AiM Infotech

AUDI A4, A5, R8

Release 1.02

ECU

AiM

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Car models and years

This tutorial explains how to connect AUDI cars to AiM devices. Supported car models and years are:

- Audi A4   4th series   from 2008
- Audi A5   from 2007
- Audi R8   from 2008

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CAN bus connection

Audi cars feature a data communication bus based on CAN. Connection cables can be in different positions: behind the instrument cluster, near the steering column, behind the fuse box or the glove box inside the main wiring loom. The CAN to be used is "CAN drive". Regardless of the stock ECU installed on your car, colours of the twisted cables to connect to AiM devices are indicated below.

Pin function	Audi ECU cable colour	AIM cable label
CAN High	Orange/Light blue **or** Orange/Black	CAN+
CAN Low	Orange/Brown	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 "Audi"
- ECU Model "Group_2008"

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Available channels

Channels received by AiM devices connected to Audi "Group_2008" protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_VEH_SPD	Vehicle speed
ECU_3	ECU_SPD_FL	Front left wheel speed
ECU_4	ECU_SPD_FR	Front right wheel speed
ECU_5	ECU_SPD_RL	Rear left wheel speed
ECU_6	ECU_SPD_RR	Rear right wheel speed
ECU_7	ECU_PPS	Pedal position sensor
ECU_8	ECU_BRK_SW	Brake switch
ECU_9	ECU_BRK_PRES	Brake pressure
ECU_10	ECU_STEER_POS	Steering position sensor
ECU_11	ECU_STEER_SPD	Steering speed
ECU_12	ECU_GEAR	Engaged gear
ECU_13	ECU_ENG_T	Engine temperature
ECU_14	ECU_INT_AIR_T	Intake air temperature
ECU_15	ECU_MAN_AIR_P	Manifold air pressure
ECU_16	ECU_ACC_LAT	Lateral acceleration
ECU_17	ECU_MODE_TYP	ECU mode type
ECU_18	ECU_GEAR_INFO	Gear info

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.