



AiM Infotech

Ducati Multistrada 1200

Release 1.02



ECU



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1

Bike years

This tutorial describes how to connect Ducati bikes to AiM devices. Supported years and models are :

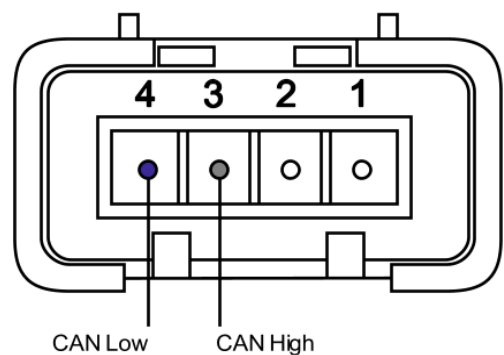
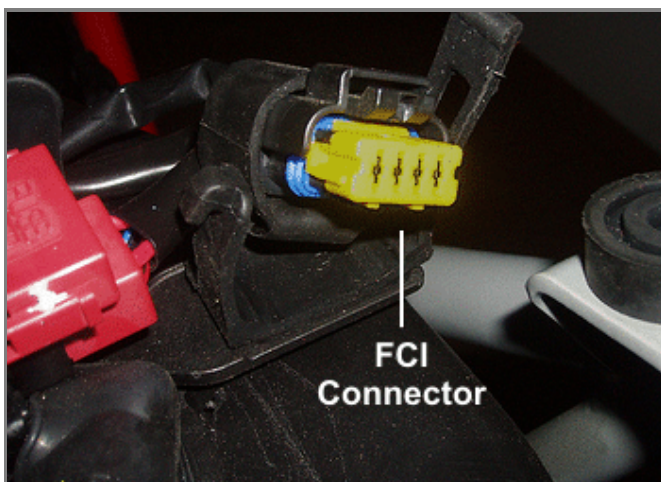
- Multistrada 1200 2010-2011

Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequences that may result from the replacement of the original instrumentation cluster.

2

CAN bus connection

Ducati Multistrada 1200 features a bus communication protocol based on CAN on the FCI connector placed under the bike seat and shown here below on the left; on the right is connector pinout.



3

Configuration with Race Studio 2

Before connecting the ECU to AiM device set this up using Race Studio 2 software. The parameters to select in the device configuration are:

- ECU manufacturer: "Ducati"
- ECU Model: "Multistrada_1200"

4

Available channels

Channels received by AIM devices connected to "Ducati" "Hypermotard" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|--------|---------------|---------------------------------|
| ECU_1 | MU_RPM | RPM |
| ECU_2 | MU_SPEED | Vehicle speed |
| ECU_3 | MU_TPS_HAND | Manual Throttle position sensor |
| ECU_4 | MU_TPS1 | Throttle position sensor 1 |
| ECU_5 | MU_TPS2 | Throttle position sensor 2 |
| ECU_6 | MU_WATER_T | Engine cooling temperature |
| ECU_7 | MU_INTK_AIR_T | Intake air temperature |
| ECU_8 | MU_AMBIENT_T | Ambient temperature |
| ECU_9 | MU_BATTERY | Battery supply |
| ECU_10 | MU_BRAKE_SW | Brake switch |
| ECU_11 | MU_CLUTCH_SW | Clutch switch |
| ECU_12 | MU_GEAR | Engaged gear |
| ECU_13 | MU_NEUTRAL_SW | Neutral switch |
| ECU_14 | MU_OILP_SW | Oil pressure switch |
| ECU_15 | MU_TURN_RIGHT | Right turn indicator |
| ECU_16 | MU_TURN_LEFT | Left turn indicator |

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.