

AiM user manual

Honda

CBR 1000RR (2004-2016)

CBR 600RR (2003-2019)

Release 1.01



ECU





1

Models and years

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

Supported years and models are:

- | | | |
|---------|-----------------------------------|-----------|
| • Honda | CBR 1000RR | 2004-2016 |
| • Honda | CBR 1000RR HRC | 2014-2016 |
| • Honda | CBR 600RR | 2003-2019 |
| • Honda | CBR 600RR HRC with ECU marked D11 | 2013-2015 |

Please note: Honda CBR 1000RR HRC and CBR 600RR HRC previous to these listed above are not supported

2 Connection

Honda CBR-RR with PGM-Fi after 2003-2004 bikes feature a bus communication protocol based on K-line, accessible through the Sumitomo red connector (DLC) placed under the bike seat. For this installation refer to the DLC connector wires colours and functions.



Cable colour

Brown
Orange/White
Black/White
Green



Cable function

Not used
K Line
+Vb switched
Ground

3

Race Studio configuration

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

- ECU Manufacturer: **Honda**
- ECU Model according to the following table:

Bike model:	HDS_TAB10	HDS_TAB11
Honda CBR 1000RR from 2008		X
Honda CBR 1000RR HRC from 2014		X
Honda CBR 600RR from 2008		X
Honda CBR 600RR HRC from 2013 with ECU marked D11		X
Honda CBR 1000RR from 2004 to 2007	X	
Honda CBR 600RR from 2003 to 2007	X	

4

Available channels

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

4.1

"Honda – HDS_TAB10" protocol

Channels received by AiM devices configured with "Honda – TAB_10" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	HDS_RPM	RPM
ECU_2	HDS_TPS_V	Throttle position sensor voltage
ECU_3	HDS_TPS	Throttle position sensor
ECU_4	HDS_ECT	Engine coolant temperature
ECU_5	HDS_IAT	Intake air temperature
ECU_6	HDS_MAP	Manifold air pressure
ECU_7	HDS_BATT	Battery supply
ECU_8	HDS_SPD	Speed
ECU_9	HDS_IGN_ANG	Ignition angle
ECU_10	HDS_INJ_Tms	Injection time

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

"Honda – HDS_TAB11" protocol

Channels received by AiM devices configured with "Honda – TAB_11" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	HDS_RPM	RPM
ECU_2	HDS_TPS_V	Throttle position sensor voltage
ECU_3	HDS_TPS	Throttle position sensor
ECU_4	HDS_ECT	Engine coolant temperature
ECU_5	HDS_IAT	Intake air temperature
ECU_6	HDS_MAP	Manifold air pressure
ECU_7	HDS_BATT	Battery supply
ECU_8	HDS_SPD	Speed
ECU_9	HDS_IGN_ANG	Ignition angle
ECU_10	HDS_INJ_Tms	Injection time
ECU_11	HDS_unk	Unknown channel

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.