AiM Infotech

Triumph CAN 2013+
675 models 2013-2016
765 models from 2017

Release 1.00

1 Supported models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream. Supported models and years are:

• Triumph Daytona 675	2013 – 2017
• Triumph Daytona 765	from 2018
• Triumph Street Triple 675	2013 – 2016
• Triumph Street Triple 765	from 2017

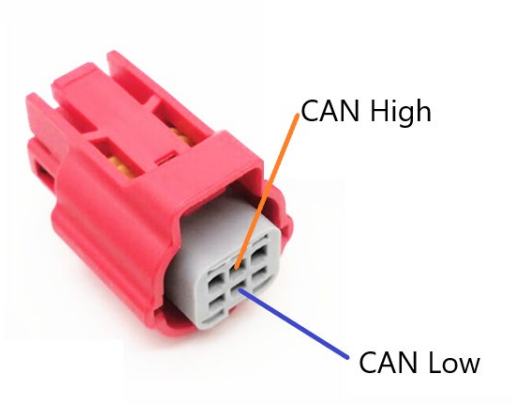
Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech Srl will not be held responsible for any consequences that may result from the replacement of the original instrumentation cluster.

2
Wiring Connection

Triumph 675/765 bikes feature a data communication bus based on CAN, accessible through the OBD diagnostic connector located under the bike seat. Recent Euro5 models adopt a 6 ways OBDII EU5 red connector while earlier models adopt a classic 16 pins OBDII plug.

2.1
Euro5 models (approx. from 2024)

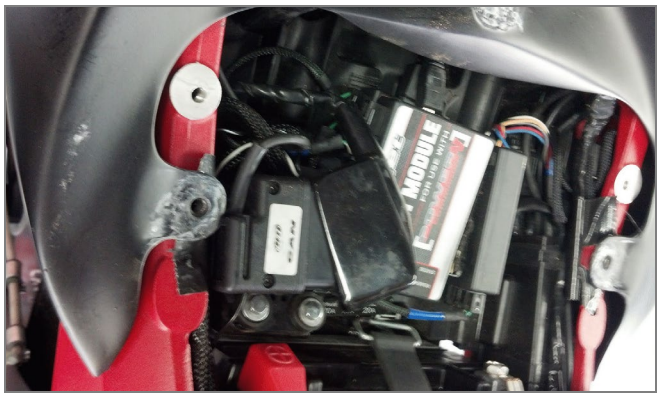
These use a standard 6 pins Euro5 OBDII red connector pictured and documented here below with its connection table.



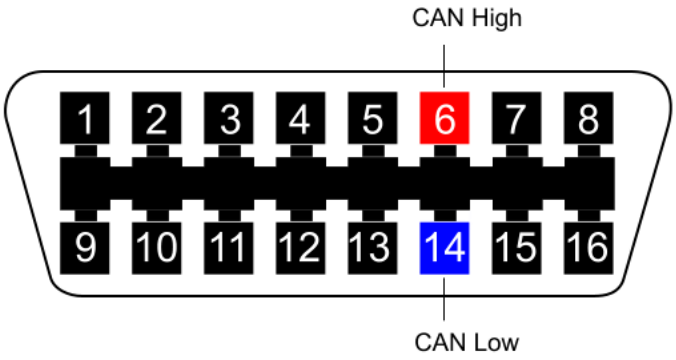
EU5 OBDII connector pin	Pin function	AiM cable
2	CAN High	CAN+
5	CAN Low	CAN-

2.2
Earlier models (up to 2023 approximately)

These use a standard 16 pins OBDII connector pictured and documented here below.



The image below shows OBDII connector pinout and connection table.



OBDII connector pin	Pin function	AiM cable
6	CAN High	CAN+
14	CAN Low	CAN-

3
Race Studio configuration

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

- ECU Manufacturer: TRIUMPH
- ECU Model: CAN_2013+ (RaceStudio3 only)

Please note: AiM legacy products, controlled by RaceStudio2, can only run Triumph – Daytona_675 driver. This will provide a subset of the available channels.

4
“TRIUMPH – CAN_2013+” protocol

Channels received by AiM devices configured with "TRIUMPH – CAN_2013+" protocol are:

CHANNEL NAME	FUNCTION
ECU SPEED FRONT	Front wheel speed
ECU SPEED REAR	Rear wheel speed
ECU_RPM	RPM
ECU_VEH_SPD	Vehicle speed
ECU_RPM2	RPM2
ECU GRIP POS	Accelerator handgrip position
ECU_NEUTRAL	Neutral switch signal
ECU_MIL	Malfunctioning indication lamp
ECU_GEAR	Engaged gear
ECU TC ENGAGED	Traction Control Engaged status
ECU TC ACTIVE	Traction Control Active status
ECU TC MODE	Traction Control mode
ECU THROTTLE MODE	Throttle mode
ECU_THROTTLE	Throttle position
ECU_ENG_TMP	Engine temperature
ECU_IAT	Intake air temperature
ECU_IGN_ADV	Ignition advance

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.