

AiM User Guide

Solo 2/Solo 2 DL, EVO4S kit
for Ducati Panigale V4 and
Multistrada 950

Release 1.02



PANIGALE





1

Models and years

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

Compatible models are:

- Panigale V4 2018-2020
- Multistrada 950 2019-2021

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

2

Kit contents 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 and EVO4S.

2.1

Bracket for Solo 2/Solo 2 DL

Part number of **Solo 2/Solo 2 DL** installation bracket for **Ducati Panigale V4 only**– shown below – is: **X46KSTSDP**.

The kit contains:

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

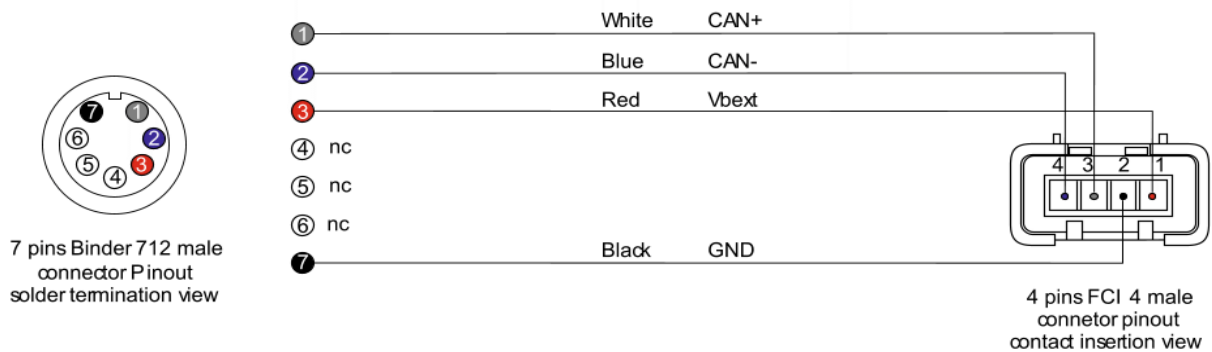


2.2 AiM cable for Solo 2 DL

Part number of **Solo 2 DL** connection cable – shown below – is:
V02569170.



The following image shows the cable constructive scheme.



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

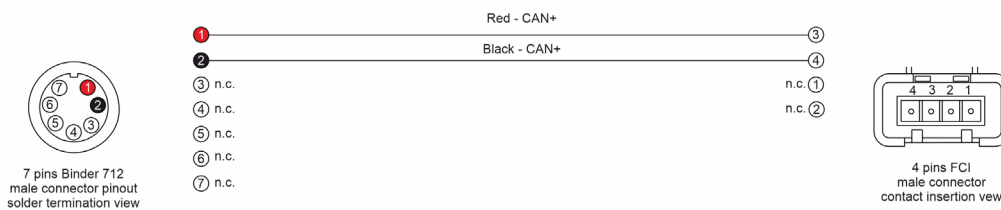
Connection cable for Solo 2 DL and installation bracket for Ducati Panigale can also be bought together with part number: **V0256917CSP.**

2.4 AiM cable for EVO4S

Part number of **EVO4S** connection cable – shown below – is:
V02585180.



The following image shows the cable constructive scheme.



3

Solo 2 DL and EVO4S connection

To connect Solo 2 DL and EVO4S to Ducati Panigale bikes ECU use the DDA connector placed under the bike tail.

Open the bike tail and remove the cap – highlighted here on the right – from the DDA connector.



The connector is then available.



Plug AiM cable.



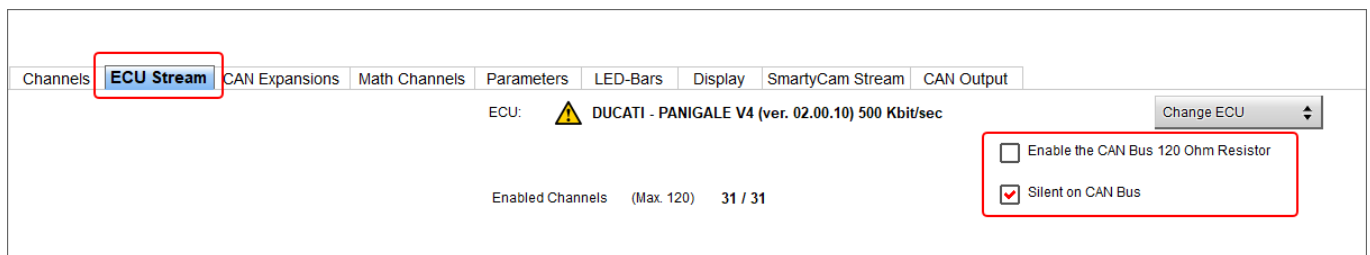
4

Configuration with RaceStudio 3

Before connecting the ECU to AiM device set all functions using AiM 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 check "Silent mode on CAN Bus" as follows:



5

“Ducati – Panigale V4” protocol

Channels received by AiM devices connected to Ducati “Panigale V4” protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Gear	Engaged gear
ShiftSw	Shift switch
Brake Front	Front hand brake position
Brake Switch	Brake switch
Twist grip	Hand throttle position
Engine temp	Engine coolant temperature
Intake Temp	Intake air temperature
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal accelerometer
Lat Acc	Lateral accelerometer
Roll Rate	Roll rate
Pitch Rate	Pitch rate
Yaw Rate	Yaw rate
Bike Angle	Bike lean angle
Battery Volt	Battery voltage
EBC ON	Engine brake control on
EBC Lv	Engine brake 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
Engine Status	Engine Status

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.