



Motorcycle Diagnostic Instrument

390200-000000

MOTOR
EOBD&OBD
CAN BUS
J1850 PWM
J1850 VPW
ISO9141-2
KWP2000

EFI-SCANNER

Table of Contents

1. Safety Precautions and Warnings	2
2. About 390200-000000	4
2.1 Tool description	4
2.2 Technical Parameters	5
2.3 Product List	6
2.4 Upgrade ECU data	6
2.5 System settings	7
2.6 Tool information	8
2.7 Tool self-test	9
3. Motorcycle Diagnostics	10
3.1 Read Codes	11
3.2 Clear Codes	12
3.3 Live Data	15
4. Warranty and Service	16
5.1 Limited One Year Warranty	16

1. Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the scan tools, read this instruction manual first and observe the following safety precautions at a minimum whenever working on the vehicle.

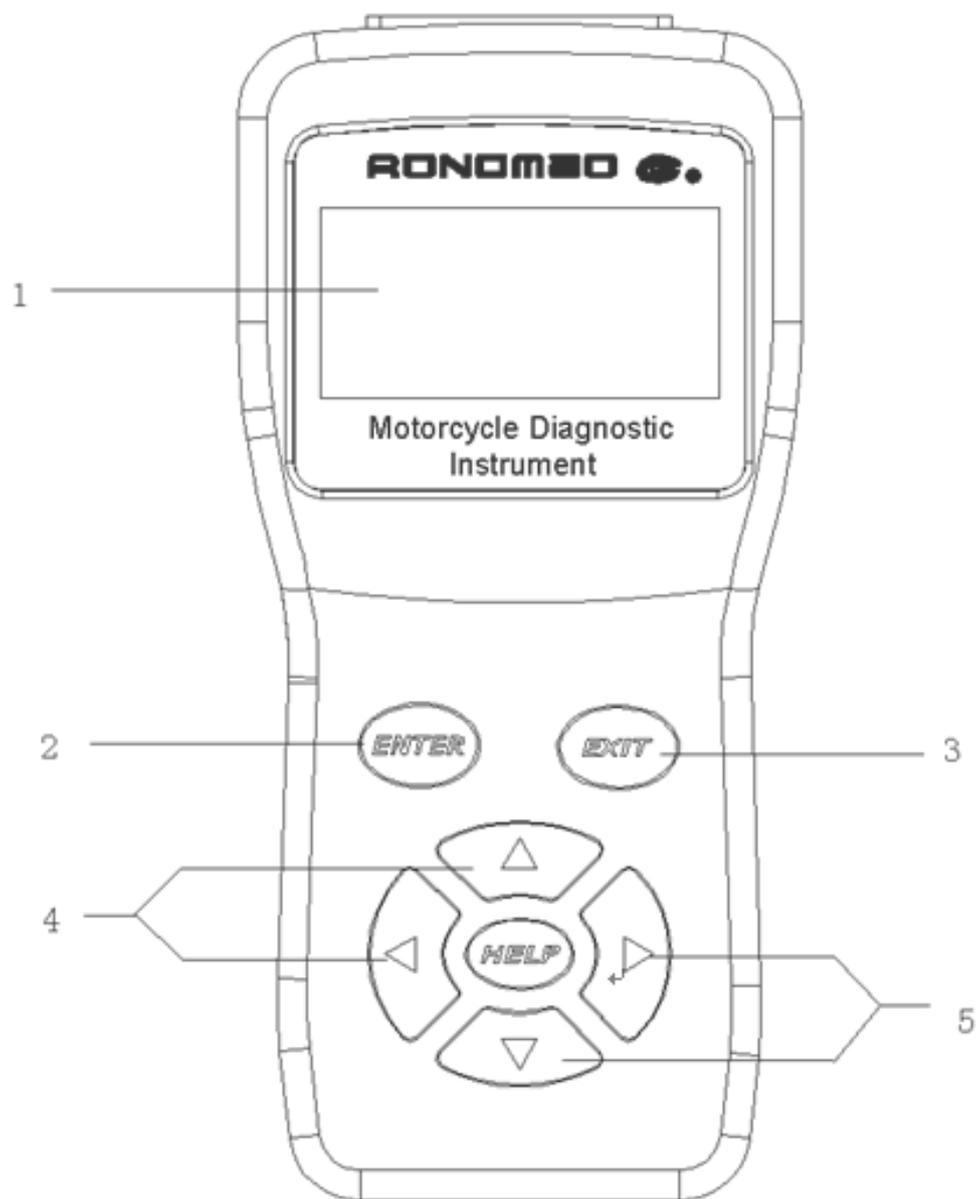
- Always perform Motorcycle testings in a safe environment
- Do not attempt to operate or observe the tool while driving the vehicle. Operating or observting the tool will cause driver

distraction and could cause a fatal accidents.

- Wear safety eye protection that meets ANSI standards.
- Keep clothes, hair, hands, tools and test equipment, etc. away from all operating 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 wire and spark plugs. These components create hazardous dangerous voltages when the engine is running.
- Put the transmission in "PARK" (for automatic transmission) or "NEUTRAL" (for manual transmission) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Do not connect or disconnect any test equipment 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.

1. About 390200-000000

2.1 Tool description



1. Indicates test results. Backlit, 128*64 pixel display with contrast adjustment.

2. Confirm button “ENTER BUTTON” – confirm the operation (or action) from the menu.

3. “EXIT BUTTON” – deselect (or move) from the menu or return to the menu.

It can also be used to set up the system and launch the DTC lookup screen.

4. “UP SCROLL BUTTON” – Moves up through menus and submenu items in menu mode. When data is retrieved more than one screen, get more data by moving the current screen up to the previous screen. When using USB cable to turn the tool When connecting to a PC, you need to press this button to update the DTC library.

5. “DOWN SCROLL BUTTON” – Moves down through menus and submenu items in menu mode. When the data is retrieved more than one screen, get more data by moving the current screen up to the previous screen.

2.2 Technical Parameters

1) Display backlight, 128*64 pixel display, support for contrast adjustment.

2) Operating temperature: 0 to 66 ° C (32 to 140 F °)

3) Storage temperature: -20 to 70 ° C (-4 to 158 F °)

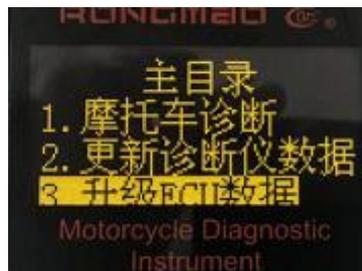
4) External power supply: 8.0 to 18.0V power supply via car battery.

2.3 Product List

- 1) 390200-000000: One detector.
- 2) USB: one data cable.

2.4 Upgrade ECU data

- 1) Turn off the ignition switch
- 2) Through the main cable connection device and motorcycle.
- 3) Turn on the ignition switch. Do not start the engine.
- 4) Press the "OK" button to enter the "Main Menu" and use the "Up/Down" scroll button to select "Upgrade ECU Data" from the main menu.



- 5) A warning message will appear asking for confirmation.



- 6) The detector will enter the reading state and wait for the reading to be completed.



7) If the data is successfully updated, a "Data Upgrade Complete" will be displayed.



● If the data fails to be upgraded, a message "Data upgrade failed" will appear.

2.5 System settings

- 1) Contrast: Adjust the contrast of the LCD display.
- 2) In the main menu: Use: Up/Down Scroll button to select system settings, press [ENTER] to follow the setting instructions to make adjustments and program settings.



2.6 Tool information

Tool information: You can view some important information, such as the serial number and software version number of the scanner.

- 1) Select "Tool Info" by scrolling from the main menu. Press the [ENTER] key.



- 2) View tool information



2.7 Tool self-test

1) In the main menu, use the “up/down” scroll button to select tool detection, press [ENTER].



A. Display detection

The display test function will check if the LCD is normal.



B. Button detection

The button detection function verifies that the button function is normal.



3. Motorcycle Diagnostics

- 1) Turn off the ignition switch
- 2) Through the main cable connection device and motorcycle.
- 3) Turn the ignition on. The engine can be turned off or running.
- 4) Press the "OK" button to enter the "Main Menu". Use the "Up/Down" scroll

button to select Motorcycle Diagnostics from the main menu.



5) Press the [ENTER] key and a diagnostic message can be seen on the display until the vehicle agreement is completed.

(If the device is not interconnected with the vehicle, a connection error message will appear on the display.)

3.1 Read Codes

1) Use the “Up/Down” scroll button to select the fault code from “Motorcycle Diagnostics” and press [ENTER].



2) View the DTC on the screen and its definitions.



● In the upper right corner of the display, you can see the number of control modules, fault codes and total number of code detections.

3) If multiple fault codes are found, use the Up/Down scroll buttons as needed to navigate through all fault codes.

3.2 Clear Codes

Safety Precautions and Warnings:

This function is executed after the engine is turned off. Do not start the engine. After clearing, you should retrieve the fault code again or turn the ignition switch on, and then retrieve the code again. If there is still a certain hard fault code, please find out the fault code first. The reason, then solve the problem. Now, you can clear the code.

1) Use the Up/Down scroll button to select Clear Fault Code from Motorcycle Diagnostics and press [ENTER]



2) A warning message will appear asking for confirmation.



3) Press [ENTER] to confirm.

● If the code is successfully cleared, a confirmation message "Clear successful!" will be displayed.



- If the code is not cleared, a message "Clear Failed!" will appear.

			HEX	DEC
Manifold Absolute Pressure Sensor (MAP)	P0107	MAP Circuit Low Voltage or Open	107	263
	P0108	MAP Circuit High Voltage	108	264
Intake Air Temperature Sensor (IAT)	P0112	IAT Circuit Low Voltage	112	274
	P0113	IAT Circuit High Voltage or Open	113	275
Coolant/Oil Sensor	P0117	Coolant/Oil Temperature Sensor Circuit Low Voltage	117	279
	P0118	Coolant/Oil Temperature Sensor Circuit High Voltage or Open	118	280
Throttle Position Sensor (TPS)	P0122	TPS Circuit Low Voltage or Open	122	290
	P0123	TPS Circuit High Voltage	123	291
Oxygen Sensor	P0131	O2S 1 Circuit Low Voltage	131	305
	P0132	O2S 1 Circuit High Voltage	132	306
Oxygen Sensor Heater	P0031	O2S Heater Circuit High Voltage	31	49
	P0032	O2S Heater Circuit Low Voltage	32	50
Fuel Injector	P0201	Injector 1 Circuit Malfunction	201	513
	P0202	Injector 2 Circuit Malfunction	202	514
Fuel Pump Relay (FPR)	P0230	FPR Coil Circuit Low Voltage or Open	230	560
	P0232	FPR Coil Circuit High Voltage	232	562
Crankshaft Position Sensor (CKP)	P0336	CKP Sensor Noisy Signal	336	822
	P0337	CKP Sensor No Signal	337	823
Ignition Coil	P0351	Cylinder 1 Ignition Coil Malfunction	351	849
	P0352	Cylinder 2 Ignition Coil Malfunction	352	850
Idle Control System	P0505	Idle Speed Control Error	505	1285

			HEX	DEC
System Voltage	P0562	System Voltage Low	562	1378
	P0563	System Voltage High	563	1379
MIL	P0650	MIL Circuit Malfunction	650	1616
Tachomete	P1693	Tachometer Circuit Low Voltage	1693	5779
	P1694	Tachometer Circuit High Voltage	1694	5780
Oxygen Sensor 2	P0137	O2S 2 Circuit Low Voltage	137	311
	P0138	O2S 2 Circuit High Voltage	138	312
Oxygen Sensor Heater 2	P0038	O2S Heater 2 Circuit High Voltage	38	56
	P0037	O2S Heater 2 Circuit Low Voltage	37	55
Vehicle Speed Sensor	P0500	VSS No Signal	500	1280
Park Neutral Switch Diag	P0850	Park Neutral Switch Error	850	2128
CCP	P0445	CCP short to high	445	1093
	P0444	CCP short to low/open	444	1092

3.3 Live Date

1) Use the Up/Down scroll button to select “Dynamic Data Stream” from “Motorcycle Diagnostics” and press [ENTER].



3) View details by the "Up/Down" button.



3) Press [EXIT] to return to "Motorcycle Diagnostics".

4. Warranty and Service

5.1 Limited One Year Warranty

The hardware of this machine is free of charge for one year. (If the damage is caused, some maintenance costs and replacement parts will be paid)

Software free upgrade for life.