

AiM user manual

EVO4 and SoloDL kit
for Honda
CBR 1000RR (2004-2015)
CBR 600RR (2003-2015)

Release 1.00



KIT





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Models and years

This user guide explains how to connect AiM EVO4 and SoloDL to the Engine Control Unit (ECU) of Honda CBR-RR bike. Supported years and models are:

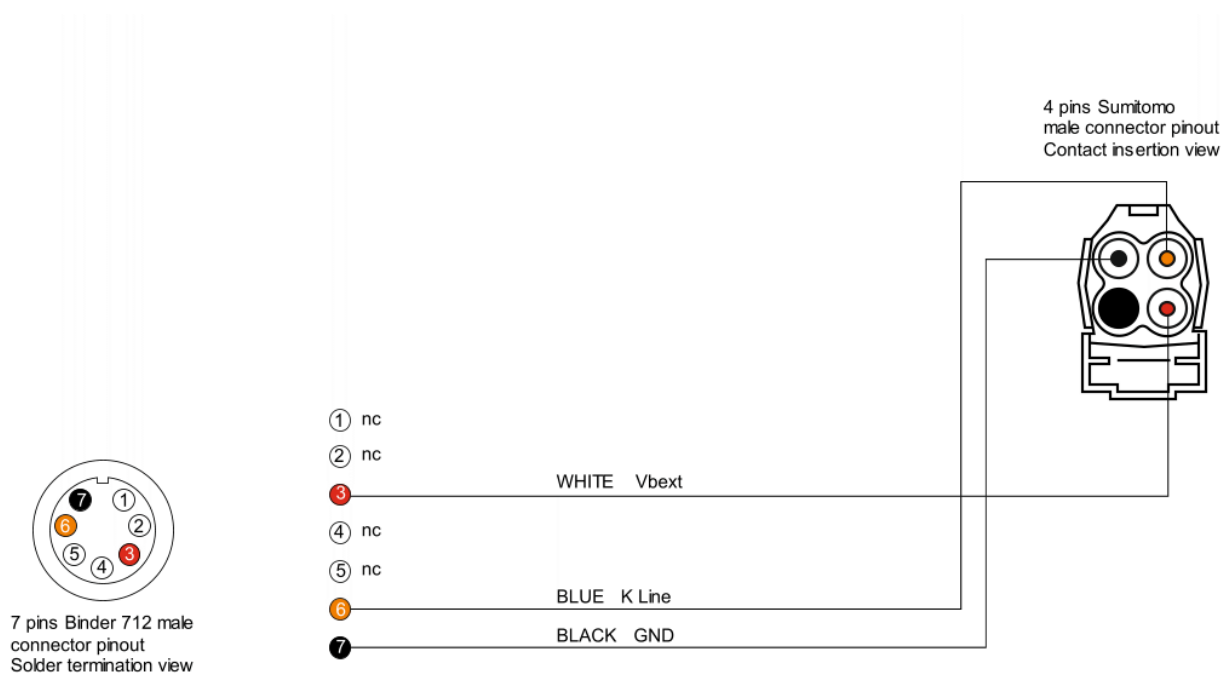
- Honda CBR 1000RR from 2004
- Honda CBR 1000RR HRC from 2014
- Honda CBR 600RR from 2003
- Honda CBR 600RR HRC with ECU marked D11 from 2013

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

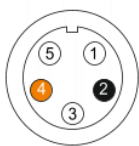
2 SoloDL and EVO4 connection kit

AiM designed and developed proper connection kits for SoloDL and EVO4.

Here below is connection kit – K Line and power – for SoloDL (part number **V02569290**) with the related constructive scheme.

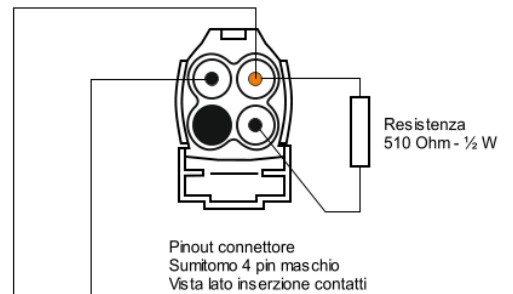


Here below is connection kit for EVO4 (part number **V02563290**) with the related constructive scheme.



Pinout connettore
Binder 712 - 5 pin maschio
Vista lato terminazioni di saldatura

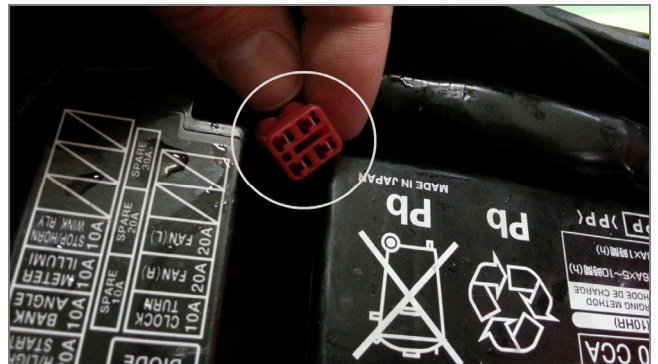
- ① nc
- ② NERO GND
- ③ nc
- ④ ROSSO Linea K
- ⑤ nc



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Connecting SoloDL and EVO4

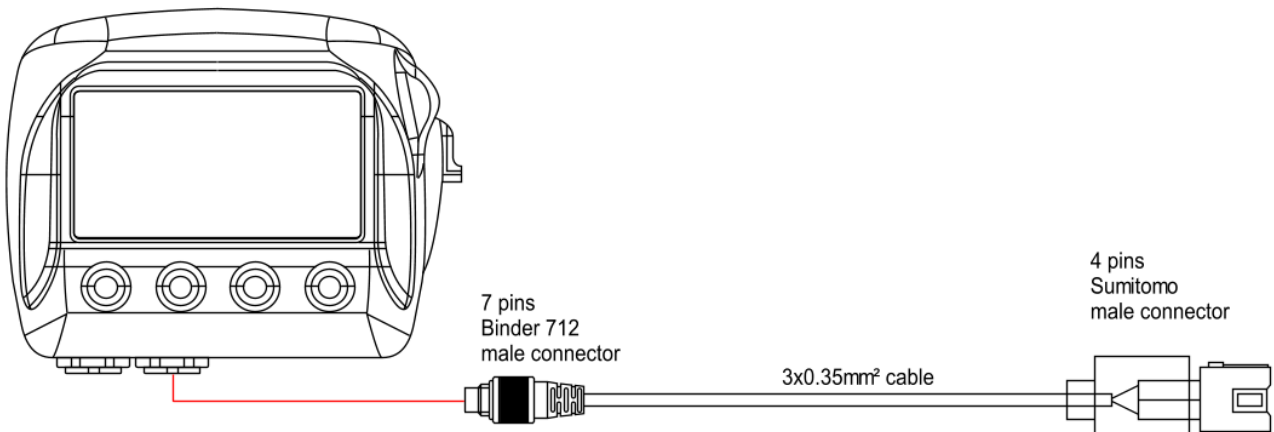
Honda CBR-RR with PGM-Fi after 2003-2004 bikes communicate with Honda Diagnostic system (HDS) using the K Line. To connect SoloDL and EVO4 to the bike K Line use the Sumitomo red connector (DLC) shown here below and connect it to Sumitomo connector of SoloDL and EVO4 connection kits.



3.1

Connecting SoloDL

Connect 7 pins Binder 712 female connector of SoloDL – right under the logger – to 7 pins Binder 712 male connector of the connection kit (**V02569290**) as shown here below.





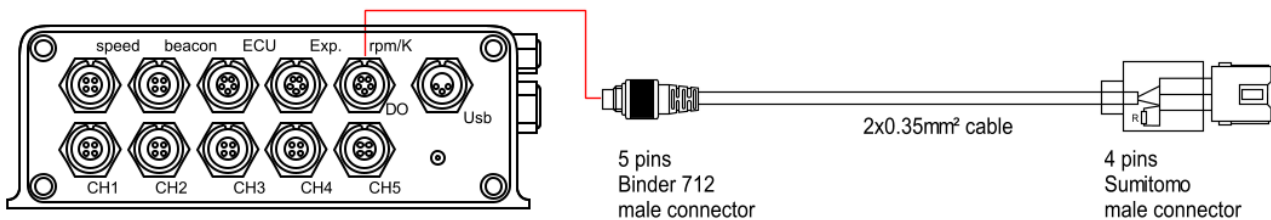
As said SoloDL connection kit allows also to power the logger. The table below shows colours of the cables connected to Honda Sumitomo connector and their function.

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

Note: in order to enable the required pull-up resistor integrated in SoloDL, power the logger with 12V line as described above.

3.2 Connecting EVO4

Connect EVO4 5 pins Binder 712 female connector labelled "rpm/K DO" –second from right of the top row – to 5 pins Binder 712 male connector of **V02563290** kit as shown here below..



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

Cable colour

Brown
Orange/White
Black/white
Green

Cable function

Not used
K Line
+Vb (switch) not connected
Ground



4 Race Studio 2 configuration

Before connecting EVO4/SoloDL to the bike ECU set it up using Race Studio 2 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	

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Available channels

Channels received by SoloDL and EVO4 connected to Honda bike change according to the selected protocol.

5.1

"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.



5.2

"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.