AiM User Guide

GET GP1 EVO or A4 and GET Power ECU for Solo 2DL

Release 1.00

ECU

1

Supported models

This user guide explains how to connect GET GP1 EVO and GET Power ECU to AiM Solo 2DL. Supported models are:

- GET GP1 with GP1 EVO protocol
- GET GP1 with A4 protocol
- GET Power

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Installation note
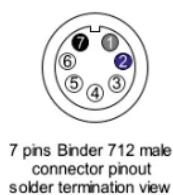
To install Solo 2DL on your bike you can use a bar pad. AiM provides the two optional bar pads shown below:
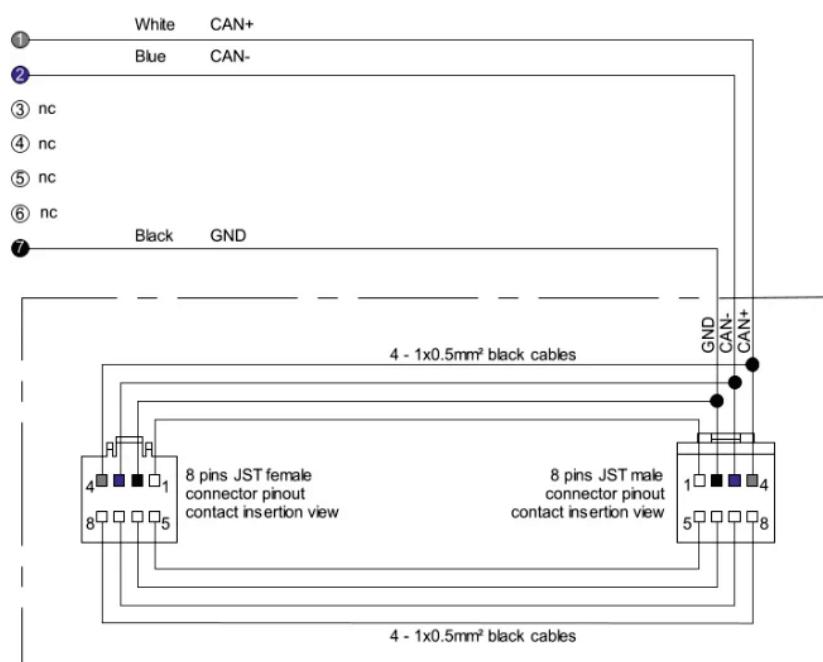
- bar pad for handle bar with cross brace – part number:**X47KPSOLO2T20** image on the left;
- bar pad for handle bar without cross brace – part number:**X47KPSOLO2T10** image on the right

GET GP1 EVO and GET Power ECUs can be connected to Solo 2DL using an interface cable shown here below. Its part number is: **V02569250**.


7 pins Binder 712 male
connector pinout
solder termination view

	White	CAN+
②	Blue	CAN-
③ nc		
④ nc		
⑤ nc		
⑥ nc		
⑦	Black	GND

4 - 1x0.5mm² black cables

GND CAN- CAN+

8 pins JST female
connector pinout
contact insertion view

8 pins JST male
connector pinout
contact insertion view

4 - 1x0.5mm² black cables
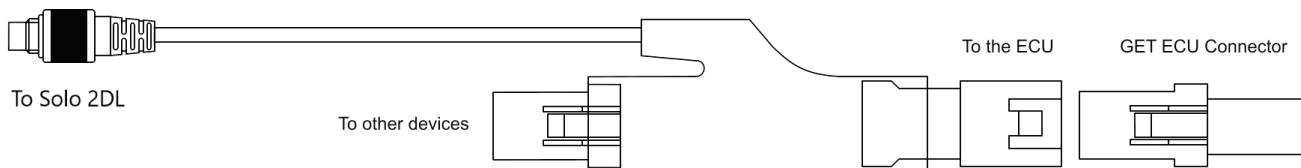
GET GP1 EVO and GET Power ECUs have a connector used to communicate data to an external device and highlighted here below.

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Please note: GET ECU does not power Solo 2DL. It is thereby recommended to always ensure that Solo 2DL battery is charged.

In case GET ECU is already connected to an external device it is possible to maintain this connection using AiM cable. As explained in the drawing below, GET ECU can be connected to AiM cable male connector labelled "To the ECU" and the third device can be connected to the ECU through AiM cable female connector labelled "To other devices".

ECU connector has a cap on it. If nothing else is connected to the ECU remove the cap and place it on AiM cable female connector (labelled "to other devices" here above) and connect AiM cable male connector to the ECU female connector.

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Race Studio 3 configuration

Before connecting the Solo 2DL to the ECU, set all functions using AiM software Race Studio 3.
The parameters to set in the device configuration are:

- ECU manufacturer: **GET**
- ECU Model: **GP1_EVO** for GET GP1 ECU with previous versions and for GET Power.
  A4 for GP1 ECU from firmware version GP86 of February the 4th 2013 or from the version identified with code A4BEQJ

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Available channels

Channels received by Solo 2DL connected to Get GP1 EVO and Get Power ECUs changes according to the protocol (ECU Model) you set in Race Studio 3 configuration.

4.1

"GET - GP1_EVO" protocol

Channels received by Solo 2DL configured with "GET - GP1_EVO" protocol are:

CHANNEL NAME	FUNCTION
Revs	ECU revolutions in counts
RPM	Engine RPM
ThrotPos	Throttle position
ManifAirPress	Manifold air pressure
TempH2O	Engine coolant temperature
TempAir	Intake air temperature
TempOil	Oil temperature
VBB1	Battery supply 1
VBB2	Battery supply 2
BaroPress	Barometric pressure
Lambda1Avg	Lambda 1 Average value
Lambda1Raw	Lambda 1 raw value
KLambda1	Lambda 1 correction
InjTime	Injection time
Spark1	Spark angle 1
Phase	ECU phase
Speed1	Speed 1
Speed2	Speed 2
DTps	Throttle position derivative
DecayInj	Differential injection revs 1
KInjTair	Air temperature correction during injection time
Mappa	Selected map
Gear	Gear position

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.

4.2
"GET - A4" protocol

Channels received by Solo 2DL configured with "GET - A4" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
Gear	Gear position
Speed1	Speed 1
Speed2	Speed 2
TPS	Throttle position sensor
WaterTemp	Engine coolant temperature
IntakeAirtemp	Intake air temperature
Fork	Fork damper value
Shock	Shock damper value
Rev	Engine revolution counter
MAP	Manifold air pressure
InjTabime	Fuel injection time value
SparkTab	Ignition timing value
SparkTot	Total ignition advance
DWELL	Ignition coil dwell time
Phase	ECU phase
DTPSp	Opening delta with TPS
DTPSm	Closing delta with TPS
IjDTPSp	Acceleration Injection Time Correction
IgDTPSp	Acceleration Ignition Correction
IjDTPSm	Deceleration Injection Time Correction
IgDTPSm	Deceleration Ignition Correction
ADPedal	Pedal analogue value
ADTPS	Throttle position sensor analogue value
LambAvg	Lambda average value

LambRaw	Lambda raw value
KLSTO1	Lambda correction 1
KLSTO2	Lambda correction 2
LambTarget	Lambda target
KInjTH2O	Injection correction according to water temperature
KInjTAir	Injection correction according to air temperature
KIjBaro	Injection correction according to barometric pressure
KIGTH2O	Ignition correction according to water temperature
KIGTAir	Ignition correction according to air temperature
KIGBaro	Ignition correction according to barometric pressure
VBB	Battery supply
Baro	Barometric pressure
GearCut	Gear cut

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.