AiM Solo2 DL GPS Lap Timer User Guide

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AiM Solo2 DL GPS Lap Timer

Product Specifications

- **Product:** AiM Solo 2 DL, EVO4S, and ECULog cables for Yamaha YZF-R3 from 2018
- **Release:** 1.00

Product Information

Supported Models and Years:
This user guide explains how to connect AiM Solo 2 DL, EVO4S, and ECULog to Yamaha bikes from the year 2018.
Warning: AiM recommends not to remove the stock dash for models/years mentioned as it may disable some bike functions or safety controls. AiM Tech srl will not be responsible for any consequences resulting from the replacement of the original instrumentation cluster.

Connection Cables

AiM CAN Cables for Solo 2 DL:

- AiM has developed specific connection cables for Solo 2 DL tailored to different bike years.
- Part number of AiM CAN cable for EVO4S only for Yamaha YZF-R3 2018-2021 is: V02585150

AiM CAN Cables for EVO4S and ECULog:
Part number of AiM CAN cable for EVO4S and ECULog for Yamaha YZF-R3 from 2022 is: V02585200

Product Usage Instructions

Solo 2 DL, EVO4S, and ECULog Connection:
Follow the provided instructions to connect Solo 2 DL, EVO4S, and ECULog cables to your Yamaha YZF-R3 bike according to the respective model year.

RaceStudio 3 Configuration:

CHANNEL NAME	FUNCTION
OBDII RPM	RPM
OBDII SPD	Speed
OBDII TPS	Throttle position sensor
OBDII PPS	Pedal position sensor
OBDII ECT	Water Temperature
OBDII IAT	Intake air temperature
OBDII FuelLev	Fuel Level
OBDII MAP	Manifold air pressure
OBDII MAF	Air Mass Flow

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

Supported models and years

This user guide explains how to connect AiM Solo 2 DL, EVO4S, and ECULog to Yamaha bikes.
Supported models and years are:

- Yamaha YZF-R3
  Warning: for this 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.

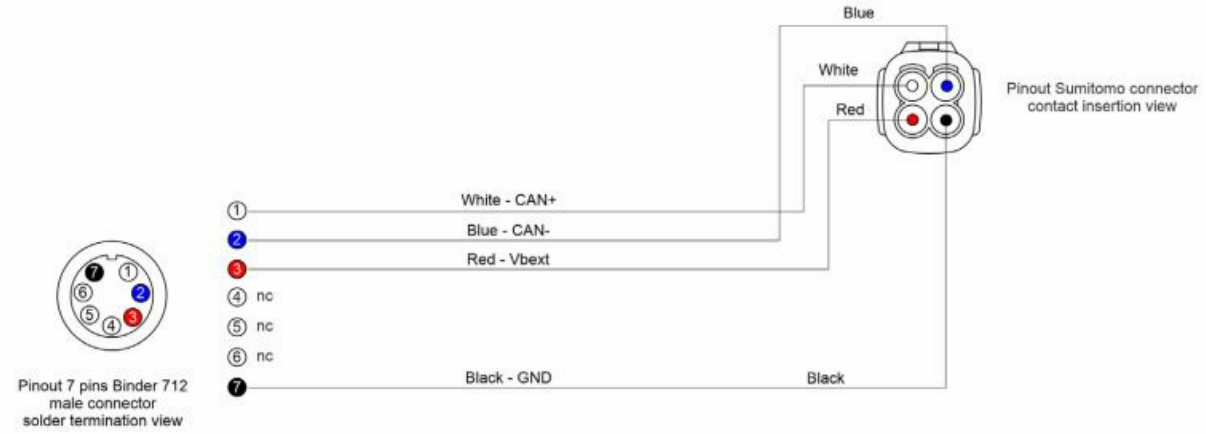
Connection cables

AiM developed specific connection cables for Solo 2 DL, EVO4S, and ECULog according to the bike year.

AiM CAN cable for Solo 2 DL.

- The part number of the AiM CAN cable for Yamaha YZF-R3 2018-2021 – shown below – is V02569340.

- The image below shows the cable constructive scheme.



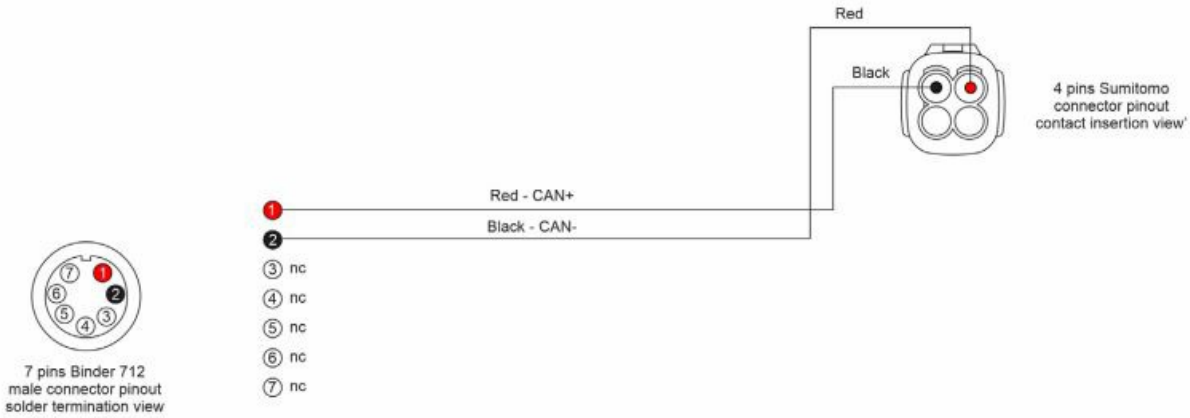
- The part number of the AiM CAN cable for Yamaha YZF-R3 from 2022 – shown below – is V02589130.

- The image below shows the cable constructive scheme.

AiM CAN cable for EVO4S and ECULog.

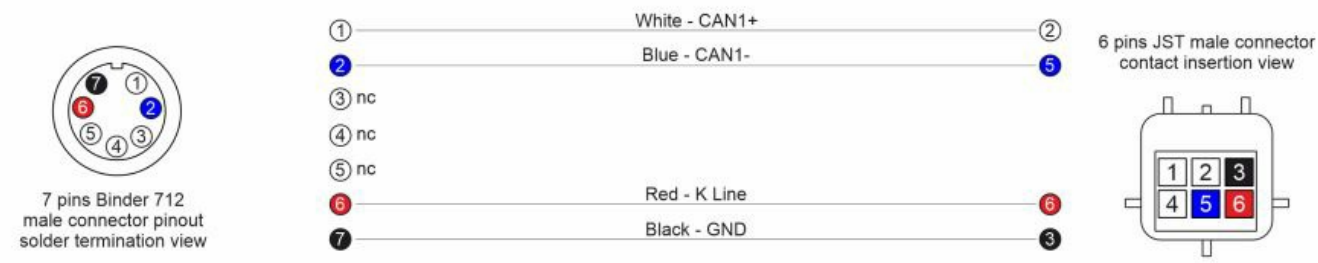
- Part number of AiM CAN cable for EVO4S only for Yamaha YZF-R3 2018-2021 is: V02585150

- The image below shows the cable construction scheme.



- The partt number ofthe AiM CAN cable for EVO4S and ECULog for Yamaha YZF-R3 from 2022 is: V02585200.

- The image below shows the cable construction scheme.



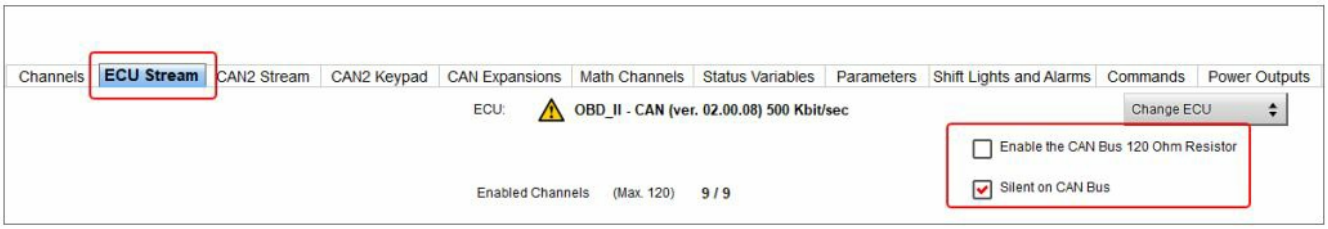
Solo 2 DL, EVO4S, and ECULog connection

Yamaha bikes communicate using the CAN bus. It can be reached:

- on the 4 pins ABS diagnostic Sumitomo connector placed under the bike tail for Yamaha YZF-R3 2018-2021
- on the 6 pins OBDII EU5 connector placed under the bike seat for Yamaha YZF-R3 from 2022.

RaceStudio 3 configuration

- Before connecting AiM devices to the bike ECU set all functions using AiM RaceStudio 3 software. The parameters to select in the device configuration are:
  - **ECU Manufacturer:** “OBDII”
  - **ECU Model:** “CAN” (RaceStudio 3 only)
- After this first selection check the “Silent mode on CAN Bus” checkbox in the device configuration (“ECU Stream” tab) as shown here below.



“OBDII – CAN” protocol

Channels received by AiM devices configured with the “OBDII – CAN” protocol are:

- **OBDII RPM** RPM
- **OBDII SPD** Speed
- **OBDII TPS** Throttle position sensor
- **OBDII PPS** Pedal position sensor
- **OBDII ECT** Water Temperature
- **OBDII IAT** Intake air temperature
- **OBDII FuelLev** Fuel Level
- **OBDII MAP** Manifold air pressure
- **OBDII MAF** Air Mass Flow
  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

- **Can I use these cables on other motorcycle models?**
  The AiM Solo 2 DL, EVO4S, and ECULog cables are specifically designed for Yamaha YZF-R3 models. It is recommended to use them only on compatible models.
- **What should I do if I encounter issues during the connection process?**
  If you face any difficulties while connecting the cables or configuring the settings, refer to the user manual for troubleshooting steps or contact AiM Tech srl for assistance.

Documents / Resources

	AiM Solo2 DL GPS Lap Timer [pdf] User Guide Solo2 DL, EVO4S, ECULog, Solo2 DL GPS Lap Timer, Solo2 DL, GPS Lap Timer, Lap Timer

References

- User Manual

Manuals+, Privacy Policy

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