

AiM user guide

Solo2 DL, EVO4S, XLog
and ECULog cables for
Yamaha MT-07, FZ-07,
MT-09, FZ-09 from 2021
and YZF-R7 from 2022

Release 1.01



KIT





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Supported models and years

This user guide explains how to connect AiM Solo 2 DL, EVO4S, XLog and ECULog to the ECU of Yamaha bikes.

Supported models and years are:

- Yamaha MT-07 from 2021
- Yamaha FZ-07 from 2021
- Yamaha MT-09 from 2021
- Yamaha FZ-09 from 2021
- Yamaha YFZ-R7 (Euro 5) from 2022

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.

2 Connection cables

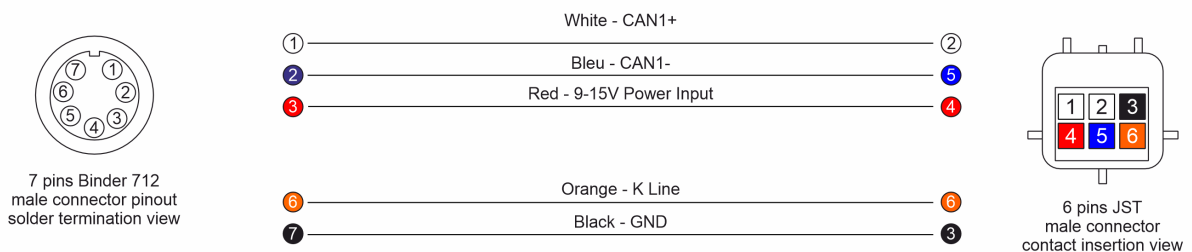
AiM developed specific connection cables for Solo 2 DL, EVO4S, XLog and ECULog.

2.1 AiM CAN cable for Solo 2 DL and XLog

Part number of AiM CAN cable for Solo 2 DL and XLog – shown below – is **V02589130**.



The image below shows the cable constructive scheme.

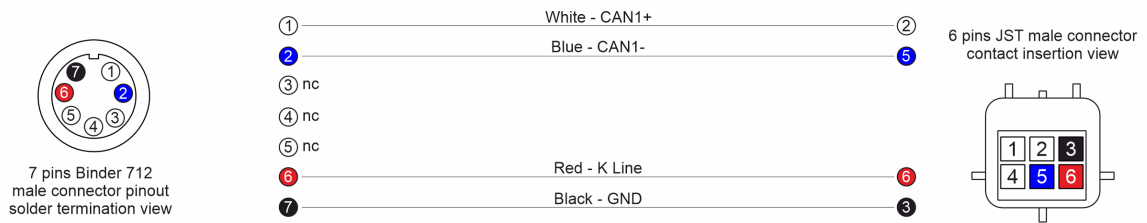


2.2 AiM CAN cables for EVO4S and ECULog

Part number of AiM CAN cable for these Yamaha bikes for EVO4S and ECULog is: **V02585200**



The image below shows the cable construction scheme.

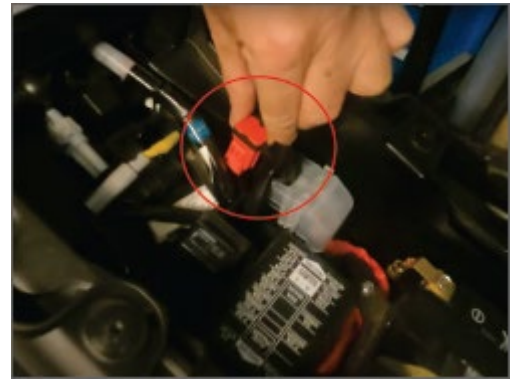


3

Solo 2 DL, EVO4S, XLog and ECULog connection

Yamaha bikes communicates using the CAN bus.

It can be reached on the standard OBDII Euro 5 red connector placed under the bike seat.

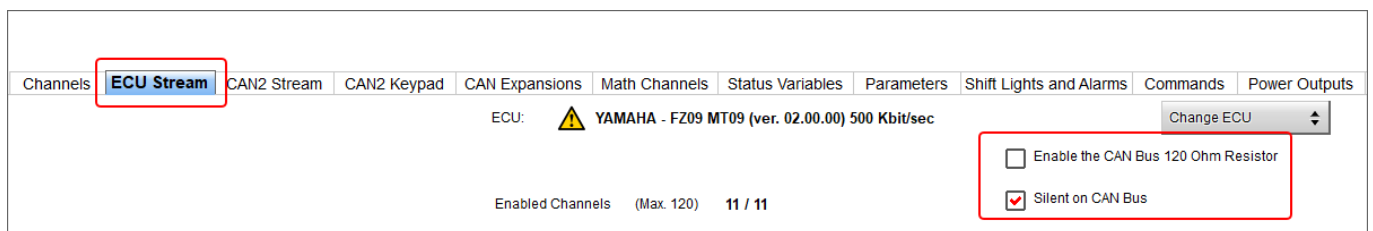


4 RaceStudio 3 configuration

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: **"YAMAHA"**
- ECU Model: **"FZ09 MT09"** (RaceStudio 3 only)

After this first selection check "Silent mode on CAN Bus" checkbox in the device configuration ("ECU Stream" tab) as shown here below.



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“YAMAHA – FZ09 MT09” protocol

Channels received by AiM devices configured with "YAMAHA – FZ09 MT09" protocol are:

| CHANNEL NAME | FUNCTION |
|--------------|--------------------------------------|
| RPM | RPM |
| Speed | Vehicle speed |
| Speed 2 | Vehicle speed 2 |
| Water Temp | Water temperature |
| Air Temp | Air temperature |
| PPS | Handle throttle position |
| TPS | Throttle position sensor |
| Gear | Engaged gear |
| Mode | Mode |
| FlagError | Flag Error |
| | 3= MIL malfunctioning indicator lamp |
| Error | Error |

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.