

AiM Infotech

Mazda 2  
from 2007 onwards

Release 1.01

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This tutorial explains how to connect Mazda 2 to AiM devices. Supported models are:

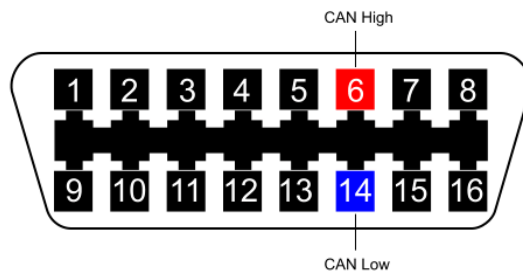
- Mazda 2 from 2007 onwards

## 1

# Wiring connections

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Mazda 2 is equipped with an OBDII connector. The OBDII plug should be on the steering column. Other possible positions are: in the central column, on the pedal area or on the left of the steering wheel. **Please note:** according to the international rules the OBDII plug is to be in a 60 cm distance area from the steering column. Connector pinout as well as connection table are shown here below.



OBDII connector pin	Pin function	AiM cable
6	CAN High	CAN+
14	CAN Low	CAN-

## 2

# AiM Logger configuration

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Before connecting the ECU to AiM device set it up as follows:

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 "Mazda" and ECU Model "2";
- transmit the configuration to the device pressing "Transmit".

## 3

# Available channels

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Channels received by AiM loggers connected to "Mazda" "2" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	M2_RPM	RPM
ECU_2	M2_VEH_SPEED	Vehicle speed
ECU_3	M2_VEH_SPD_GND	Vehicle speed GND
ECU_4	M2_WH_SPEED_FL	Front left wheel speed
ECU_5	M2_WH_SPEED_FR	Front right wheel speed
ECU_6	M2_WH_SPEED_RL	Rear left wheel speed
ECU_7	M2_WH_SPEED_RR	Rear right wheel speed
ECU_8	M2_PPS	Pedal position sensor
ECU_9	M2_ECT	Engine coolant temperature
ECU_10	M2_GEAR	Engaged gear
ECU_11	M2_TRASM_RATIO	Transmission ratio
ECU_12	M2_BRAKE_PR	Brake pressure
ECU_13	M2_BRAKE_SW	Brake switch
ECU_14	M2_OIL_PRESS_SW	Oil pressure switch
ECU_15	M2_FUEL_LEVEL	Fuel level
ECU_16	M2_ABS_EVENT	ABS switch
ECU_17	M2_ABS_FAIL	ABS failure
ECU_18	M2_LAMBDA	Lambda value
ECU_19	M2_MAP	Manifold air pressure
ECU_20	M2_INTK_AIRT	Intake air temperature

**Please note:** channels listed above are those polled by AiM devices. They may or may not come across in the data stream depending on models. RPM, TPS,ECT and speed are generally available.