Seat ECU for

Leon Long Race

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 "Seat_Leon_LR".
Refer to Race Studio Configuration user manual for further information concerning the loggers configuration.

Warning: it is strongly recommended to always verify whether the ECU needs specific software settings to export data.

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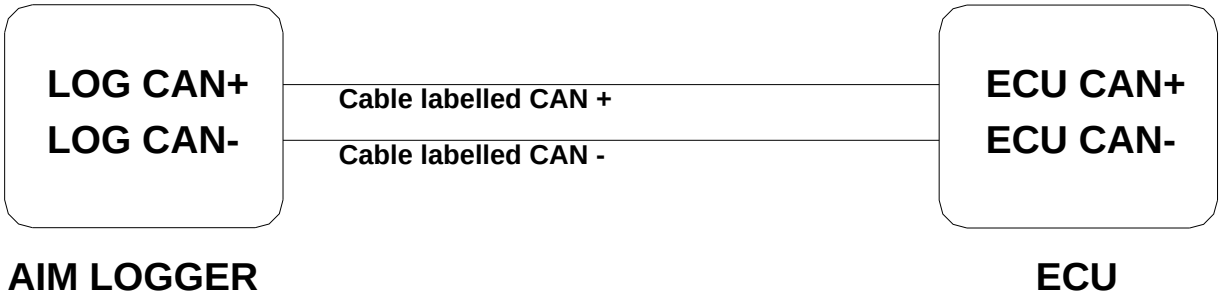
Chapter 1 – Car Models

Bosch MED 9.1 ECU can be installed on Seat Leon Long Race.

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.

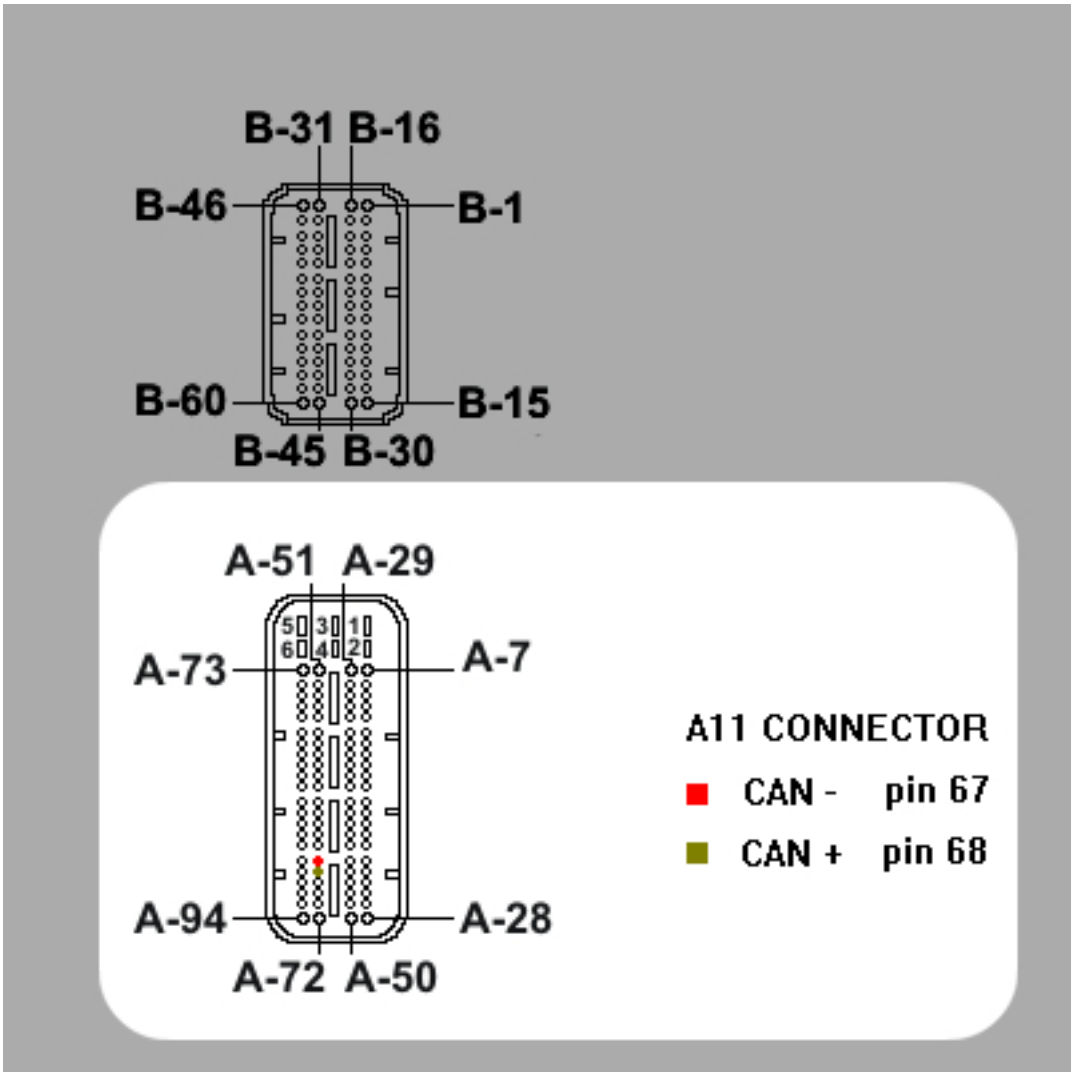
The image here below shows the standard CAN communication setup.



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 – Seat Leon Long Race communication protocol

Channels received by AIM loggers connected to Bosch MED 9.1 ECU for Seat Leon Long Race are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	FOOT_THROTTLE	Throttle request
ECU_3	THROTTLE	Throttle position sensor
ECU_4	SPEED_FL	Front left steering wheel
ECU_5	SPEED_FR	Front right steering wheel
ECU_6	SPEED_RL	Rear left wheel speed
ECU_7	SPEED_RR	Rear right wheel speed
ECU_8	WATER_TEMP	Engine cooling temperature
ECU_9	AIR_TEMP	Intake air temperature
ECU_10	TURBO_PRESS	Turbo pressure
ECU_11	TURBO_PRESS_HF	Turbo pressure
ECU_12	TURBO_PRESS_LF	Turbo pressure
ECU_13	BOOST_PRESS	Turbo pressure
ECU_14	FUEL_PRESS_L	Low fuel pressure
ECU_15	FUEL_PRESS_H	High fuel pressure
ECU_16	LAMBDA	Lambda Value
ECU_17	AIRFLOW	Air Flow
ECU_18	STATUS	Not Available
ECU_19	GEAR	Gear Value
ECU_20	GEAR_BOX_TEMP	Gear Box Temperature
ECU_21	AUX_VALUE	Auxiliary Value
ECU_22	POTI_GEARBOX	Gearbox Volt Value
ECU_23	TEMP_GEARBOX	Gearbox temperature