AiM Infotech

Aprilia RSV 1000
2004-2008

Release 1.01

ECU

1
Bike and Models

This tutorial explains how to connect Aprilia RSV 1000 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

Aprilia RSV 1000 is equipped with a CAN communication protocol used to communicate parameters to an external logger. You can connect AiM devices to the ECU through the stock dashboard rear connector or directly.

2.1
Stock Dasboard 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
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-

3
AiM Logger configuration

Once the ECU connected to the logger set up the logger as follows:

Run Race Studio 2 software and follow this path:
- Device Configuration –> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Aprilia" and ECU Model "RSV_1000_04_08"
- transmit the configuration to the device pressing "Transmit".

4
Available channels

Channels received by AiM devices connected to Aprilia RSV 1000 ECU 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 Cooling 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