

AiM User Guide

Solo 2/Solo 2 DL, EVO4S and
ECULog kit for Ducati
Panigale V2 and V4 "Euro5"

Release 1.01



PANIGALE



1

Models and years

This manual explains how to connect Solo 2 DL, EVO4S and ECULog to the bike engine control unit (ECU).

Compatible models and years are:

- Ducati – Panigale V2 from 2020
- Ducati – Panigale V4 (Euro5 models only) from 2021

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 consequence that may result from the replacement of the original instrumentation cluster.

2

Kit content and part numbers

AiM developed a specific installation bracket for Solo 2/Solo 2 DL and specific connection cables to the ECU for Solo 2 DL, EVO4S and ECULog.

2.1

Bracket for Solo 2/Solo 2 DL

Part number of Solo 2/Solo 2 DL installation bracket for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is: **X46KSTSDP**.

Installation kit contains:

- 1 bracket (1)
- 2 Allen screws with flat head M4x10mm (2)
- 1 washer (3)
- 1 rawl nut (4)
- 1 Allen screw with rounded head M8x45mm (5)



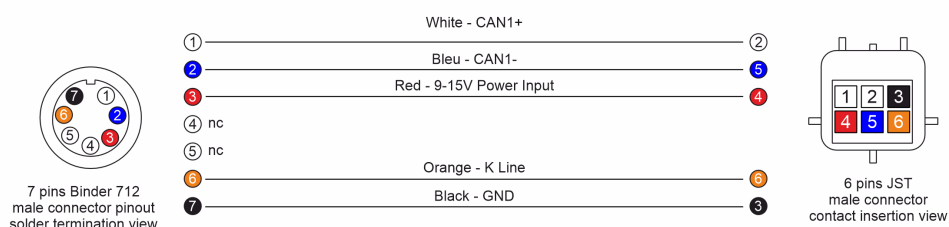
2.2

AiM cable for SOLO 2 DL

Part number of Solo 2 DL connection cable for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is: **V02589130**.



Following image shows the cable constructive scheme.



2.3

AiM kit for Solo 2 DL (CAN cable + bracket)

Connection cable for Solo 2 DL and installation bracket can also be bought together with part number: **V02589130CS**.

2.4

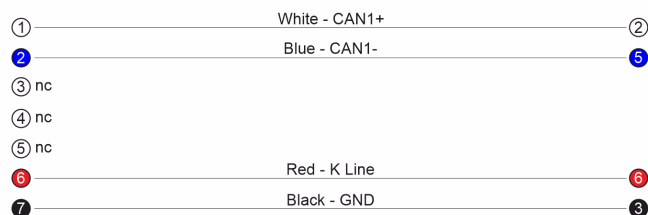
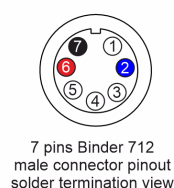
AiM cable for EVO4S and ECULog

Part number of EVO4S and ECULog connection cable for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is:

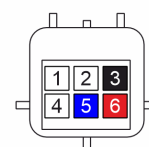
V02585200.



The image below shows the cable constructive scheme.



6 pins JST male connector
contact insertion view



3

Solo 2 DL, EVO4S and ECULog connection

To connect Solo 2 DL, EVO4S and ECULog to the bike ECU use the standard OBDII Euro 5 red connector placed under the bike seat and shown here below.

Open the bike seat and remove the cap from the red connector (shown on the right), then plug the specific AiM cable.



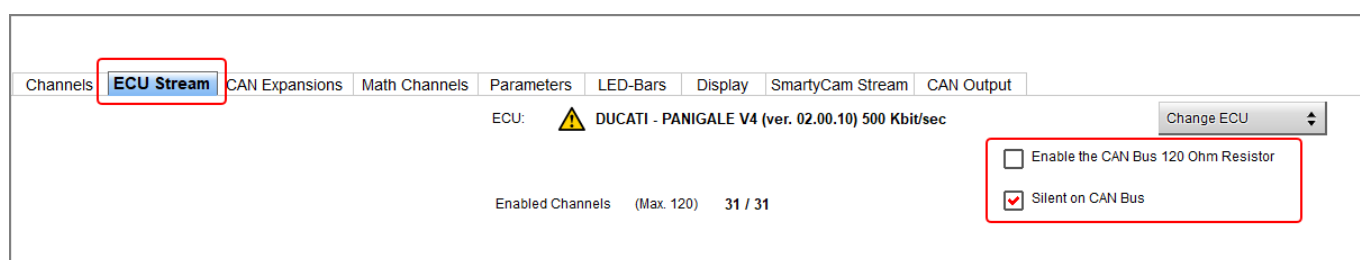
4

Configuration with RaceStudio 3

Before connecting AiM devices to the bike ECU, set all functions using RaceStudio 3 software. The parameters to set in the device configuration ("ECU Stream" tab) are:

- ECU Manufacturer: **DUCATI**
- ECU Model: **PANIGALE V4** (RaceStudio3 only)

After this first selection, enable "Silent on CAN Bus" checkbox as follows:



5

"Ducati – PANIGALE V4" protocol

Channels received by AiM devices configured with "Ducati – PANIGALE V4" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Gear	Engaged gear
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal acceleration
Lat Acc	Lateral acceleration
Roll Rate	Roll rate
Pitch Rate	Pitch rate
Yaw Rate	Yaw rate
Engine Temp	Engine coolant temperature
Intake Temp	Intake air temperature
TPS Vert	Vertical throttle position sensor
TPS Hor	Horizontal throttle position sensor
Bike Angle	Bike lean angle
Brake Front	Front brake position
Twist grip	Hand throttle position
Battery Volt	Battery voltage
ShiftSw	Shift switch
Trq Slow	Torque slow
Trq Fast	Torque fast
EBC ON	Engine brake control on
EBC Lv	Engine brake control level
DWC OFF	Ducati wheelie control off
DWC Lv	Ducati wheelie control level



DTC OFF	Ducati traction control off
DTC Lv	Ducati traction control level
DSC OFF	Ducati slip control off
DSC Lv	Ducati slip control level
EngineStatus	Engine status
Eng St	Engine status
Brake Switch	Brake switch

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.