AiM InfoTech

Renault
Clio III Cup

Release 1.00

ECU

1
Models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.
Supported models are:

- Clio III Cup   2007 - 2013

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Wiring Connection

Clio III Cup vehicles are equipped with Marelli SRA ECU that features a bus communication protocol based on CAN and all AiM devices are compatible but the connection changes depending on whether you replace the car original dash or not.

The vehicle stock connection is made using two 8 ways Molex connectors – female to stock dash and male to the ECU, and is shown below.

2.1
Connection with AiM devices replacing the stock dash

If you are connecting an AiM dash logger like "MXL2, MXG 1.2, MXS 1.2 or others that imply stock dash removal you have to disconnect the female Molex connector shown top on the image above and labelled "to stock dash" and connect the bottom male connector labelled "To the ECU" to the AiM dash logger. Here below you see the connection table.

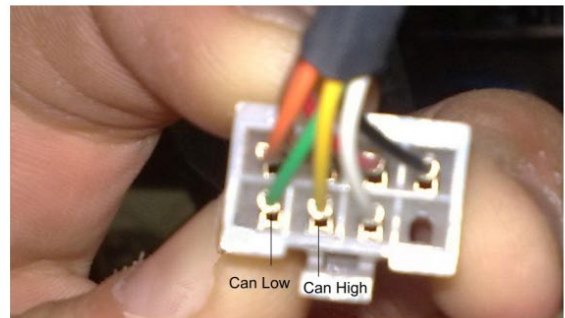| Molex connector cable color	Cable function	AiM cable	AiM color cable
Orange	CAN High	CAN +	White
Yellow	CAN Low	CAN -	Blue

2.2
Connection with AiM devices keeping the stock dash

If you are connecting an AiM logger like EVO4, EVO 4S, EVO5, Solo 2DL or other that does not have a display you have to keep the stock dash. In this case you can decide where to make the connection. If you want to use the male connector labelled "To the ECU" on the image above the connection table is the same used for AiM dash logger. If you prefer to connect the top female connector labelled "To the stock dash" cable colours changes. Here below you see the connector to be used on the left. Its cables on the right and connection table on bottom.

Molex connector cable color	Cable function	AiM cable	AiM color cable
Yellow	CAN High	CAN +	White
Green	CAN Low	CAN -	Blue

3
Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **MARELLI**
- ECU Model: **CLIO III CUP**

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" MARELLI – CLIO III CUP" protocol

Channels received by AiM devices configured with "MARELLI – CLIO III CUP" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
Gear	Gear position
SpeedVeh	Vehicle speed
SpeedFR	Front right wheel speed
SpeedFL	Front left wheel speed
OilPress	Oil pressure
BrakeR	Rear brake pressure
BrakeF	Front brake pressure
TPS	Throttle position sensor
AirTemp	Air temperature
WaterTemp	Water temperature
Battery	Battery voltage
InletPress	Inlet air pressure
BrakeBias	Brake bias
GearSwitch	Gear switch
Fuellevel	Fuel level
GearBarrel	Gear voltage

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.