

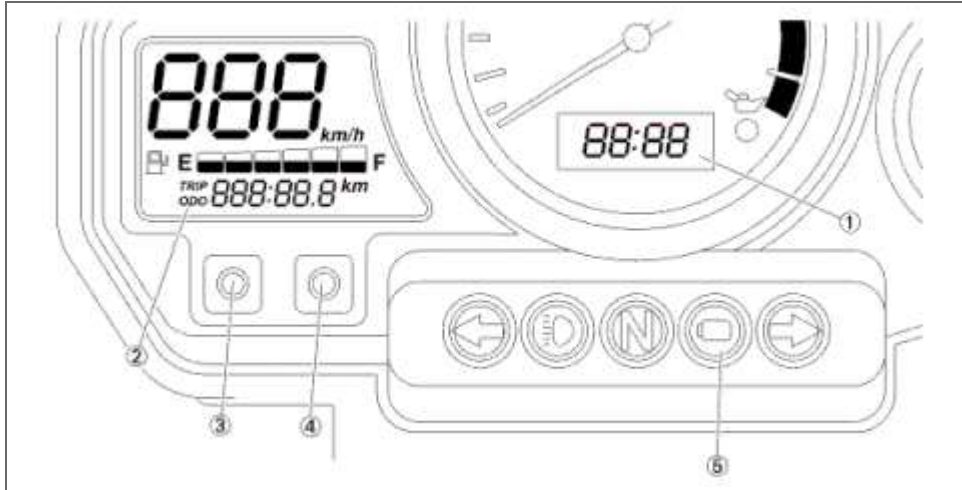
Inside the TDM850-900 by JBX

TDM900 : ECU DIAG Mode

The DIAG mode is accessible from the dashboard without special tools or electronic device. It allows control of the ECU sensors and actuators.

The history of operating errors previously recorded by the ECU is also available (and erasable).

Procedure



- 1 - Clock
- 2 - Odometer
- 3 - **SELECT** button
- 4 - **RESET** button
- 5 - Engine control light

A - Going to the DIAG Mode

- 1 - While keeping the **SELECT** and **RESET** buttons, turn **ON** the main switch.
- 2 - Keep the buttons pressed for 8 seconds.
- 3 - All the segment are **OFF** except the clock and the trip LCD.
- 4 - **DIAG** appears on the clock display.

B - Select the DIAG Mode

- 1 - Simultaneously press the **SELECT** and **RESET** buttons for two seconds or more.
- 2 - **d01** appears on the clock display : The **DIAG** code.
- 3 - Select the required **DIAG** code by pressing on the **SELECT** button (increase) or the **RESET** button (decrease).

Codes 01 to 21 : Sensors control codes

The sensors send data to the ECU in order to calculate the ignition & the injection timings, and also for the safety of the engine and the bike.

Code	Description
01	Throttle Position Sensor. Should display 15 - 17 (closed) up to 97 - 100 (fully open).
02	Atmospheric pressure given in mmHg (% on some ECU). Should display around 760 (or 100%).
03	Differential pressure between the air box and the air intake pipe, when engine is running.
05	External air temperature in Celsius.
06	Coolant temperature in Celsius.
07	Absolute speed. Should display 000 in garage, rotate the rear wheel to check.
08	Lean angle sensor. Should display 0.4 - 1.4 (upside sensor) or 3.8 - 4.2 (above 65°).
09	Battery voltage. Should display 12.0 min, activate the "Engine Stop" switch to check.
20	Side-stand switch. Should display ON or OFF, engage the gearbox before checking.
21	Neutral gearbox switch. Should display ON or OFF.

Codes 30 to 52 : actuators control codes

Actuators are devices under control of the ECU : injectors, ignition coils, solenoids, relays, etc.

Switch the **Engine Stop** switch to **RUN** to start checking, then to **OFF**.

The Engine control light should also light up during activation. The fuel pump must theoretically be disconnected beforehand. This may be ignored because it is not very easy to do and apart from the noise this does not interfere with any Diag control.

Code	Description
30	Ignition coil #1 is activated 5 times per second.
31	Ignition coil #2 is activated 5 times per second.
36	Injection solenoid #1 is activated 5 times per second.
37	Injection solenoid #2 is activated 5 times per second.
48	Air induction system (PAR) solenoid is activated 5 times per second.
49	Air box intake flap solenoid is activated 5 times per second.
50	Injection system relay is activated 5 times per second.
51	Fan is activated every 5 seconds (2 seconds ON, 3 seconds OFF).
52	Headlights relay is activated every 5 seconds (2 seconds ON, 3 seconds OFF) - 2003+ models only.

Codes 60 to 70 : ECU internal memory control & error codes control

Checks the internal memory of the ECU, displays (and cancels) all previously recorded error codes.
Refer to the **Error Codes** page for their description.

Code	Description
60	EEPROM : CO value memory error. 00 : no error found. 01 and/or 02 : error on cylinder #1 and/or cylinder #2.
61	Error Codes in memory. 00 : no error code. Error codes are displayed in sequence (loop).
62	Displays the number of Error Codes in memory (displayed using mode 61). 00 : no error code. Reset the memory by activating the Engine Stop switch.
70	Control Code : 0 to 255. No further documentation available.

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For informative purpose only. Always refer to the manufacturer's documentation.