AiM user manual

Honda
CBR 1000RR (2004-2015)
CBR 600RR (2003-2015)

Release 1.00

ECU

1 Models and years

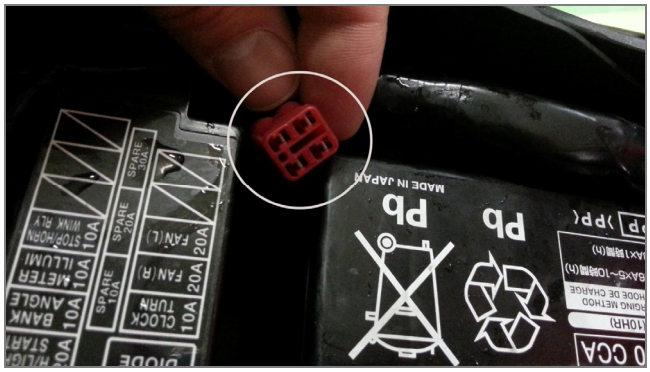
This tutorial explains how to connect AiM devices to Honda CBR-RR bikes ECU. Supported years and models are:

• Honda	CBR 1000RR	2004-2015
• Honda	CBR 1000RR HRC	2014-2015
• Honda	CBR 600RR	2003-2015
• 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
K Line connection

Honda CBR-RR with PGM-Fi after 2003-2004 bikes feature a bus communication protocol based on K Line on the Honda Diagnostic system (HDS). To connect AiM devices to the bike K Line use the Sumitomo red connector (DLC) shown here below.



The table below shows the colour of the cables connected to Honda Sumitomo connector as well as their function.

Cable colour	Cable function
Brown	Not used
Orange/White	K Line
Black/White	+Vb switched
Green	Ground

3
Race Studio configuration

Before connecting AiM devices to the bike ECU set this up using AiM Race Studio software. The parameters to select in the logger configuration are:

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

	"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 SoloDL and EVO4 connected to "Honda" "HDS_TAB10" 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 SoloDL and EVO4 connected to "Honda" "HDS_TAB11" 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.