AiM User Guide

Kit Solo 2 DL for AiM Taipan and Taipan Y ECU

Release 1.02

This user guide explains how to connect AiM Solo 2 DL to:

- AiM Taipan ECU
- AiM Taipan Y ECU

1 Supported bike models

AiM Taipan ECUs are compatible with many off road bikes model brands and types; please refer to Taipan –> Compatible models page of AiM website at www.aim-sportline.com for further information. This list is constantly updated.

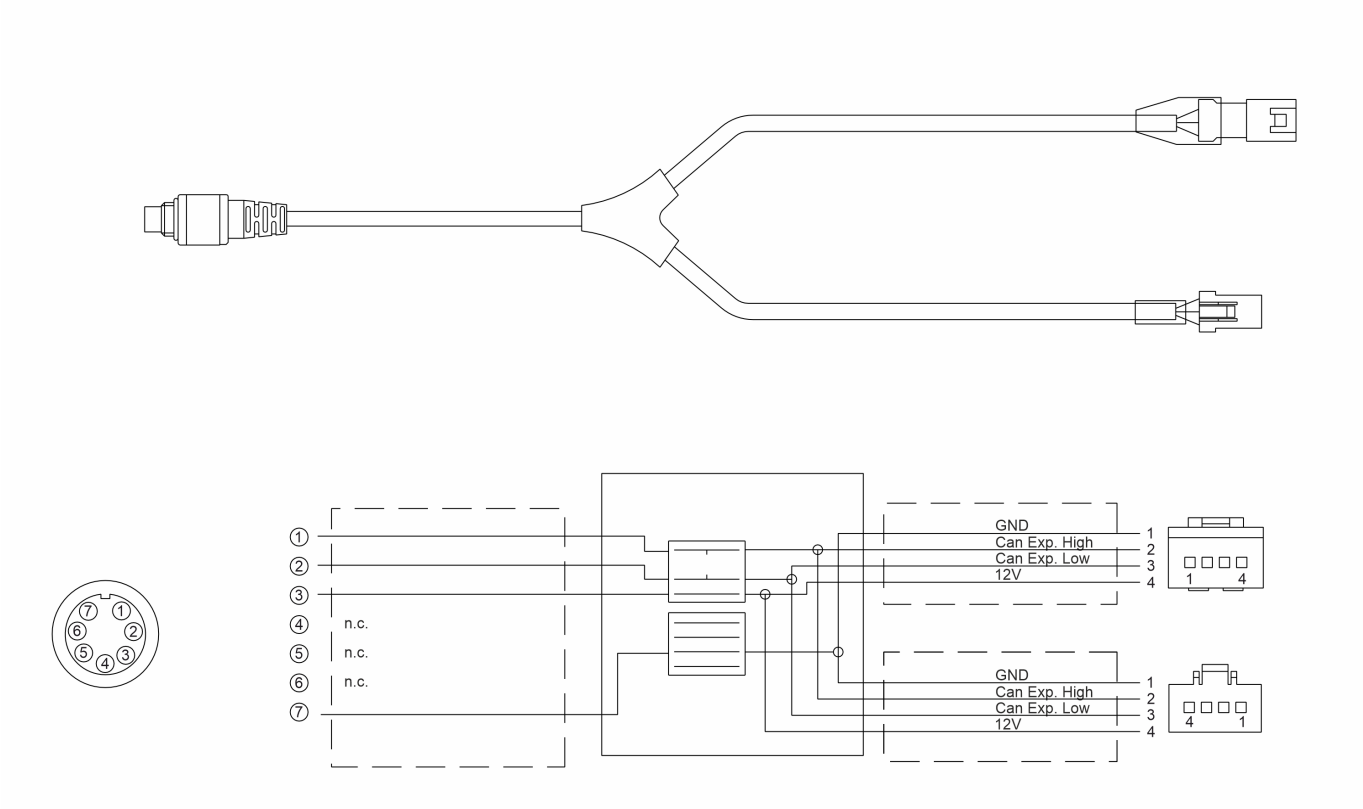
2 Installation notes

To install Solo 2 DL on your bike you can use a bar pad. AiM provides the two optional bar pads shown below:

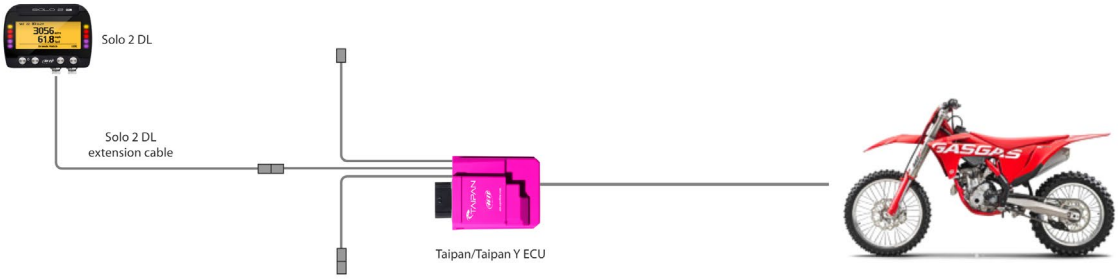
- bar pad for handle bar with cross brace – part number: **X47KPS2T20** below on the left
- bar pad for handle bar without cross brace – part number: **X47KPS2T10** below on the right

AiM Taipan ECU can be connected to Solo 2 DL using the dedicated connection kit whose part number is: **V02589120**. Here below it is shown on top with the constructive scheme on bottom.

AiM Taipan ECU is to be placed where the stock one is and it **powers** Solo 2 DL.



The image below shows the connection scheme of AiM Taipan ECU and Solo 2 DL.



3
Configuration with Race Studio3

Before connecting Solo 2 DL to the ECU, set it up using Race Studio 3 software. The parameters to select in the device configuration are:

- ECU Manufacturer: “AiM”
- ECU Model: “ECU Taipan user”

4 Available channels

Channels received by Solo 2 DL connected to "AiM" "Taipan User" protocol are:

ID	CHANNEL NAME	FUNCTION
CC21	RPM	Engine RPM
CC09	TPS	Throttle position sensor
CC48	DTPS	Throttle position sensor derivative
CC17	ECT	Engine coolant temperature [in °C *10]
CC13	BATTERY	Battery Voltage [in Mv]
CC19	ECU T	ECU Temperature [in °C]
CC11	GEAR	Engaged Gear
CC20	IAT	Intake Air Temperature [in °C*10]
CC69	DROP V	Drop sensor Voltage
CC70	SPARE CH 1	Spare channel 1 Voltage in mV
CC71	SPARE CH 2	Spare channel 2 Voltage in mV
CC53	ENG STATE	Engine state coding 0 = engine cranking 1 = engine cranking 2 = engine running 3 = engine stopped
CC59	ANALOG DIAG HH	Analog diagnostic upper word MSB bit 7 = Manifold Air Pressure sensor signal too low bit 6 = Manifold Air Pressure sensor too high bit 5 = Throttle Position sensor signal too low bit 4 = Throttle Position sensor signal too high bit 3 = Battery voltage level too low bit 2 = Battery voltage level too high bit 1 = Engine coolant Temperature sensor signal too low bit 0 = Engine coolant Temperature sensor signal too high

CC60	ANALOG DIAG HL	Analog diagnostic upper word LSB bit 7 = GEAR sensor signal too low bit 6 = GEAR sensor signal too high bit 5 = Intake Air Temperature sensor signal too low bit 4 = Intake Air Temperature sensor signal too high bit 3 = Drop sensor signal too low bit 2 = Drop sensor signal too high bit 1 = Don't care bit 0 = Don't care
CC61	ANALOG DIAG LH	Analog diagnostic lower word MSB bit 7 = don't care bit 6 = don't care bit 5 = don't care bit 4 = don't care bit 3 = don't care bit 2 = don't care bit 1 = don't care bit 0 = don't care
CC62	ANALOG DIAG LL	Analog diagnostic lower word LSB bit 7 = don't care bit 6 = don't care bit 5 = don't care bit 4 = don't care bit 3 = don't care bit 2 = don't care bit 1 = don't care bit 0 = don't care
CC63	ENG DIAG HH	Engine diagnostic upper word MSB bit 7 = Injector 1 open load bit 6 = Injector 1 over current bit 5 = Injector 1 over temperature bit 4 = Injector 1 short to ground bit 3 = Injector 2 open load (Taipan Y only) bit 2 = Injector 2 over current (Taipan Y only) bit 1 = Injector 2 over temperature (Taipan Y only) bit 0 = Injector 2 short to ground (Taipan Y only)

CC64	ENG DIAG HL	Engine diagnostic upper word LSB bit 7 = Fuel pump open load bit 6 = Fuel pump over current bit 5 = Fuel pump over temperature bit 4 = Fuel pump short to ground bit 3 = Map LED Honda open load (Taipan) Launch control LED open load (Taipan Y) bit 2 = Map LED Honda over current (Taipan) Launch control LED over current (Taipan Y). bit 1 = Map LED Honda over temperature (Taipan) Launch control LED over temp. (Taipan Y). bit 0 = Map LED Honda short to ground (Taipan) Launch control LED short to ground (Taipan Y).
CC65	ENG DIAG LH	Engine diagnostic lower word MSB bit 7 = Don't care. bit 6 = Don't care. bit 5 = Don't care. bit 4 = MIL LED open load (Taipan only) bit 3 = MIL LED over current (Taipan only). bit 2 = MIL LED over temperature (Taipan only). bit 1 = MIL LED short to ground (Taipan only). bit 0 = Don't care.
CC66	ENG DIAG LL	Engine diagnostic lower word LSB bit 7: Don't care. bit 6: Ignition open load (Taipan Y only) bit 5: Ignition over current (Taipan Y only). bit 4: Don't care bit 3: Don't care bit 2: Don't care bit 1: Don't care bit 0: Don't care

CC49	ENG FLAG	Engine flag bit 15 = RPM limiter active bit 14 = Launch switch pressed bit 13 = Map switch pressed bit 12 = Over injection detected bit 11 = Kill switch pressed bit 10 = Engine switched off for drop sensor timeout expired bit 9 = Engine switched off for ECU flashing bit 8 = Map 1 is valid bit 7 = Map 2 is valid bit 6 = Map 3 is valid bit 5 = Map 4 is valid bit 4 = Map 5 is valid bit 3 = Map 6 is valid bit 2 = Don't care bit 1 = Don't care bit 0 = Don't care
CC67	ENG REV	Engine revolutions
CC57	MAP SEL	Selected Map
CC58	LAUNCH STATE	Launch control state coding
CC44	USAGE TIME MIN	Engine usage time (in minutes)
CC45	USAGE TIME SEC	Engine usage time (in seconds)
CC50	IGN TRANS CORR	Ignition DPTS correction
CC51	INJ TRANS CORR	Injection DPTS correction