Ferrari F430 and F430 Scuderia

ECU connection

Racing Data Power

INTRODUCTION

AIM has developed special applications for many of the most common ECUs: by special applications we mean user-friendly systems which allow to easily connect the vehicle ECU to our hi-tech data loggers: user needs only to install harness between the **logger** and the ECU.

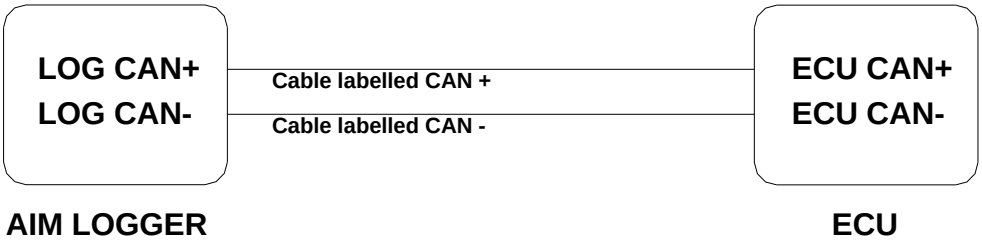
Once connected, the logger displays (and/or records, depending on the model and on the ECU data stream) values like RPM, engine load, pedal position (PPS), oil and engine coolant temperatures, speed, gear, analog channels...

All AIM loggers include – free of charge – **Race Studio 2** software, a powerful tool to configure the system and analyze recorded data on your PC.

Warning: once the ECU is connected to the logger, it is necessary to set it in the logger configuration in Race Studio 2 software.
Select Manufacturer "Ferrari" and Model "430 (ECU Bosch)".
Refer to Race Studio Configuration on user manual for further information concerning the loggers configuration.

Chapter 1 – Models and communication protocol

Ferrari communication protocol is CAN bus; it allows to directly connect the ECU to the logger through OBDII socket, placed on the vehicle.(Refer to “Connection to AIM loggers ” chapter for more details).

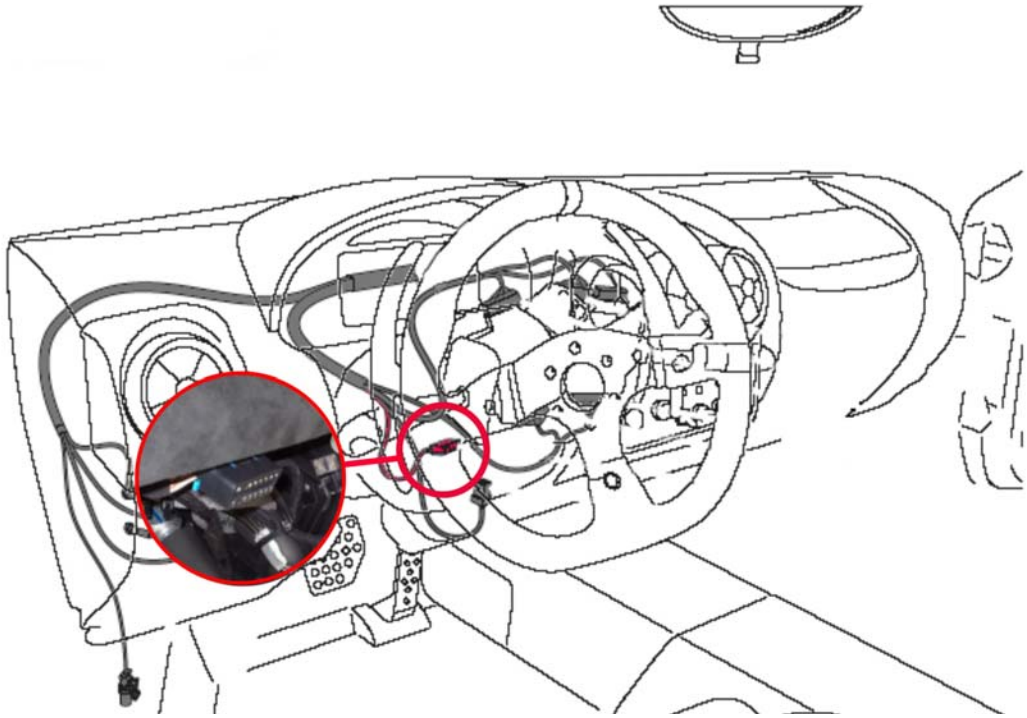


Models tested by AIM are F430 and F430 Scuderia; nevertheless AIM does not exclude the compatibility with other Ferrari models. For further information it is suggested to contact technical support at:

http://www.aim-sportline.com/pages/tech_support/section_tech_support.php

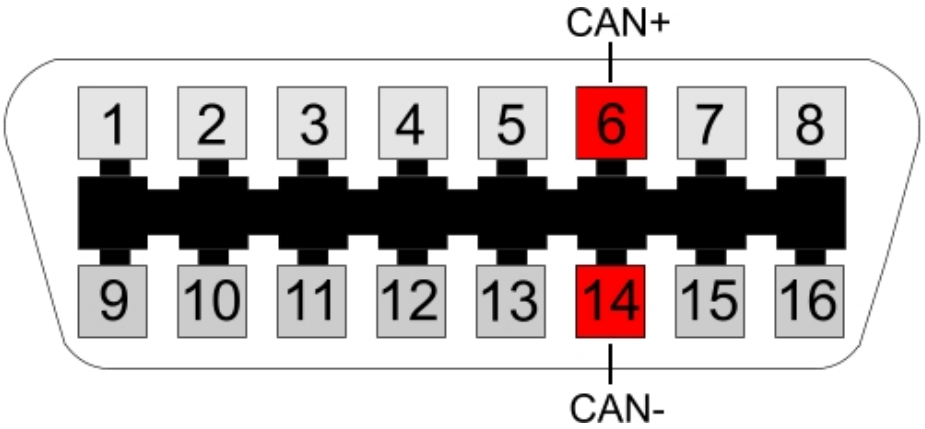
Chapter 2 – Connections to AIM loggers

OBDII connector is placed on the driver's side, on the right of steering column, under the dashboard, as shown below:



To connect **AIM loggers** to **Ferrari** OBDII:

- connect cable labelled CAN+ of AIM loggers+ to pin 6 of OBDII connector;
- connect cable labelled CAN- of AIM loggers – to pin 14 of OBDII connector.



Chapter 3 – Communication protocol

Channels received by **loggers** connected to ECU are:

ID	CHANNEL NAME	FUNCTION
ECU_1	F430_RPM	RPM
ECU_2	F430_WH_SPD_FL	Wheel speed front left
ECU_3	F430_WH_SPD_FR	Wheel speed front right
ECU_4	F430_WH_SPD_RL	Wheel speed rear left
ECU_5	F430_WH_SPD_RR	Wheel speed rear right
ECU_6	F430_VEH_SPEED	Vehicle speed
ECU_7	F430_PPS	Pedal position sensor
ECU_8	F430_GEAR	Gear number
ECU_9	F430_STEER_ANG	Steering angle
ECU_10	F430_BRK_SW	Brake switch
ECU_11	F430_STEER_SPD	Steering speed
ECU_12	F430_ECT	Engine coolant temperature
ECU_13	F430_OILT	Oil temperature