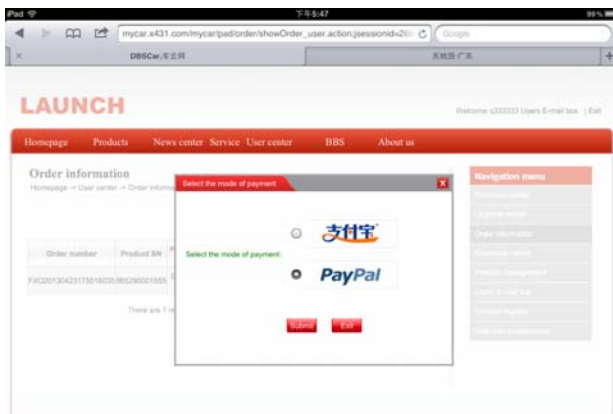


Fig4.20

You must have a PayPal account before you made the payment.

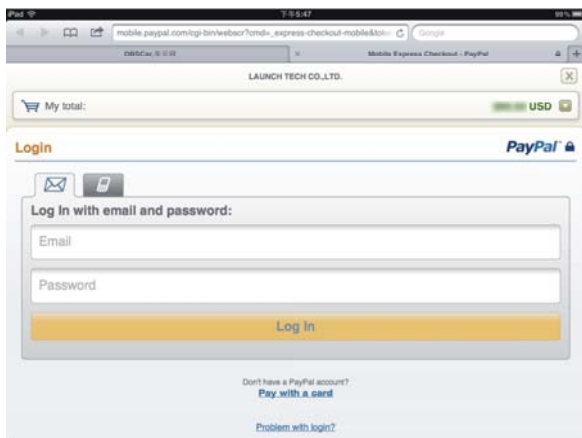


Fig4.21

In Fig4.21, login your PayPal account, which is your email address, and password, and click on **Continue**. See Fig4.22.

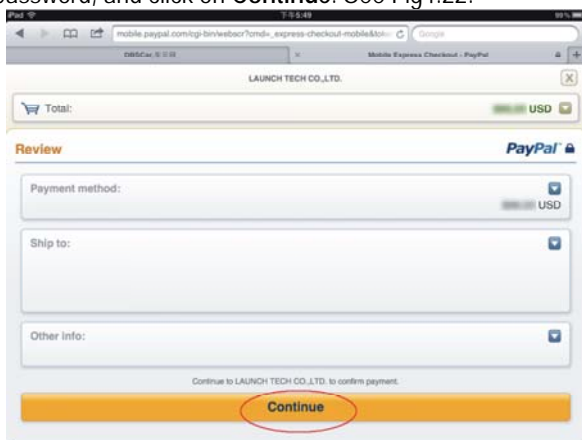


Fig4.22

Pay success, see Fig4.23.

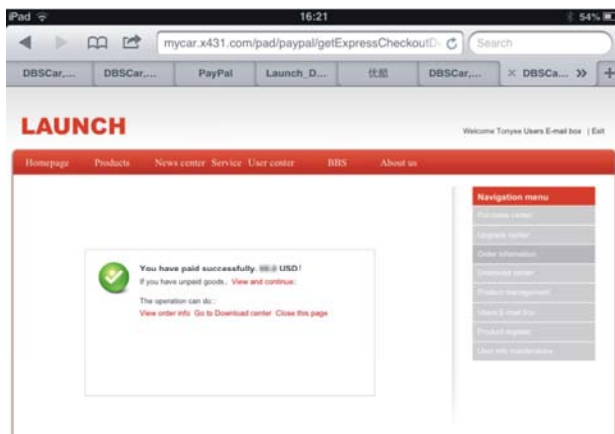


Fig4.23

DOWNLOAD: After made payment, please move back to EasyDiag app. And click the diagnosis software icon which have already paid. See Fig4.24

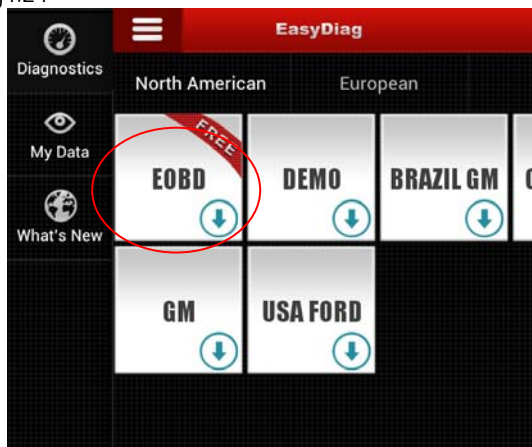


Fig 4.24

Take EOBD as an example, click on **Check Download**. See Fig4.25



Fig 4.25

Select the order and click on **Download** to start download. See Fig4.26



Fig4.26

Download until completed.

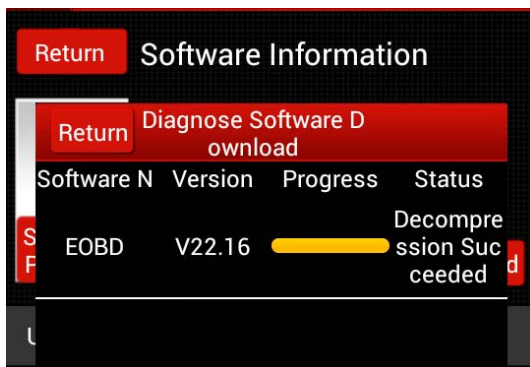



Fig4.27

Click on **Return** to return to the main interface when diagnosis software download is completed, the icon on the right bottom  will disappear. See Fig4.28.

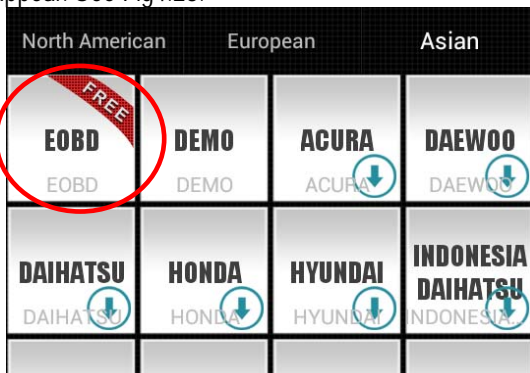


Fig4.28

4.4 My Data

In **My Data** you can see Diagnosis Report, Operation Record, My Order and Shopping Cart;

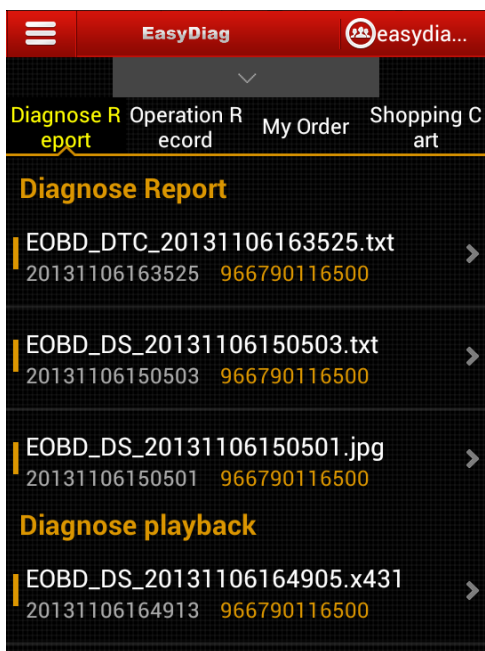


Fig4.29

Diagnose Playback

For playback of the video recorded during the performance of **Read Data Stream**. First, select the desired Data Stream, and then select the playback mode to play.

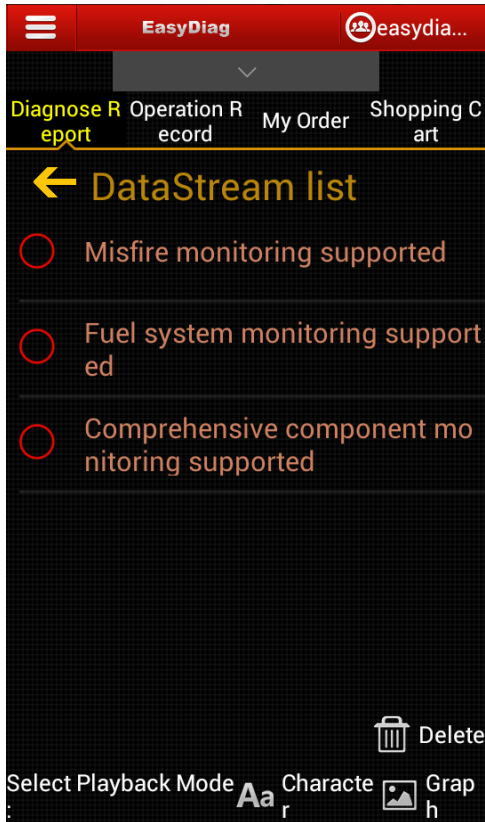


Fig4.30

If exist an unpaid order, you can also go into **Shopping Cart** to generate the order, and then complete the payment in **My Order**

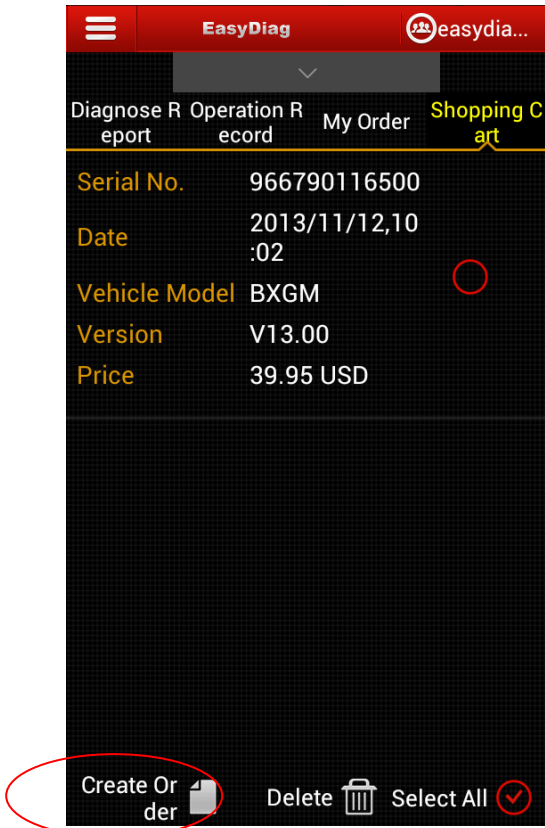


Fig4.31

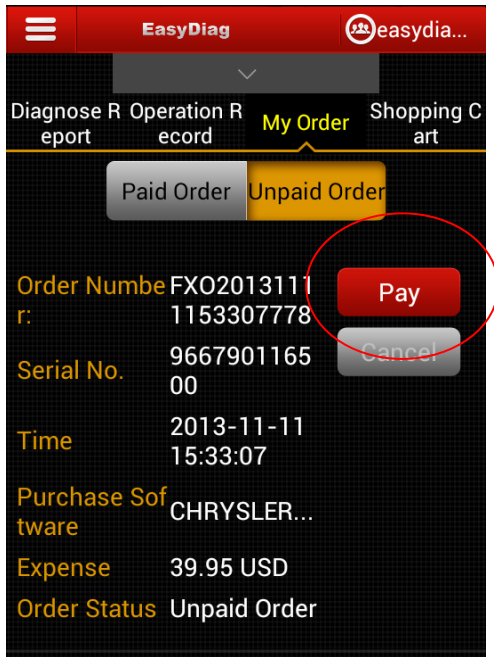


Fig4.32

4.5 What's New

Here you can see the latest news of our company, market, product and upgrade, etc.

NOTE: Marketing information can not be seen until the corresponding SN is selected.

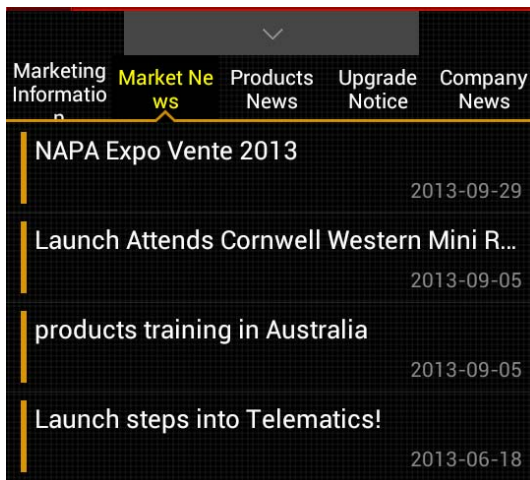


Fig4.33

4.6 Account

See Fig4.34

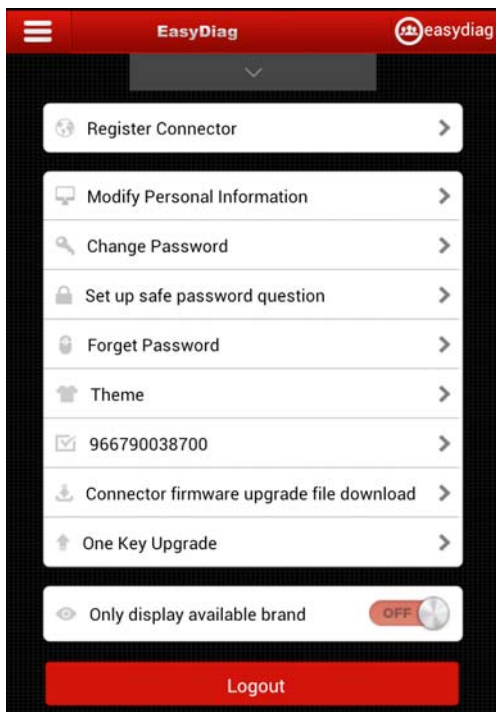


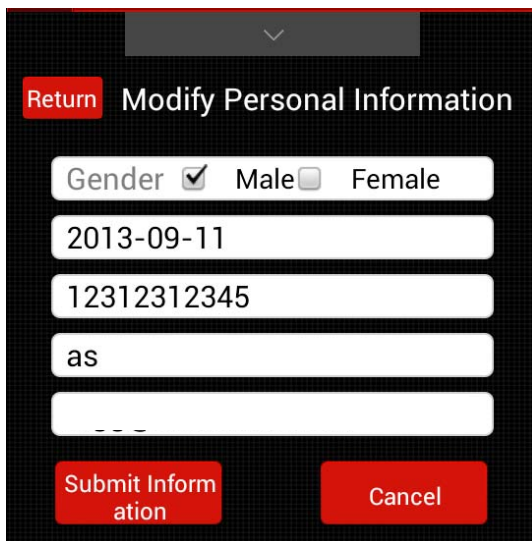
Fig4.34

4.6.1 Register Connector

See Fig4.2.

4.6.2 Modify Personal Information

For modifying personal information.

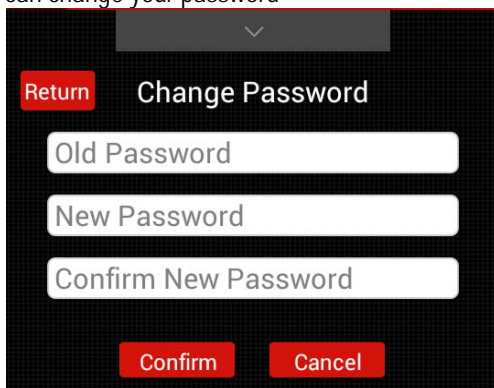


The screenshot shows a mobile application interface for 'Modify Personal Information'. At the top left is a red 'Return' button. The title 'Modify Personal Information' is centered. Below the title are several input fields: a 'Gender' field with a checked 'Male' radio button and an unchecked 'Female' radio button; a date field containing '2013-09-11'; a text field containing '12312312345'; a text field containing 'as'; and a partially visible text field with '...' below it. At the bottom are two red buttons: 'Submit Information' and 'Cancel'.

Fig4.35

4.6.3 Change Password

Here you can change your password

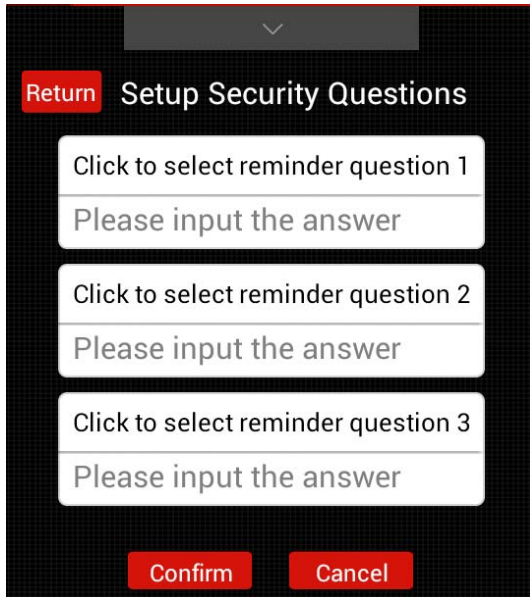


The screenshot shows a mobile application interface for 'Change Password'. At the top left is a red 'Return' button. The title 'Change Password' is centered. Below the title are three input fields: 'Old Password', 'New Password', and 'Confirm New Password'. At the bottom are two red buttons: 'Confirm' and 'Cancel'.

F4.36

4.6.4 Setup Security Questions

These questions would be used in the event you forget your password.



The screenshot shows a mobile application dialog titled "Setup Security Questions". At the top left is a red "Return" button. The dialog contains three identical question cards. Each card has a white background and rounded corners. The first card contains the text "Click to select reminder question 1" and "Please input the answer" below it. The second card contains "Click to select reminder question 2" and "Please input the answer". The third card contains "Click to select reminder question 3" and "Please input the answer". At the bottom of the dialog are two red buttons: "Confirm" and "Cancel".

Fig4.37

4.6.5 Forgot Password

When you forgot your password, you can retrieve your password through verifying the security questions or through your registered mailbox.

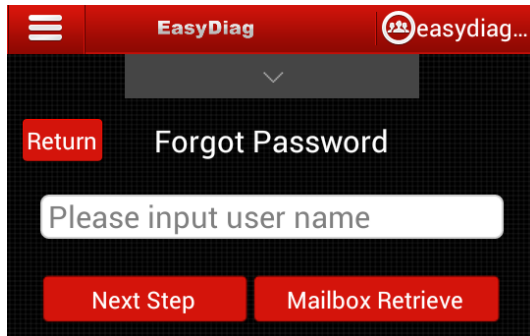


Fig4.38

4.6.6 Theme

For changing display style

4.6.7 Select Serial Number

For selecting the serial number of the connector in advance before diagnosis or downloading.

4.6.8 Connector Firmware Upgrade File Download

For downloading connector firmware file.

4.6.9 One Key Upgrade

This function is designed for upgrade convenience; you can select all software which have latest version to upgrade simultaneously.

4.6.10 Only display available brand

When the switch is set to ON, the initial interface will display the manufacturer which had already download diagnostic software.

4.7 More

4.7.1 Quick Guide

You can view Quick Start Guide here.

4.7.2 User Manual

You can view User's Manual here.

4.7.3 Purchase Instruction

You can view purchase instruction here. In the document you can get a help for using and purchasing software.

4.7.4 Version Update

If there is a latest EasyDiag app issued on the internet, you can check and update your EasyDiag app here.

4.7.5 About

Show some information such as version No. and websites.

5 IM

Click on your user name to enter IM page, see Fig5.1. As a social tool, here you can find some new friends, send SMS, audio messages, photos, publish your latest state in Microblog. Meanwhile, you can build some circle where you can exchange ideas about maintenance or communicate with your customer, etc.



Fig5.1

6 How to Diagnose

The purpose of the illustrations here just for introducing the diagnostic function, not for diagnosis itself, if you are not familiar to diagnose, please refer to the repair manual of the vehicle published by manufactures, or ask for vehicle repair technicians help, etc.

6.1 Preparation

Before diagnosis, please confirm the following word has completed

1. The connector has been registered, see 4.2;
2. Diagnostic software has downloaded. see 4.3;
3. The connector has been installed in the vehicle, see 3.2;

5. The ignition switch is ON position.

6.2 Diagnosis

Here we take **Demo** as an example.

Select **Demo In Diagnostics**, you will be prompted to select serial number in order to build a Bluetooth communication.

NOTE: Bluetooth pair can skip when performing **Demo**.

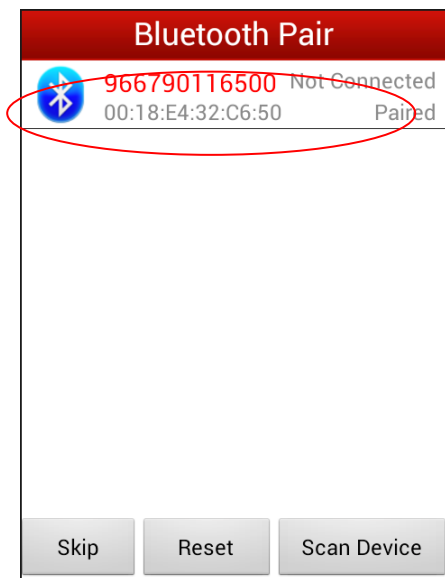


Fig6.1

NOTE: The serial number of the connector can not be seen until the ignition switch is on.

After connected, select the brand again, you will be prompted to

choose software version, in here you can also check the latest version.

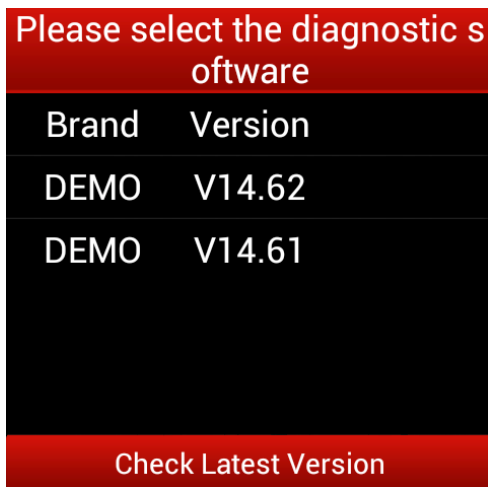
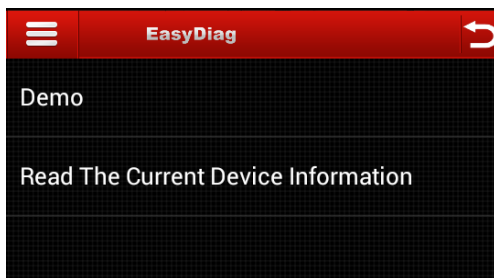


Fig6.2

Select the version to proceed. See Fig6.3,

NOTE: the following diagnosis operation would be varying with different vehicle model, please follow the on-screens instructions to operate.



Fin6.3

Select Demo to go into vehicle's system selection.

Click on  to quit Demo.

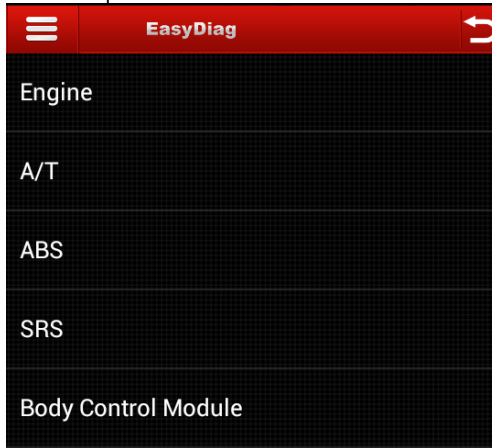


Fig6.4

Select the desired system. Here we take engine as an example.

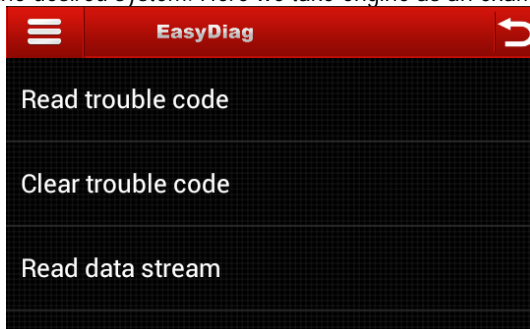



Fig6.5

A. Read Trouble Code

Click on **Read Trouble Code**, the screen will display diagnostic results, see Fig6.6

Click on  to return to function selection interface.

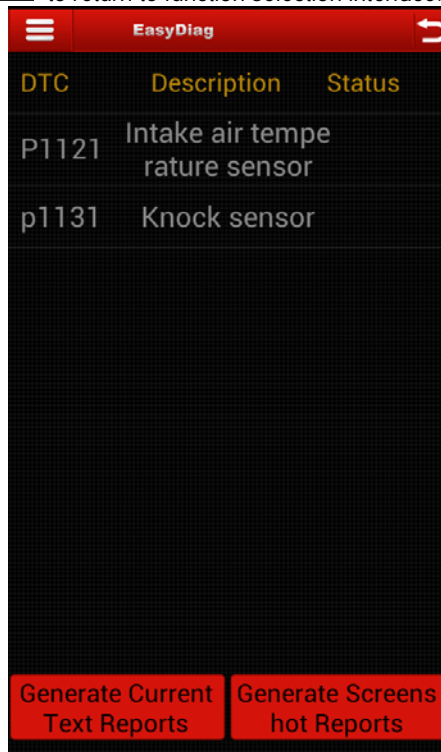


Fig6.6

Generate Current Text Reports: Save the current diagnostic results in text form to **My Data**.

Generate Screenshot Reports: Save the current diagnostic results in screenshot form to **My Data**.

B. Clear Trouble Code

Click on **Clear Trouble Code**, the system will automatically delete the Current exist trouble code. See Fig6.7.

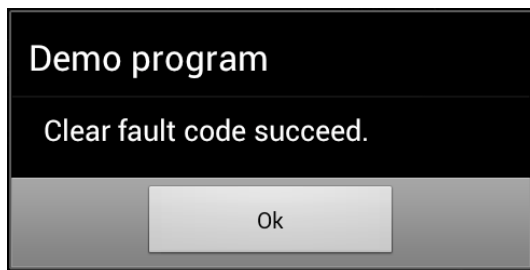



Fig6.7

Note: the trouble code would not clear until the trouble was ruled out.

C. Read Data Stream

Click on **Read Data Stream**, the screen will display DataStream item, see Fig6.8; click the circle before the item you desired then click on **Confirm**, If you want to select all, Click on **Select All**.

Click to  to return to the previous interface

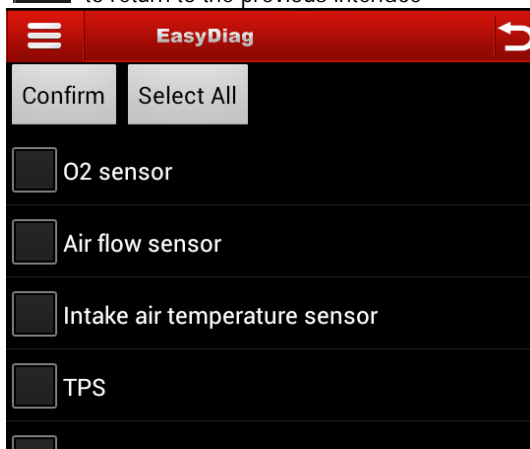


Fig6.8

When communication is completed, the system will display real-time data of the selected item, see Fig6.9



The screenshot shows the EasyDiag application interface. At the top, there is a red header bar with a hamburger menu icon on the left and the text "EasyDiag" in the center. Below the header, there is a red button labeled "Data stream" with a pause icon to its right. The main content area is a table with three columns: "Data Stream N...", "Value", and "Unit". The table contains five rows of data. At the bottom of the interface, there are three red buttons: "Start to record", "Generate Current Text Reports", and "Generate Screenshot Reports".

Data Stream N...	Value	Unit
O2 sensor	781	mV
Air flow sensor	250	HZ
Intake air temperature sensor	76	degree C
TPS	781	mV
Battery voltage	12.9	V

Fig6.9

: Pause: Play: Return the main interface.

Start to Record: The system will record the real-time data, this will generate a video;

Generate Current Text Reports: Save the current time data in text form;

Generate Screenshot Reports: Save the current time data in screenshot form;

Data Stream: Display max 4 waveforms in chart form simultaneously. See Fig6.10, Fig6.11.

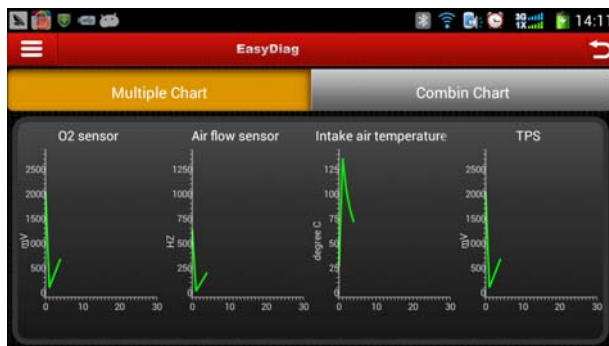


Fig6.10



Fig6.11

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