AiM Infotech

Carmo AFI 2003-2005 ECU

Release 1.01

ECU

This tutorial explains how to connect Carmo AFI 2003-2005 to AiM devices.

1
Bike years and models
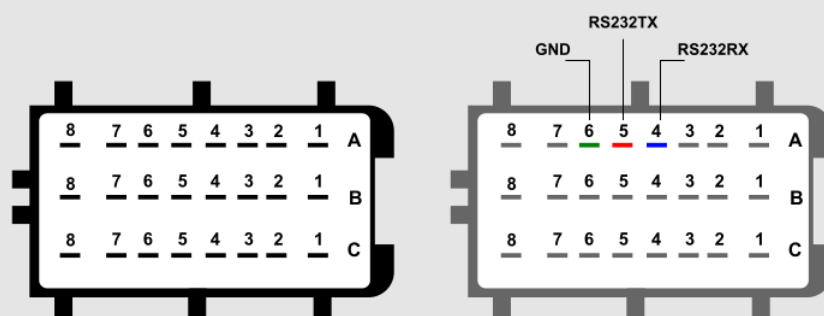
Carmo AFI 2003-2005 can be installed on the following bikes:

- Honda CBR   600 cc   2003-2005
- Kawasaki ZX6R   600 cc   2003-2005
- Suzuki GSX-R600   600 cc   2003-2005
- Yamaha YZ6F   600 cc   2003-2005

Please note: each bike manufacturer has its own set of sensors; ensure that your bike has the stock set of sensors or sampled data can be wrong.

2
Serial communication

Carmo AFI 2003-2005 has two 24 pins male connectors and communicates through the serial protocol on the grey connector. Below you see connectors pinout and connection table.

Carmo grey connector pin	Pin function	AiM cable label
A4	RS232RX	RS232TX
A5	RS232TX	RS232RX
A6	GND	GND

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 "Carmo" and ECU Model "AFI_2003-2005"
- transmit the configuration to the device pressing "Transmit".

4

Available channels

Channels received by AiM devices connected to CARMO 2003-2005 are:

ID	CHANNEL NAME	FUNCTION
ECU_1	CARMO_RPM	RPM
ECU_2	CARMO_THROTTLE	Throttle position sensor
ECU_3	CARMO_AIRTEMP	Intake air temperature
ECU_4	CARMO_WATERTEMP	Engine cooling temperature
ECU_5	CARMO_MANIFPRES	Manifold air pressure
ECU_6	CARMO_BATTERY	Battery voltage