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CE FC RoHS  
MADE IN CHINA

EC

REP

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M300

USER'S MANUAL

Universal Motorcycle Scan Tool

UNIVERSAL MOTORCYCLE SCAN TOOL+ PROFESSIONAL BATTERY TESTER



CATALOGUE

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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:

- i** Always perform automotive testing in a safe Environment.
- i** 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.
- i** Wear safety eye protection that meets ANSI standards.
- i** Keep clothing, hair, hands , tools , test equipment, etc. Away from all moving or hot engine parts.
- i** Operate the vehicle in a well-ventilated work area. Exhaust gases are poisonous.
- i** Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- i** 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.
- i** Put the transmission in P (for A/T) or N(M/T) and make sure the parking brake is engaged.
- i** Keep a fire extinguisher suitable for gasoline /chemical / electrical fires nearby.
- i** Don't connect or disconnect any test equipments while the ignition is ON or the engine is running.
- i** 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.
- i** Our company is not responsible for any damage caused by unintentional or deliberate misuse of our products or tools.

PRODUCT INTRODUCTION

The M300 is a new generation of handheld motorcycle diagnostic tool with a large 5.0" display and a rich, clear interface that covers virtually all of the manufacturer's diagnostic functions. It allows technicians to trace (injectors, ignition, coils, fuel pumps, etc.), perform factory service procedures such as resetting service lights, performing injection adjustments (CO Trimmer) adjusting the throttle position sensor (TPS), setting automatic adaptive parameters, and performing idle adjustments.

M300 supports printer, picture view, data logging and playback, battery detection, error report feedback and other functions. With fast running speed, smooth interface operation and excellent data processing capability, it can help technicians diagnose problems and perform repairs faster.

PRODUCT FEATURES

- ▶ READ SYSTEM INFORMATION
- ▶ READ LIVE DATA STREAMS
- ▶ READ FAULT CODE
- ▶ ERASE FAULT CODE
- ▶ FREEZE DATA
- ▶ DTC QUERY
- ▶ DIGITAL & WAVEFORM DISPLAY
- ▶ CO IDLE SPEED ADJUSTMENT
- ▶ ACTUATORS TEST
- ▶ ABS SYSTEM TEST
- ▶ TROUBLE SHOOTING GUIDANCE
- ▶ SOFTWARE ONLINE UPGRADE
- ▶ UNIVERSAL BATTERY ANALYZING
- ▶ PRINTABLE TEST RESULT

Supported models : Harley, BMW, Ducati, AEON, APRILIA, BENELLI , BMW , hartford , HONDA, KAWASAKI, KTM, KYMCO , PIAGGIO , PGO, SUZUKI, SYM, VESPA, YAMAHA, OBDII, ADIVA



PRODUCT DESCRIPTION





PRODUCT PARAMETERS

Screen Size: 5.0 inches

Operating Voltage: 9–18V

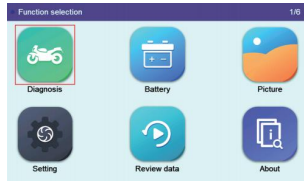
Working Temperature: 0–60 °C

Storage Temperature: –40–70 °C



MOTORCYCLE DIAGNOSIS

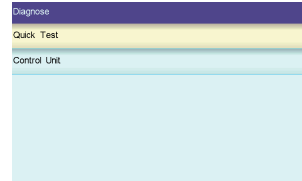
Select “Diagnosis” mode, select the vehicle make, then select ”Quick Test” to automatically scan the entire system assembly status of the model and read the fault codes, you can click F3 to pause the scan during the system scan (Figure 4)



(Figure1)



(Figure2)



(Figure3)

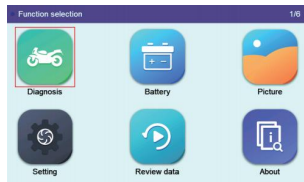
Quick Test	
[ECM] (Engine Control Module)	Pass
[ABS] (Anti-lock Brake System)	Fault I (2)
[BODY] (Body Computer)	Pass
[PI] (Instrument Cluster)	Fault I (5)
[IMMO] (Immobilizer)	Scanning... (7%)
F1:[Report]	F2:[Quick Erase] F3:[Pause]

(Figure4)

5

CONTROL UNIT

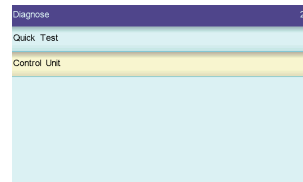
Select “Diagnosis” mode, select the vehicle make , select “Control Unit” will display the possible systems installed in the vehicle, the customer can choose (Figure 4)



(Figure1)



(Figure2)



(Figure3)

Control Unit	
[ECM] (Engine Control Module)	Unknown
[ABS] (Anti-lock Brake System)	Unknown
[BODY] (Body Computer)	Unknown
[PI] (Instrument Cluster)	Unknown
[IMMO] (Immobilizer)	Unknown
F1:[Report]	F2:[Quick Erase] F3:[Pause]

(Figure4)

Definitions Of The Module Diagnosis[Figure4]

“Unknown” – the system is not known to be assembled
 “Not installed” – system not assembled

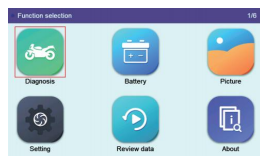
“Installation” – System assembled but not reading fault codes
 “Pass” – system assembled and no fault codes

“Fault(*),...” –System assembled and *fault code present

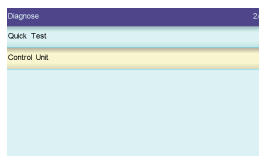


VIEW PRINTED REPORTS

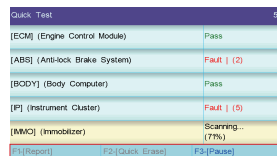
The result display screen in Standard test (battery), Quick test (battery), Charging Test (Battery), and the fault code report screen in diagnostics can be printed by pressing and holding F3, and the printer that comes with the device will print the vehicle diagnostic information and operator-defined information on paper after the operator enters the customized information.(Figure 5)



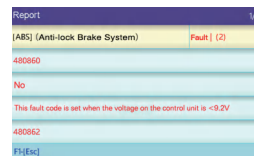
(Figure1)



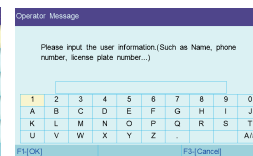
(Figure2)



(Figure3)



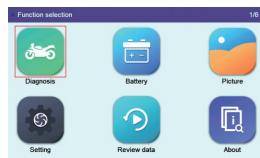
(Figure4)



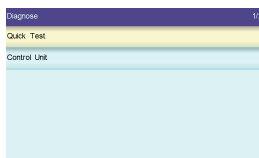
(Figure5)

MODULE INFORMATION

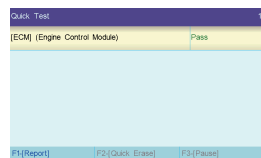
Select “Diagnosis” mode, select vehicle make , enter single system diagnosis, select ”Quick Test” (Figure 4), select ”Module Information”, system information will be displayed, such as production date, serial number and other information (Figure 5)



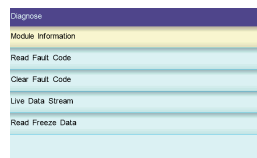
(Figure1)



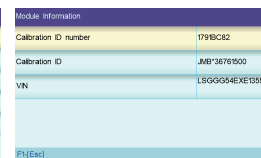
(Figure2)



(Figure3)



(Figure4)

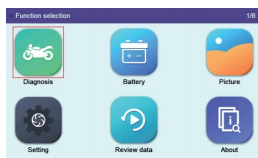


(Figure5)

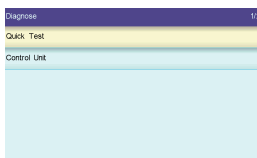


READ FAULT CODE

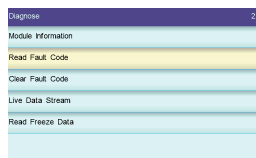
Select "Diagnose" mode, select the vehicle make, enter the single system diagnosis, select "Read Fault Code", select one of them (Figure 3), press Ok, check the fault code information in the system (Figure 5), press the left and right button to switch Fault code. (Note, in some vehicles, you do not need to manually select the current/history)



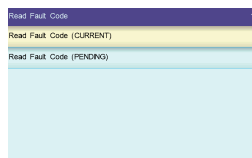
(Figure1)



(Figure2)



(Figure3)



(Figure4)

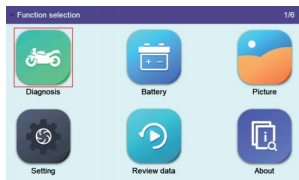


(Figure5)

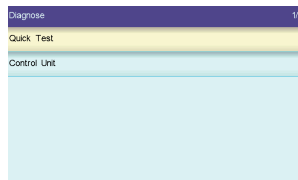
7

CLEAR FAULT CODE

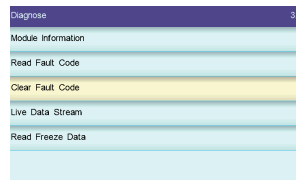
Select "Diagnosis" mode, select the vehicle make , enter the single system diagnosis, select "Clear Fault Code", the screen displays the relevant prompts to clear the press (Figure 3), press OK to clear the fault code



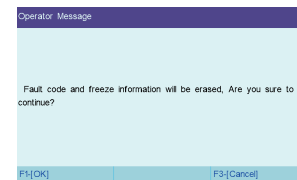
(Figure1)



(Figure2)



(Figure3)

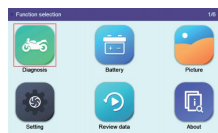


(Figure4)

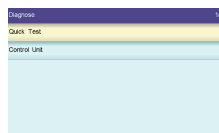


LIVE DATA STREAM

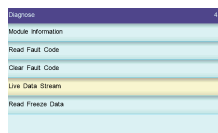
Select “Diagnosis” mode, select the vehicle make , enter the single system diagnosis, select ”Real-time data stream”, enter the data stream selection interface, press F1 to select all or select the specified data stream and click OK (Figure 4), press F3 to enter the real time data stream display after selection (Figure 5), when the cursor moves to the data stream item whose result is a value, press F1 to enter the waveform display (Figure 6)



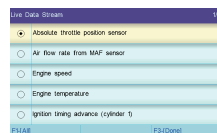
(Figure1)



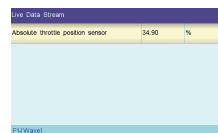
(Figure2)



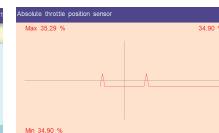
(Figure3)



(Figure4)



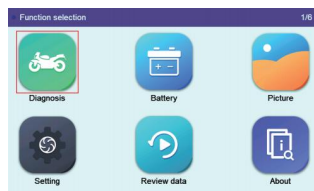
(Figure5)



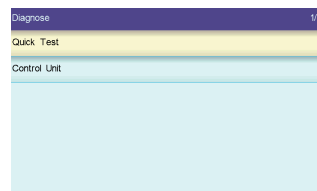
(Figure6)

READ FREEZE DATA

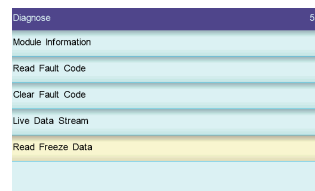
Select “Diagnose” mode, select vehicle make , enter single system diagnosis, select “Read Freeze Frame” , and read freeze frame information (Figure 4)



(Figure1)



(Figure2)



(Figure3)

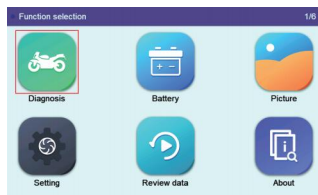
Absolute throttle position sensor	58.82	%
Air flow rate from MAF sensor	302.63	G/s
Engine speed	10.00	rpm
Engine temperature	90	deg C
Fault code	P0103	

(Figure4)

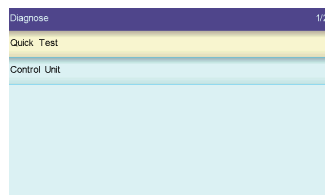


ACTUATION TEST

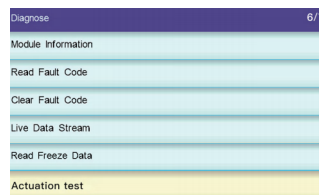
Select “Diagnosis” mode, select the vehicle make , enter single system diagnosis (Figure 3), select “Actuation Test” (Figure 4), select the desired function and follow the prompts



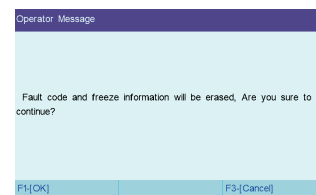
(Figure1)



(Figure2)



(Figure3)

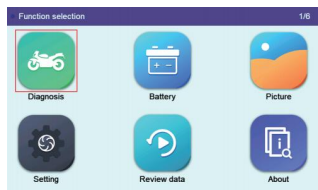


(Figure4)

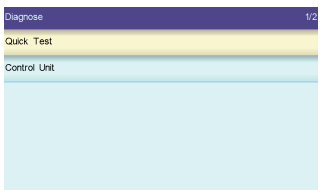
9

SERVICE / MAINTENANCE

Select the “Diagnosis” mode, select the vehicle make , enter the single system diagnosis, select “Service/Main-tenance” (Figure 3), select the desired function and follow the prompts (Figure 4)



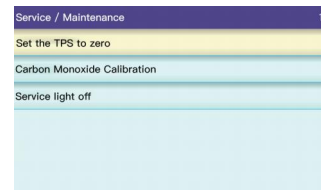
(Figure1)



(Figure2)



(Figure3)

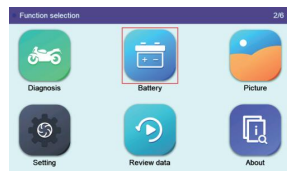


(Figure4)

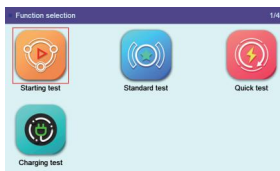


STARTING TEST

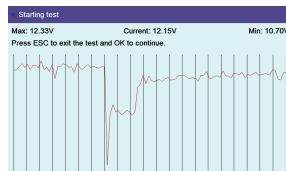
Select "Battery", press OK, the screen displays (Figure. 2) select "Starting Test", press OK, start the engine, and the screen shows the test message (Figure. 3)



(Figure1)



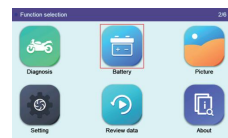
(Figure2)



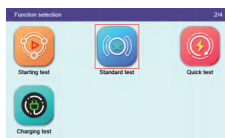
(Figure3)

BATTERY TEST

Select "Battery", press OK, Select "Standard test", press OK to confirm, select normal battery (Figure 3), select CCA mode for example (Figure 4), select before-charge mode for example (Figure 5), turn off the engine and all electrical components according to the message (Figure 6), then enter the value (adjust the value by using the arrow keys). Press the OK button to confirm (Figure 8). Press and hold F3 to start printing, enter the custom information and print the paper report (Figure 9).



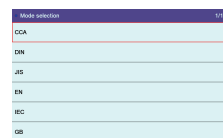
(Figure1)



(Figure2)



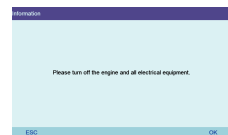
(Figure3)



(Figure4)



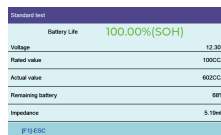
(Figure5)



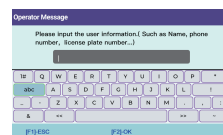
(Figure6)



(Figure7)



(Figure8)

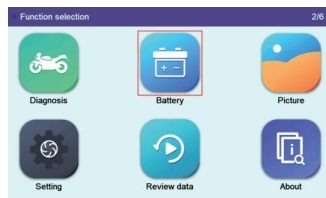


(Figure9)

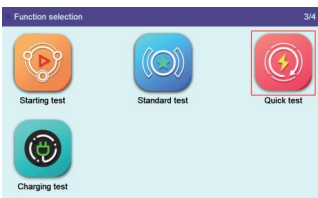


QUICK TEST

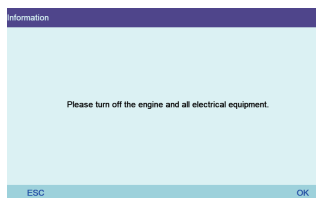
1) Select “Battery”, press OK, Select “Quick test ” , turn off the engine and all electrical components according to the message (Figure. 3), then enter the value (adjust the value by using the arrow keys), press the OK button to confirm after the adjustment is completed (Figure. 4).



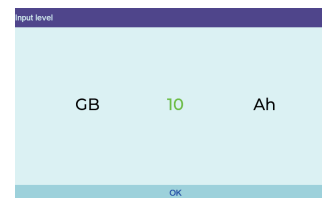
(Figure1)



(Figure2)



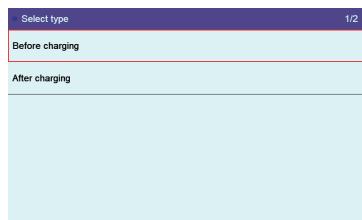
(Figure3)



(Figure4)

11

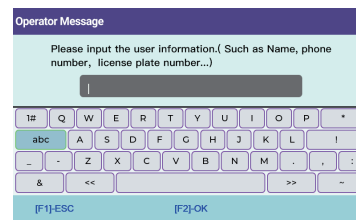
2) Take before-charge mode as an example, select before-charge, press OK and wait for the test to finish (Figure 6), press and hold F3 to start printing, enter custom information and print the paper report.



(Figure5)

Quick test (battery)	
Battery life	11.67%(SOH)
Voltage	19.48V
Rated Value	10GB
Actual Value	28CCA
Remaining power	100%
Impedance	98.59mR
[F1]-ESC	

(Figure6)

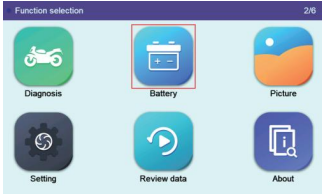


(Figure7)



CHARGING TEST

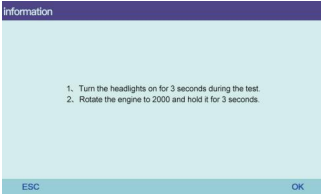
Select “Battery”, press OK, Select “Charging Test ” , follow the prompts to make the appropriate action, then press OK to confirm and wait for the test to complete (Figure 4).



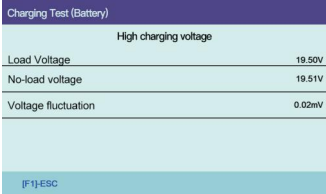
(Figure1)



(Figure2)



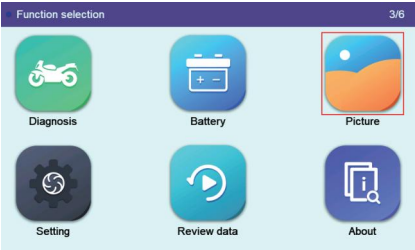
(Figure3)



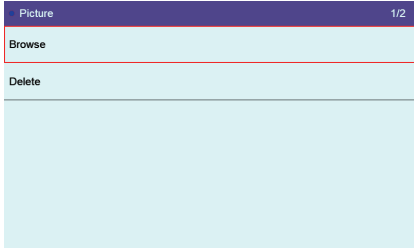
(Figure4)

VIEW PICTURE

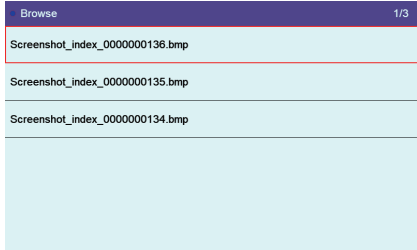
Select “Picture” and press OK (Figure 1), select “Browse” and press OK (Figure 2), select the picture you want to view, then press OK and click View (Figure 3)



(Figure1)



(Figure2)

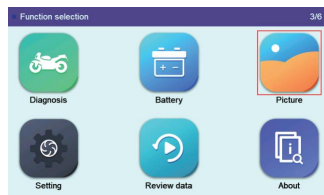


(Figure3)

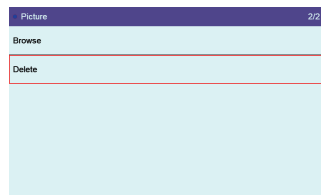


DELETE PICTURE

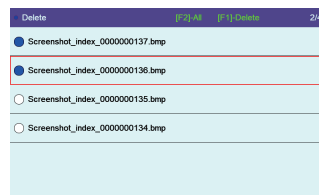
Select “Picture” and press OK to confirm (Figure 1), select “Delete” and press OK to confirm (Figure 2), select the picture to be deleted and press F1, press OK to confirm the deletion, press ESC to cancel (Figure 4) (Tip: press F2 to select all pictures, press F2 again to cancel the full selection)



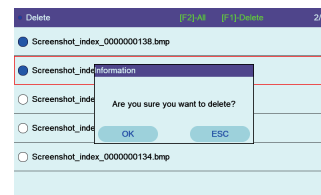
(Figure1)



(Figure2)



(Figure3)

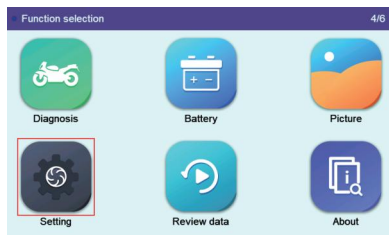


(Figure4)

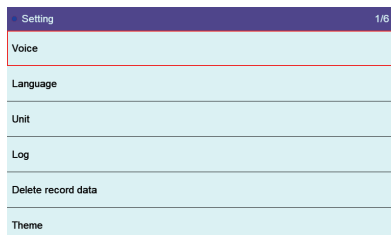
13

VOICE

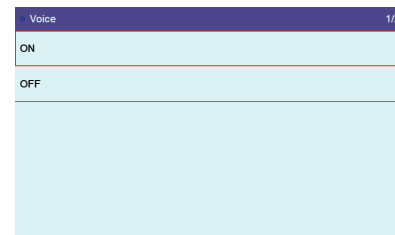
Select “Settings” and press OK to confirm (Figure 1), select “Sound” option and press OK to confirm (Figure 3)



(Figure1)



(Figure2)

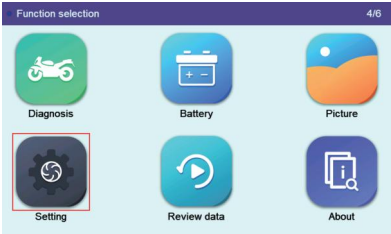


(Figure3)

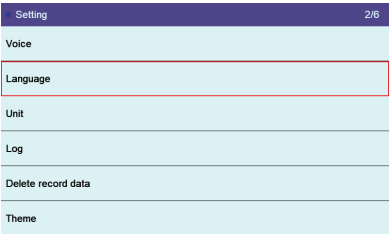


LANGUAGE

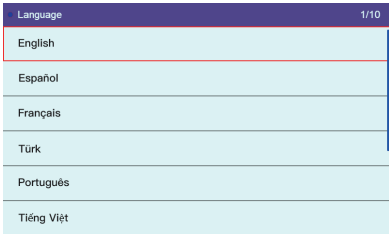
Select “Settings” and press OK to confirm (Figure 1), select “Language” option and press OK to confirm (Figure 3)



(Figure1)



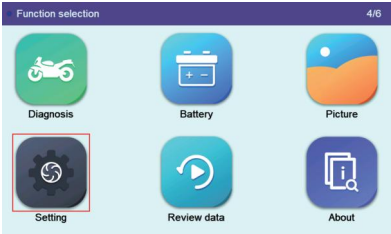
(Figure2)



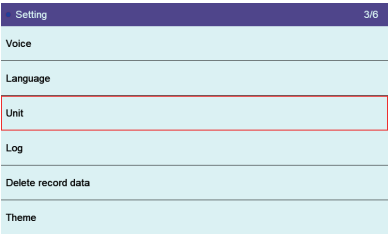
(Figure3)

UNITS

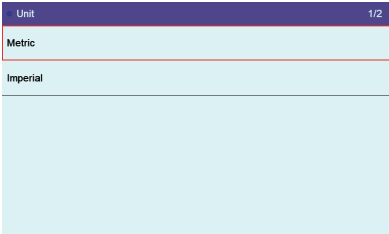
Select “Settings” and press OK to confirm (Figure 1), select the “Units” option and press OK to confirm (Figure 3)



(Figure1)



(Figure2)

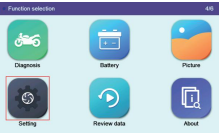


(Figure3)



LOG

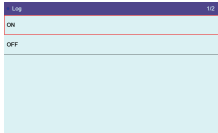
Log function to record and save operation data, open the log for diagnostic operation, exit after the operation is completed, the tool will automatically save the data, successful saving will prompt the save address and name [Figure 5], the information is generally stored in DIAGNOSE/LOG



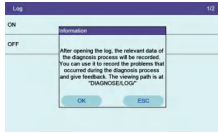
(Figure1)



(Figure2)



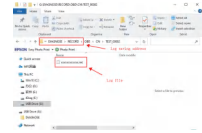
(Figure3)



(Figure4)



(Figure5)

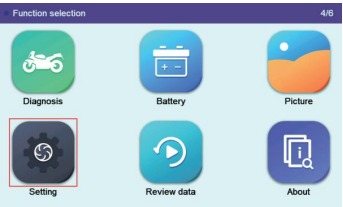


(Figure6)

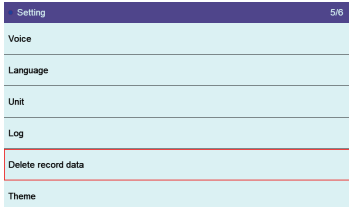
15

DELETE RECORD DATA

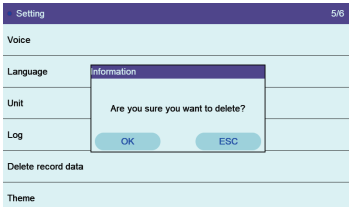
Select “Settings” and press OK to confirm, select “Delete Recorded Data” and press OK to confirm, confirming the deletion will clear all the data recorded in the diagnosis (including the record file and log feedback file) (Figure 3)



(Figure1)



(Figure2)

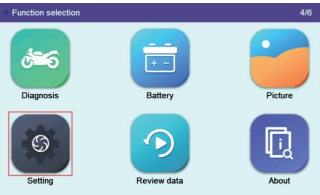


(Figure3)

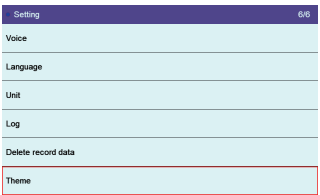


THEME

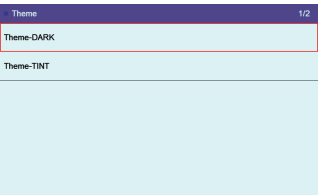
Select “Settings” and press OK to confirm (Figure 1), select ”Theme” option and press OK to confirm, switch themes as needed



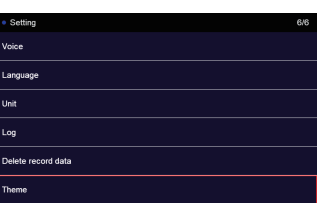
(Figure1)



(Figure2)



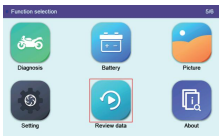
(Figure3)



(Figure4)

REVIEW DATA (IN OBD FOR EXAMPLE)

Select “Review data” , then press OK, select the make of the model you want to view (Figure 2), press OK, follow the prompts to select the playback content you want to view (Figure 4), then press OK to display the name of the file generated by record saving (Figure 5), and finally select the file you want to view and press OK to confirm (Figure 6)



(Figure1)



(Figure2)



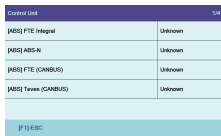
(Figure3)



(Figure4)



(Figure5)

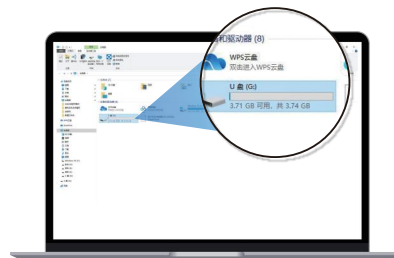


(Figure6)



SOFTWARE UPGRADE

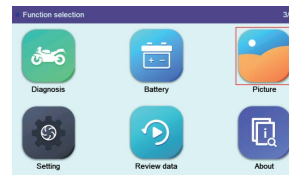
Connect the device to the computer, wait for the device to be recognized by the computer, after successful recognition of the computer side will appear a new disk drive, open this disk drive, we will download the "DIAGNOSE" upgrade folder to replace the "DIAGNOSE" folder inside the disk drive and then reboot tool



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SCREENSHOTS/PICTURE

All screens can be screenshotted by long pressing F1, and when the screenshot is completed, the screenshot will show the path of the current screenshot image. You can view all screenshots under the [Picture] icon in the main screen



RECORDS/REVIEW DATA

In diagnostic interface, fault code report interface, fault code interface, version information interface, data stream interface and freeze frame interface can be recorded by long press F2 to record the vehicle diagnostic information mentioned in the current interface, and the path of the current recorded information will be indicated when the recording is completed. View all recorded information under the Review data icon in the home screen



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.

