

AiM Infotech

Aprilia RSV 1000  
2004-2008

Release 1.04

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ECU



# 1

## Bike Models and years

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This tutorial explains how to connect Aprilia bikes to AiM devices. Supported bike models and years are:

- Aprilia RSV 1000 R 2004-2008
- Aprilia RSV 1000 R Factory 2004-2008

# 2

## CAN Communication

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Aprilia RSV 1000 ECU features a bus communication protocol based on CAN that can be reached through the stock dashboard rear connector or directly.

### 2.1

## Connection through the stock dashboard connector

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The stock dashboard is equipped with a 20 pins rear connector. Here below you find the connection table.

<b>Dash connector pin</b>	<b>Pin function</b>	<b>Aprilia cable colour</b>	<b>AiM cable label</b>
11	CAN High	Orange	CAN+
12	CAN Low	White/Black	CAN-

## 2.2

### Connection through the ECU connector

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Aprilia RSV 1000 ECU is equipped with two 41 pins connectors named "A" and "B". The CAN bus is on connector "B". Here below you find the connection table.

<b>"B" connector pin</b>	<b>Pin function</b>	<b>Aprilia cable colour</b>	<b>AiM cable label</b>
28	CAN High	Orange	CAN+
27	CAN Low	White/Black	CAN-

## 3

### AiM device configuration

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

- ECU manufacturer "Aprilia"
- ECU Model "RSV\_1000\_04\_08"

## 4

# Available channels

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Channels received by AiM devices connected to "Aprilia" "RSV\_1000\_04\_08" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RSV_RPM	RPM
ECU_2	RSV_SPEED	Vehicle Speed
ECU_3	RSV_TPS	Throttle Position Sensor
ECU_4	RSV_GEAR	Engaged Gear
ECU_5	RSV_ENGINE_T	Engine Coolant Temperature
ECU_6	RSV_BATT_VOLT	Battery Voltage
ECU_7	RSV_ECU_ERROR	ECU Error
ECU_8	RSV_NEUTRAL	Neutral sensor
ECU_9	RSV_IDLE_SPEED	Idle Speed
ECU_10	RSV_SIDE_STAND	Side Stand
ECU_11	RSV_OIL_LAMP	Raw value
ECU_12	RSV_FUEL_CONS	Fuel Consumption in L per 100km
ECU_13	RSV_FUEL_KM_L	Fuel Consumption in km for each litre

**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.