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JDiag®

UNIVERSAL MOTORCYCLE SCAN TOO+ PROFESSIONAL BATTERY TESTER

M100 Pro

USER'S MANUAL

Universal Motorcycle Scan Tool

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SAFETY PRECAUTIONS AND WARNINGS

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

- Always perform automotive testing in a safe Environment.
- Do not attempt to operate or observe the tool while driving a vehicle, Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- 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. Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Put the transmission in P (for A/T) or N(M/T) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline /chemical / electrical fires nearby.
- Don't connect or disconnect any test equipments while the ignition is ON or the engine is running.
- Keep the scan tool dry, clean free from oil/ water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool when necessary.
- Our company is not responsible for any damage caused by unintentional or deliberate misuse of our products or tools.

ABOUT M100 Pro

1) M100 Pro Moto Scanner is the new generation Handheld Motorcyle diagnostics tool, it covers virtually all major manufacturers' diagnostic functions. It helps the technician to diagnose problemsand make repairs faster;many common procedures are written into the tool so the technician can follow them (injectors, ignition, coils, fuel pump, etc.).

2) It allows the technician to perform factory service procedures such as re-setting the service light, making injection adjustments (COTrimmer), adjusting the throttle valve position sensor(TPS),re-setting auto adaptive parameters, and making idling adjustments.

3) The tool shows live data, displays ECUdata, reads stored faults(history) or live data (RPM,batteryvoltage,throttleangle).

Features

- Handheld operation, convenient and flexible to use.
- Support for SD cards to store data and upgrades.
- Reserved CAN bus interface.
- 3.5-inch color screen, clear display.
- Dynamic data with numerical and waveform.

Function

- Read system information
- Read fault code
- DTC lookup
- Freeze data
- Actuators test
- Troubleshooting guidance
- Read data stream
- Erase fault code
- Waveform display
- Battery life detection
- CO idle speed adjustment
- ABS system test

Support Motorcycle list: AEON, APRILIA, BENELLI , BMW, hartford , HONDA, KAWASAKI, KTM, KYMCO , PIAGGIO , PGO, SUZUKI, SYM, VESPA, YAMAHA, OBDII .

Support Multi Languages: English , Chinese, Thai, Indonesian, Vietnamese, Spanish .

SPECIFICATIONS AND PARAMETERS

1、Display: 3.5 inches (480*320 DPI) TFT true color display

2、Working temperature: 0–60°C (32–140 F°)

3、Storage temperature: –40–70°C (–40–185 F°)

4、External power supply: 9–18V

CONNECT AND UPDATE

Connect M100 Pro

1. Turn the ignition on.
2. Locate the Moto Data Link Connector(DLC).

Update Mode

This function allows you to update the scan tool software and DTC Library through a computer.

To update your scan tool, you need the following items.

1. Scan Tool
2. PC or Laptop with USB port
3. USB Cable

Upgrade steps

1) Download the upgrade file from the website.
2) Connect device with computer via USB cable
3) Enter [OK] – Select USB Storage
4) Copy the upgrade files to the correct folder in the device TF Storage Card.

WORKING MODE

Tool Description

Esc Button
Return to previous menu.

Up Scroll Button
Move cursor up for selection.

Left Scroll Button
Move cursor left for selection or turn page up when more that one page is displayed.

F1 Button
Provides help information and Code Breaker function.

LCD Display
Displays menus and test results.

Help Button
Provides help information function.

Right Scroll Button
Move cursor right for selection, or turn page down when more than one page is displayed.

Down Scroll Button
Move cursor down for selection.

F2 Button
Backspace function.

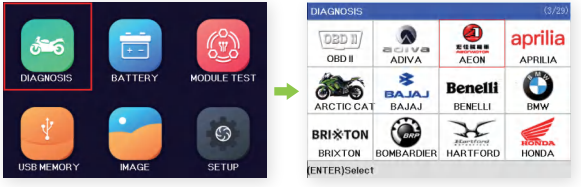
F1 + F2

Press both buttons together to perform screen capture.

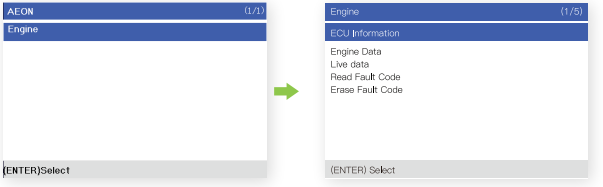
OBDII Connector
Connects the scan tool to the vehicle's data link connector– DLC.

Diagnosis（Take AEON as sample）

1 Choose [Diagnosis] then press [OK] button. The Screen will display as follows:

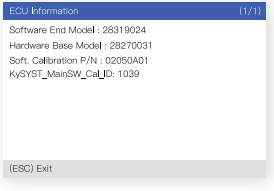


2 Select [AEON], press [OK] button. The screen will display as below:



ECU Information

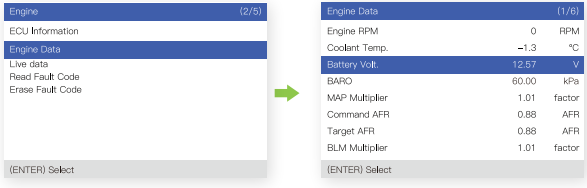
Choose [ECU Information] then press [OK] button. The Screen will display as follows:



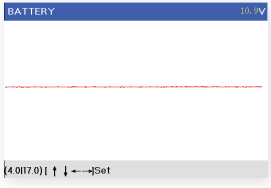
Engine Data

Current data is the numeric figures of the working status for motor engine, through this data we can konw whether motor normally.

Choose [Engine Data] then press [OK] button. The Screen will display as follows:

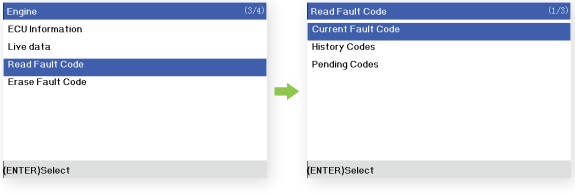


In the current page, you can press YES to enter waveform function, it is able to display numerical changes of the selected item. As below:

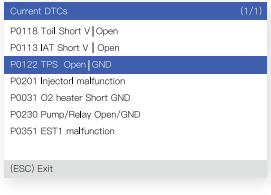


Read Fault Code

Choose [Read Fault Code] then press [OK] button. The Screen will display as follows:

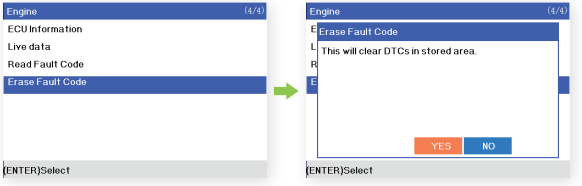


Select [Current Fault Code], press [OK] button. The screen will display as below:



Erease Fault Code

Choose [Erease Fault Code] then press [OK] button. The Screen will display as follows:



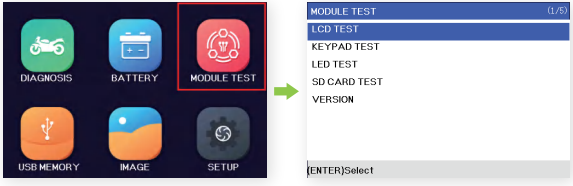
Note ! before erase fault code please switch on the key and not to start engine. Press Yes to erase fault code.

Battery

Choose [BATTERY] then press [OK] button. The Screen will display as follows:

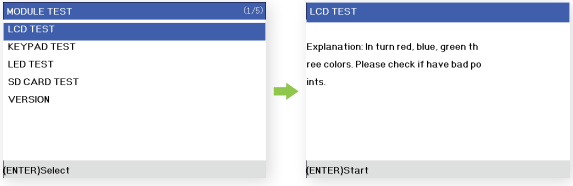
Module Test

Choose [MODULE TEST] then press [OK] button. The Screen will display as follows:



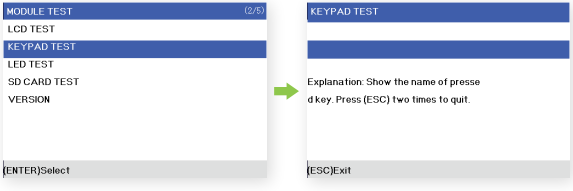
LCD Test

Choose [LCD TEST] then press [OK] button. The Screen will display as follows:



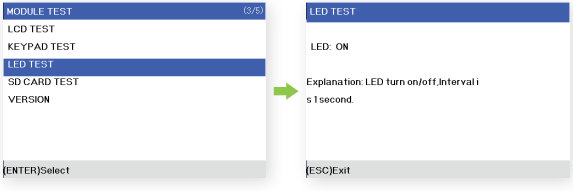
KEYPAD Test

Choose [KEYPAD TEST] then press [OK] button. The Screen will display as follows:



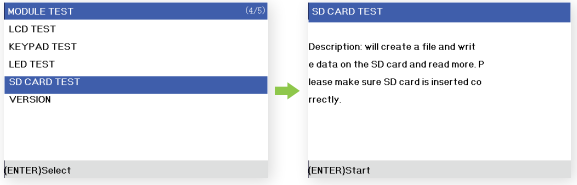
LED Test

Choose [LED TEST] then press [OK] button. The Screen will display as follows:



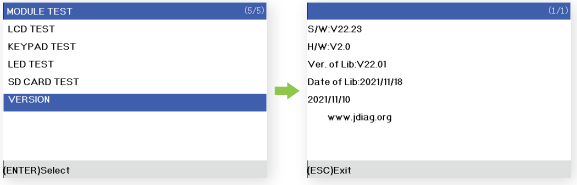
SD CARD Test

Choose [SD CARD TEST] then press [OK] button. The Screen will display as follows:



VERSION

Choose [VERSION] then press [OK] button. The Screen will display as follows:

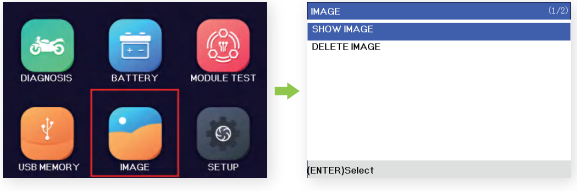


USB MEMORY

Choose [USB MEMORY] then press [OK] button. The Screen will display as follows:

IMAGE

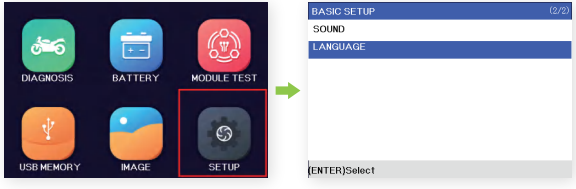
Choose [IMAGE] then press [OK] button. The Screen will display as follows:



Note: Select USB storage and connect USB cable with computer , then computer will detect device storage automatically .

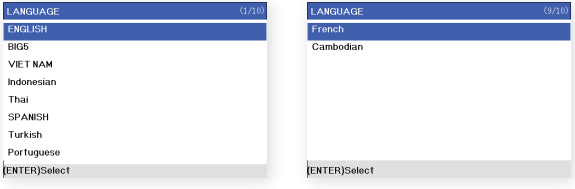
SETUP

Choose [SETUP] then press [OK] button. The Screen will display as follows:



Language Setting

Choose [LANGUAGE] then press [OK] button. The Screen will display as follows:



PROFESSIONAL BATTERY TEST MODE

The latest Universal Battery Tester M100 Pro from JDiag is developed to test 12V batteries , Cranking and Charging system . Apply with the newest technology, it capable of measuring resistance and voltage of a battery using the same input channel, Fast and Convenient for users and technicians to operate and provides accurate test result.

Function include: Battery Test, Cranking Test and Charging Test.

Why the Voltage of a car battery is important ?

Knowing your car batteries voltage and conditions is important . you car battery provides your vehicles electrical needs when the engine isn't running and importantly it provides the necessary Spark to get the engine turning over when starting your car.

We advise that you check your car battery a couple of times each year , It is worth reminding you to avoid unable to start the car.

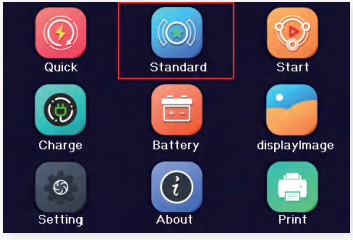
Battery Test

Connect the Red Clip to the battery Positive(+) pole, and the Black Clip to the battery Negative (–)Pole, Then device will power up automatically and ready to test.

Note: 1. Device will not working properly if the voltage of battery is under 7V.

2. if you are testing battery on vehicle , please do not insert keyor keep it to OFF position. Make sure all electrical devices and doors are closed .

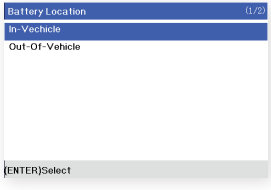
Device Working Screen as below:



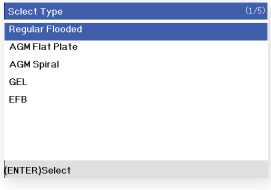
For battery test with 2 modes Quick test and Standard Test. Select Quick test if do not know the battery type , (the test values may be a little deviation with the standard test result).

Standard Test

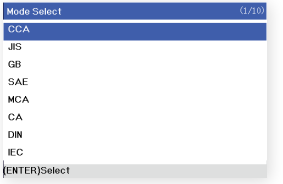
Select [Standard] to perform Battery Test, Press [OK] button to continue :



Select Battery in Vehicle or out of Vehicle. Press [OK] button to continue.

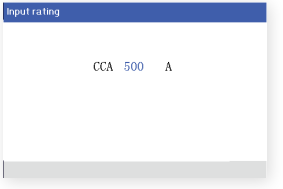


Select correct battery type in this interface (Normally are regular Flooded batteries).Press < OK > button to continue.



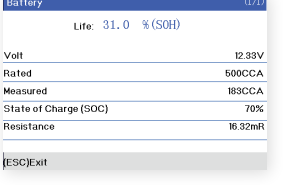
Select Correct Battery Model (you can find this information labeled on the battery).Press < OK > button to continue.

Input the correct CCA values with arrow keys. (you can find CCA information labeled on the battery)



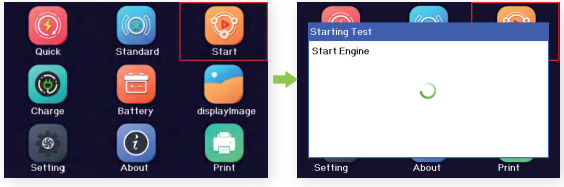
Test Result display values with Real Voltage, Rated CCA value, Measured CCA value, Resistance Value, SOH and SOC.

SOH: STATE OF HEALTH SOC: STATE OF CHARGE



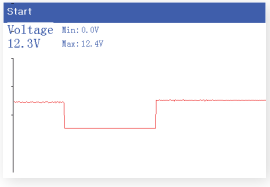
Cranking Test

Select [Start] to perform Cranking Test, Press [OK] button to continue .



Turn key ON to Start Engine.

Test Result display values with Minimum Start Voltage , Maximum Start Voltage and Real Voltage

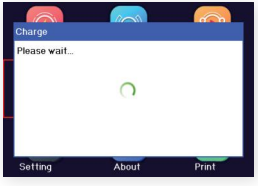


Charge Test

Select [Charge] to perform Cranking Test, Press [OK] button to continue .

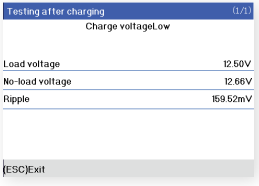
Do the operation as indicated on the Screen,

1. Turn on the Light for 3 seconds,
2. Start engine and keep rpm to 2000KM/H for 3 seconds.
3. Press < OK > button to continue.



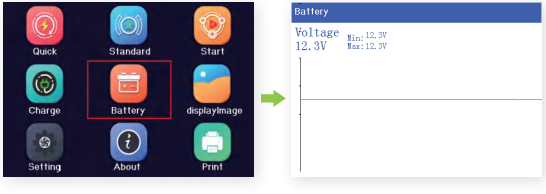
Start Testing . Wait for few seconds .

Test Result display values with Load Voltage, No–Load Voltage, Diodes Ripple Voltage and Charge Voltage Status.



Wave Test

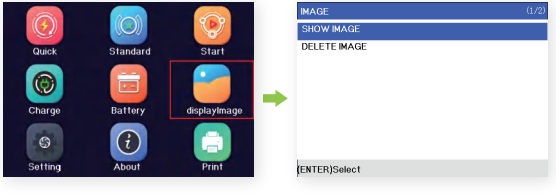
Select [Wave Test] to perform battery voltage Monitoring :



Test Result display as picture.

Image

Select [Image] to view the Screen capture images . (Press F1+ F2 to capture screen images)

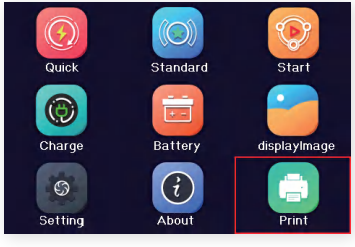


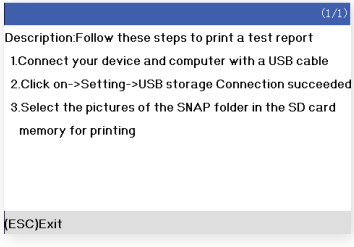
You can view the captured images and Delete images.

Print

Note: You can print the TEST RESULT quickly by connect with laptop (Press F1+ F2 to capture screen images of TEST RESULT)

1. Connect device to PC with USB cable
2. Select <Setup > and enter into <USB Storage> , Will indicate succeed read the memory storage in TF card.
3. Select the picture of TEST RESULT in the folder of SNAP to perform print .





WARRANTY AND SERVICE

One year warranty

JDiag Technology promises to provide warranty service for 1 year from the date of original purchase, if this product is purchased from an official channel, which must meet the following conditions:

1) The warranty are limited to repairing or replacing new equipment, without additional cost, but need to mention for regular sales invoices or copies of invoices.

2) The warranty does not cover the unauthorized disassembly of this product due to flooding, lightning strikes, or outside repair shops not authorized by the company ,The personnel have repaired it and considered damage caused by improper use.

3) JDiag Technology is not responsible for any damages caused by use, misuse or installation and testing. Some countries limitations on the duration of implied warranties are not allowed, so the above limitations may not apply to you.

4) All information in this manual is based on the latest and effective information at the time of publication, and there is no guarantee of its accuracy or completeness. JDiag Technology reserves the right to make changes at any time without notice.

Service Process

If you have any questions in the process of using this product, please contact your local authorized dealer directly, or visit our official website for consultation.

If you need to repair or return the goods, please contact the distributor or the sales reps who contacted you directly.

设计说明

尺寸：210*140mm　　装订方式：骑马钉装订

工艺：哑胶　　材质：封面(封面和封底)200g铜版纸，内页157g铜版纸