

AiM User Guide

Solo 2/Solo 2 DL, EVO4S, XLog
and ECULog kit for Kawasaki
ZX-10R Stock/Racing kit
MY2011/2016/2021

Release 1.05



KIT





1

Models and years

This manual explains how to connect Solo 2 DL, EVO4S, XLog and ECULog to the bike engine control unit (ECU).

Compatible models are:

- | | |
|---|-----------|
| • Kawasaki Ninja ZX-10R MY2011 | 2011-2015 |
| • Kawasaki Ninja ZX-10R MY2011 Racing kit | 2011-2015 |
| • Kawasaki Ninja ZX-10R MY2016 | 2016-2020 |
| • Kawasaki Ninja ZX-10R MY2016 Racing kit | 2016-2020 |
| • Kawasaki Ninja ZX-10R MY2021 | from 2021 |
| • Kawasaki Ninja ZX-10R MY2021 Racing kit | from 2021 |

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 consequence 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 Solo 2 DL, EVO4S, XLog and ECULog.

2.1

Bracket for Solo 2/Solo 2 DL

Part number of **Solo 2/Solo 2 DL** installation bracket for **Kawasaki Ninja ZX-10R 2011-2020 only** – shown below – is: **X47KPFSOLO2KN**.

Installation kit contains:

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

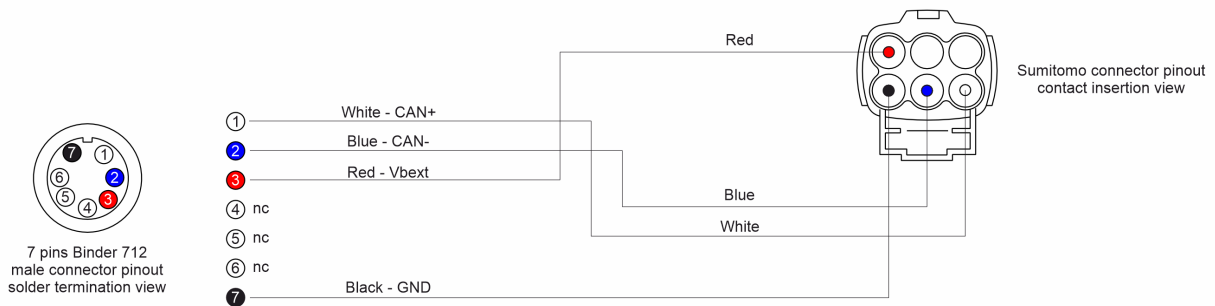


2.2 AiM cable for Solo 2 DL, EVO4S and ECULog

Part number of connection cable for Solo 2 DL, EVO4S and ECULog – shown below – is: **V02569220**.



The following image shows the cable constructive scheme.



2.3 Solo 2 DL kit (AiM cable + bracket)

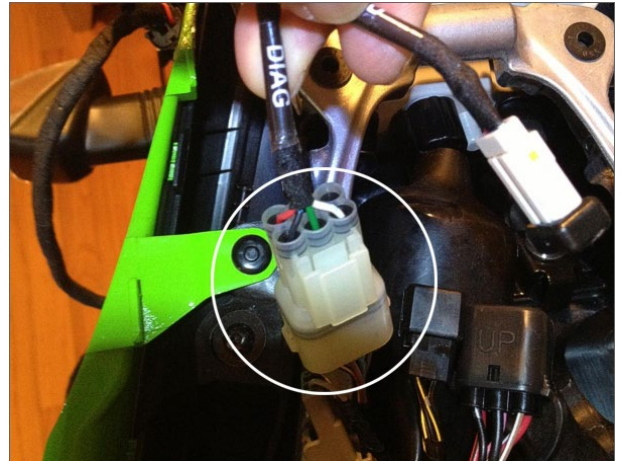
Installation bracket and connection cable for Solo 2 DL for Kawasaki Ninja can be also bought together with part number: **V0256922CS**.

3

Solo 2 DL, EVO4S, XLog and ECULog connection

To connect Solo 2 DL, EVO4S, XLog and ECULog to the bike ECU, use the diagnostic connector placed under the bike seat and shown here on the right.

AiM connection cable length is 140cm.



To connect Solo 2 DL, EVO4S, XLog and ECULog 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 and shown here on the right.



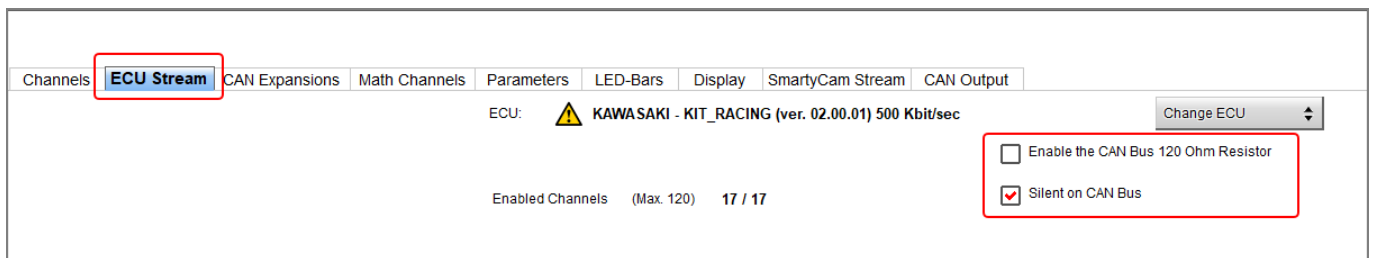
4

Configuration with RaceStudio 3

Before connecting AiM devices to the bike ECU, set all functions up using AiM RaceStudio 3 software. The parameters to set in the device configuration (“ECU Stream” tab) are:

- ECU Manufacturer: “Kawasaki”
- ECU Model:
 - “KIT RACING” for Kawasaki ZX-10R and ZX-10R Racing kit 2011-2015 (**RaceStudio 3 only**)
 - “ZX10R_2016” for Kawasaki ZX-10R and ZX-10R Racing kit 2016-2021 (**RaceStudio 3 only**)

After this first selection, enable “Silent on CAN Bus” checkbox as follows:



5

Kawasaki protocols

Channels received by AiM devices configured with Kawasaki protocols change according to selected protocol.

5.1

"Kawasaki – KIT_RACING" protocol

Received channels by AiM devices 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 "Kawasaki – ZX10R_2016" protocol

Channels received by AiM devices 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.