

AiM User Guide

Kit EVO4S, SOLO 2/SOLO 2 DL for
Kawasaki ZX-10R Stock/Racing kit
MY2011/2016/2018

Release 1.03



KIT





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:

- | | |
|---|-----------|
| • Kawasaki Ninja ZX-10R MY2011 | 2011-2015 |
| • Kawasaki Ninja ZX-10R MY2011 Racing kit | 2011-2015 |
| • Kawasaki Ninja ZX-10R MY2016 | from 2016 |
| • Kawasaki Ninja ZX-10R MY2016 Racing kit | from 2016 |

Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequences that may result from the replacement of the original instrumentation cluster.

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 2 DL

Part number for **SOLO 2/SOLO 2 DL** installation bracket for **Kawasaki Ninja ZX-10R from 2016** – shown below – is: **X47KPFSOLO2KN**.

Installation kit contains:

- 1 bracket (1)
- 2 toothed washers (2)
- 2 allen screws M6x12mm (3)
- 2 allen screws with flat head M4x10mm (4)

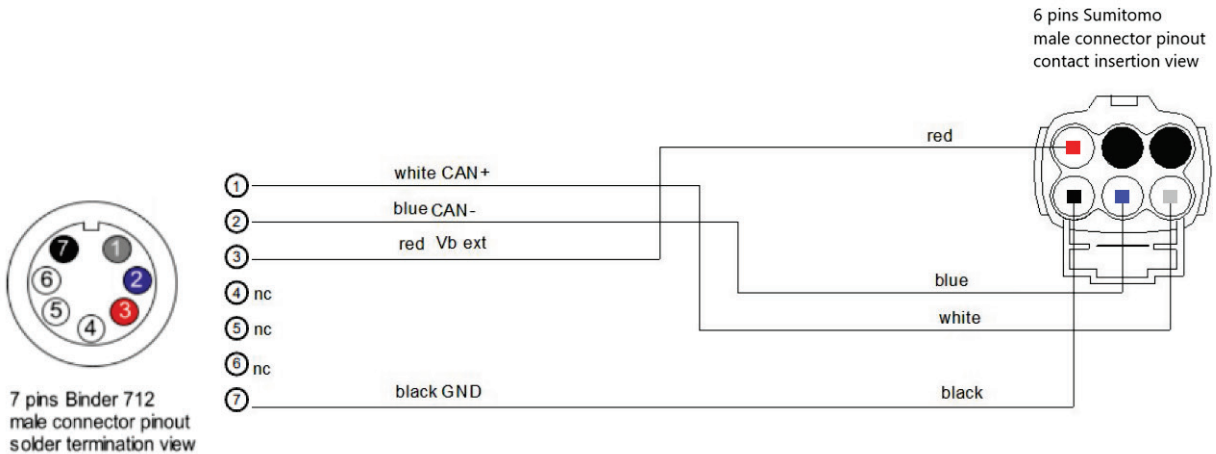


2.2 AiM cable for EVO4S/SOLO 2 DL

Part number for **EVO4S/SOLO 2 DL** connection cable for **Kawasaki Ninja ZX-R** – shown below – is: **V02569220**.



Following image shows the cable constructive scheme.



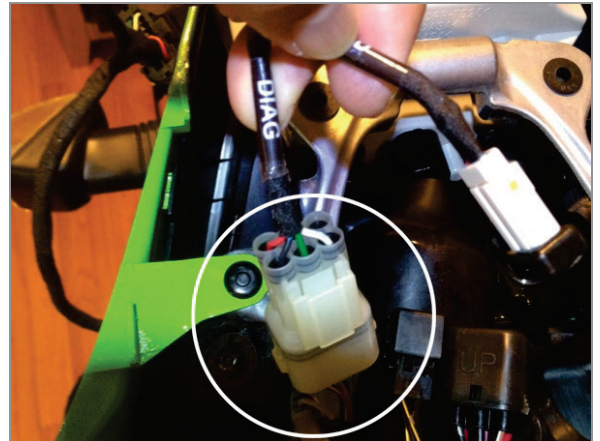
Installation bracket and connection cable for SOLO 2 DL for Kawasaki Ninja can be bought together. Part number: **V0256922CS**.

3

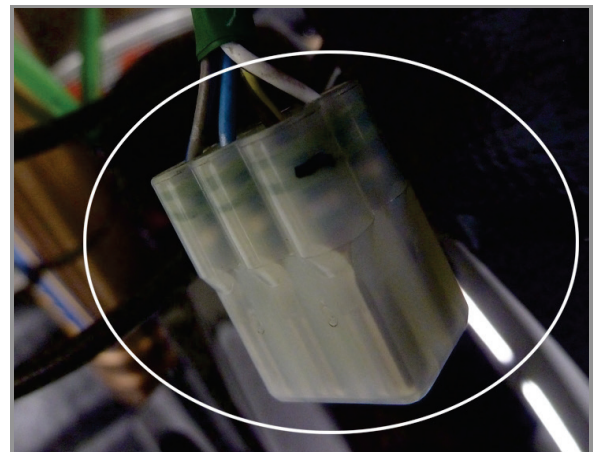
EVO4S/SOLO 2 DL connection

To connect EVO4S/SOLO 2 DL to the Kawasaki bike ECU, use the diagnostic connector placed under the bike seat (image on the right).

AiM connection cable length is 140cm.



To connect EVO4S/SOLO 2 DL to the ECU of **Kawasaki bikes with Racing Kit or latest 2018 bike models**, use the CAN OUTPUT connector placed under the bike windshield, right side (image on the right).



4

Configuration with Race Studio 3

Before connecting EVO45/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 "Kawasaki"
- ECU Model:
 - "KIT RACING" for Kawasaki ZX-10R and ZX-10R Racing kit 2011-2015
 - "ZX10R_2016" for Kawasaki ZX-10R and ZX-10R Racing kit from 2016

After this first selection, enable/disable the 120Ohm resistor and the "Silent" mode on CAN Bus as follows:

<input type="checkbox"/>	Enable the CAN Bus 120 Ohm Resistor
<input checked="" type="checkbox"/>	Silent on CAN Bus

5

Kawasaki protocol

Available channels change according to selected protocol.

5.1

"Kawasaki – KIT_RACING" protocol

Received channels by EVO4S/SOLO 2 DL configured with "Kawasaki – KIT_RACING" protocol are:

CHANNEL NAME	FUNCTION
ZX RPM	RPM
ZX TPS	Throttle position sensor
ZX ECT	Water temperature
ZX IAT	Intake air temperature
ZX GEAR	Active gear
ZX CLUTCH	Clutch switch
ZX POW MODE	Engine map selection
ZX TC MODE	Traction Control mode
ZX TC SELECT	Traction Control level selection
ZX SPEED F	Front wheel speed
ZX SPEED R	Rear wheel speed
ZX SHIFTER	Shifter
ZX PIT ROAD	Pit lane limiter
ZX DIAG CODE 1	Diagnostic code 1
ZX DIAG CODE 2	Diagnostic code 2
ZX DIAG CODE 3	Diagnostic code 3
ZX V BATT	Battery voltage

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

Protocollo "Kawasaki - ZX10R_2016"

Received channels by EVO4S/SOLO 2 DL configured with "Kawasaki - ZX10R_2016" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
REAR DIST	Rear wheel driven distance
ECT	Water temperature
IAT	Intake air temperature
GEAR	Active gear
CLUTCH	Clutch switch
S KRTC MOD	Traction Control mode
KEBC MOD	Engine brake mode
KLCM ACT	Launch Control activation
KQS UP ACT	Quick Shift activation (upshift phase)
KQS DW ACT	Quick Shift activation (downshift phase)
POW MODE	Power mode selection
KLCM MOD	Launch Control mode
SPEED F	Front wheel speed
SPEED R	Rear wheel speed
KQS UP WK	Quick Shift working level (upshift phase)
KQS DW WK	Quick Shift working level (downshift phase)
S KRTC	Traction Control
WHLIE CTRL L	Wheelie control level
V BATT	Battery voltage
GRIP POS	Handgrip throttle position
TPS	Throttle position sensor
SHIFTER	Shifter button
LEAN ANG	Lean Angle



WHLIE ANG	Wheelie angle
S KRTC ACT	Traction control activation
S KRTC SL	Traction control level
WHLIE CTR ACT	Wheelie control activation
WHLIE CTR SL	Wheelie control level
KEBC SL	Engine brake level setting

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.