



Aim Aprilia RSV4 Solo 2 DL Plug And Play Lap Timer Kit User Guide

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Aim Aprilia RSV4 Solo 2 DL Plug And Play Lap Timer Kit



Models and years

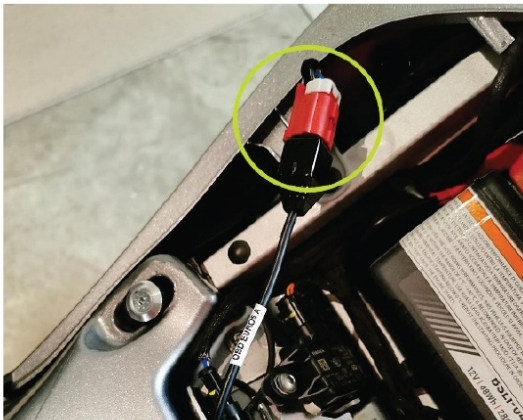
This manual explains how to connect Aprilia RSV4 ECU to AiM devices. Supported models and years:

- Aprilia RSV4 RR/RF MY2021 2021 – 2022
- Aprilia RSV4 RR/RF MY 2023 from 2023
- Aprilia Tuono V4 RR MY2021 2021 – 2022
- Aprilia Tuono V4 RR MY2021 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.

Wiring connection

Aprilia RSV4 /Tuono V4 MY2021 and MY2023 feature a bus communication protocol based on CAN that can be reached through the 6 ways red JST female connector (OBDII EURO 5 A), located under the bike seat. Below is indicated its pinout and connection table.



JST connector	Function	AiM cable	AiM color cable
2	CAN High	CAN +	White
3	Ground	GND	Black
4	V Battery	V Batt	Red
5	CAN Low	CAN -	Blue
AiM supplies the following dedicated cables with part numbers:			
Solo 2DL/ EVO4S		Cable length 1600 mm	V02589130

Race Studio 3 configuration

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)

“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
- 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
- TIinj 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.

Documents / Resources

	<p>Aim Aprilia RSV4 Solo 2 DL Plug And Play Lap Timer Kit [pdf] User Guide</p> <p>Aprilia RSV4 Solo 2 DL Plug And Play Lap Timer Kit, Aprilia RSV4, Solo 2 DL Plug And Play Lap Timer Kit, 2 DL Plug And Play Lap Timer Kit, Plug And Play Lap Timer Kit, Play Lap Timer Kit, Lap Timer Kit, Timer Kit</p>
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References

- [User Manual](#)