AiM Infotech

Yamaha R3 MY2018

Release 1.00

ECU

AiM

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Models and years

This user manual explains how to connect Yamaha YZF R3 MY2018 to AiM devices. Supported models and years are:

- Yamaha   YZF R3   from 2018

Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike's 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.
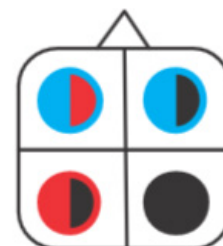
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CAN bus connection

Yamaha YZF R3 MY2018 ECU features a bus communication protocol based on CAN that can be reached through the ABS diagnostic connector (4pins Sumitomo connector), placed under the bike tail.

Below each ABS connector lead colour and function is expressed.

Cable colour	Cable function
Blue/Red	CAN High
Blue/Black	CAN Low
Red/Black	+Vb (unswitched)
Black	GND

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AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "OBDII"
- ECU Model "CAN"

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Yamaha R3 MY2018 with OBDII parameters

Channels received by AiM devices connected to Yamaha R3 MY2018 with "OBDII – CAN" protocol are:

CHANNEL NAME	FUNCTION
OBDII_RPM	RPM
OBDII_SPEED	Bike speed (with ABS module in place)
OBDII_ECT	Water coolant temperature
OBDII_TPS	Throttle Position Sensor
OBDII_IAT	Intake Air Temperature
OBDII_MAP	Manifold Air Pressure

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.