AiM Infotech

Mazda MX5-ND

Release 1.01

AiM

This tutorial explains how to connect Mazda MX5-ND to AiM devices. Supported models are:
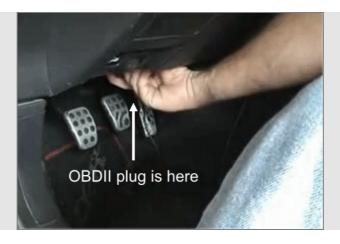
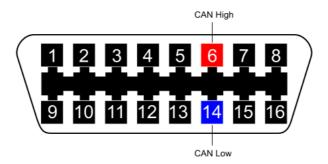- Mazda MX5-ND   from 2015 onwards

1
Wiring connections

Mazda MX5-ND features a bus communication protocol based on CAN on the OBDII plug placed on the steering column as shown here below.

OBDII plug is here

Connector pinout as well as connection table are shown below.

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

2
AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "Mazda"
- ECU Model "MX5_ND"

3
Available channels

Channels received by AiM loggers connected to "Mazda" "MX5_ND" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_PPS	Pedal position sensor
ECU_3	ECU_VEH_SPD	Vehicle speed
ECU_4	ECU_WS_FL	Front left wheel speed
ECU_5	ECU_WS_FR	Front right wheel speed
ECU_6	ECU_WS_RL	Rear left wheel speed
ECU_7	ECU_WS_RR	Rear right wheel speed
ECU_8	ECU_BRK_P	Brake pressure
ECU_9	ECU_LONG_ACC	Longitudinal acceleration
ECU_10	ECU_LAT_ACC	Lateral acceleration
ECU_11	ECU_STEER_ANG	Steering angle
ECU_12	ECU_TPS	Throttle position sensor
ECU_13	ECU_GEAR	Engaged gear
ECU_14	ECU_ENG_T	Engine temperature
ECU_15	ECU_FUEL_FLOW	Fuel flow
ECU_16	ECU_OIL_P_SW	Oil pressure switch
ECU_17	ECU_LAMBDA	Lambda value
ECU_18	ECU_MAP	Manifold air pressure
ECU_19	ECU_FUEL_LEV	Fuel level

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific and therefore may not be applicable.