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AiM Infotech

Ferrari F430 GT2

Michelotto

2006-2010

Release 1.04



ECU



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This tutorial explains how to connect Ferrari 430 GT2 Michelotto to AiM devices. Supported years are:

- Ferrari 430 GT2 Michelotto 2006-2010

1

CAN connection

Ferrari 430 GT2 Michelotto is equipped with a CAN communication protocol that can be reached in two ways: directly on the vehicle ECU or through Ferrari CAN network.

1.1

Connection through the vehicle ECU

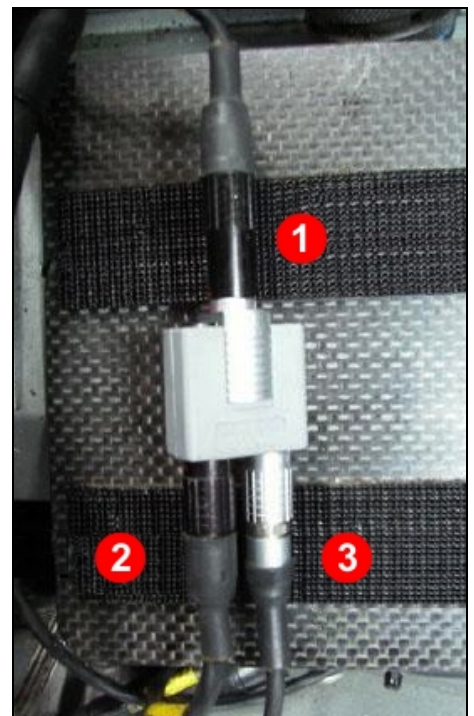
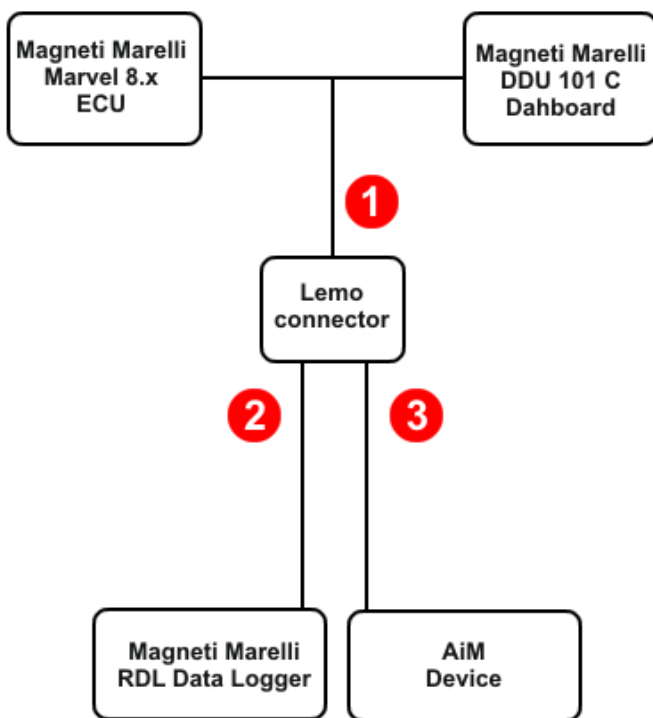
Ferrari 430 GT2 Michelotto has a Marelli Marvel 8.x ECU shown here below on the left. The ECU is equipped with 3 front connectors: yellow, red and blue. The CAN Bus is on the central red connector highlighted below. Below you see the connection table.



Red connector pin	Pin function	AiM cable
33	CAN High	CAN+
41	CAN Low	CAN-

1.2 Connection through the Ferrari CAN network

To connect AiM devices using Ferrari CAN network you need a 3 ports Lemo adapter to plug in following the scheme below on the left. In the image on the right Lemo adapter has been plugged. Below the images the connection scheme.



Pinout of each Lemo adapter port	Pin function	AiM Cable
1	Not connected	-
2	CAN+	CAN+
3	CAN-	CAN-
4	Not connected	-

2

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:

- ECU manufacturer "Ferrari"
- ECU Model "430GT2"

3

Available channels

Channels received by AiM devices connected to Ferrari 430GT2 protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	F430GT2_RPM	RPM
ECU_2	F430GT2_WH_SPD_FL	Front left wheel speed
ECU_3	F430GT2_WH_SPD_FR	Front right wheel speed
ECU_4	F430GT2_WH_SPD_RL	Rear left wheel speed
ECU_5	F430GT2_WH_SPD_RR	Rear right wheel speed
ECU_6	F430GT2_TPS	Throttle position
ECU_7	F430GT2_F_BRK_P	Front brake pressure
ECU_8	F430GT2_R_BRK_P	Rear brake pressure
ECU_9	F430GT2_GEAR	Engaged Gear
ECU_10	F430GT2_STEERING_ANGLE	Steering angle potentiometer
ECU_11	F430GT2_ACC_X	Horizontal accelerometer
ECU_12	F430GT2_ACC_Y	Vertical accelerometer
ECU_13	F430GT2_GYRO	Gyroscope
ECU_14	F430GT2_ECT	Engine coolant temperature
ECU_15	F430GT2_OIL_TEMP	Oil temperature
ECU_16	F430GT2_FUELPRESS	Fuel pressure



ECU_17	F430GT2_OILP_PRESS	Oil pressure
ECU_18	F430GT2_CARTER_P	Carter pressure
ECU_19	F430GT2_LAMBDA_L	Left Lambda value
ECU_20	F430GT2_LAMBDA_R	Right Lambda value
ECU_21	F430GT2_BATTVOLT	Battery supply

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