

Bosch 7.8.1. ECU for Porsche 987 Boxster and Cayman



*For more details concerning the car models refer to "Car Models" chapter

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 “997_GT3”.

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

Warning: for any further information concerning ECU firmware/software settings and/or upgrading it is always recommended to address to the ECU dealer.

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Chapter 1 – Car Models

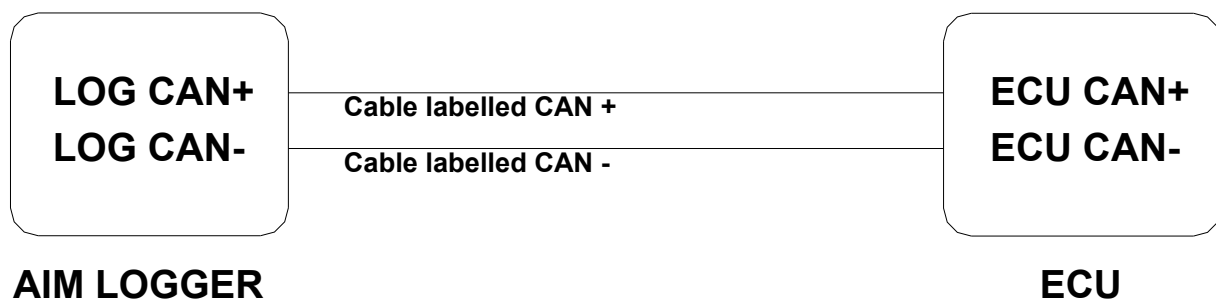
Bosch 7.8.1. ECU is installed as a stock on the following car models:

- Cayman (987) MK1
- Cayman S (987) MK1
- Boxster (987) MK1
- Boxster S (987) MK1
- Cayman (987) MK2
- Boxster (987) MK2

Chapter 2 – CAN communication Setup

Bosch 7.8.1. ECU is equipped with a CAN communication protocol used to communicate parameters to a data logger.

The CAN bus communication is available connecting the ECU to AIM loggers.



Chapter 3 – Connection with AIM loggers

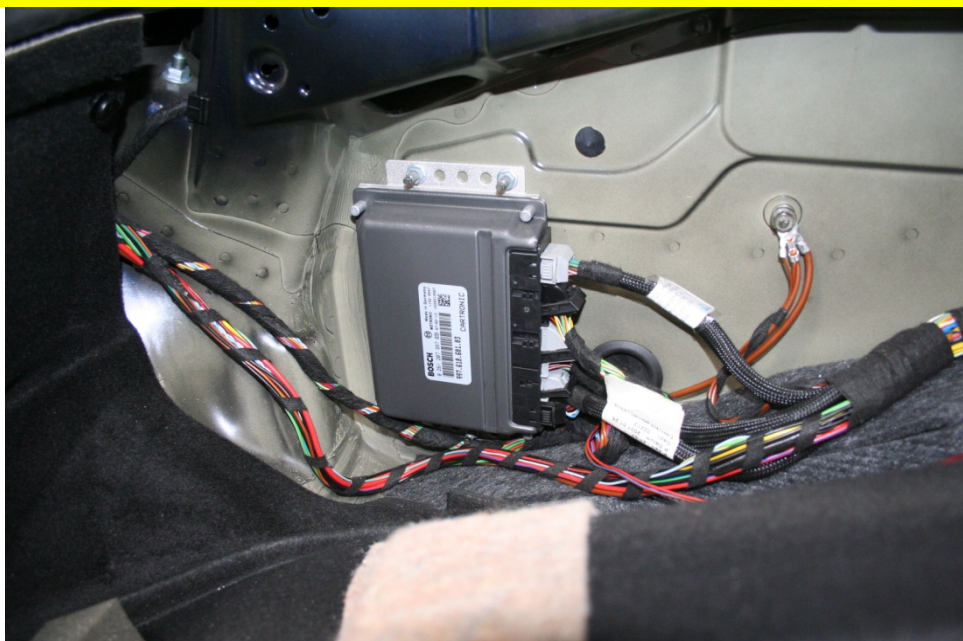
The ECU communicates with external logger using a 40 pins black connector - (see below).



To connect AIM logger to Bosch 7.8.1. ECU connector, please connect cable labelled CAN+ of the logger with the yellow/white cable (pin 36) – of the ECU connector, and cable labelled CAN - with the black/white (pin 37) cable of the ECU connector.

Pin Number	Cables colour	Function
36	Yellow / White	Connect to AIM cable labelled CAN+
37	Black / White	Connect to AIM cable labelled CAN-

Note: ECU is situated in the boot (on the left), under the cover– see below.



Chapter 4 – Porsche 997_GT3 communication protocol.

Channels received by AIM loggers connected to Porsche Cayman and Boxster – Bosch 7.8.1 ECU – are:

ID	CHANNEL NAME	FUNCTION
ECU_1	BOSCH_RPM	RPM
ECU_2	BOSCH_TPS	Throttle Position Sensor
ECU_3	BOSCH_PPS	Pedal position sensor
ECU_4	BOSCH_WH_SPD_FL	Front Left wheel speed
ECU_5	BOSCH_WH_SPD_FR	Front Right wheel speed
ECU_6	BOSCH_WH_SPD_RL	Rear Left wheel speed
ECU_7	BOSCH_WH_SPD_RR	Rear right wheel speed
ECU_8	BOSCH_BOOST_P	Boost pressure
ECU_9	BOSCH_ECT	Water temperature
ECU_10	BOSCH_OIL_T	Oil temperature
ECU_11	BOSCH_OIL_P	Oil pressure
ECU_12	BOSCH_STEERANGLE	Steering angle
ECU_13	BOSCH_STEERSPEED	Steering speed
ECU_14	BOSCH_BRAKE_SW	Brake switch
ECU_15	BOSCH_GEAR	Engaged gear
ECU_16	BOSCH_FUEL_LEV	Fuel level