

AiM Infotech

Mercedes C63 AMG

Release 1.03



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

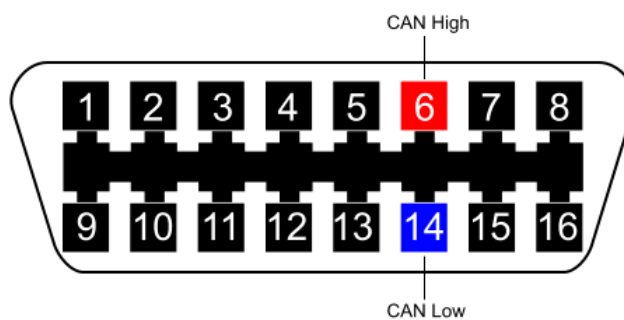
1 Supported model and years

Supported model and years are:

- C63 AMG from 2011 onwards.

2 Wiring connection

Mercedes C63 AMG features a bus communication protocol on the OBDII; this can be on the steering column, in the central column, on the pedal area or on the left of the steering wheel. **Please note:** according to the international rules the OBDII plug is to be in a 60 cm distance area from the steering column. Connector pinout as well as connection table are shown here:



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

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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 "C63_AMG";

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Available channels

Channels received by AiM loggers connected to "Mercedes" "C63_AMG" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|-----------|---------------------|----------------------------|
| ECU_1 | C63_RPM | RPM |
| ECU_2 | C63_WH_SP_FR | Front right wheel speed |
| ECU_3 | C63_WH_SP_FL | Front left wheel speed |
| ECU_4 | C63_WH_SP_RR | Rear right wheel speed |
| ECU_5 | C63_WH_SP_RL | Rear left wheel speed |
| ECU_6 | C63_PPS1 | Pedal position sensor 1 |
| ECU_7 | C63_PPS2 | Pedal position sensor 2 |
| ECU_8 | C63_TPS | Throttle position sensor |
| ECU_9 | C63_KICKDOWN | Gear kick down |
| ECU_10 | C63_ECT | Engine coolant temperature |
| ECU_11 | C63_IAT | Intake air temperature |
| ECU_12 | C63_OILT | Oil temperature |
| ECU_13 | C63_OUT_AIRPRESS | Air pressure |
| ECU_14 | C63_STEER_ANG | Steering angle |
| ECU_15 | C63_STEER_SPD | Steering speed |
| ECU_16 | C63_BRAKE_POS | Brake position sensor |



| | | |
|--------|----------------|----------------------------|
| ECU_17 | C63_MAP | Manifold air pressure |
| ECU_18 | C63_FUEL_LEVEL | Fuel level |
| ECU_20 | C63_VEH_SPEED | Vehicle speed |
| ECU_23 | C63_GYRO | Vehicle angular yaw speed |
| ECU_24 | C63_LONG | Longitudinal accelerometer |
| ECU_25 | C63_LAT | Lateral accelerometer |

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.