AiM Infotech

Bosch MS3 for
Porsche 997 GT3 Cup, 997 GT3 CupS,
996 GT3 Cup (2002 – 2005)

Release 1.01

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 "MS3".
Refer to Race Studio Configuration user manual for further information concerning the loggers configuration.
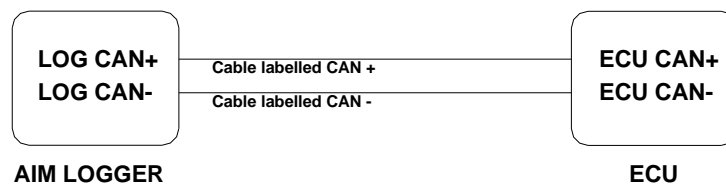
1 – Car Models

Bosch MS3 ECU is installed as a stock on the following car models:

- 997 GT3 Cup
- 997 GT3 Cup S
- 996 GT3 Cup (2002/2005)

2 – CAN communication Setup

Bosch MS3 ECU is equipped with a CAN communication protocol used to communicate parameters to a data logger. Here below the scheme connection:

3 – Connection to AIM loggers

There are 2 ways to connect AIM loggers to Porsche Cup cars; the first one is through the 5 pins Deutsch connector placed near the ECU. This connector is mounted as stock and is very easy to reach. Alternatively, sometimes the car has got a 22 pins Deutsch connector, which is not fitted as standard in all Porsche Cup models. This connector is placed near the dash.
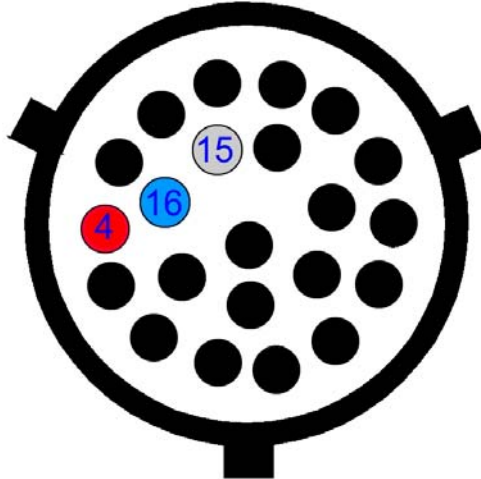
5 pins Deutsch connector connection

The 5 pins Deutsch connector is placed near the ECU behind the front seat.

Follow these instructions to connect the cables:

- connect cable labelled CAN+ of AIM logger to pin 4 of Deutsch connector;
- connect cable labelled CAN- of AIM logger to pin 5 of Deutsch connector.

22 pins Deutsch connector connection

The 22 pins Deutsch female connector (part number 3759339) is placed on passengers side near A-pillar.

Follow these instructions to connect the cables:
- connect cable labelled CAN+ of AIM logger to pin 4 of Deutsch connector;
- connect cable labelled CAN- of AIM logger to pin 16 of Deutsch connector.

Note: in order to take power directly from Deutsch connector, please use pin 15.

4 – Communication protocol

Channels received by AIM loggers connected to Porsche 997 GT3 Cup, 997 GT3 Cup S, 996 GT3 Cup (2002/2005) Bosch MS3 ECU are:

ID	CHANNEL NAME	FUNCTION
ECU_1	BOSCH_RPM	RPM
ECU_2	BOSCH_SPEED1	Speed1
ECU_3	BOSCH_SPEED2	Speed2
ECU_4	BOSCH_OIL_PRESS	Oil Pressure
ECU_5	BOSCH_FUEL_PRESS	Fuel Pressure
ECU_6	BOSCH_ATM_PRESS	Atmospheric Pressure
ECU_7	BOSCH_FUEL_TEMP	Fuel Temperature
ECU_8	BOSCH_OIL_TEMP	Oil_ Temperature
ECU_9	BOSCH_ENGINE_TEMP	Engine Temperature
ECU_10	BOSCH_AIR_TEMP	Air Temperature
ECU_11	BOSCH_THROTT_ANG	Throttle Angle
ECU_12	BOSCH_IGNIT_ANG	Ignition Angle
ECU_13	BOSCH_AIR_CHARGE	Engine load
ECU_14	BOSCH_INJEC_TIME1	Injection time 1
ECU_15	BOSCH_INJEC_TIME2	Injection time 2
ECU_16	BOSCH_LAMBDA1	Lambda Value 1
ECU_17	BOSCH_LAMBDA_2	Lambda Value 2
ECU_18	BOSCH_LAM_CONTR1	Lambda Controller 1
ECU_19	BOSCH_LAM_CONTR2	Lambda controller 2
ECU_20	BOSCH_FUEL_USED	Injected Fuel
ECU_22	BOSCH_GEAR	Gear Number
ECU_23	BOSCH_VBATT	Battery Voltage