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MADE IN CHINA

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JDiag®

M200

USER'S MANUAL

Intelligent Motorcycle Diagnostics

CATALOG

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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.

Products

M200 new generation handheld motorbike diagnostic tool, dual system testing: EFI system testing + battery testing: new generation processing chip, faster testing, new design, handheld operation, easy to use and flexible Support WIFI online and SD card upgrade, large capacity storage, reserved CAN bus interface. 3.5 inch colour screen, clear display. The device incorporates a thermal printer to support data printing and also has dynamic data of values and waveforms.

Motorbike diagnostic system: e.g. reset service light, perform injection adjustment (CO Trimmer) adjust throttle position sensor (TPS), re-set auto-adaptive parameters and perform idle adjustment. The tool displays live data, shows ECU data, reads stored fault (historical) or live data (RPM, battery voltage, throttle angle)

Battery diagnostic system: dedicated to diagnosing the health of 12V/24V batteries, starting tests and charging system tests.
Add signal simulator to simulate crankshaft signals, PWM signals, injector signals, ignition signals, as well as detecting injector signals and injector cleaning functions

Reading system information	Freezing data	Battery detection	Clear fault codes	
ABS System Test	Charging Test	DTC Enquiry	CO idle speed adjustment	
Start-up tests	Actuator testing	Troubleshooting	Signal output	
Reading of fault codes	Data printing	Relay test	Read data stream	Injector test

Support for multi-brand motorbikes：AEON, APRILIA, BENELLI , BMW， hartford , HONDA, KAWASAKI, KTM, KYMCO , PIAGGIO , PGO， SUZUKI, SYM， VESPA, YAMAHA, OBDII， ADIVA,ARCTIC CAT,BAJAJ,BRIXTON,BOMBARDIER,CFMOTO,FIT,HYOSUNG,HERO,INDIAN,MODENAS,ENFIELD,ROJO， TVS,TRIUMPH,YIBEN

Appearance

Note: F1.F2.F3 Quick View function is limited to the battery diagnostic system.

Product parameters

Power supply: 8-30V

Operating current: 150mA

Storage temperature: -10°C to 85°C

Operating temperature: 0°C to 70°C

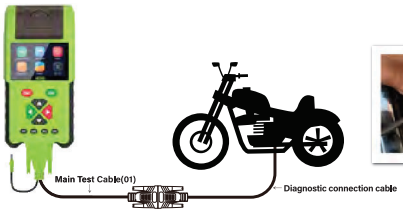
Humidity: <90%

Upgrade port: USB port / WIFI

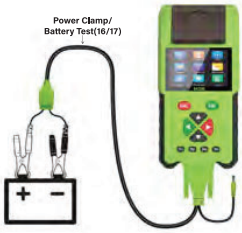
Communication port: COM port

Connection method

Motorbike diagnostic system: find the diagnostic socket on your motorbike. The location of the socket varies from motorbike to motorbike, most sockets are next to the engine, some are under the pedal cover or under the seat. Use cable 01 and the corresponding adapter cable to connect to the diagnostic socket on your motorbike.
For the battery diagnostic system: use a separate 16-17 gauge cable to connect the device to the battery.



(Motorbike diagnostic system)



(Battery diagnostic system)

System diagnosis

Take OBD as an example, after the device is turned on, select "Diagnosis" and press [OK], select OBD, choose engine system or other modes and press [OK], then follow the prompts to operate, engine system includes: [view data] [read fault codes] [clear fault codes] [co idle speed adjustment] [vehicle information], etc. Select "View Data Stream" and press [OK] to view the real-time data stream of the motorbike (the above steps are for reference only, please operate according to the actual situation)

Help

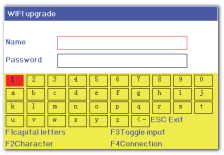
When a specific brand of diagnostic cable is not available, you can use a generic diagnostic cable and refer to the service assistant to diagnose the motorcycle.
For example, select "Help" and press [OK], select "AEON" and press [OK], then select "AEON 6PIN" and press [OK], at this point you can clearly see the pin definition of the AEON/BENLLIPRO connector and can use the generic cable to connect the corresponding jack for diagnosing the motorcycle.

SD card upgrade

To upgrade the SD card, connect the device to the computer using USB, select "Upgrade" and press [OK], select the USB memory card and press [OK], the computer will display the removable disk.
Log on to http://www.jdiagtool.com/Download the latest firmware update, unzip the folder and copy the Six sub-files (as shown in the picture) to the removable disk, then install it back into the device after copying. The upgrade process will take about 15 minutes, do not lose power during the upgrade process, the device will start automatically after the upgrade.(Note: If you see NO APP, ERROR, no word displayed on power on, or only OBDII displayed when entering motorbike diagnosis, please download the latest upgrade package again and upgrade again)

WIFI upgrade

Select " Upgrade " and press [OK] to enter the upgrade interface, select " WIFI upgrade " [OK], enter the WIFI name and WIFI password and press [OK], press [F3] to switch the wifi name and password, after successful connection (the device will prompt that it is connecting to the server, note: please do not disconnect the power during the upgrade process, wait for the device to finish the upgrade and reboot automatically).

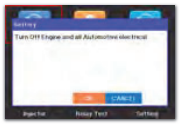
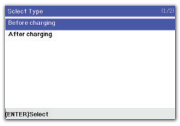


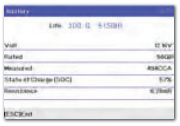
One Click Printing

Motorbike diagnostic system: support printing fault code data, when reading fault code data you can press F4 to print the current fault code data. Battery analysis system: support battery test, start test and charge test printing, after the test is completed, press "F4" print key to enter the print setting, press the directional key and key to enter the vehicle SN number, press the [ESC] key, you can print the data, (main menu interface press F4 to enter the print interface default print is the last battery test .)

Quick test

Select "Quick test" and press [OK], follow the prompts and select [OK], use the arrow keys to enter the actual AH of the battery and press [OK] to quickly check the health status of the battery.

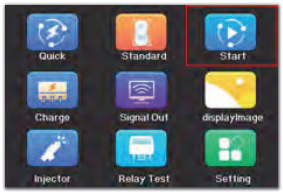


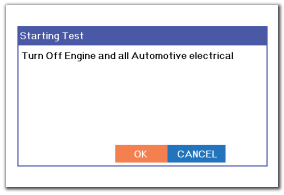
Standard test

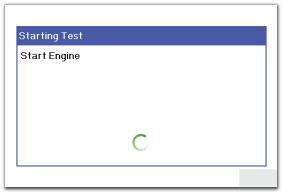
Select "Standard" and press [OK], select the vehicle and press [OK], select the corresponding type and press [OK], then select the required mode and press [OK], follow the prompts, make sure and then enter the actual value of the battery and press [OK] to analyse the health status of the battery.

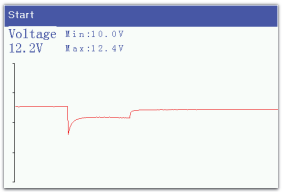
Start Test

Select “Start Test” and press [OK], follow the prompts to start the engine and wait for the device to analyse it after starting to view the current battery start test results.



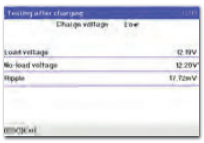






Charging test

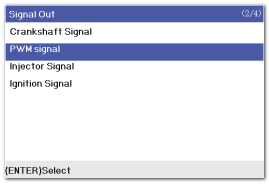
Select “Charge test” and press [OK], follow the prompts and press [OK] to detect the battery status.

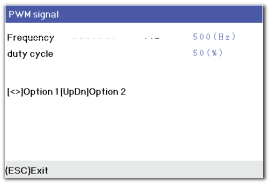


Signal output

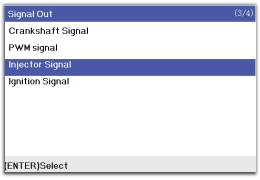
1. Crankshaft signal function: signal type output 58 pulse signal, adjustable engine revolutions

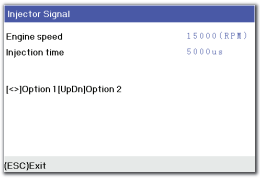
2. PWM signal function: the signal type can output adjustable frequency and duty cycle, generally test two-wire solenoid valve



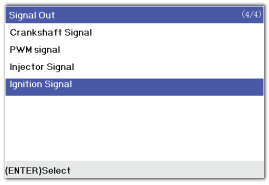


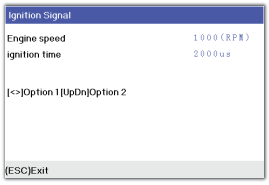
3. Injector signal function: the signal type can output adjustable injection times and engine revolutions, professional testing of injectors





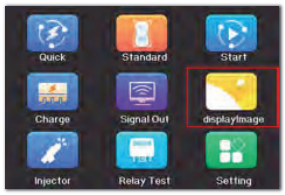
4. Ignition signal: signal type fixed ignition time and adjustable engine speed, (professional testing of ignition coils)

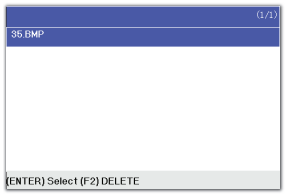




Display Image

Select "display images" and press [OK], select the image you want to view and press [OK] to view the saved image.

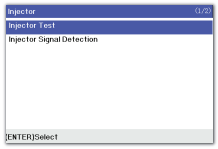


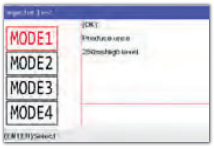


Injector testing

Mode 1: Press the [OK] key, and 1 pulse is output from the signal output line. The pulse width is 250ms.
Mode 2: Press the [OK] key, the signal output line outputs 50 pulses. Pulse width is 7ms.
Mode 3: Press the [OK] key, the signal output line outputs 100 pulses. Pulse width is 4ms
Mode 4: Press the [OK] key, the signal output line outputs 50 pulses continuously in 1450ms, each pulse width is 7ms. Press the "OK" key again to stop.

(Connection steps)

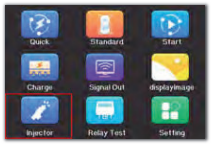


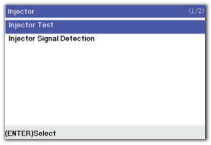


Injector cleaning

Select mode 4 to clean the fuel injectors, connect the cleaner, select mode 4 and press OK to clean the fuel injectors.

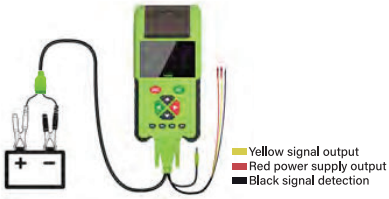
(Connection steps)



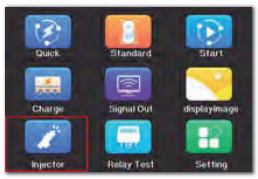


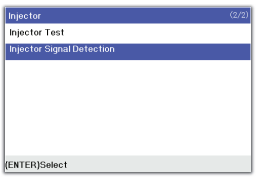
Injector signal detection

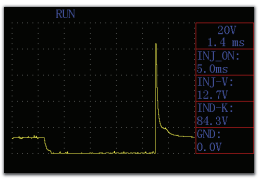
Connect the signal detection to the signal line of the engine injector, start the engine so that the injector works normally, and then enter the "injector signal detection" function.
At this point the device can collect the injector signal and analyse its parameters and draw its signal waveform



(Connection steps)







Relay test

Select " Relay test " function, press OK to enter and connect the main unit to the relay test box via Type-c. The Relay Box can be used with 5 terminal relays or 4 terminal relays.

Tip: Before testing the relay we should check whether the relay is 12V or 24V, if it is a 12V relay we should choose a 12V battery for the power supply test, for 24V relays please choose a 24V battery for the power supply test.

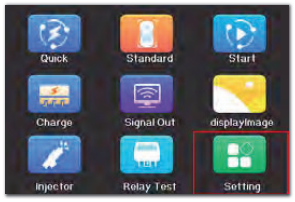
1, Connect the relay test box to the device via USB-C
2, Find the right hole to enter the relay
3, Press the OK button to start testing.

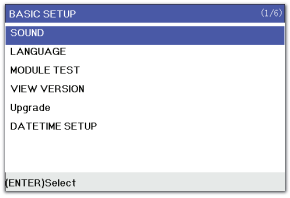
(5–terminal relay)

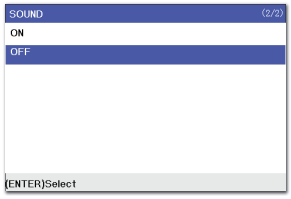
(4–terminal relay)

Sound

Select "Settings" function, press the OK button to enter, select the "Sound" mode and set the sound switch as required. Press the OK button to confirm.

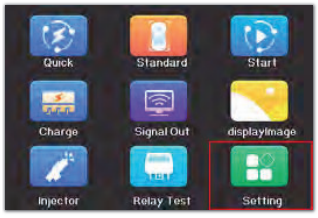


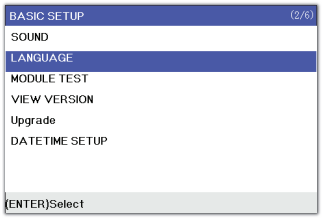


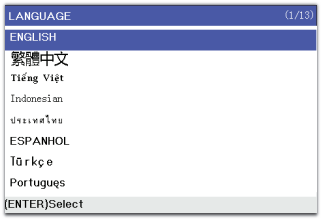


Language

Select "Settings" function, press the OK button to enter, select “Language" mode, select the desired language and press the OK button to confirm.

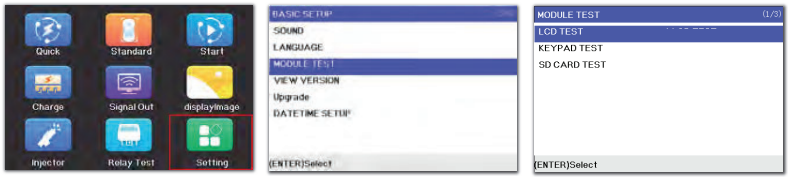






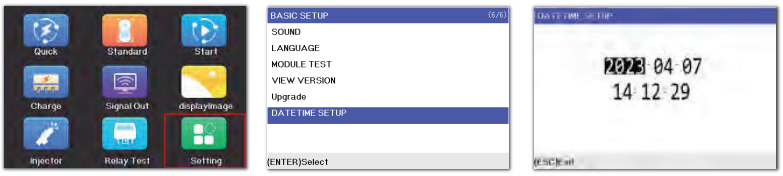
Module test

Select "Settings" function, press OK to enter, select "Module test" mode, press OK to confirm. The module check includes: LCD check, key check and SD check.



Datetime Setup

Select "Settings" function, press the OK button to enter, select the "Datetime Setup" mode, press the arrow keys to set the number, press the OK button to confirm.



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.

Attention:

FCC Statement

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

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:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation。

尺寸:210*140(出血3mm)

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

潘通色3507C