

AiM InfoTech

YAMAHA  
MT-07 / FZ-07  
YZF-R7

Release 1.00

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ECU

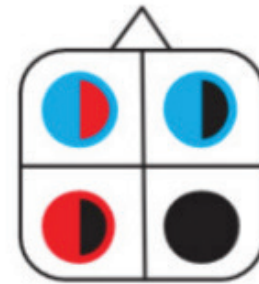
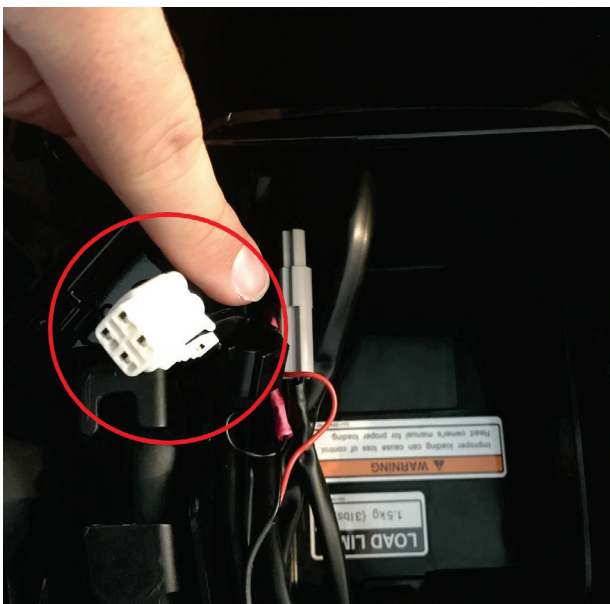




## 2

# Wiring connection (2014 – 2020)

Yamaha MT-07 ECU features a bus communication protocol based on CAN that can be reached through the diagnostic connector (4 pins Sumitomo connector), placed under the bike tail. Below each diagnostic connector lead color and function is expressed.



Diagnostic connector	Function	AiM Cable	AiM color Cable
Blu/Red	CAN High	CAN +	White
Blu/Black	CAN Low	CAN -	Blu
Red/Black	+VB (unswitched)	V Batt	Red
Black	Ground	GND	Black

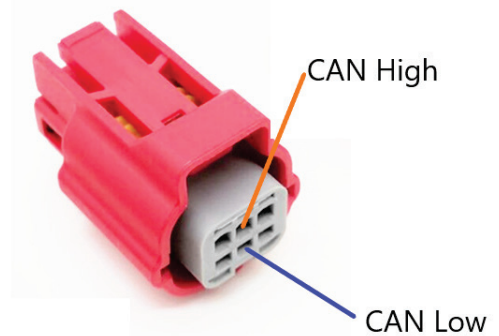
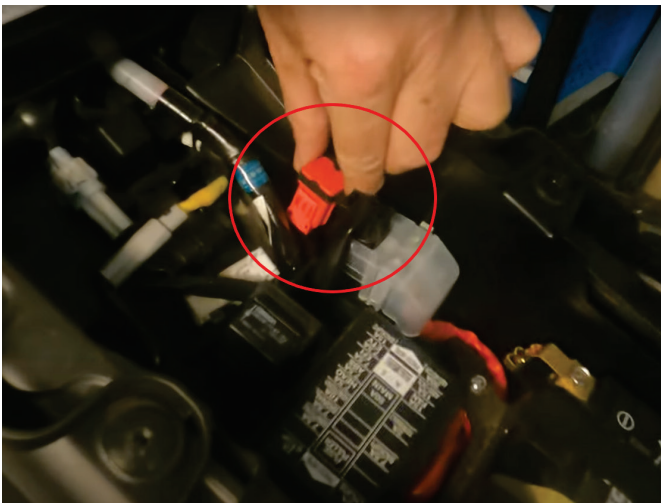
**AiM supplies a dedicated cable with part number:**

<b>SOLO 2 DL</b>	<b>Cable length 1600mm</b>	<b>V02569340</b>
<b>EVO4S</b>	<b>Cable length 500mm</b>	<b>V02585150</b>

## 2.1

# Wiring connection (2021 onwards – EURO5)

Yamaha MT-07 Euro5 models are equipped with a bus communication protocol based on CAN that can be accessed through the standard OBDII Euro5 red connector placed under the bike seat.



**Diagnostic connector**

Diagnostic connector	Function
2	CAN High
3	Ground
4	Voltage Battery
5	CAN Low

**AiM Cable**

CAN+
GND
V Battery
CAN-

**AiM color Cable**

White
Black
Red
Blue

**AiM supplies a dedicated cable with part number:**

**Solo 2 DL  
EVO4S**

**Cable length 1600 mm  
Cable length 400 mm**

**V02589130  
V02585200**

## 3

# Race Studio configuration

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Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **YAMAHA**
- ECU Model: **FZ07** (RS3 Only)

## 3.1

# OBDII - Race Studio configuration

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Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **OBD\_II**
- ECU model: **CAN** (Only EURO5 models)

## 4 Protocols

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Channels received by AiM devices change according to the selected protocol.

### 4.1 "YAMAHA – FZ07" protocol

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Channels received by AiM devices configured with "YAMAHA – FZ07" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
RPM	Engine RPM
Gear	Engaged gear
VehicleSpeed	Vehicle speed
CoolantTemp	Engine coolant temperature
IntakeAirTemp	Intake air temperature
ThrottlePosistion	Throttle position sensor
Error	Error
MIL	Malfunction indicator lamp

**Technical note:** not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.

## 4.2 "OBDII - CAN" protocol

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Channels received by AiM devices configured with "OBDII - CAN" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
OBDII RPM	Engine RPM
OBDII SPEED	Vehicle speed
OBDII ECT	Engine coolant temperature
OBDII TPS	Throttle position sensor
OBDII IAT	Intake air temperature
OBDII MAP	Manifold air pressure
OBDII MAF	Manifold air flow
OBDII FUEL LEVEL	Fuel level
OBDII PPS	Pedal position sensor

**Technical note:** not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.