AiM Infotech

Porsche 911-991

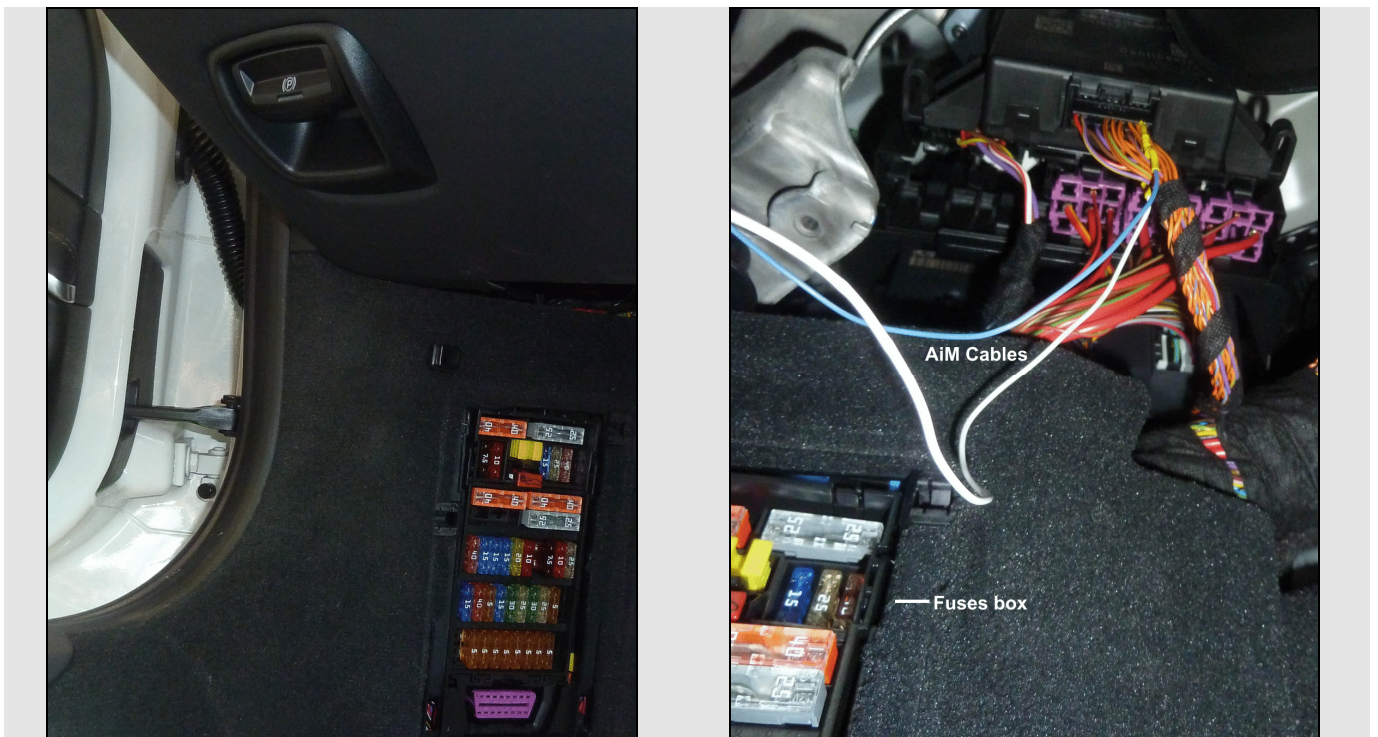Release 1.00

1
Car models and years

This tutorial describes how to connect AiM devices to Porsche 911 (991), Porsche Boxster and Porsche Cayman. Supported car models and years are:

- Porsche 911 (991) Carrera   2012 onwards
- Porsche 911 (991) Carrera S   2012 onwards
- Porsche 911 (991) Carrera 4   2013 onwards
- Porsche 911 (991) Carrera 4S   2013 onwards

- Porsche Boxster (981)   2012 onwards
- Porsche Boxster S (981)   2012 onwards

- Porsche Cayman (981)   2013 onwards
- Porsche Cayman S (981)   2013 onwards
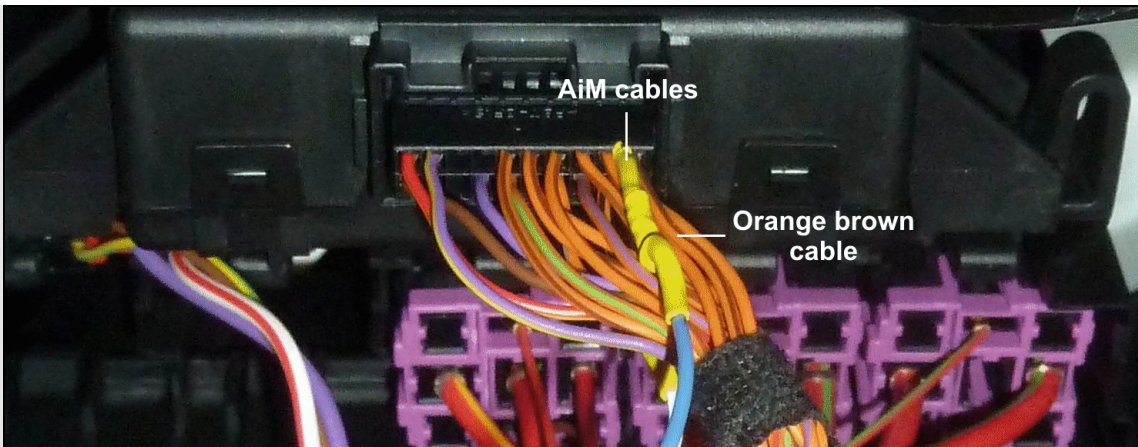
2
CAN bus connection

To connect AiM device to the car use the Gateway connector placed on the left side of the car under the steering wheel over the fuse box. Images here below show, on the left the fuse box and on the right the Gateway connector. Please note: in the image on the right AiM device is already connected to the car through the light blue (CAN-) and white (CAN+) cables.
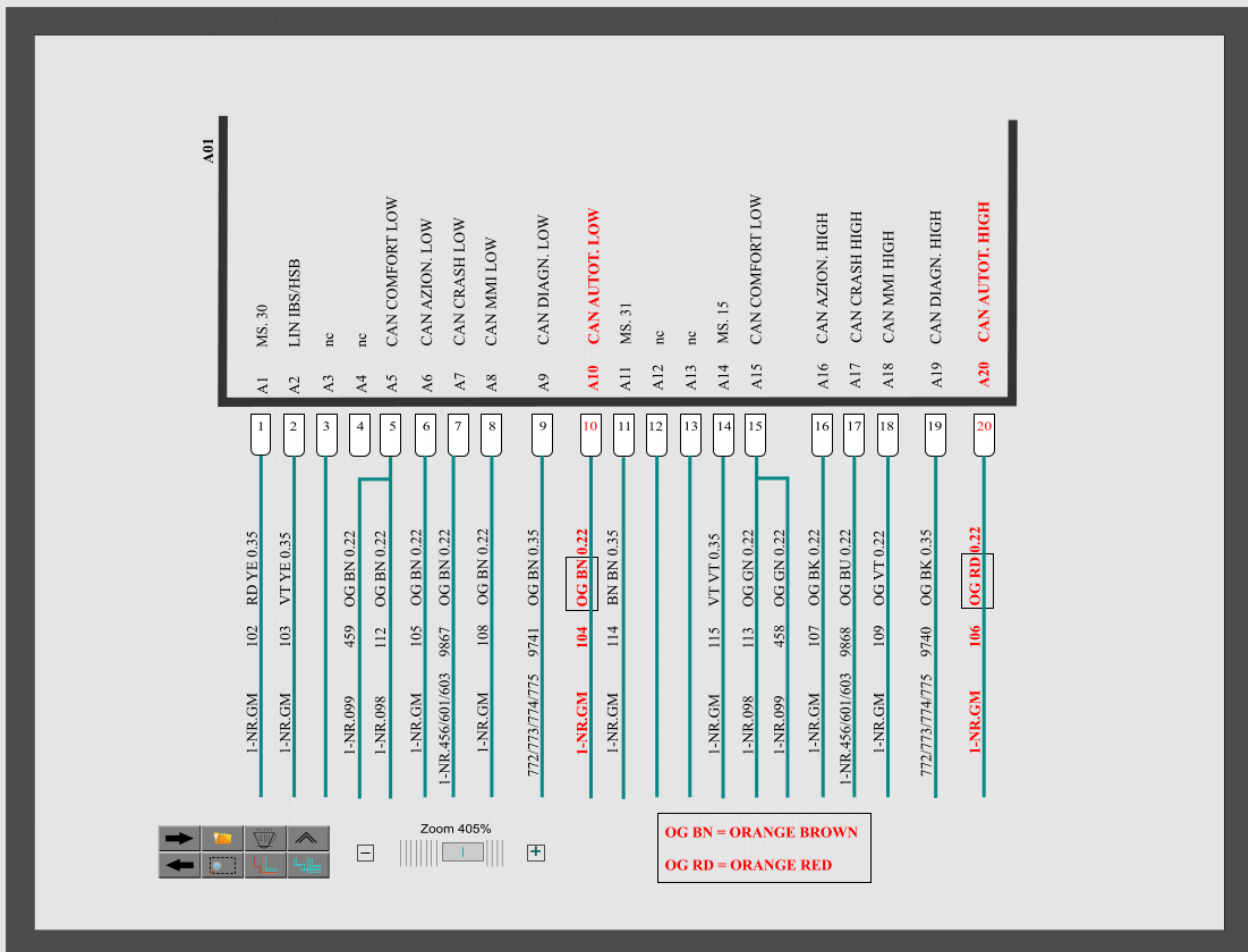
Pins to be used for CAN connection are:

- A10 – orange/brown wire (highlighted in the image)
- A20 – orange/red wire (hidden by the previous one).

Please note: there are several orange/brown wires connected to the Gateway, only the one connected to pin A20 and twisted with orange/red one is to be used.

AiM cables

Orange brown cable

The image below shows the gateway pinout. Highlighted in red the two CAN connections.

OG BN = ORANGE BROWN

OG RD = ORANGE RED

Zoom 405%

Here below is connection table.

Gateway connector pin	Pin function	Cable colour	AiM cable	AiM cable colour
A20	CAN High	Orange red	CAN+	White
A10	CAN Low	Orange/Brown	CAN-	Light blue

3
AiM Logger configuration

Once the ECU connected to the logger, this last one is to be configured as connected to that ECU.

Run Race Studio 2 software and follow this path:

- Device Configuration –> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Porsche" and ECU Model "991-911";
- transmit the configuration to the device pressing "Transmit".

4
Available channels

Channels received by AiM devices connected to Porsche with CAN protocol 991-911 are:

ID	CHANNEL NAME	FUNCTION
ECU_1	PSH_RPM	RPM
ECU_2	PSH_VEH_SPEED	Vehicle speed
ECU_3	PSH_WHEEL_FL	Front left wheel speed
ECU_4	PSH_WHEEL_FR	Front right rear speed
ECU_5	PSH_WHEEL_RL	Rear left wheel speed
ECU_6	PSH_WHEEL_RR	Rear right wheel speed
ECU_7	PSH_PPS	Pedal position sensor
ECU_8	PSH_BRAKE_SW	Brake switch
ECU_9	PSH_BRAKE_PR1	Brake pressure 1
ECU_10	PSH_BRAKE_PR2	Brake pressure 2
ECU_11	PSH_BRAKE_PR3	Brake pressure 3
ECU_12	PSH_BRAKE_PR4	Brake pressure 4
ECU_13	PSH_STEER_POS	Steering position
ECU_14	PSH_STEER_SPD	Steering speed
ECU_15	PSH_GEAR	Engaged gear
ECU_16	PSH_ECT	Engine cooling temperature
ECU_17	PSH_IAT	Intake air temperature
ECU_18	PSH_MAP	Manifold air pressure
ECU_19	PSH_ACC_LAT	Lateral acceleration
ECU_20	PSH_MODE_TYPE	Selected mode
ECU_21	PSH_SW_SUSP	Suspension switch
ECU_22	PSH_GEAR_INFO	Gear information