

AiM Info Tech

Solo 2/Solo 2 DL, EVO4S, XLog
and ECULog kit for Aprilia RSV4,
Tuono V4 and RS660
(MY 2021-2023)

Release 1.02



KIT





1

Models and years

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

Compatible models and years 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 |
| • Aprilia RS660 | | from 2020 |

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 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 Solo2 / Solo 2 DL and a CAN 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 bracket kit for Aprilia RSV4 and RS660 – shown below – is:
X46KSARSV40

Please note: the bracket kit does not fit Aprilia Tuono V4.

It includes

- 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)



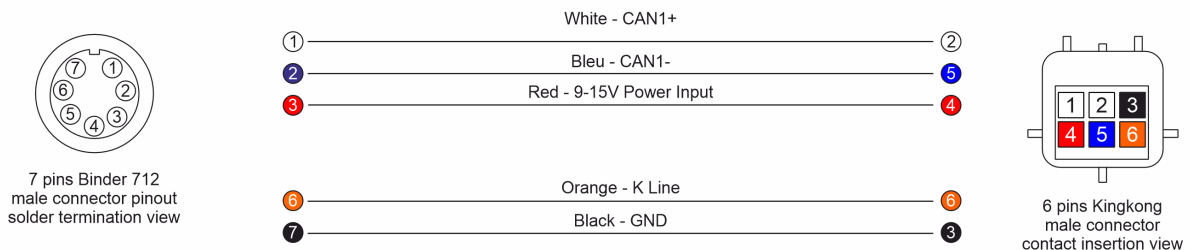
2.2

AiM CAN cable for Solo 2 DL, EVO4S, XLog and ECULog

CAN connection cable for Solo 2 DL, EVO4S, XLog and ECULog for Aprilia RSV4, Tuono V4 and RS660 is shown below. Its part number is: **V02589130**.



The image below shows the cable constructive scheme.



2.3

AiM kit for Solo 2 DL (CAN cable + Bracket)

Please note: connection cable for Solo 2 DL and installation bracket for Aprilia RSV4/RS660 can also be bought together with part number: **V02589130CSRSV4**

3

Solo 2 DL, EVO4S, XLog and ECULog connection

Aprilia RSV4 communication line is based on the CAN protocol that can be reached through the 6 ways red JST female connector (OBDII EURO5 A), placed under the bike seat.



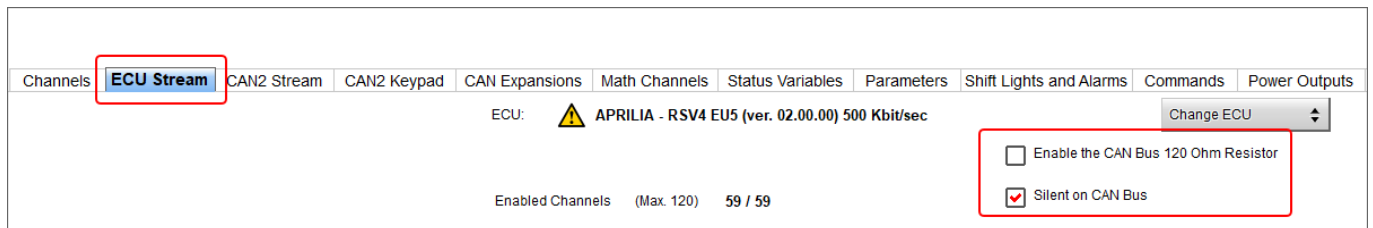
4

Configuration with RaceStudio 3

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

- ECU Manufacturer: **APRILIA**
- ECU Model: **RSV4 EU5** (RaceStudio 3 only)

After this first selection, uncheck the “120 Ohm resistor” box and check the “Silent mode on CAN Bus” under the “ECU Stream” tab:



5 "APRILIA – RSV4 EU5" protocol

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

CHANNEL NAME	FUNCTION
RPM	Engine RPM
Gear	Engaged Gear
QS Ready	Quick shift ready
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	Contains the following bitfield status messages: =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 Reserve Status
TracDiag	Traction Control Diagnostic
Engine Map	Engine Map
Riding Mode	Riding Mode
TC Slip Lp	Traction Control Slip
Torque Red	Torque Reduction
APRC Lamp Status	APRC Lamp Status
AWC	AWC – Aprilia Wheelie Control
AWC Level	AWC – Aprilia Wheelie 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
SideStand Sw	Side stand switch
Urg serv	Contains the following bitfield status messages
	=1 RSV4 Urgent Service
	=3 RSV4 AQS On
MIL	Malfunctioning Indicator Lamp
ECU Alarm	ECU Alarm

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.