AiM User guide

Kit for Solo 2 DL and cable for XLog for Honda CRF 250 cc from 2010 onwards 450 cc from 2009 onwards

Release 1.01



1 Models and years

This manual explains how to connect Solo 2 DL and XLog to Honda CRF Engine Control Unit (ECU). Supported model and years are:

- Honda CRF 250 cc — from 2010 onwards
- Honda CRF 450 cc — from 2009 onwards

2 Kit for Solo 2 DL, cable for XLog and part numbers

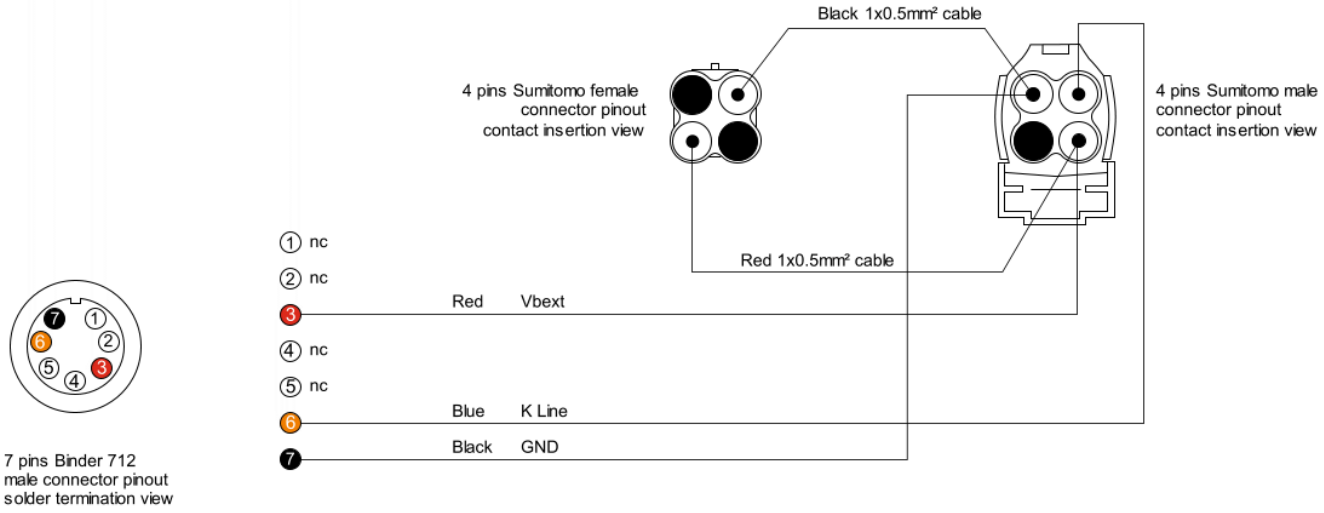
Honda CRF 250 and 450 kit for Solo 2 DL part number is: **V02569320CS**. It contains:

- 1 Bar Pad for bikes with cross brace for Solo 2 DL with thermoformed cover, Velcro already mounted and fixing plate (**1**)
- 4 – 3x12 screws (**2**)
- 1 cable for Honda CRF (**3**)



Honda CRF cable (**3**) – part number **V02569320** – and Bar Pad for Solo 2 DL (**1**) – part number **X47KPSOLO2T20** – can be bought separately as spare parts.

The draw here below shows constructive scheme of cable **V02569320**. It can be used for both Solo 2 DL and XLog.



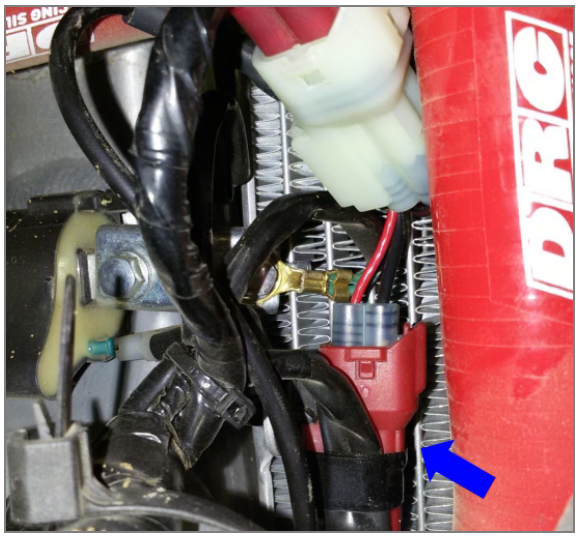
3
Installation and connection

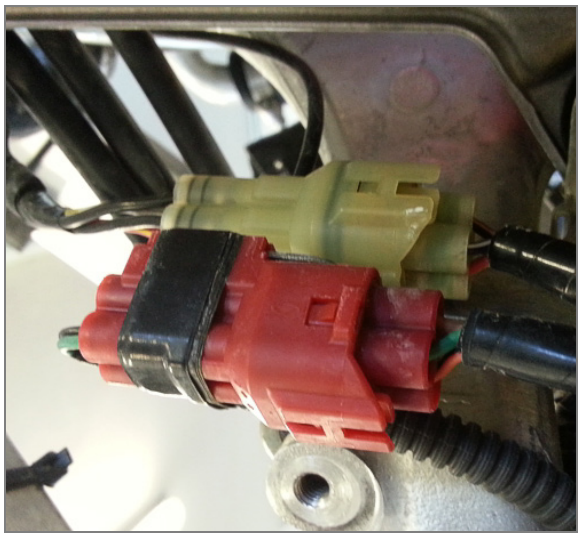
To install Solo 2 DL on your Honda CRF remove the original bar pad and install AiM pad following the instructions you can download from www.aim-sportline.com – download documentation Area. Images here below show the original bar pad on the left and AiM one on the right.





Honda CRF bike with PGM-Fi setting tool communicates with Honda Diagnostic System (HDS) through the K Line, that can be reached on a red Sumitomo connector (DLC) placed on the left side of the bike. This connector connects the fuel pump power supply too. Images below shows the Sumitomo connector position on the left and the connector in detail on the right.

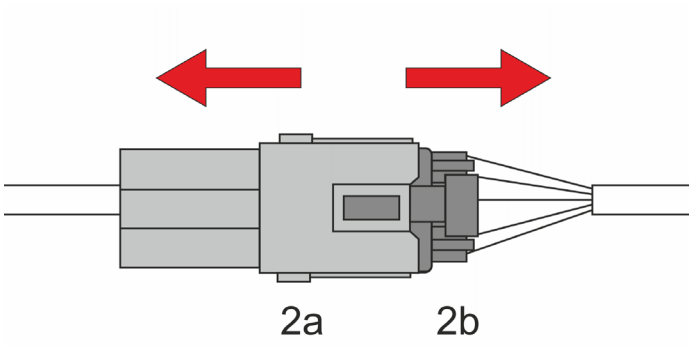


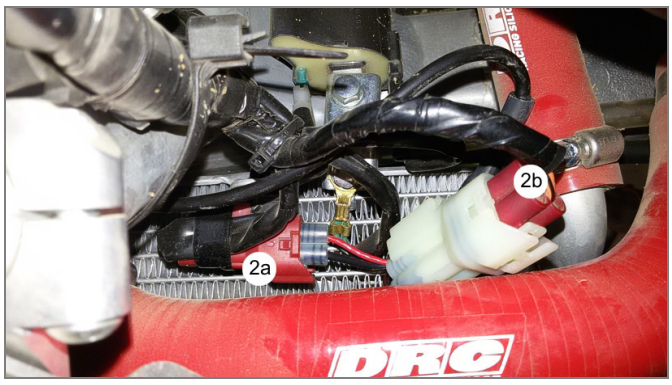


Honda cables colours code is:

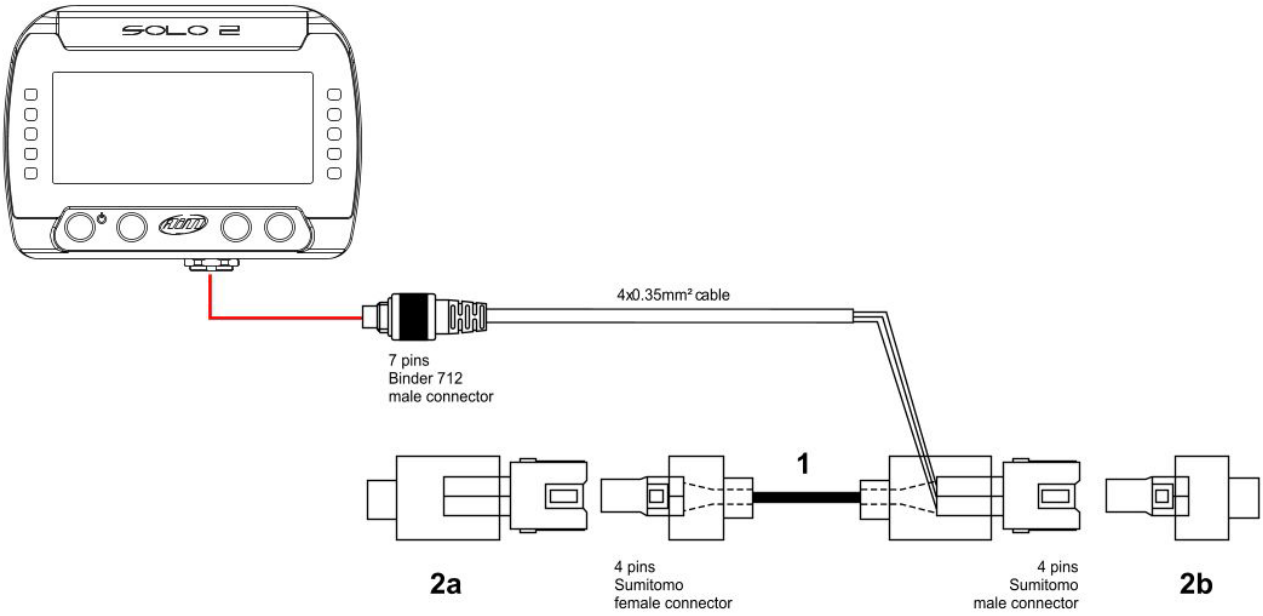
- Brown — Not connected
- Orange/Black — K Line
- Black — Battery positive pole
- Green — Ground

Unplug Honda cable as shown here below and insert AiM one between the two Honda connectors labelled "2a" and "2b" in the image on the right.





The scheme below shown connection of AiM Solo 2 DL, AiM cable and Honda wiring: plug AiM cable (**1**) in the connectors labelled **2a** and **2b**.



4 Configuration with RaceStudio 3

Before connecting Solo 2 DL/XLog to Honda CRF ECU set it up using AiM RaceStudio 3 software. The parameters to select in the logger configuration are:

- ECU Manufacturer: "Honda"
- ECU model: "HDS_TAB10"

5 "Honda" "HDS_TAB10" protocol

Channels received by SoloDL connected to "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	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 B
HDS_INJ_W	Injection W

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.