

# AiM Solo 2 DL ECU Car Track Day Lap Timer User Guide

Home » AIM » AiM Solo 2 DL ECU Car Track Day Lap Timer User Guide 🖔

#### **Contents**

- 1 AiM Solo 2 DL ECU Car Track Day Lap
- Time
- 2 Specifications
- **3 Product Usage Instructions**
- 4 Solo 2 DL, EVO4S and ECULog connection
- 5 Configuration with RaceStudio 3
- 6 MV\_Agusta F3" protocol
- 7 FAQ
- 8 Documents / Resources
  - 8.1 References



AiM Solo 2 DL ECU Car Track Day Lap Timer



# **Specifications**

• Compatible Models: MV Agusta F3 from 2012, F4 2013-2018

• Compatible Devices: Solo 2 DL, EVO4S, ECULog

• Part Number: V02569310

• Connection: CAN Bus through a 4-pin white connector under the bike seat

### **Product Usage Instructions**

# • Models and Years:

This manual is for connecting Solo 2 DL, EVO4S, and ECULog to the bike's engine control unit (ECU). It is compatible with MV Agusta F3 from 2012 and F4 from 2013 to 2018.

• Warning: AiM recommends not removing the stock dash for these models/years to avoid disabling bike functions or safety controls. AiM Tech srl will not be held responsible for any consequences resulting from replacing the original instrumentation cluster.

#### • Part Number:

AiM has developed a specific connection cable (part number: V02569310) for connecting Solo 2 DL, EVO4S, and ECULog to the bike's ECU. Refer to the provided image for the cable's construction scheme.

#### Connection Details:

To connect Solo 2 DL, EVO4S, and ECULog to MV Agusta, locate the 4-pin white connector under the bike seat with the following wire colors: blue/white, blue/black, yellow/green, blue.

# • Configuration with RaceStudio 3:

Prior to connecting the AiM device to the bike's ECU, configure all functions using the AiM RaceStudio 3 software. Set parameters in the ECU Stream tab as outlined below:

CHANNEL NAME	FUNCTION
ECU TRACTION	Traction control
ECU GEAR	Active gear

**Technical Note:** Not all data channels in the ECU template are validated for every manufacturer model or variant;

some channels may be model and year-specific.

# Models and years

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

# Compatible models are:

- MV Agusta F3 675 from 2012
- MV Agusta F3 800 from 2012
- MV Agusta F4 1000 2013-2018

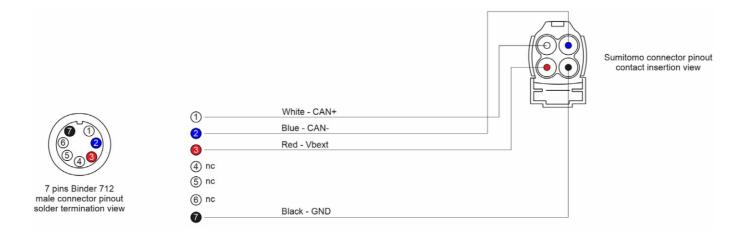
**Warning**: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequence that may result from the replacement of the original instrumentation cluster.

#### Part number

AiM developed a specific connection cable to the bike ECU for Solo 2 DL, EVO4S and ECULog with part number: V02569310.



Following image shows the cable constructive scheme



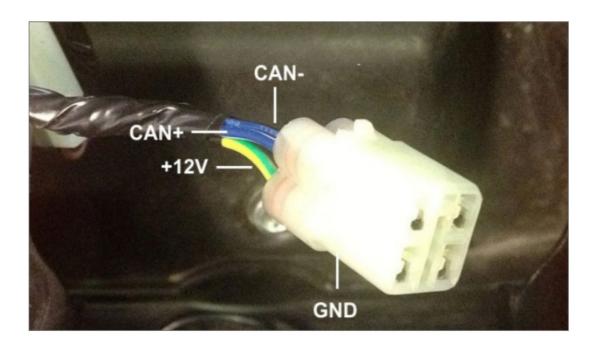
# Solo 2 DL, EVO4S and ECULog connection

MV Agusta communicates through the CAN Bus that can be reached on the 4 pins white connector placed on the left under the bike seat ad shown here on the right.



The image on the right shows the bike connector wire colours in detail.

- CAN+ blue/white
- · CAN- blue/black
- +12V yellow/green
- GND blue



# **Configuration with RaceStudio 3**

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

• ECU Manufacturer: "MV\_Agusta"

• ECU Model: "F3" (RaceStudio 3 only)

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



# MV\_Agusta - F3" protocol

Channels received by AiM devices configured with the "MV\_Agusta - F3" protocol are:

Channel Name	Function
ECU TRACTION	Traction control
ECU GEAR	Active gear
ECU SPEED	Vehicle speed
ECU RPM	RPM
ECU MAPS SW	Engine maps switch
ECU ENG TEMP	Water temperature
ECU VBATT	Battery voltage
ECU INT AIR TEM	Intake air temperature
ECU MAN AIR PRES	Manifold air pressure
ECU ENG TPS	Throttle position sensor
ECU CLUTCH	Clutch switch
ECU HAND TPS	Handgrip throttle position

**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.

# **FAQ**

# Q: Can I use this cable with other motorcycle models?

A: This cable is specifically designed for use with MV Agusta F3 (2012) and F4 (2013-2018) models. It may not be compatible with other motorcycle models.

# Q: Is it necessary to set up all the listed functions inRaceStudio 3?

A: It is recommended to set up all listed functions in RaceStudio 3 to ensure proper communication between the AiM device and the bike's ECU.

# **Documents / Resources**



AiM Solo 2 DL ECU Car Track Day Lap Timer [pdf] User Guide

Solo 2 DL, EVO4S, ECULog, Solo 2 DL ECU Car Track Day Lap Timer, Solo 2 DL, ECU Car Track Day Lap Timer, Track Day Lap Timer, Day Lap Timer, Lap Timer

# References

• User Manual

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