



AiM Infotech

Mazda MX5-ND

Release 1.01



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

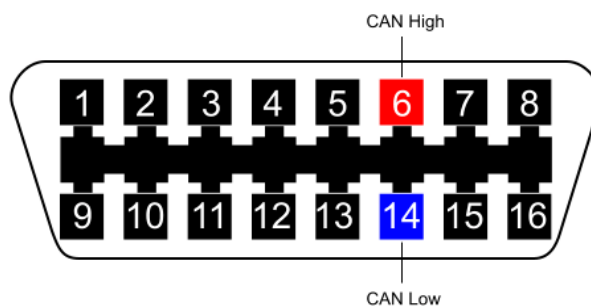
- Mazda MX5-ND from 2015 onwards

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.



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- |

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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"

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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.