AiM Infotech

McLaren 650S from 2014

Release 1.00

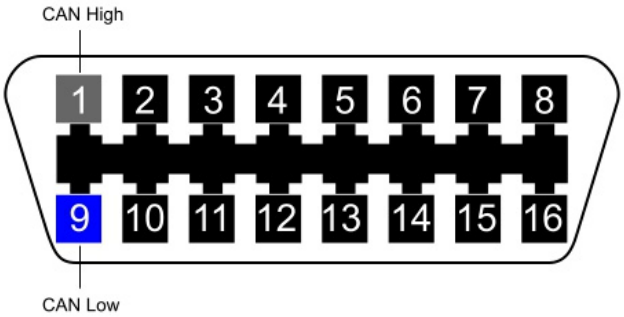
This tutorial explains how to connect McLaren car to AiM devices. Supported model is:

- McLaren 650S from 2014

1
Wiring connections

McLaren 650S features a bus communication protocol based on CAN on the OBDII plug left of the steering column under the dashboard as shown here below.

Connector pinout as well as connection table are shown here below.



OBDII connector pin	Pin function	AiM cable
1	CAN High	CAN+
9	CAN Low	CAN-

Warning: as you can notice CAN pins are not the OBDII standard ones. This means you need to modify AiM OBDII cable following the pinout shown above.

2
AiM device configuration

Before connecting the ECU to AiM logger set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer “MCLAREN”
- ECU Model “650S”;

3
Available channels

Channels received by AiM loggers connected to "MCLAERN" "650S" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_PPS	Pedal position sensor
ECU_3	ECU_TPS1	Throttle position sensor 1
ECU_4	ECU_TPS2	Throttle position sensor 2
ECU_5	ECU_GEAR	Engaged gear
ECU_6	ECU_STR_POS	Steering position
ECU_7	ECU_STR_SPD	Steering speed
ECU_8	ECU_GYRO	Gyroscope
ECU_9	ECU_ACC_LAT	Lateral acceleration
ECU_10	ECU_ACC_LON	Longitudinal acceleration
ECU_11	ECU_BRK_SW	Brake switch
ECU_12	ECU_BRK_P	Brake pressure
ECU_13	ECU_VEH_SPD	Vehicle speed
ECU_14	ECU_ECT	Engine coolant temperature
ECU_15	ECU_WS_FR	Front right wheel speed
ECU_16	ECU_WS_FL	Front left wheel speed
ECU_17	ECU_WS_RR	Rear right wheel speed
ECU_18	ECU_WS_RL	Rear left wheel speed

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.