

# AiM user manual

Honda  
CBR 1000RR (2004-2016)  
CBR 600RR (2003-2019)

Release 1.02

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ECU



# 1

## Models and years

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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

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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:

<b>Bike model:</b>	<b>HDS_TAB10</b>	<b>HDS_TAB11</b>
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

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

## 4.1

### "Honda – HDS\_TAB10" protocol

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Channels received by AiM devices configured with "Honda – TAB\_10" protocol are:

CHANNEL NAME	FUNCTION
HDS_RPM	RPM
HDS_TPS_V	Throttle position sensor voltage
HDS_TPS	Throttle position sensor
HDS_ECT	Engine coolant temperature
HDS_IAT	Intake air temperature
HDS_MAP	Manifold air pressure
HDS_BATT	Battery supply
HDS_SPD	Speed
HDS_IGN_ANG	Ignition angle
HDS_INJ_B	Injection banking
HDS_INJ_W	Injection width

**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

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Channels received by AiM devices configured with "Honda – TAB\_11" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
HDS_RPM	RPM
HDS_TPS_V	Throttle position sensor voltage
HDS_TPS	Throttle position sensor
HDS_ECT	Engine coolant temperature
HDS_IAT	Intake air temperature
HDS_MAP	Manifold air pressure
HDS_BATT	Battery supply
HDS_SPD	Speed
HDS_IGN_ANG	Ignition angle
HDS_INJ_Tms	Injection time
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.