aimshop
• LAP TIMERS • LOGGERS • CAMERAS • DASHES • SENSORS • AND MORE
SHOP NOW

AiM User Guide

Kit EVO4S, SOLO 2/SOLO 2 DL for Honda CBR 1000RR (2004-2016) Honda CBR 600RR (2003-2019)

Release 1.01

KIT

VISIT SUPPORT CENTER
SOFTWARE DOWNLOADS | FIRMWARE UPDATES | PRODUCT DOCUMENTATION

1
Models and years

This manual explains how to connect EVO4S and SOLO 2 DL to the bike engine control unit (ECU) and how to install AiM SOLO 2/SOLO 2 DL on the bike steering plate.

Compatible models are:

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

2
Kit content and part numbers

AiM developed a specific installation bracket for SOLO 2/SOLO 2 DL and a connection cable to the ECU for EVO4S/SOLO 2 DL.

2.1
Bracket for SOLO 2/SOLO 2DL

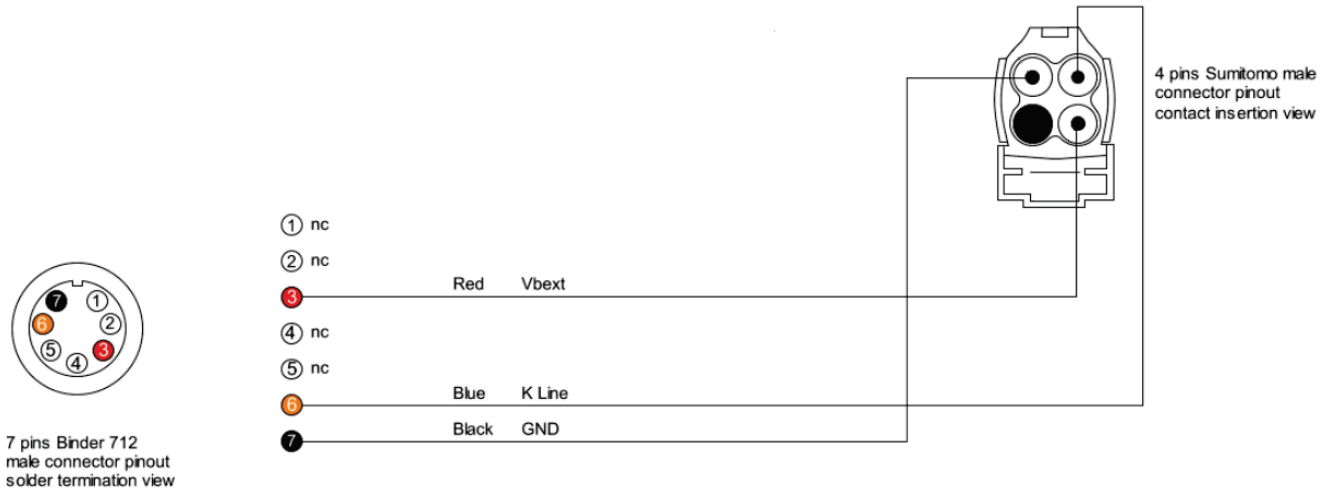
Part number for **SOLO 2/SOLO 2 DL** installation bracket for **Honda CBR 600 RR** – shown below – is: **X46KSHCBR6.**

Installation kit contains:
1 bracket (**1**)
2 allen screws with flat head M4x10mm (**2**)
1 washer (**3**)
1 allen screw with rounded head M6x60 (**4**)
1 rubber dowel (**5**)

2.2
AiM cable for EVO4S/SOLO 2 DL

Part number for **EVO4S/SOLO 2 DL** connection cable for **Honda CBR 600 RR and CBR 1000 RR** – shown below – is: **V02569290**.

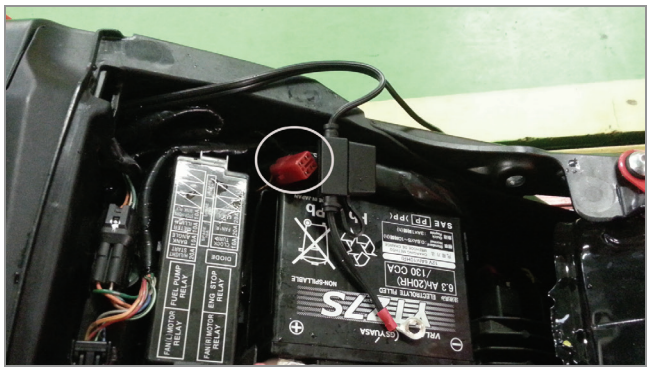
Following image shows the cable constructive scheme.



Installation bracket and connection cable for SOLO 2 DL for Honda CBR 600 RR can be bought together. Part number: **V0256929CS**.

3
EVO4S/SOLO 2 DL connection

Honda CBR – RR bikes with PGM-Fi from 2003-2004 onwards communicate with Honda diagnostic system (HDS) using K-line. To connect EVO4S/SOLO 2 DL to the bike K-line, use the red Sumitomo connector (DLC) placed under the bike seat and shown in the following pictures: it must be connected to the Sumitomo connector of the AiM connection cable for EVO4S and SOLO 2 DL.



4
Configuration with Race Studio 3

Before connecting EVO4S/SOLO 2 DL to the bike ECU, set all functions using the AiM software Race Studio 3. The parameters to set in the AiM device configuration section are ("ECU Stream" tab):

- ECU Manufacturer: "Honda"
- ECU Model must be set according to the following tab:

Bike Model	**"HDS_TAB10"**	**"HDS_TAB11"**
Honda CBR 1000RR 2008 – 2016		X
Honda CBR 1000RR HRC 2014 – 2016		X
Honda CBR 600RR from 2008		X
Honda CBR 600RR HRC from 2013 with D11 marked ECU		X
Honda CBR 1000RR from 2004 to 2007	X	
Honda CBR 600RR from 2003 to 2007	X	

5
Honda protocols

Available channels change according to selected protocol.

5.1
"Honda - HDS_TAB10" protocol

Received channels by EVO4S/SOLO 2 DL configured with “Honda – HDS_TAB10” protocol are:

CHANNEL NAME	FUNCTION
HDS RPM	RPM
HDS TPS V	Throttle position sensor voltage
HDS TPS	Throttle position sensor
HDS ECT	Water temperature
HDS IAT	Intake air temperature
HDS MAP	Manifold air pressure
HDS BATT	Battery voltage
HDS SPD	Vehicle speed
HDS IGN ANG	Ignition angle advance
HDS INJ Tms	Injection time (milliseconds)

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

Received channels by EVO4S/SOLO 2 DL configured with “Honda – HDS_TAB11” protocol are:

CHANNEL NAME	FUNCTION
HDS RPM	RPM
HDS TPS V	Throttle position sensor voltage
HDS TPS	Throttle position sensor
HDS ECT	Water temperature
HDS IAT	Intake air temperature
HDS MAP	Manifold air pressure
HDS BATT	Battery voltage
HDS SPD	Vehicle speed
HDS IGN ANG	Ignition angle advance
HDS INJ Tms	Injection time (milliseconds)
HDS unk	Free channel to be assigned

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.