AiM InfoTech

# Aston Martin

| | |
|---|---|
| DB9 | 2004 - 2016 |
| Vantage | 2005 - 2017 |
| Vanquish | 2012 - 2018 |

## Release 1.00

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ECU

# 1 Supported years and models

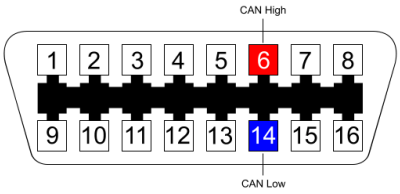
This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.
Supported years and models are:

- 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) |

**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.