SEAT ECUS for

Leon 2000 cc

Racing Data Power

INTRODUCTION

AIM has developed special applications for many of the most common ECUs: by special applications we mean user-friendly systems which allow to easily connect your ECU to our high tech data loggers: user needs only to install harness between the **logger** and the ECU.

Once connected, the logger displays (and/or records, depending on the logger and on the ECU data stream) values like RPM, engine load, throttle position (TPS), air and water temperatures, battery voltage, speed, gear, lambda value (air/fuel ratio) analog channels…

All AIM loggers include – free of charge – **Race Studio 2** software, a powerful tool to configure the system and analyze recorded data on your PC.

Warning: once the ECU is connected to the logger, it is necessary to set it in the logger configuration in Race Studio 2 software.
Select Manufacturer "Bosch" and Model "Audi".
Refer to Race Studio Configuration user manual for further information concerning the loggers configuration.

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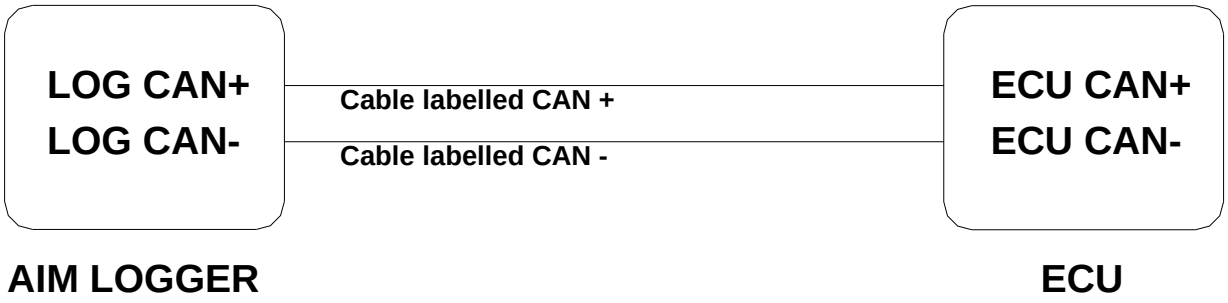
Chapter 1 – Car Models

Bosch MED 9.1 ECU is installed as stock one on the following car models:

- Seat Leon 2000 16V TFSI 185 CV
- Seat Leon 2000 16V TFSI 200 CV
- Seat Leon 2000 16V TFSI 240 CV

Chapter 2 – CAN communication Setup

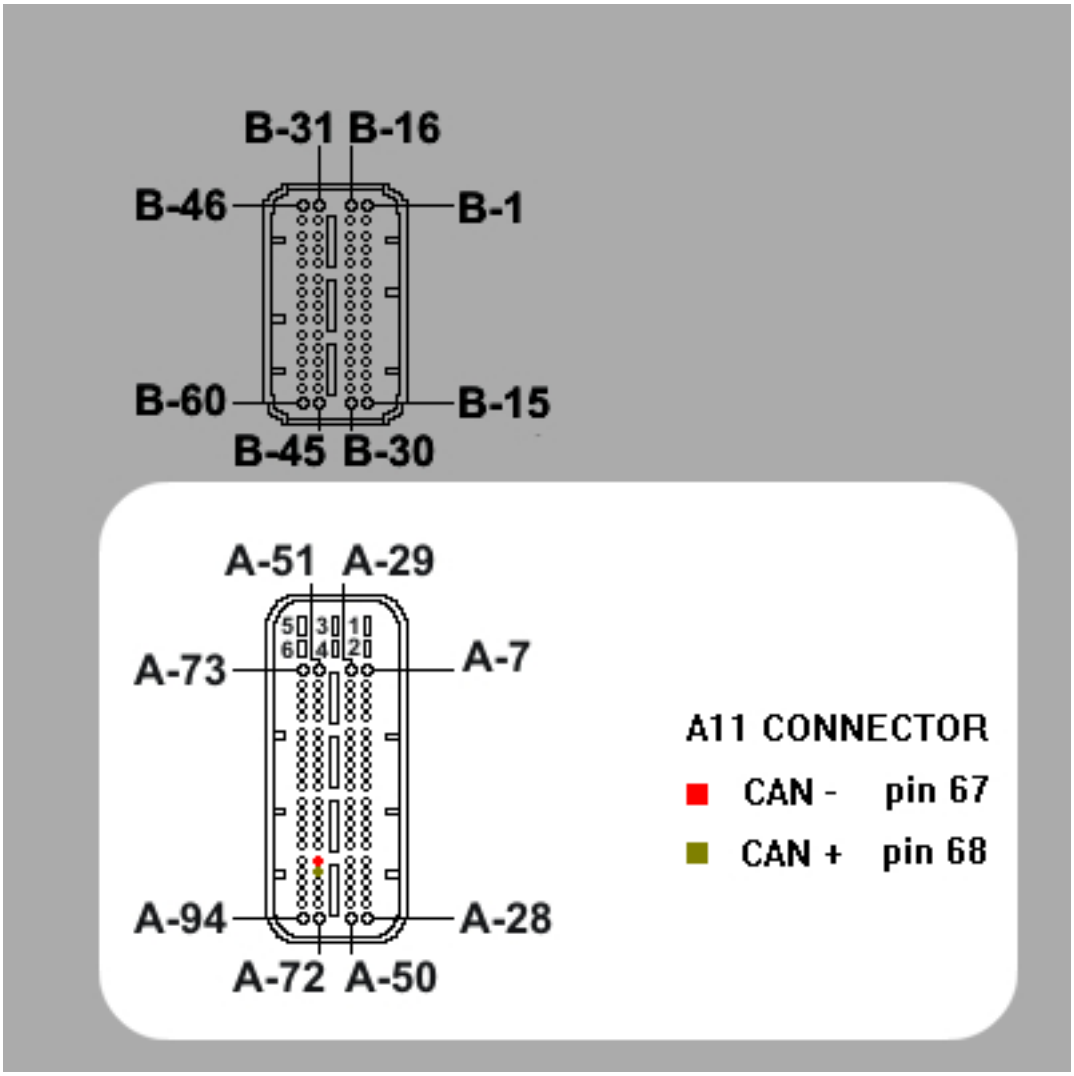
Bosch MED 9.1 ECU is equipped with a CAN communication protocol used to communicate parameters to a data logger and has a 94 pins connector named “A11” used to communicate with an external logger.
The image here below shows the standard CAN communication setup.



Chapter 3 – Connection with AIM loggers

To connect Bosch MED 9.1 ECU to AIM loggers use the “A11” male connector highlighted here below and:

- connect pin 68 of “A11” connector to AIM cable labelled CAN+
- connect pin 67 of “A11” connector to AIM cable labelled CAN-



Chapter 4 – Bosch MED 9.1 communication protocol

Channels received by AIM loggers connected to Bosch MED 9.1 ECU are:

ID	CHANNEL NAME	FUNCTION
ECU_1	SEAT_RPM	RPM
ECU_2	SEAT_SPEED1	Speed
ECU_3	SEAT_WATERTEMP	Water temperature
ECU_4	SEAT_ENGINEMOMENT	Engine Torque
ECU_5	SEAT_AIRTEMP	Manifold Air Temperature
ECU_6	SEAT_GASPERC	Pedal position sensor
ECU_7	SEAT_BRAKEPRESS	Brake pressure sensor
ECU_8	SEAT_SPEED2	Speed 2
ECU_9	SEAT_SPEEDDASH	Speed
ECU_10	SEAT_ACCLAT	Lateral acceleration
ECU_11	SEAT_STEERMOMENT	Steering Torque
ECU_12	SEAT_ATMTEMP	Atmospheric Temperature
ECU_13	SEAT_OILTEMP	Oil Temperature
ECU_14	SEAT_FRLF_SPEED	Front Left Speed sensor
ECU_15	SEAT_FRRG_SPEED	Front Right Speed sensor
ECU_16	SEAT_RRLF_SPEED	Rear Left Speed sensor
ECU_17	SEAT_RRRG_SPEED	Rear Right Speed Sensor
ECU_18	SEAT_YAWRATE	Gyroscope
ECU_19	SEAT_STEERSPEED	Steering speed
ECU_20	SEAT_STEERANGLE	Steering angle
ECU_21	SEAT_BRAKE	Brake sensor
ECU_22	SEAT_FUEL	Fuel sensor
ECU_23	SEAT_GEAR	Engaged gear
ECU_24	SEAT_ENGOILT	Engine oil temperature
ECU_25	SEAT_TPS	Throttle position sensor
ECU_26	SEAT_CLUTCH	Switch Clutch
ECU_27	SEAT_BOOST_PRESS	Boost pressure
ECU_28	SEAT_ENGINE_MOMENT	Engine torque
ECU_29	SEAT_SHIFTING_ACTIVE	Shifting in progress
ECU_30	SEAT_TIP_TRONIK_DW	Tiptronic down
ECU_31	SEAT_TIP_TRONIK_UP	Tiptronic down
ECU_32	SEAT_SIN_NAM	
ECU_33	SEAT_SIN_NEW1	
ECU_34	SEAT_SIN_NEW2	
ECU_35	SEAT_SIN_NAB	
ECU_36	SEAT_SIP_PK1	
ECU_37	SEAT_SIP_PK2	