

CFMOTO LOGO

**Function of buttons of diagnosis analyzer (FIG 1)**

Selection bar: Highlighting of selection bar.

**Button 1 downwards**

The selection bar moves downwards.

**Button 2 upwards**

The selection bar moves upwards.

**Button 3 rightwards**

- Review the parameters corresponding to the selected function.
- Activate LCD background light (When “background light” setting is selected)

**Button 4 OK**

Selection of acknowledgement

**Button 5 Exit**

- Cancel the executed selection
- Return to the upper-level menu
- Return to the main menu

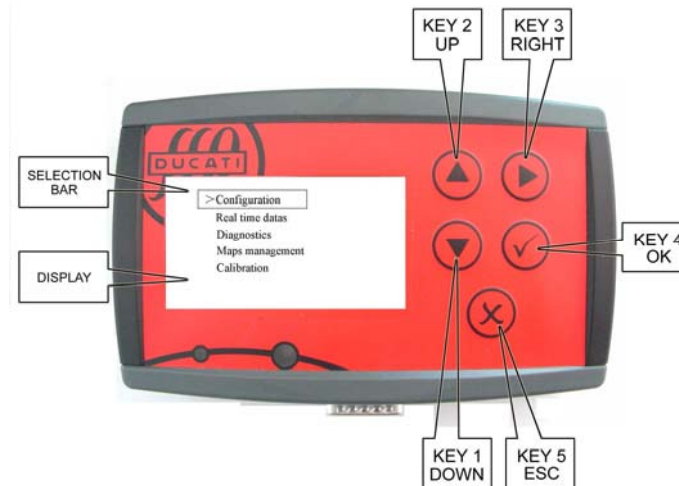


FIG 1

**Main menu (FIG 1)**

### Connecting diagnosis analyzer

Note ! Before connecting diagnosis analyzer, check for correct voltage of battery, connection wires and fuses.

The plug of diagnosis wire 2P is in the right trunk.

Open the right front trunk cover A

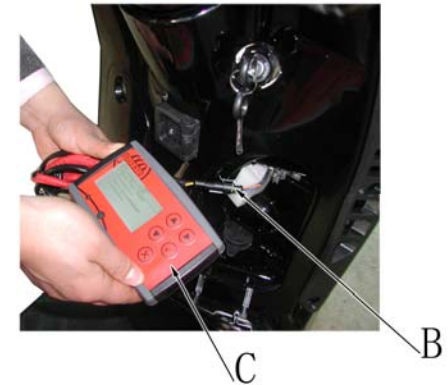
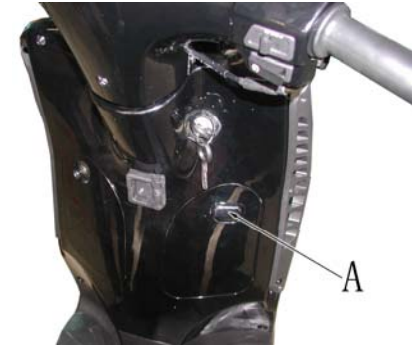
Connect the plug B of diagnosis wire 2P with diagnosis analyzer C

Note !!

After connection of plug of diagnosis analyzer, the screen will prompt “checking connection”:

Rotating the power key to ON:

The diagnosis analyzer will prompt “Connected” and after 5 seconds shows the main menu.



### Calibration of TPS

**Note !** At implementing the TPS calibration program, check the throttle cable and ECU for correct state.

- Set the selection bar (with up or down button) at **calibration** (FIG5).  
Press OK Button for acknowledgment  
Options will be shown at bottom of the calibration menu. (FIG6)
  - **Zeroing of LAMBDA pulse spectrum**
  - **TPS calibration**
- Set the selection bar (with up or down button) at **TPS calibration** (FIG6)  
Press OK Button for acknowledgment (FIG6)
- The screen prompts:
  - **Press OK Button for acknowledgment or ESCB Button for exiting** (FIG7)
- Press OK Button to start calibration program
- Rotate the throttle handle to the maximum location and then fully return (FIG8)
- Press OK Button for acknowledgment
- Information confirmed on the screen: **calibration completed.** (FIG9)
- Press ESC Button to Return to the main menu
- Rotating the power key to **OFF** and remove the diagnosis analyzer.



FIG 5



FIG 6



FIG 7



FIG 8



FIG 9

## Configuration of diagnosis analyzer

Connect diagnosis analyzer and rotate the power key to **ON**.

The diagnosis analyzer will prompt “Connected” and after 5 seconds shows the main menu (FIG10).

Move the selection bar (with up or down button) **to configuration** (FIG10)

Press OK Button for acknowledgment

The screen of diagnosis analyzer will show the options (FIG11)

Move the selection bar (with up or down button) **to background light**,

Press OK Button for acknowledgment (FIG11).

Options will be shown at bottom of the **background light** menu. (FIG12)

**-Constant lighting on**

**-Economical**

Move the selection bar (with up or down button) **to “Constant lighting on”** at

The screen background brightness is set at “Constant lighting on”. (FIG12)

Move the selection bar (with up or down button) **to “Economical”** and press C

The default of screen background brightness is “Constant lighting on”

Press ESC to return to **configuration**

Move the selection bar (with up or down button) **to Language** and press OK.

Options will be shown at bottom of the **Language** menu. (FIG13)

**- English**

**- Italy**

**- French**

**- Germany**

**- Spanish**

Move the selection bar (with up or down button) **to the desired language** and

Press ESC to return to **configuration**

Move the selection bar (with up or down button) **to LCD contrast** and press OK.

With up or down button adjust **LCD to proper contrast**

Press OK Button for acknowledgment or **ESCB Button for exiting** (FIG14).



FIG 10



FIG 11



FIG 12



FIG 13



FIG 14

**Real-time data**

Main menu

Move the selection bar (with up or down button) to **real-time data**

Press OK Button for acknowledgment

Show the list of **real-time data** (FIG 15, FIG 16, FIG 17)

- 1-inject. time Map
- 2-inject. time out
- 3-injection. phase
- 4-ignition. advance
- 5-RPM
- 6-TPS

- Injection time
- Injection correction
- Injection initial-phase
- Ignition advance
- Engine speed
- TPS (Throttle position scope)
- TPS = 0% Full-closed throttle
- TPS = 100% Full-opened throttle
- air temperature
- air temperature injection correction
- engine temperature
- engine temperature injection correction
- air pressure
- air pressure injection correction
- battery voltage
- battery voltage injection correction
- lambda offset
- Lambda injection correction
- crank correction
- General correction of pulse spectrum
- Idle valve opening phase
- Idle valve duty
- ECU temperature
- Error code
- ECU life time

- 7-Air. temperature
- 8-Air. temp. cor
- 9-Engine. Temp
- 10- Eng. Temp.cor
- 11- Air. pressure
- 12- Air. pres. cor.
- 13- Battery. voltage
- 14- Battery. inj. off
- 15- Lambda. offset
- 16-Lambda. cor.
- 17-Crank. cor.
- 18-General. cor.
- 19-Idel. phase
- 20-Idel. duty
- 21-ECU. Temperature
- 22-Error code
- 23-Life. time



FIG 15



FIG 16



FIG 17

## Diagnosis

### Main menu

Move the selection bar (with up or down button) to **diagnosis**

Press OK Button for acknowledgment (FIG18)

Options will be shown at bottom of the diagnosis menu. (FIG19)

Move the selection bar (with up or down button) to **Error check** (FIG19) and press OK Button for acknowledgment

Options will be shown at bottom of the **Error check** menu (FIG20).

### Current error

### Previous errors

### Deleting previous errors

Move the selection bar selection to **Current error** and press **OK button** for acknowledgment

The screen shows the current error code and related information

Press ESCB Button for exiting and return to Error check (FIG20)

Move the selection bar (with up or down button) to Previous errors and press OK Button for acknowledgment

The screen shows the previous errors code and related information

Press ESCB Button for exiting and return to Error check

Move the selection bar (with up or down button) to **Deleting previous errors** and press OK Button for acknowledgment

The screen will prompt “Deleting previous errors?”

Press OK Button for acknowledgment to delete the previous errors from the memory

Press ESCB Button for exiting and return to diagnosis.



FIG 18



FIG 19



FIG 20

## Diagnosis activation

### Main menu

Move the selection bar (with up or down button) to Diagnosis activation and press OK button for acknowledgment (FIG21);

Options will be shown at bottom of the menu (FIG22)

- **Test of fuel pump relay**
- **Test of fan relay**
- **Test of idle valve**
- **Check of ignition coil**
- **Check of injector**

Move the selection bar (with up or down button) to **Test of fuel pump relay** and press OK Button for acknowledgment

Press OK Button again to implement the test of target sample or Press ESC Button to cancel the test

After activation the screen will show definite results and information confirmation

Move the selection bar (with up or down button) to **Test of fan relay** and press OK Button for acknowledgment

Press OK Button again to implement the test of target sample or Press ESC Button to cancel the test

After activation the screen will show definite results and information confirmation

Move the selection bar (with up or down button) to **Test of idle valve** and press OK Button for acknowledgment.

Press OK Button again to implement the test of target sample or Press ESC Button to cancel the test

After activation the screen will show definite results and information confirmation

Move the selection bar (with up or down button) to **Check of ignition coil** and press OK Button for acknowledgment

Press OK Button again to implement the test of target sample or Press ESC Button to cancel the test

After activation the screen will show definite results and information confirmation

Move the selection bar (with up or down button) to **Check of injector** and press OK Button for acknowledgment

Press OK Button again to implement the test of target sample or Press ESC Button to cancel the test

After activation the screen will show definite results and information confirmation

Press ESCB Button for exiting and return to diagnosis.

Move the selection bar (with up or down button) to **engine working time** and press OK Button for acknowledgment.

After pressing OK Button again, the screen will show total working time of ECU and the last maintenance time.

Press ESCB Button for exiting and return to diagnosis.

Press ESCB Button for exiting and return to main menu .



FIG 21



FIG 22