

AiM Infotech

Mercedes SLK R171
2004-2011

Release 1.01



ECU



This tutorial explains how to connect Mercedes cars AiM devices.

1

Supported model and years

Supported model and years are:

- Mercedes SLK R171 2004-2011

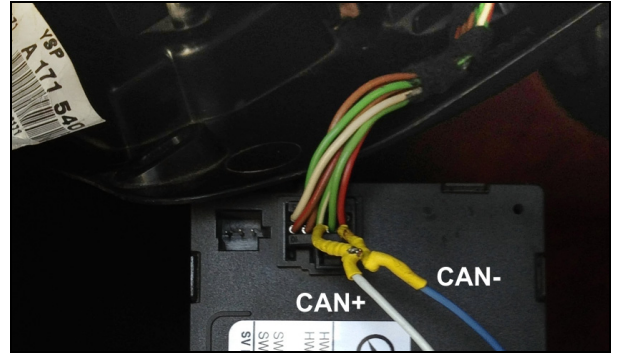
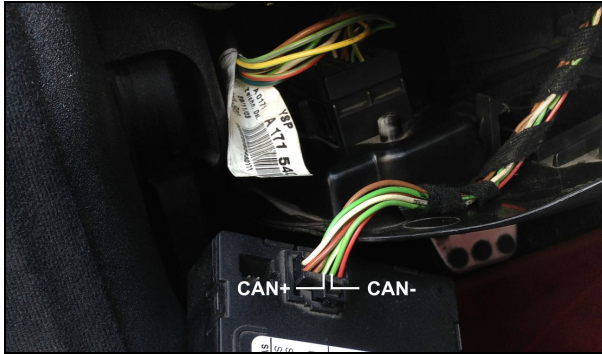
2

Wiring connection

Mercedes SLK R171 features a bus communication protocol based on CAN on the A 171 540 35 45 gateway left on the driver side.



Below you see the gateway not connected with visible cables as well as an example of connection and the connection table.



Gateway connector pin	Cable colour	Pin function	AiM cable
9	Green/white	CAN High	CAN+
7	Green	CAN Low	CAN-

3

AiM Logger configuration

Before connecting the logger to the ECU, set it up as follows:

Run Race Studio 2 software and select:

- Device Configuration –> Select the device you are using;
- select the configuration or press “New” to create a new one;
- select ECU manufacturer “Mercedes” and ECU Model “SLK”
- transmit the configuration to the device pressing “Transmit”.

4

Available channels

Channels received by AiM devices connected to Mercedes SLK protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_ENGINE_TMP	Engine temperature
ECU_3	ECU_CLUTCH_SW	Clutch switch
ECU_4	ECU_PEDAL_POS	Pedal position
ECU_5	ECU_KICK_DOWN	Kick down
ECU_6	ECU_BRAKE_PRES	Brake pressure
ECU_7	ECU_BRAKE_SW	Brake switch
ECU_8	ECU_VEH_SPEED	Vehicle speed
ECU_9	ECU_WHE_SP_FR	Front right wheel speed
ECU_10	ECU_WHE_SP_FL	Front left wheel speed
ECU_11	ECU_WHE_SP_RR	Rear right wheel speed
ECU_12	ECU_WHE_SP_RL	Rear left wheel speed
ECU_13	ECU_MAN_AIR_PR	Manifold air pressure
ECU_14	ECU_STEER_ANG	Steering angle
ECU_15	ECU_CLC_RPMx10	Calculated RPM x 10
ECU_16	ECU_LIGHT	Low Beam
ECU_17	ECU_ODOMETER	Odometer

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.