SEAT ECU for

Ibiza Leon (1800 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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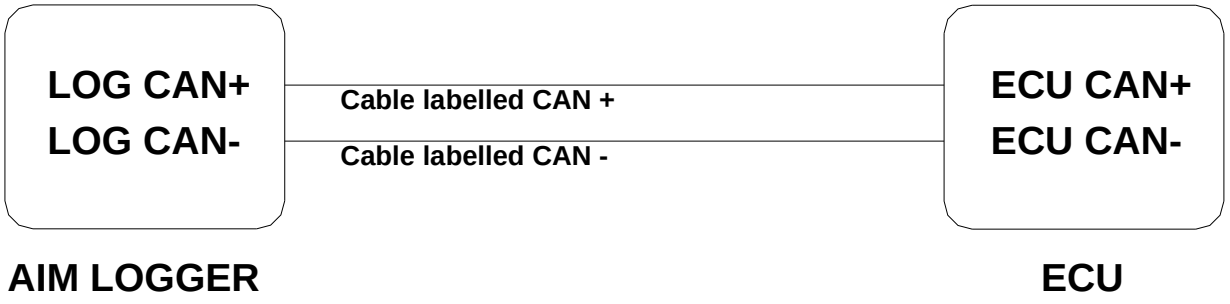
Chapter 1 – Car Models

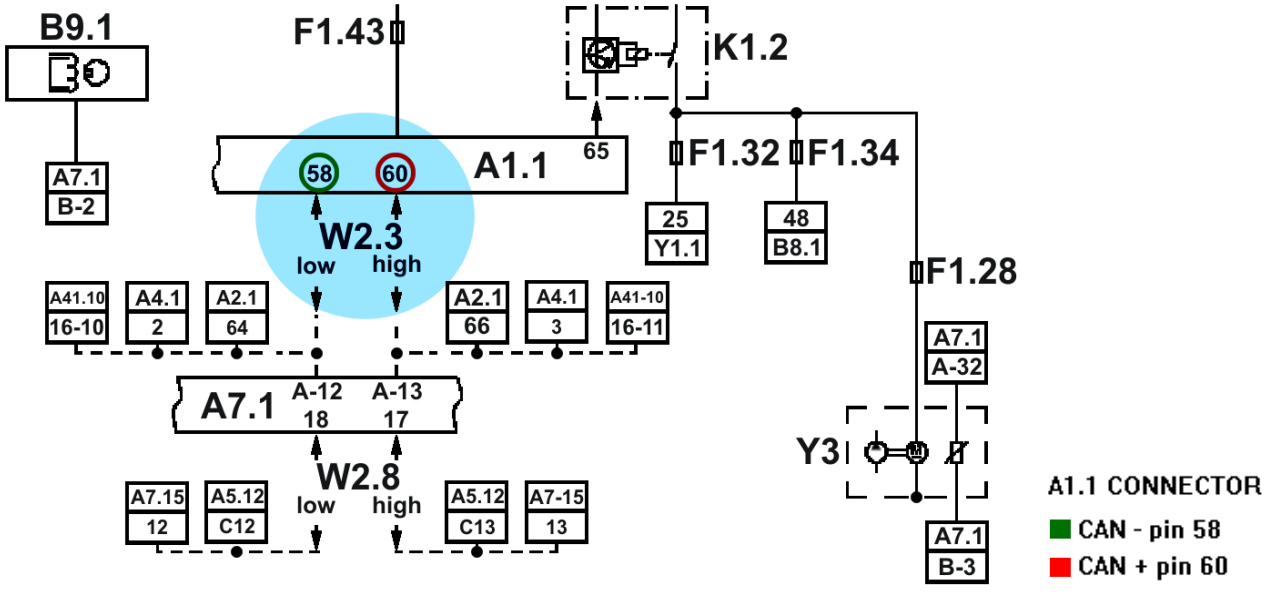
Bosch ME 7.5.1 ECU is installed as stock one on the following car models:

- Seat Ibiza 1800 20V Turbo 150 CV
- Seat Ibiza 1800 20V Turbo 180 CV
- Seat Leon 1800 20V 125 CV

Chapter 2 – CAN communication Setup

Bosch ME 7.5.1 ECU is equipped with a CAN communication protocol used to communicate parameters to a data logger and has “A1.1” connector used to communicate with an external logger.
The images here below show the standard CAN communication setup on top and the ECU wiring diagram on bottom. In this second image is highlighted “CAN” connection and are indicated the pins to connect to AIM wiring.





Chapter 3 – Connection with AIM loggers

To connect Bosch ME 7.5.1 ECU to AIM loggers use the “A1.1” male connector and:

- connect pin 60 of A1.1 connector to AIM cable labelled CAN+
- connect pin 58 of A1.1 connector to AIM cable labelled CAN-.

Chapter 4 – Bosch ME 7.5.1 communication protocol

Channels received by AIM loggers connected to Bosch ME 7.5.1 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	