

AiM Infotech

Mazda MX5-NC

Release 1.02



This tutorial explains how to connect Mazda MX5-NC to AiM devices. Supported models are:

- Mazda MX5-NC from 2005 onwards

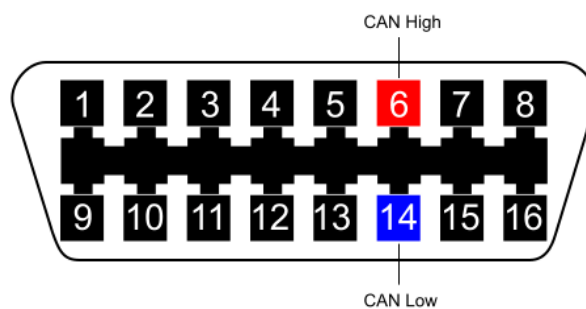
1

Wiring connections

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



Connector pinout as well as connection table are shown below.



OBDII connector pin

6
14

Pin function

CAN High
CAN Low

AiM cable

CAN+
CAN-

2

AiM Logger configuration

Once the ECU connected to the logger, this 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 "Mazda" and ECU Model "MX5";
- transmit the configuration to the device pressing "Transmit".

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Available channels

Channels received by AiM loggers connected to "Mazda" "MX5" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	MX5_RPM	RPM
ECU_5	MX5_SPD_FL	Front left wheel speed
ECU_6	MX5_SPD_FR	Front right wheel speed
ECU_7	MX5_SPD_RL	Rear left wheel speed
ECU_8	MX5_SPD_RR	rear right wheel speed
ECU_9	MX5_BRAKE_PRESS	Brake pressure
ECU_10	MX5_BRAKE_SWITCH	Brake switch
ECU_11	MX5_ABS_ALARM	ABS alarm
ECU_16	MX5_PPS	Pedal position sensor
ECU_17	MX5_CLUTCH_SWITCH	Clutch switch
ECU_21	MX5_WATER_TEMP	Water temperature
ECU_27	MX5_INTAKE_AIR_TEMP	Intake air temperature
ECU_28	MX5_STEERING_ANGLE	Steering angle
ECU_29	MX5_ENGINE_LOAD	Engine load
ECU_30	MX5_LAMBDA	Lambda value
ECU_31	MX5_ADVANCE	Advance
ECU_32	MX5_TEMP_CAT	Catalyst temperature
ECU_33	MX5_FUEL_LEVEL	Fuel level
ECU_34	MX5_VEH_SPEED	Vehicle speed
ECU_35	MX5_PPS2	Pedal position sensor 2
ECU_36	MX5_OIL_LEV_SW	Oil level switch

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.