Trademarks

Autel®, MaxiSys®, MaxiDAS®, MaxiScan®, MaxiCheck®, MaxiRecorder®, and MaxiCheck® are trademarks of Autel Intelligent Technology Corp., Ltd., registered in China, the United States and other countries. All other marks are trademarks or registered trademarks of their respective holders.

Copyright Information

Disclaimer of Warranties and Limitation of Liabilities

All information, specifications and illustrations in this manual are based on the latest information available at the time of printing.

Autel reserves the right to make changes at any time without notice. While information of this manual has been carefully checked for accuracy, no guarantee is given for the completeness and correctness of the contents, including but not limited to the product specifications, functions, and illustrations.

Autel will not be liable for any direct, special, incidental, indirect damages or any economic consequential damages (including the loss of profits).

IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support

pro.autel.com
www.autel.com

1-855-288-3587/1-855-AUTELUS (North America)
0086-755-86147779 (China)

support@autel.com

For technical assistance in all other markets, please refer to *Service and Support* section in this manual.

Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

⚠ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Safety Instructions

The safety messages herein cover situations Autel is aware of. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

⚠ DANGER

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

SAFETY WARNINGS

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for 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.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same

time. Any distraction may cause an accident.

- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

CONTENTS

1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system. Contact your sales representative for availability of other modules and optional tools or accessories.

Conventions

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

- Tap OK.

Notes and Important Messages

Notes

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

NOTE
New batteries reach full capacity after approximately 3 to 5 charging and discharging cycles.

Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

Example:

IMPORTANT
Keep the cable away from heat, oil, sharp edges and moving parts. Replace damaged cables immediately.

Hyperlink

Hyperlinks, or links, that take you to other related articles, procedures, and illustrations are available in electronic documents. Blue italic text indicates a selectable hyperlink and blue underlined text indicates a website link or an email address link.

Illustrations

Illustrations used in this manual are samples, the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

2 General Introduction

The wireless diagnostic interface MaxiAP AP100 is a small interface box used to connect to a vehicle's diagnostic connector (DLC) and connect wirelessly with the iOS or Android devices for vehicle data transmission, making your iOS or Android devices (hereinafter referred to as device or devices) into a powerful diagnostic tool.

The MaxiAP AP100 package comes with a Bluetooth OBDII connector and a free app, through which you can monitor the powertrain to ensure the performance of your vehicle. It is the perfect DIY tool for customers looking for easy and fast OBDII diagnostic functions. It can work on 1996 and newer European, Asian, and U.S. OBDII/EOBD compatible vehicles.

Functional Description

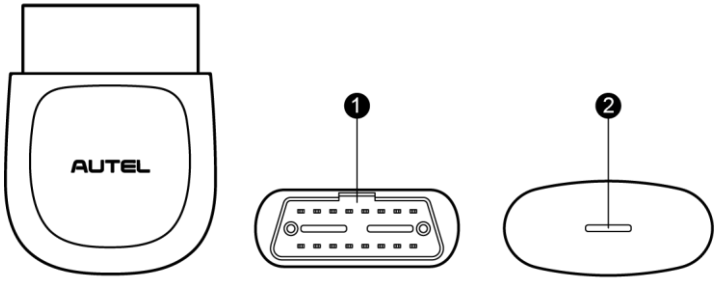

Figure 2-1 ***Product View***

1. Vehicle Data Connector (16-pin) – connects the MaxiAP AP100 to the vehicle's 16-pin DLC directly.
2. Power LED – indicates system status.

The power LED displays green, blue, red depending on power level and operating state.

A. Green

- Lights solid green when the MaxiAP AP100 is plugged in and not

connected with the device.

B. Blue

- Lights solid blue when the device is connected with the MaxiAP AP100 via Bluetooth.
- Flashes blue when the device is communicating with the MaxiAP AP100, for example when the device is reading Engine DTCs.

C. Red

- Lights solid red when the MaxiAP AP100 is updating the firmware or the update failed.

NOTE

The power LED goes off when the MaxiAP AP100 disconnects with the device for over 10 minutes and enters the standby mode with low power consumption. The power LED comes back on with reconnection.

Technical Specifications

Table 2-1 ***Specifications***

Item	Description
Communications	BT3.0 + BT4.0
Wireless Frequency	2.4 GHz
Input Voltage Range	9 VDC to 26 VDC
Supply Current	100 mA@12 V
Sleep Mode Current	3 mA@12 V
Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 70°C
Dimensions (L * W * H)	59.2 mm (2.33'') * 48.5 mm (1.91'') * 24.6 mm (0.97'')
Weight	35g (0.07 lb.)

Wireless Communication

The MaxiAP AP100 supports BT communication. It can transmit vehicle data to your iOS or Android devices without a physical connection. The working range for BT communication is about 33 feet (about 10 m). A signal lost due to moving out of range automatically restores itself when the device is brought closer to the MaxiAP AP100 connector.

Power Source

The MaxiAP AP100 operates on 12-volt vehicle power, which it receives through the vehicle data connection port. The unit powers on whenever it is connected to an OBDII/ EOBD compliant data link connector (DLC).

3 Getting Started

NOTE

The images and illustrations depicted in this manual may differ from the actual ones. The user interface for iOS & Android devices might be slightly different.

Powering Up

1. Download & installation
   - Search for **MaxiAP** from App Store or Google Play to download and install to your device.
   - Or scan the QR code to download the MaxiAP AP100 app.

2. Register & login
   - Open the MaxiAP app and select **Connect later**.
   - Tap **Me** at the bottom and then tap **Register**. Follow the on-screen instructions to complete the registration.
   - Log in with the email address & password you registered.
3. Plug the MaxiAP AP100 connector into the test vehicle's DLC (Data Link Connector).
   - The vehicle's DLC is generally located under the vehicle dash.
4. Turn ignition to Key On, Engine Off position. The LED on MaxiAP AP100 lights solid green.

5. VCI Connection

   Tap *Me>VCI Management* or the VCI button on the top left of the Home screen to enter the VCI Management screen. Tap the Bluetooth name of the MaxiAP AP100 and pair up with the device. The Bluetooth name starts with AP followed by the MaxiAP AP100's serial number.

   - Turn on the device's Bluetooth beforehand for connection.
   - When the device is successfully paired up and communicating with the MaxiAP AP100, the LED on the MaxiAP AP100 lights solid blue.
   - Tap **Done** on the VCI Management screen to return to Home screen.

6. Tap *Me>Settings>Device Activate* in the app to activate the device.

7. Your MaxiAP AP100 is now ready to work.

Figure 3-1 ***Sample MaxiAP Job Menu***

① Dynamic Rotation Banner – information about other popular Autel products, tap the picture to visit the product page on Autel websites, www.autel.com or www.maxitpms.com.

② Application Buttons

③ Navigation Buttons

Application Buttons

The table below briefly describes each of the applications in the MaxiAP system.

Table 3-1 *Applications*

Button	Name	Description
	**Read DTCs**	Reads the diagnostic trouble codes. See *Read DTCs* on page 10.
	**Clear DTCs**	Clears the diagnostic trouble codes. See *Clear DTCs* on page 11.
	**Repair Reports**	Generates repair reports for test vehicles. See *Repair Reports* on page 12.
	**Smog Check**	Checks the readiness of the monitoring system. See *Smog Check* on page 13.
	**Mode 6**	Views the results of On-Board Monitor tests. See *Mode 6* on page 13.
	**Freeze Frame**	Snapshot of the critical parameter values when the DTC is set. See *Freeze Frame* on page 16.
	**Vehicle Info**	Displays the VIN, CVN and other information of the test vehicle. See *Vehicle Info* on page 17.
	**MIL Status**	Checks the status of the MIL and other additional information. See *MIL Status* on page 18.

Navigation Buttons

Operations of the Navigation buttons at the bottom of the screen are described in the table below:

Table 3-2 *Navigation Buttons*

Button	Name	Description
	**Home**	Returns to the Home screen.
	**Live**	Displays system live data.
	**Me**	Personal center for register, log in, settings, etc.

4 Read DTCs

This option can read and clear pending, stored, permanent codes for 1996 and newer European, Asian, and U.S. OBDII/EOBD compatible vehicles.

It can also read and clear enhanced codes for engine and transmission systems of GM, Chrysler, and Ford vehicles. The vehicle coverage and available modules will be increased with regular software update.

Tap > to view the details of a specific DTC (Diagnostic Trouble Codes). At the bottom of the DTC Details screen, you can also tap the **Previous** or **Next** button to view the details of the previous/next DTC. Or you can tap the snowflake button at the bottom middle to view the freeze frame of the specific DTC if the freeze frame is available.

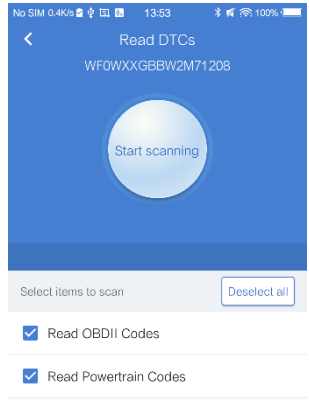

Figure 4-1 ***Sample Read DTCs Screen***

5 Clear DTCs

There are two ways to clear trouble codes.

1. Tap **Read DTCs**, when the scan completes, tap **Clear** on the top and pick the codes you want to clear. You can clear Engine codes, ABS codes or both at the same time. Wait for codes to be cleared.
2. Clear codes directly from the Home screen without having to read codes first. Again, you can clear Engine codes, ABS codes or both at the same time. Now, wait for codes to be cleared.

In the Clear DTCs screen, you can tap **Clear all** or **Choose to clear**. Please be reminded that this action will erase the DTCs and turn off MIL, but the problems are still there.

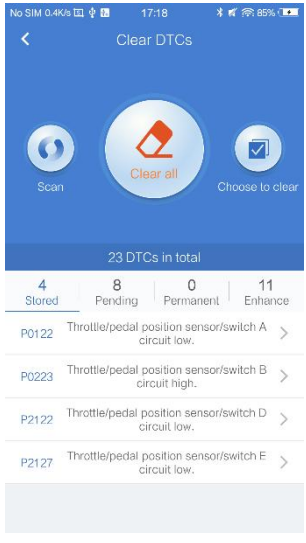

Figure 5-1 ***Sample Clear DTCs Screen***

NOTE

Most vehicles can have codes cleared with the engine running. However, some vehicles such as doge require the engine to be off with the key in the ACC position to clear codes.

6 Repair Reports

The MaxiAP app automatically saves a repair report for each diagnostic session that can tell you what is wrong with your vehicle. Based on the trouble codes in the specific vehicle, a repair report contains the definition of the DTCs (stored codes, pending codes, permanent codes and manufacture-specific codes) and possible causes. It can also generate a pdf file for easy viewing, sharing, and printing.

To create a repair report, tap **Read DTCs**, tap **i** next to a trouble code on iOS devices or **>** on Android devices. Now the repair report is saved under Saved Reports on the Home screen for future reference.

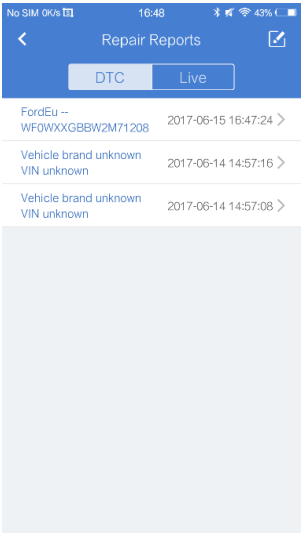

Figure 6-1 ***Sample Repair Reports Screen***

7 Smog Check

This function is used to check the readiness of the monitoring system. It is an excellent function to use prior to having a vehicle inspected for state emissions compliance. The AP100 can tell you if you are ready for your test, if you will fail your test, or if you may fail your test.

Launch the MaxiAP app and tap **Smog Check** to scan the inspection and maintenance monitors and display the results with two sub menus:

- **Since DTCs Cleared** – displays the status of monitors since the last time the DTCs are erased.
- **This Driving Cycle** – displays the status of monitors since the beginning of the current drive cycle.

Tap the [?] button to view the explanation of the different indicators in front of each monitoring system.

Figure 7-1 ***Sample Smog Check Screen***

Table 7-1 *Indicator Button*

Button	Description
	Indicates the monitoring item is complete.
	Indicates the monitoring item is not complete.
	Indicates the MIL is on.
	Indicates the MIL is off.
	Indicates the monitoring item is not supported.

8 Mode 6

Mode 6 refers to the advanced test results for On-Board Diagnostic System Monitors. Example monitors include Oxygen Sensors and Misfire Counters.

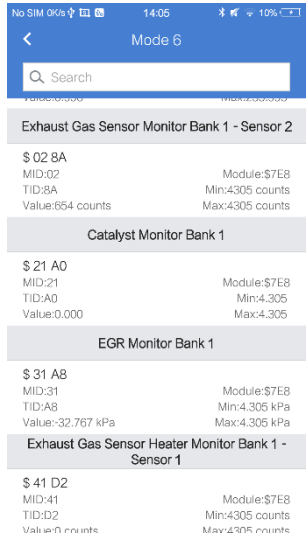

Figure 8-1 *Sample Mode 6 Screen*

Mode 6 will tell you if the monitors are passing their tests and if the values are within acceptable range. For each test, the result displays six parameters, MID, TID, Module ID, Value, Min, and Max. MID (Monitor ID) represents what is being tested. TID (Test ID) represents what specific test is being running. Min is the minimal allowable test result that will not set a DTC. Value is the actual result of the test. Max is the maximum allowable test result that will not set a DTC.

9 Freeze Frame

Freeze Frame provides a snapshot of vehicle data at the instant the Check Engine Light (CEL) came on. Tap **Freeze Frame**. When the scan completes, freeze frame data is available to be viewed.

Figure 9-1 ***Sample Freeze Frame Screen***

10 Vehicle Info

With the embedded AutoVIN technology, this option displays the vehicle identification number (VIN), the calibration identification, the calibration verification number (CVN), vehicle brand, model, year, and other information of the test vehicle. Tap **Vehicle Info** to view the detailed vehicle information that is based on vehicle VIN. If the vehicle VIN is not automatically retrieved, tap the **Input VIN** to search or **Scan VIN**, or choose the vehicle year and model step by step. All the three tabs are on the top of the Vehicle Info screen.

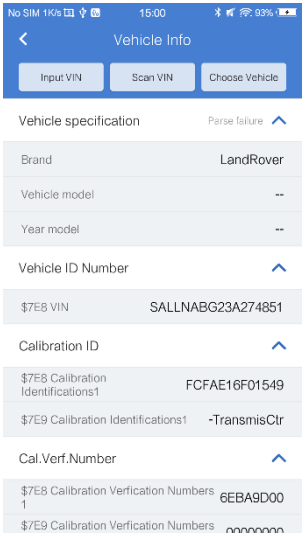

Figure 10-1 ***Sample Vehicle Info Screen***

11 MIL Status

The Check Engine Light is also known as the Malfunction Indicator Lamp, or MIL, and has more information to share besides being ON or OFF.

Tap MIL Status to display the MIL related information. The information mainly include, MIL Status (ON or OFF), Run Time Since Engine Start, Distance with MIL ON, and Distance Since Trouble Code Cleared. These supported parameters vary by test vehicle.

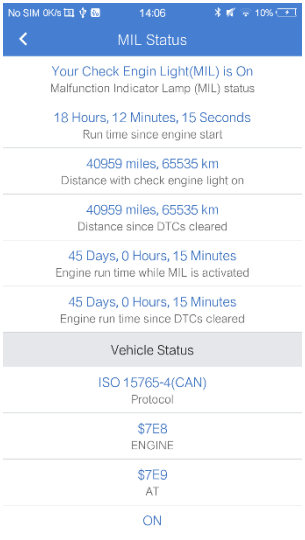

Figure 11-1 ***Sample MIL Status Screen***

12 Live Data

Tap **Live** to view the list of available live data. Tap the button to view the details of a specific live data. The details screen displays the descriptions and you can change the display mode, unit, and custom range.

When this function is selected, the screen displays the data list for the selected module. The items available for any control module vary by vehicle. The parameters display in the order that they are transmitted by the ECM, so expect variation between vehicles.

Figure 12-1 S*ample Live Data Screen*

13 Me

Register

1. Tap the **Register** button on the Settings screen.
2. Enter the email address, verification code and password accordingly in the register screen. The verification code will be sent to your email address after you tap the **Verification code** button.
3. Tap **Register** at the end to complete the registration.

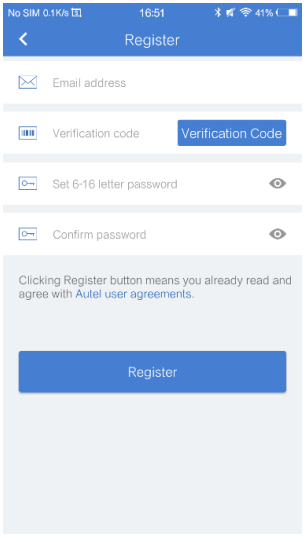

Figure 13-1 ***Sample Register Screen***

Log in

After registering the tool, log in with your registered email and password. If you forget the password, you can tap the **Forget password?** button to retrieve it.

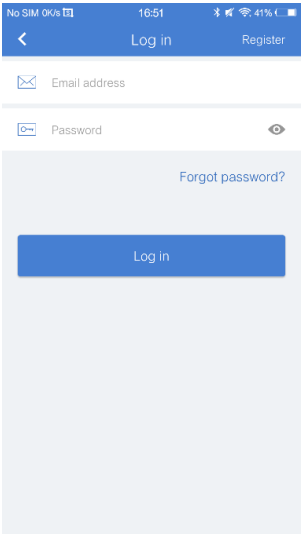

Figure 13-2 *Sample Log in Screen*

Online purchase

Online purchase will direct you to the Autel store, you can buy Autel products online with this function.

Repair Reports

All the repair reports of each diagnostic session are saved here for review. Please refer to *Repair Reports* on page 12 for details.

VCI Management

Manages the Bluetooth connection. To connect the device with the MaxiAP AP100, turn on the device's Bluetooth beforehand. Tap the Bluetooth name of the MaxiAP AP100 to pair up with the device. When the device is successfully paired up and communicating with the MaxiAP AP100, the LED on the MaxiAP AP100 lights solid blue. Tap **Done** on the VCI Management screen to return to Home Screen. Your MaxiAP AP100 is now ready to work.

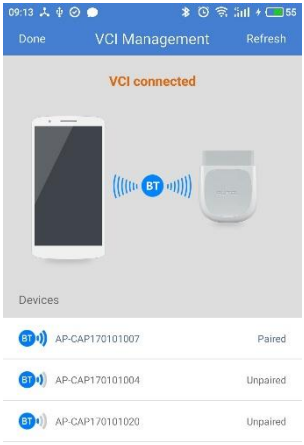

Figure 13-3 ***Sample VCI Management Screen***

Settings

Select the Settings application to open a setup screen to adjust the default setting and view information about the MaxiAP system. There are five system settings.

- Device Activate
- Firmware update
- Unit
- Software update
- About

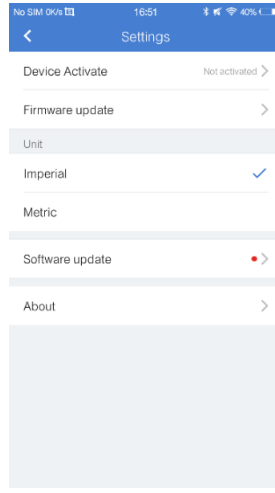

Figure 13-4 *Sample Settings Screen*

Device Activate

The MaxiAP AP100 needs to be activated after first log in. Connect the device with the MaxiAP AP100 connector and then tap *Me>Settings>Device Activate* in the app to activate the device. Please refer to *Powering Up* on page 6 for VCI connection details.

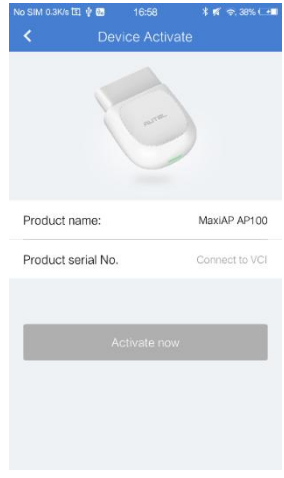

Figure 13-5 *Sample Device Activate Screen*

Firmware Update

This options allows you to update the firmware of the MaxiAP AP100 connector. Connect the device with the Internet and then tap *Me>Settings>Firmwadumre Update* to update if new firmware version is available.

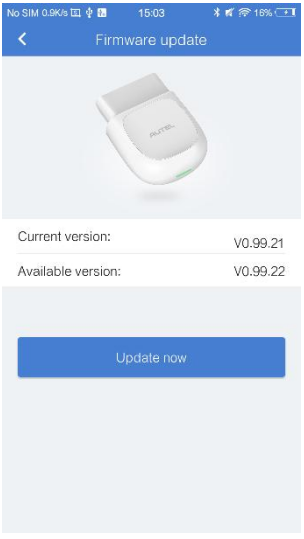

Figure 13-6 ***Sample Firmware Update Screen***

Unit

This option allows you to adjust the measurement unit for the diagnostic system. You can tap **Imperial** or **Metric** to switch between these two measurement units.

Software Update

For Android devices, this option allows you to update the software when a new version is available. For iOS devices, software update is notified in the Updates section of the App Store.

About

The About option displays the following information, current version of the app, Eobd version, User Manual, Privacy Policy & Terms of Use. You can tap User Manual and Privacy Policy & Terms of Use to view detailed information.

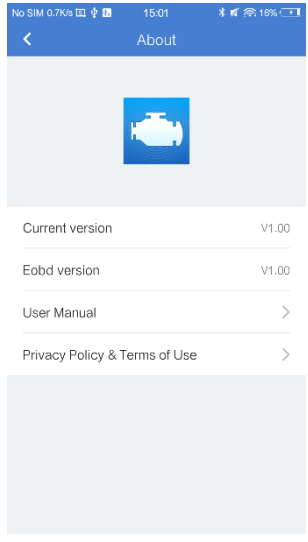

Figure 13-7 *Sample About Screen*

14 Product Troubleshooting

This part describes problems that you may encounter while using the MaxiAP AP100.

Vehicle Linking Error

A communication error occurs if the MaxiAP AP100 fails to communicate with the vehicle's control module when performing diagnostic procedures.

Please do the following check-ups:

- ✓ Verify that the ignition is ON.
- ✓ Check if the MaxiAP AP100 connector is securely connected to the vehicle's DLC.
- ✓ Turn the ignition off and wait for about 10 seconds. Turn the ignition back to on and continue the operation.
- ✓ Verify the control module is not defective.

15 Compliance Information

FCC COMPLIANCE **FCC ID: WQ82017MAXIAP**

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1 This device may not cause harmful interference.

2 This device must accept any interference received, including interference that may cause undesired operation.

⚠WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: ⅰ. Reorient or relocate the receiving antenna. ⅱ. Increase the separation between the equipment and receiver. ⅲ. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. ⅳ. Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RoHS COMPLIANCE

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU.

CE COMPLIANCE

This product is declared to conform to the essential requirements of the following Directives and carries the CE mark accordingly:

EMC Directive 2014/30/EU

R&TTE Directive 1999/5/EC

Low Voltage Directive 2014/35/EU

16 Warranty and Service

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this Autel device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within 1 year period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

1) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
2) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
3) Damage from exposure to excessive temperatures or extreme environmental conditions;
4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
6) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

Service and Support

If you have any questions regarding the product, please contact one of our offices in your region.

AUTEL NORTH AMERICA

- **Phone:** 855-AUTEL-US (855-288-3587) Monday-Friday 9am-6pm EST
- **Website:** www.autel.com
- **Email:** ussupport@autel.com
- **Address:** 175 Central Avenue, Suite 200, Farmingdale, New York, USA. 11735

AUTEL EUROPE

- **Phone:** 0049 (0) 61032000522
- **Website:** www.autel.eu
- **Email:** sales.eu@autel.com, support.eu@autel.com
- **Address:** Robert-Bosch-Strasse 25, 63225, Langen, Germany

AUTEL CHINA HQ

- **Phone:** 0086-755-8614 7779
- **Website:** www.autel.com
- **Email:** support@autel.com
- **Address:** 6th-10th floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China.

AUTEL SOUTH AMERICA

- **Phone:** (+507) 308-7566
- **Website:** www.autel.com/es
- **Email:** sales.latin@autel.com, latsupport@autel.com

- **Address:** Office 103, Building 3845, International Business Park, Veracruz, Panamá Pacífico, Panamá

AUTEL AUSTRALIA

- **Phone:** 03 9480 2978 / +61 476293327
- **Website:** www.autel.com.au
- **Email:** sales@autel.com.au
- **Address:** 155 Islington Street, Melbourne, Collingwood, VIC

For technical assistance in other markets, please contact your local distributor.