AiM Infotech

Carmo AFI 2003-2005 ECU

Release 1.03

1

Bike years and models

This tutorial explains how to connect Carmo AFI 2003-2005 to AiM **MXL, DaVid, EVO3 Pro/Pista only**. Carmo AFI 2003-2005 can be installed on the following bikes:
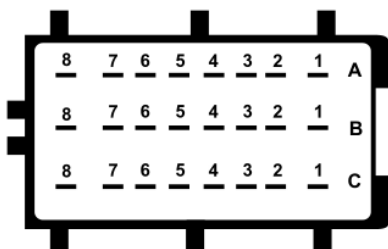
• Honda CBR	600 cc	2003-2005
• Kawasaki ZX6R	600 cc	2003-2005
• Suzuki GSX-R600	600 cc	2003-2005
• Yamaha YZ6F	600 cc	2003-2005

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 is equipped with two front connectors: one black and one grey and features a serial communication protocol on the front grey connector. Below you see connectors pinout and connection table.
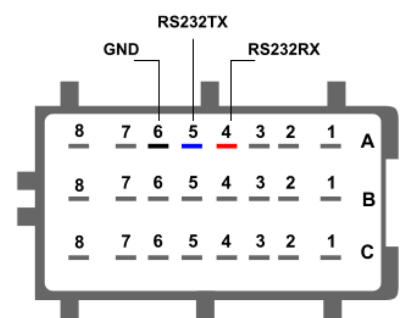

Carmo grey connector pin	Pin function	AiM cable label
A4	RS232RX	RS232TX
A5	RS232TX	RS232RX
A6	GND	GND

3
AiM device configuration

Before connecting the ECU to AiM **MXL, DaVid or EVO3 Pro/Pista** set this up using **Race Studio 2** software. The parameters to select in the device configuration are:

- ECU manufacturer "Carmo"
- ECU Model "AFI_2003-2005"

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