

AiM InfoTech

CATERHAM – 420R
From 2018

Release 1.00



1 Models and years

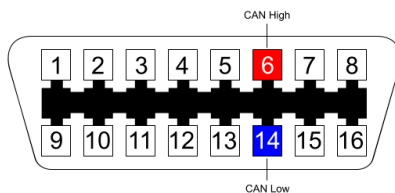
This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

Supported models and years are:

- 420R from 2018

2 Wiring Connection

These models feature a specific manufacturer protocol based on CAN, accessible through the OBDII plug placed under the bonnet, close to the ECU. For this installation refer to the following pinout of the OBDII plug and connection table.



OBDII connector pin	Function
6	CAN High
14	CAN Low



AiM cable	AiM color cable
CAN+	White
CAN-	Blue

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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 device configuration are:

- ECU manufacturer: **CATERHAM**
- ECU Model: **420R MY2018** (Only RS3)

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“CATERHAM – 420R MY2018” protocol

Channels received by AiM devices configured with " CATERHAM – 420R MY2018" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
ECT	Engine coolant temperature
MAP	Manifold air pressure
TPSv	Throttle position sensor
Throttle site	Throttle position sensor site
Supply volt	Battery voltage
Air temp	Air temperature

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