AiM User manual

EVO4 and SoloDL connection kit for Kawasaki Ninja ZX-10R and ZX-10R Racing kit 2011-2015

Release 1.01

KIT

1
Supported models and years

This user manual explains how to connect AiM SoloDL and EVO4 to your bike engine control unit (ECU). Supported models and years are:

- Kawasaki Ninja ZX-10R   2011-2015
- Kawasaki Ninja ZX-10R Racing kit   2011-2015

Warning: AiM recommends not to remove the bike stock dash to avoid losing traction control and map selection management.

2
Connection kit for SoloDL and EVO4

AiM designed and developed connection kits for SoloDL and EVO4. Here below SoloDL connection kit is shown (part number: **V02569220**) with the related constructive scheme.

6 pins Sumitomo
male connector pinout
contact insertion view

Pin	Colour	Signal
1	White	CAN+
2	Blue	CAN-
3	Red	Vbext
4	nc	
5	nc	
6	nc	
7	Nero	GND
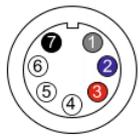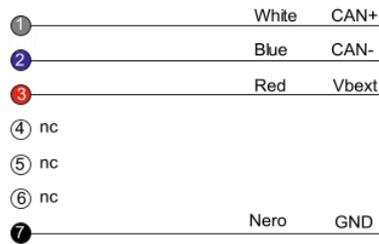
7 pins Binder 712
male connector pinout
solder termination view
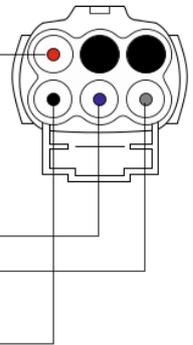
EVO4 connection kit is shown here below (part number **V02563160**) with the related constructive scheme.
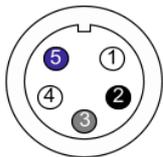
6 pins Sumitomo male
connector pinout
contact insertion view

① nc

❷   Black   GND

③   White   CAN+

④ nc

❺   Blue   CAN-
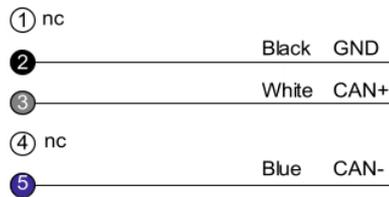
5 pins Binder 712
male connector pinout
solder termination view
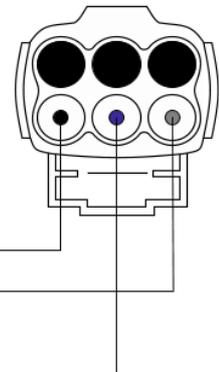
3
Connecting SoloDL and EVO4

SoloDL can be installed on the bike steering while EVO4 can be installed under the bike seat. Position of the ECU connector to be used changes according to the bike model.

Kawasaki ZX10R connector is under the bike seat and is called "diagnosis connector" while Kawasaki ZX10R Racing kit connector is under the windscreen and is called "CAN output".

3.1
Connecting SoloDL

To connect SoloDL to your Kawasaki ZX10R ECU use the diagnosis connector placed under the bike seat.

SoloDL connection cable is 140 cm long.

To connect SoloDL to your Kawasaki ZX10R Racing kit ECU use CAN OUTPUT connector placed under the bike windscreen.
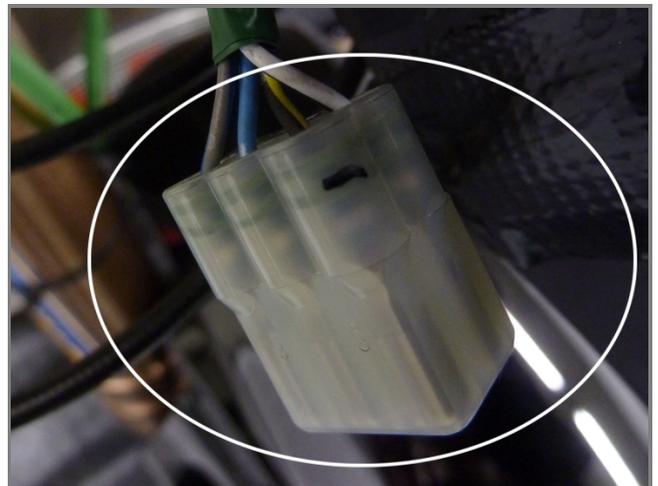
Connection between SoloDL and connection kit is shown here below.
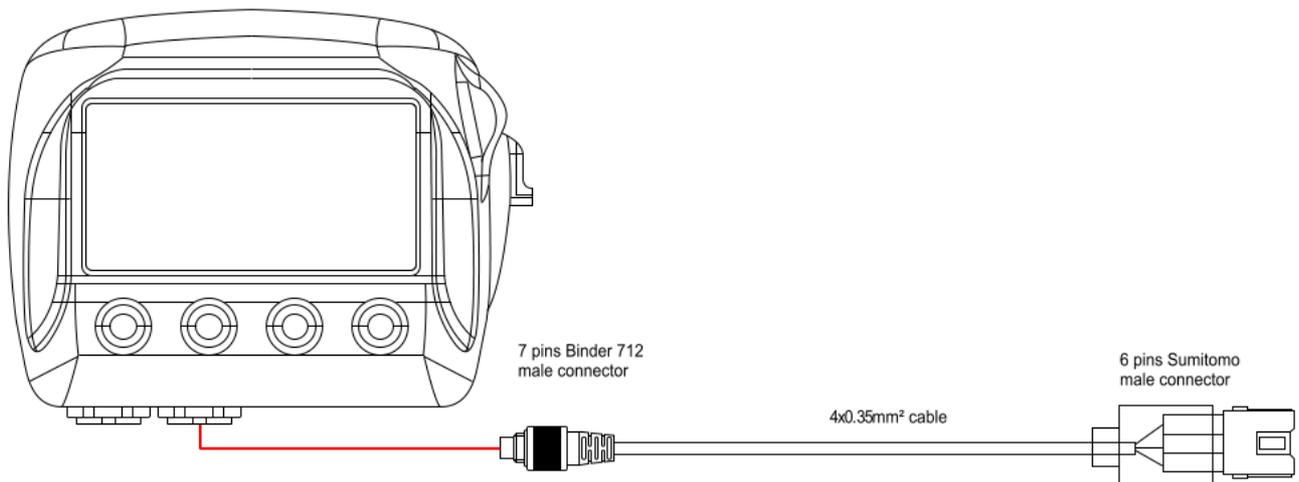
3.2
Connecting EVO4

To connect EVO4 to your Kawasaki ZX10R ECU use "diagnosis connector" placed under the bike seat.

To connect EVO4 to your Kawasaki ZX10R Racing ECU kit use "CAN output" connector placed under the bike windscreen.
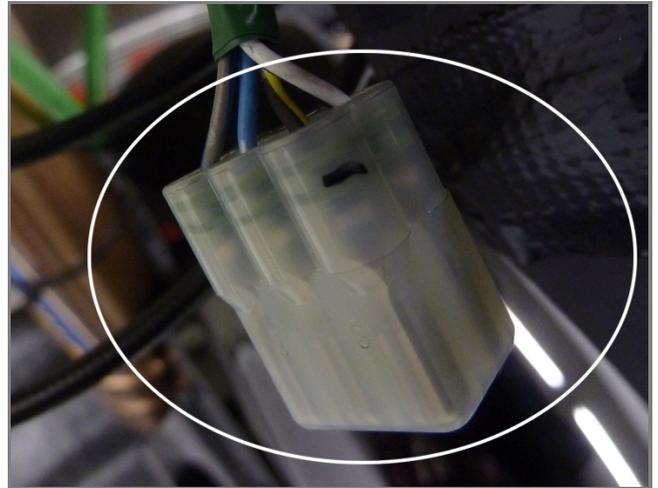
To connect ECU connector under the windscreen to EVO4, installed under the bike seat, use the CAN extension cable shown here on the right. The cable is available in multiple lengths. Part numbers are:

- 1m CAN extension cable: **V02552700**
- 1,5m CAN extension cable: **V02552710**

Connection between EVO4, connection kit and CAN extension – when needed – is shown here below.
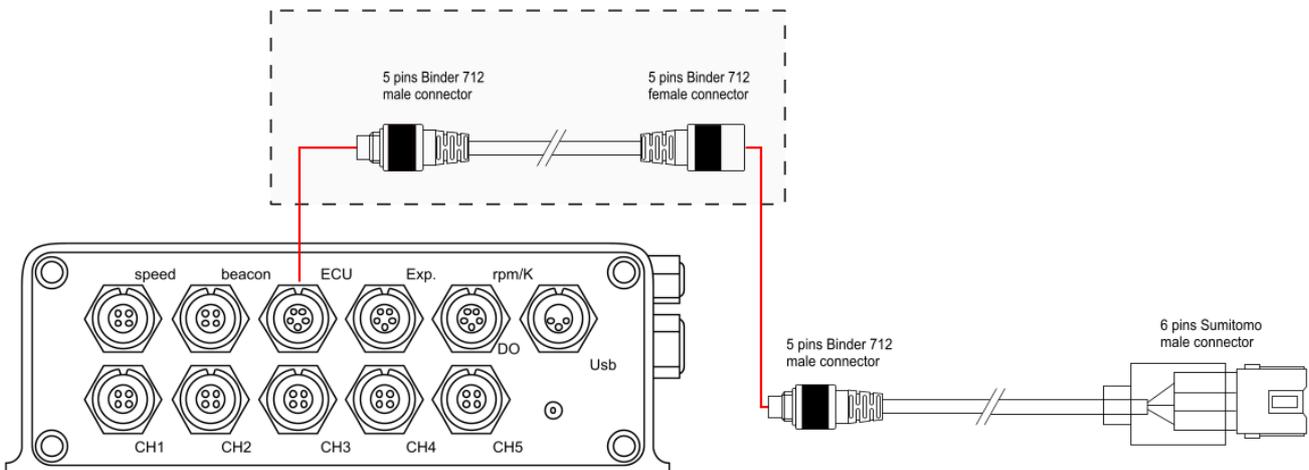
4

Configuring with Race Studio 2

Before connecting SoloDL/EVO4 to the ECU set it up using Race Studio 2 software. The parameters to select in the logger configuration are:

- ECU Manufacturer "Kawasaki"
- ECU model "KIT RACING"

5

Kawasaki "KIT RACING" protocol

Channels received by SoloDL/EVO4 with "Kawasaki" "KIT RACING" protocol are:

ID	NOME CANALE	FUNZIONE
ECU_1	ZX_RPM	RPM
ECU_2	ZX_SPEED_F	Front wheel speed
ECU_3	ZX_SPEED_R	Rear wheel speed
ECU_4	ZX_TPS	Throttle position sensor
ECU_5	ZX_ECT	Engine coolant temperature
ECU_6	ZX_IAT	Intake air temperature
ECU_7	ZX_GEAR	Engaged gear
ECU_8	ZX_CLUTCH	Clutch switch
ECU_9	ZX_POW_MODE	Selected power mode
ECU_10	ZX_TC_MODE	Traction control mode
ECU_11	ZX_SHIFTER	Shifter
ECU_12	ZX_PIT_ROAD	Pit lane speed limiter
ECU_13	ZX_DIAG_CODE_1	Diagnostic code 1
ECU_14	ZX_DIAG_CODE_2	Diagnostic code 2
ECU_15	ZX_DIAG_CODE_3	Diagnostic code 3

| ECU_16 | ZX_V_BATT | Battery supply |
| ECU_17 | ZX_TC_SELECT | Selection of traction control level |

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.