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AiM Infotech

Ferrari

F430 Challenge,

F430 GT3,

F430 GT3 Scuderia

Release 1.04



ECU



VISIT SUPPORT CENTER

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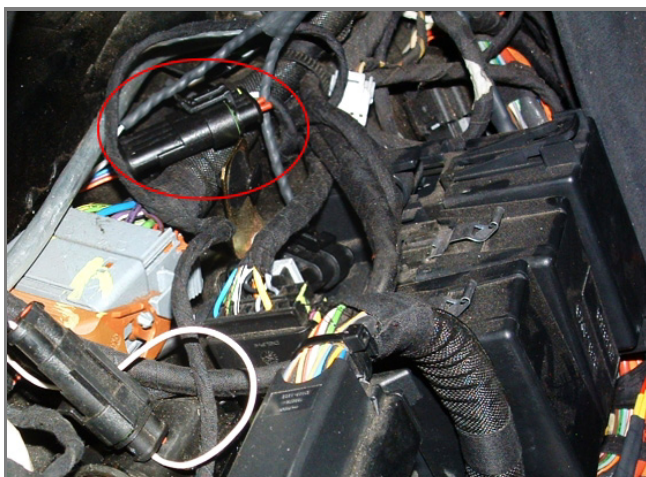
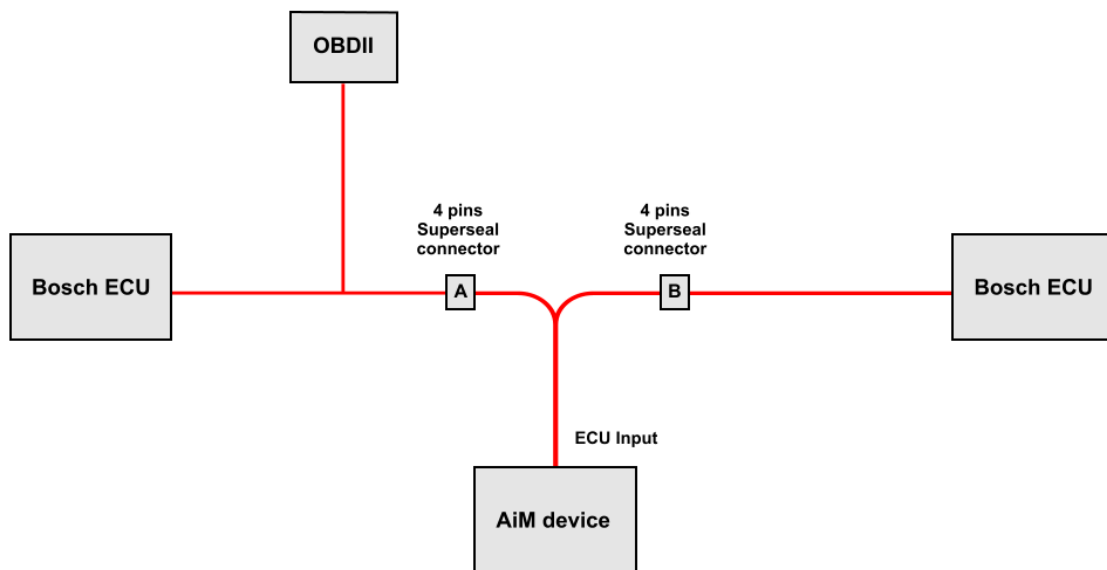
PRODUCT DOCUMENTATION



1.1

CAN F430 (ECU Bosch) connection – recommended

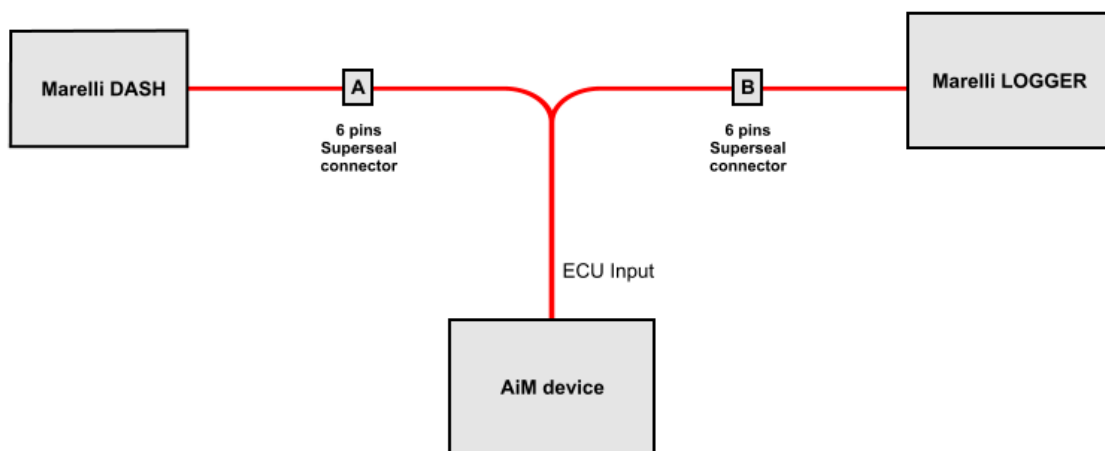
This connection is made using the 4 pins Superseal connectors. Split apart the two connectors and connect AiM device following this scheme. **Please note:** pins numbers are printed on the connector.



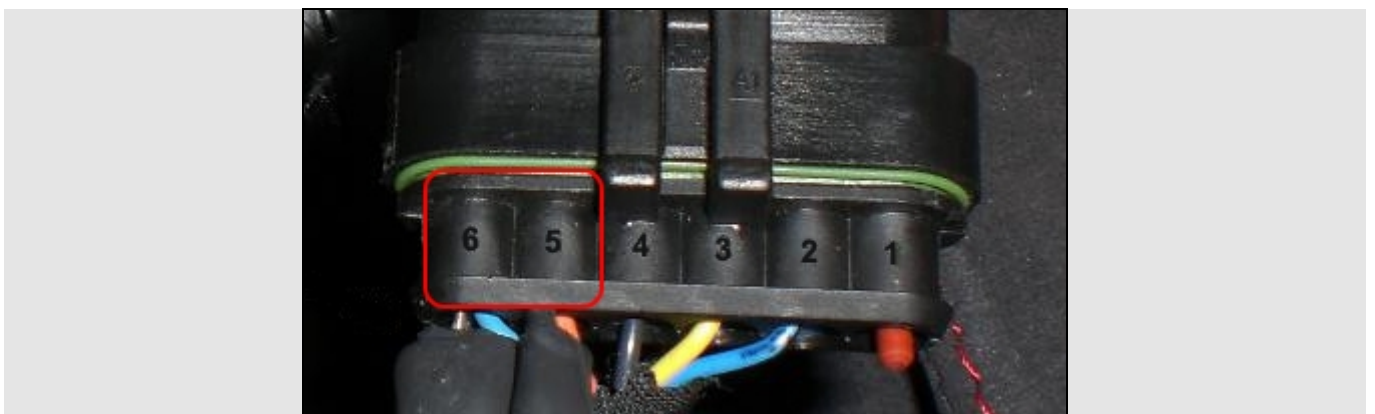
| 4 pins Superseal connector pin | Pin function | AiM cable label |
|--------------------------------|--------------|-----------------|
| 1 | CAN High | CAN+ |
| 2 | CAN Low | CAN- |

1.2 CAN F430C (Marelli DDU) connection

This connection is made using the 6 pins Superseal connectors. Here below is the connection scheme.



Split apart the two 6 pins Superseal connectors and place AiM device between the two connectors; then follow the table below. Pins number are printed on the connector.



| 6 pins Superseal connector pin | Pin function | AiM cable label |
|--------------------------------|--------------|-----------------|
| 6 | CAN High | CAN+ |
| 5 | CAN Low | CAN- |

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" and, according to the CAN line you are using,
- ECU Model
 - "430 (ECU Bosch)" **or**
 - "430C (Marelli DDU);

3

Available channels

Channels received by AiM devices connected to Ferrari F430 Challenge, F430 GT3 and F430 GT3 Scuderia change according to the CAN line you are using.

3.1

CAN F430 (ECU Bosch) available channels

Channels received by AiM devices connected to "Ferrari "430 (ECU Bosch)" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|--------|----------------|----------------------------|
| ECU_1 | F430_RPM | RPM |
| ECU_2 | F430_WH_SPD_FL | Front left wheel speed |
| ECU_3 | F430_WH_SPD_FR | Front right wheel speed |
| ECU_4 | F430_WH_SPD_RL | Rear left wheel speed |
| ECU_5 | F430_WH_SPD_RR | Rear right wheel speed |
| ECU_6 | F430_VEH_SPEED | Vehicle speed |
| ECU_7 | F430_PPS | Pedal position |
| ECU_8 | F430_GEAR | Engaged gear |
| ECU_9 | F430_STEER_ANG | Steering angle |
| ECU_10 | F430_BRK_SW | Brake switch |
| ECU_11 | F430_STEER_SPD | Steering wheel speed |
| ECU_12 | F430_ECT | Engine coolant temperature |
| ECU_13 | F430_OILT | Oil temperature |
| ECU_14 | F430_CST | Traction control selection |

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.

3.2 CAN F430C (Marelli DDU) available channels

Channels received by AIM devices connected to "Ferrari" "430C (Marelli DDU)" are:

| ID | CHANNEL NAME | FUNCTION |
|--------|---------------------|----------------------------|
| ECU_1 | F430C_RPM | RPM |
| ECU_2 | F430C_SPD_FL | Front left wheel speed |
| ECU_3 | F430C_SPD_FR | Front right wheel speed |
| ECU_4 | F430C_SPD_RL | Rear left wheel speed |
| ECU_5 | F430C_SPD_RR | Rear right wheel speed |
| ECU_6 | F430C_TPS | Throttle position |
| ECU_7 | F430C_ECT | Engine coolant temperature |
| ECU_8 | F430C_OILTEMP | Oil temperature |
| ECU_9 | F430C_FUELLEV | Fuel level |
| ECU_10 | F430C_BRAKE | Brake sensor |
| ECU_11 | F430C_GEAR | Engaged gear |
| ECU_12 | F430C_STR_WHEEL_ANG | Steering wheel angle |

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.