

AiM InfoTech

Aston Martin

DB9 2004 - 2016

Vantage 2005 - 2017

Vanquish 2012 - 2018

Release 1.00



ECU



1 Supported years and models

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

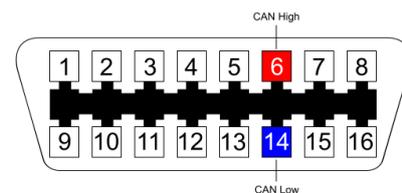
Supported years and models are:

- Aston Martin DB9 2004 - 2016
- Aston Martin Vantage 2005 - 2017
- Aston Martin Vanquish 2012 - 2018

2 Connection

These models feature a bus communication protocol based on CAN, accessible through the OBD II plug placed on the right-hand side, under the dash. For this installation refer to the following pinout of the OBDII plug (vehicle side - front view).

OBDII 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 device configuration are:

- ECU manufacturer: **Aston Martin**
- ECU Model: **CAN_HS** (only available for RS3)
CAN BUS (only available for RS2)

4

Protocols

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

4.1

“Aston Martin – CAN_HS” protocol

Channels received by AiM devices configured with "Aston Martin – CAN_HS" protocol are:

CHANNEL NAME	FUNCTION
Rpm	RPM
SpeedVeh	Vehicle Speed
Gear	Gear
PedalPos	Throttle pedal position
BrakePress	Brake pressure
WaterTemp	Water temperature
OilPressWarn	Oil pressure switch
SWAngle	Steering wheel angle

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.

4.2

“Aston Martin – CAN BUS” protocol

Channels received by AiM devices configured with "Aston Martin – CAN BUS" protocol are:

CHANNEL NAME	FUNCTION
AM_RPM	RPM
AM_VEH_SPEED	Vehicle Speed
AM_WH_SPEED_FL	Wheel speed front left
AM_WH_SPEED_FR	Wheel speed front right
AM_WH_SPEED_RL	Wheel speed rear left
AM_WH_SPEED_RR	Wheel speed rear right



AM_GEAR	Gear
AM_PPS	Throttle pedal position
AM_ECT	Water temperature
AM_OIL_TEMP	Oil temperature
AM_STEER_ANGLE	Steering wheel angle
AM_STEER_SPEED	Steering wheel speed
AM_BRAKE_PRESS	Brake pressure
AM_BRAKE_SW	Brake switch
AM_BARO	Barometric pressure
AM_AMB_TEMP	Ambient Temperature
AM_MAN_SP_MODE	Manual Sport mode selection
AM_KICKDOWN	Kickdown switch
AM_OIL_PR_WARN	Oil pressure switch
AM_CLUTCH_SW	Clutch switch
AM_SERV_LAMP	Service warning lamp
AM_FUEL_LEVEL	Fuel level
AM_OBD2_TPS	Throttle position (OBD2)
AM_OBD2_MAP	Manifold air pressure (OBD2)
AM_OBD2_FUE_PR	Fuel pressure (OBD 2)

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