

# AiM Info Tech

Kit EVO4S, SOLO 2/SOLO 2 DL  
for Aprilia RSV4/ Tuono V4  
MY2021  
MY2023

Release 1.00

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KIT



# 1

## Models and years

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This manual explains how to connect EVO4S and SOLO 2 DL to the bike engine control unit (ECU).

Compatible models are:

- Aprilia RSV4 MY 2021 2021 - 2022
- Aprilia RSV4 MY 2023 from 2023
- Aprilia Tuono V4 MY 2021 2021 – 2022
- Aprilia Tuono V4 MY 2023 from – 2023

**Warning:** for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike's 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

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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

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Part number for **SOLO 2/SOLO 2 DL** installation bracket for **Aprilia RSV4** – shown below – is: **X46KSARSV40**.

Installation kit contains:

- 1 bracket (1)
- 1 allen screw with rounded head M8x45mm (2)
- 2 allen screws with flat head M4x10mm (3)
- 1 toothed washer (4)
- 1 rubber dowel (5)



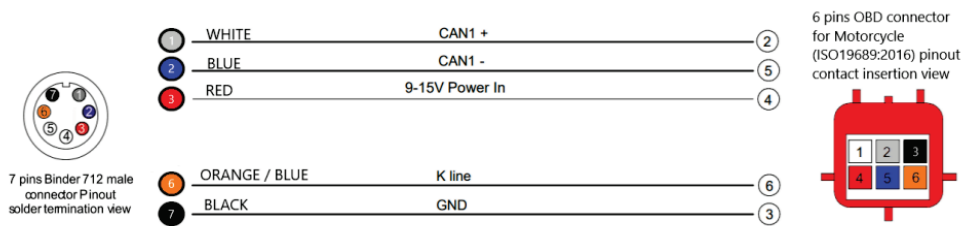
## 2.2

### AiM cable for SOLO 2 DL/ EVO4S

Part number for **SOLO 2 DL / EVO4S** connection cable for Aprilia RSV4/ Tuono V4 – shown below – is: **V02589130**.



Following image shows the cable constructive scheme for Solo 2DL cable:



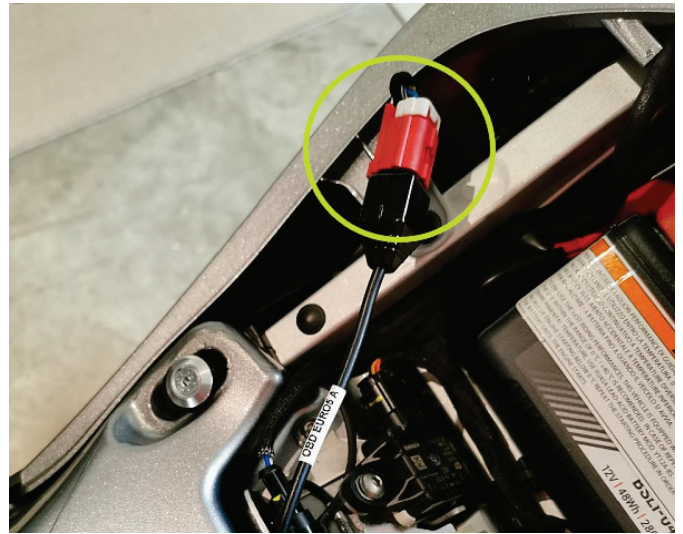
Connection cable for **SOLO 2 DL** and installation **bracket for Aprilia RSV4 /Tuono V4** can be bought together. Part number: **V02589130CSRSV4**.

### 3

## EVO4S/SOLO 2 DL connection

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Aprilia RSV4 communication line is based on CAN protocol that can be reached through the 6 ways red JST female connector (OBDII EURO 5 A), placed under the bike seat.



### 4

## Configuration with Race Studio 3

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Before connecting the ECU to AiM device set this up using AiM Race Studio 3 software. The parameters to select in the device configuration are:

- ECU Manufacturer: **APRILIA**
- ECU Model: **RSV4 EU5 (RS3 Only)**

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

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

## 5

## “APRILIA - RSV4 EU5” protocol

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Channels received by AiM devices configured with "APRILIA - RSV4 EU5" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
RPM	Engine RPM
Gear	Engaged gear
QS Ready	Quick shift
Clutch Sw	Clutch switch
Hand Throttle	Hand throttle position
Bike Speed	Bike speed
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal acceleration
Lat Acc	Lateral acceleration
Roll Rate	Roll rate
Yaw Rate	Yaw rate
Pitch Angle	Pitch angle
Roll Angle	Roll angle
RollRateStat	Roll rate status
1=	IMU not available
2=	Signal failure
3=	Init running
Air Temp	Air temperature
Oil Temp	Oil temperature
Engine Temp	Engine coolant temperature
Brake Press	Brake pressure
Brake Front Sw	Front brake switch



Brake Rear Sw	Rear brake switch
TInj Prog1	Injection time program 1
Odometer	Odometer
Battery Volt	Battery voltage
HiBeam	High beam
Right Dir	Right direction
Left Dir	Left direction
Tipover Sw	Tip over switch
Fuel Cons	Fuel consumption
Fuel level	Fuel level
Fuel Low	Fuel low
Fuel Res St	Fuel rest status
TracDiag	Traction control diagnostic
Engine Map	Engine map selected
Riding Mode	Riding mode
TC Slip Lp	Traction control slip
Torque Red	Torque reduction
APRC Lamp Status	APRC Lamp status
AWC	AWC – Aprilia Wheel Control
AWC Level	AWC – Aprilia Wheel Control level
ATC	ATC – Aprilia Traction Control
ATC Level	ATC – Aprilia Traction Control level
ABS	ABS
Level ABS	ABS level
ABS Lamp St	ABS Lamp status
ABS Level St	ABS level status
AEM	AEM – Aprilia Engine MAP
ALC	ALC – Aprilia Launch Control
ALC Enabled	ALC – Aprilia Launch Control enabled
ALC Level	ALC – Aprilia Launch Control level
AEB	AEB – Aprilia Engine Braking
Engine Brake	Engine Brake



Pit Enabled	Pit enabled
Pit Speed	Pit speed limiter
Oil Press High	Oil pressure high
Side Stand Sw	Side stand switch
Urg serv	Urgent service
1=	RSV4 Urgent service
3=	RSV4 AQS on
MIL	Malfunction indicator lamp
ECU Alarm	ECU Alarm

**Technical note:** not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.