

# **ADS5303**

# **User manual**

Dear user,

Thank you for purchasing ADS5303 (MOTO-SUZUKI). This manual contains introduction, function, usage and after-sale, please read it carefully before using.

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## I. Introduction

### 1.1 External View of Mainframe

#### 1.1.1 Front layout of mainframe



Mainframe Length: 220mm Mainframe Width: 150mm

Vision Screen Length: 104mm Vision Screen Width: 81mm

Instruction of keyboard:

【ENTER】 Confirmation to the current option.

【EXIT】 Negation to the problem or return to the last menu.

【↑】 Upward movement

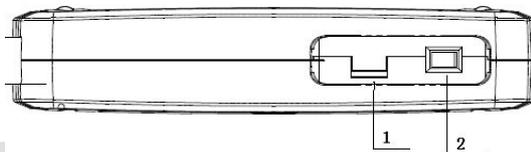
【↓】 Downward movement

【→】 Move forward

【←】 Move backward

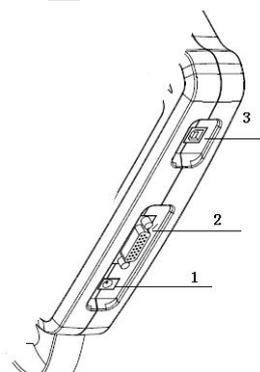
【RESET】 Function key

#### 1.1.2 Operation guide for the top part of mainframe



Note: 1. Brightness adjusting knob of the Mainframe screen.  
2. Power supply switch of the Mainframe.

#### 1.1.3 Operation guide for the bottom part of mainframe



1. Power supply insert

2. Diagnose interface

3. USB interface

### 1.2 Technical Parameter

Working Voltage: DC12V

Working current: <1A

Working temperature: 0~40℃

Humidity: <80%

## II. Function

### 2.1 Mainframe Power Supply Modes

MOTO-SUZUKI has several power supply modes:

1. Motorcycle diagnostic connector power supply.
2. A.C.transformer power supply
3. Provide electricity with USB interface, mainly used during the software updating.

### 2.2 Menu Introduction of Boot-strap

After electrifying the mainframe, turn on the power supply. The mainframe displays the application object of the scanner: MOTORCYCLE SCANNER. After waiting for 1sec. It can enter the main menu automatically.

|  |
|--|
| SUZUKI MOTOR   |
| <ol style="list-style-type: none"> <li>1. System Diagnosis</li> <li>2. System Information</li> <li>3. Software Updating</li> </ol> |
| Select ENTER   |

The main menu displays the function menu of MOTO-SUZUKI. There are three correlative function menus. As shown in the picture above, the black item means the choosing item.

### 2.3 System Diagnosis Menu

|  |
|--|
| SUZUKI MOTOR   |
| <ol style="list-style-type: none"> <li>1. System Diagnosis</li> <li>2. System Information</li> <li>3. Software Updating</li> </ol> |
| Select ENTER   |

This menu is the main menu of this diagnostic scanner, all the diagnostic functions enter from this menu. Because of its importance, we will give a detailed description in the later section.

### 2.4 System Information Menu

|              |                    |
|--------------|--------------------|
| SUZUKI MOTOR |                    |
| 1.           | System Diagnosis   |
| 2.           | System Information |
| 3.           | Software Updating  |
| Select ENTER |                    |

This menu displays some specific information of the diagnostic scanner. After pressing the [ENTER] key, it appears the following interface.

|                           |  |
|---------------------------|--|
| System Information        |  |
| System software: 03.00    |  |
| Diagnostic software: 1.00 |  |
| S/N: OEM0001548           |  |
| Press [ENTER] to confirm  |  |

### 2.5 Software Updating Menu

|              |                    |
|--------------|--------------------|
| SUZUKI MOTOR |                    |
| 1.           | System Diagnosis   |
| 2.           | System Information |
| 3.           | Software Updating  |
| Select ENTER |                    |

This function will be used when updating the software. According to this operation direction, you can finish the software update process.

### III. Usage

#### 3.1 System Diagnostic Introduction

Connect diagnostic connector to the motorcycle diagnostic connector and turn on the ignition switch. Open the power supply switch of the diagnostic scanner, and enter the following interface.

|  |
|--|
| SUZUKI MOTOR   |
| <ul style="list-style-type: none"> <li>1. System Diagnosis</li> <li>2. System Information</li> <li>3. Software Updating</li> </ul> |
| Select ENTER   |

Press the [ENTER] key to enter the following interface.

|   |
|---|
| Diag.   |
| <ul style="list-style-type: none"> <li>1. SIEMENS SYSTEM</li> </ul> |
| Select EXIT ENTER   |

#### 3.2 Read Trouble Code

Press [ENTER] key to enter the following interface.

|              |
|--------------|
| SUZUKI MOTOR |
|--------------|

|                               |
|-------------------------------|
| Communication, please wait... |
|-------------------------------|

If communication failure with ECU will appear the following interface.

|                          |
|--------------------------|
| SUZUKI MOTOR             |
| Communication failure!   |
| Press [ENTER] to confirm |

If communication with motorcycle ECU is successful will enter the following interface.

|                       |
|-----------------------|
| SELECT FUNCTION       |
| 1. Read DTC           |
| 2. Clear DTC          |
| 3. Read Data stream   |
| 4. Test Unit          |
| 5. Read ECU ID        |
| ↑→↓←Select EXIT ENTER |

Choose **【1.Read DTC】** , press **【ENTER】** key it will display following interface.

|                                  |
|----------------------------------|
| SUZUKI MOTOR                     |
| Reading the DTCs, please wait... |
|                                  |

When read trouble code finished it will appear the following interface.

|  |
|--|
| SUZUKI MOTOR   |
| P0105 Intake manifold pressure sensor<br>P0110 Intake air temperature sensor |
| DTC number:2 EXIT  |

### 3.3 Clear Trouble Code

Choose **【2.Clear DTC】** will appear the following interface.

|  |
|--|
| SELECT FUNCTION  |
| 1. Read DTC<br>2. Clear DTC<br>3. Read Data stream<br>4. Test Unit<br>5. Read ECU ID |
| ↑→↓←Select EXIT ENTER  |

Press [ENTER] key appear the following interface.

|                          |
|--------------------------|
| SUZUKI MOTOR             |
| Clearing, please wait... |
|                          |

Later will appear the following interface.

|                           |
|---------------------------|
| SUZUKI MOTOR              |
| Clearing has carried out! |
| Press [ENTER] to confirm  |

### 3.4 Read Data Stream

Choose **【3.Read Data Stream】** enter the following interface.

|                       |
|-----------------------|
| SELECT FUNCTION       |
| 1. Read DTC           |
| 2. Clear DTC          |
| 3. Read Data stream   |
| 4. Test Unit          |
| 5. Read ECU ID        |
| ↑→↓←Select EXIT ENTER |

This function is used to display the current data condition of ECU system. Using this data, you can estimate the vehicle working condition. Press [ENTER]. After the guide information, it appears the following interface.

|             |
|-------------|
| Data stream |
|-------------|

|                          |          |
|--------------------------|----------|
| AMP                      | 96.6kPa  |
| CRASH                    | 4.9973V  |
| CTR_ERR_DYN_VR           | 0        |
| CUR_IGC_DIAG_cyl1        | 0.0000V  |
| DIST_ACT_MIL             | 0        |
| ENG_HOUR                 | 1.50h    |
| IGA_1                    | 5.156699 |
| ←Page Up →Page Down EXIT |          |

Press 【→】 key continue to look over other data stream.

### 3.5 Action Testing

Choose 【4.Test Unit】 will appear the following interface.

| SELECT FUNCTION       |  |
|-----------------------|--|
| 1. Read DTC           |  |
| 2. Clear DTC          |  |
| 3. Read Data stream   |  |
| 4. Test Unit          |  |
| 5. Read ECU ID        |  |
| ↑→↓←Select EXIT ENTER |  |

Press 【ENTER】 key appear the following interface.

| Actuator                      |  |
|-------------------------------|--|
| 1. Fuel Injector              |  |
| 2. Ingition Coil              |  |
| 3. Fuel Pump                  |  |
| 4. MIL                        |  |
| 5. All Tests At The Same Time |  |
| ↑→↓←Select EXIT ENTER         |  |

Choose 【1.Fuel Injector】 will appear the following interface.

|                       |
|-----------------------|
| SELECT FUNCTION       |
| 1. ON<br>2. OFF       |
| ↑→↓←Select EXIT ENTER |

Choose **【1.ON】** will appear the following interface.

|                         |
|-------------------------|
| SUZUKI MOTOR            |
| Testing, please wait... |
|                         |

The carry out finished will display the following interface.

|                          |
|--------------------------|
| SUZUKI MOTOR             |
| Test has carried out!    |
| Press [ENTER] to confirm |

### 3.6 Read ECU ID

Choose [5.Test Unit] will appear the following interface.

|  |
|--|
| SELECT FUNCTION  |
| 1. Read DTC<br>2. Clear DTC<br>3. Read Data stream<br>4. Test Unit<br>5. Read ECU ID |
| ↑→↓←Select   EXIT   ENTER  |

Press **【ENTER】** key appear the following interface.

|  |
|--|
| SUZUKI MOTOR                               |
| Reading the ECU version,<br>please wait... |
|  |

Later display the following information.

|                          |
|--------------------------|
| SUZUKI MOTOR             |
| ECU VER:QG0100           |
| Press [ENTER] to confirm |

**FAQ and solutions:**

1. When testing the motorcycle ECU, it displays "Communication failure!". Pls check up whether the ignition switch turn on and whether the main test cable is connected reliable.
2. After electrifying and turning on the device, it displays white screen or black screen. Pls check up whether the powers supply voltage of the device is normal and adjust the adjustable knob exactly after restarting.
3. When the engine is working, pls make sure that the indoor is ventilation or connect the exhaust gas equipment to the vehicle's exhaust system.
4. Before use the device, pls make sure the motorcycle has been parked in a stable state and don't use the scanner during driving process.
5. When you operate the diagnostic scanner during the engine running, pls keep enough distance from any running parts of the engine or the driving belt. Because the running parts of engine or the driving belt may engulf clothes, the connecting line of the diagnostic scanner or any part of the Conner's body to lead serious hurt.
6. Unless there is other operation direction, you must turn off the ignition switch when connecting or removing the line of electronic circuit components.
7. When the engine is running, pls don't touch the ignition coil, the ignition coil terminals or the spark plug, which can produce very high voltage.
8. Although the diagnostic scanner has a safety design that the battery can prevent from being connected reverse, but we still strongly remind you must make sure the battery polarity before you connecting the scanner.
9. Never put the diagnostic scanner on the battery. Because it is very likely to lead battery short-circuit, and cause personnel hurt, equipment damage and vehicle trouble.
10. Don't touch the exhaust, engine or radiator system when it is running or just finished running. If you have to touch the hot parts, please wear the tested heat-resistant gloves to avoid burn.
11. Don't expose the scanner in the flammable gas or steam.
10. This diagnostic scanner belongs to precise electronic product, don't unweave or repair it by yourself.
12. If there is any change in the actual producing, we won't give a prior notice.

**IV. After-sale**

1. Guarantee period: One year warranty.
2. URL: <http://www.adsscan.com>
3. Phone: +86-755-89368397
4. E-mail: [sales@adsscan.com](mailto:sales@adsscan.com)