

AiM Infotech

Marelli SRA for Clio III Cup

Release 1.01



ECU



This tutorial explains how to connect Clio III Cup vehicles to AiM devices.

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Connection to AiM devices

Clio III Cup vehicles are equipped with a 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.



1.1

Connection with AiM device replacing the stock dash

If you are connecting an AiM dash logger like MXL2, MXG, MXS 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.

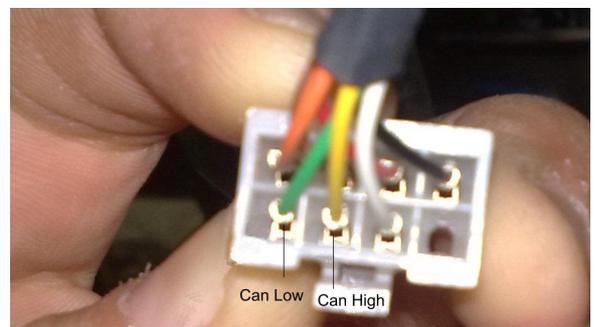
Molex connector cable colour	Cable function	AiM cable
Orange	CAN High	CAN+
Yellow	CAN Low	CAN-

1.2

Connection with AiM device keeping the stock dash

If you are connecting an AiM logger like EVO4, SoloDL 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 colour	Cable function	AiM cable
Yellow	CAN High	CAN+
Green	CAN Low	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:

- select ECU manufacturer "Marelli"
- ECU Model "Clio_III_CUP"

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Available channels

Channels received by AiM devices connected to "Marelli" "CLIO_III_CUP" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	CUP_RPM	RPM
ECU_2	CUP_THROTTLE	Throttle position sensor
ECU_3	CUP_GEAR	Engaged gear
ECU_4	CUP_GEAR_BARR	Gear voltage
ECU_5	CUP_GEAR_SW	Gear switch
ECU_6	CUP_OIL_PRESS	Oil pressure
ECU_7	CUP_WATER_TEMP	Engine coolant temperature
ECU_8	CUP_BATT_VOLT	Battery supply
ECU_9	CUP_INLET_PR	Inlet air pressure
ECU_10	CUP_AIR_TEMP	Intake air temperature
ECU_11	CUP_BRK_PR_R	Rear brake pressure
ECU_12	CUP_BRK_PR_F	Front brake pressure
ECU_13	CUP_BRAKE_BIAS	Brake BIAS
ECU_14	CUP_SPEED	Vehicle speed
ECU_15	CUP_WH_SP_FR	Front right wheel speed
ECU_16	CUP_WH_SP_FL	Front left wheel speed
ECU_17	CUP_FUEL_LIT	Left fuel