



AiM Infotech

Aprilia RSV 1000
2004-2008

Release 1.04



ECU

1

Bike Models and years

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 |

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CAN Communication

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

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

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

2.2

Connection through the ECU connector

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

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AiM device configuration

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"

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Available channels

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.