AiM Infotech

Mercedes E class W212
from 2009 onwards

Release 1.03

This tutorial explains how to connect AiM devices to Mercedes cars.

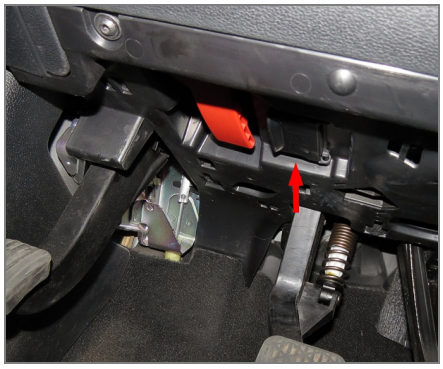
1 Supported models and years

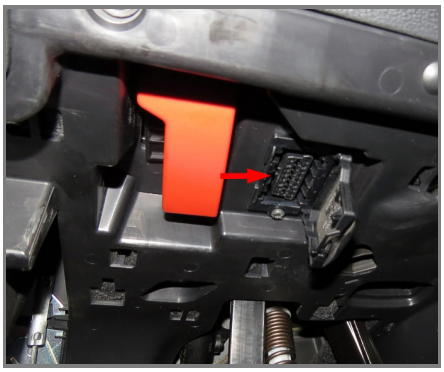
Supported model and years are:

- Mercedes E Class W212 from 2009 onwards

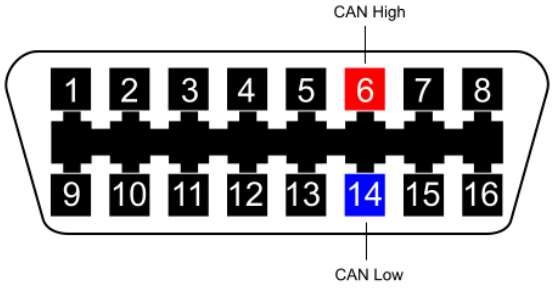
2 Wiring connection

Mercedes E Class W212 features a bus communication protocol based on CAN on the OBDII plug placed on the left of the steering wheel as shown here below.





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



OBDII connector pin	Pin function	AiM cable
6	CAN High	CAN+
14	CAN Low	CAN-

3
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 “Mercedes”
- ECU Model “W212_E250_CGI”;

4
Available channels

Channels received by AiM loggers connected to "Mercedes" "W212_E250_CGI" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	M_RPM	RPM
ECU_2	M_PPS	Pedal position
ECU_3	M_PPS_RAW	Pedal position in percentage
ECU_4	M_ECT	Engine coolant temperature
ECU_5	M_IAT	Intake air temperature
ECU_6	M_OILT	Oil temperature
ECU_7	M_OIL_LEV_mm	Oil level in mm
ECU_8	M_FUEL_CONS	Fuel consumption
ECU_9	M_OUT_AIRPRESS	Outside air pressure
ECU_10	M_E_ACT_TRQ	Actual static engine torque
ECU_11	M_E_TRQ_MAXETC	Actual max. engine torque including dynamic exhaust
ECU_12	M_E_TRQ_MINTTC	Actual min. engine torque including trolling throttle
ECU_14	M_ENG_EFFCY	Actual engine efficiency
ECU_15	M_FUELPRESS_RQ	Fuel pressure request
ECU_16	M_FUELPRESS	Fuel pressure
ECU_17	M_FUEL_PUMP_DY	Actual fuel pump duty cycle
ECU_18	M_FUEL_PMP_IDY	Actual fuel pump1 In duty cycle

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.