

AiM Infotech

Mazda RX8  
2003-2008

Release 1.05

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This tutorial explains how to connect Mazda RX8 to AiM devices. Supported models are:

- Mazda RX8 2003-2008

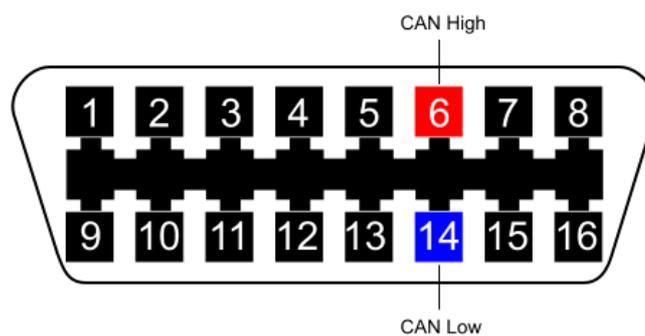
# 1

## Wiring connections

Mazda RX8 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-

## 2

# AiM device configuration

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

- ECU manufacturer "Mazda"
- ECU Model "RX8";

### 3

## Available channels

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Channels received by AiM loggers connected to "Mazda" "RX8" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RX8_RPM	RPM
ECU_5	RX8_VELASX	Front left wheel speed
ECU_6	RX8_VELADX	Front right wheel speed
ECU_7	RX8_VELPSX	Rear left wheel speed
ECU_8	RX8_VELPDX	Rear right wheel speed
ECU_11	RX8_BRAKE	Brake
ECU_16	RX8_PPS	Pedal position sensor
ECU_21	RX8_WTEMP	Engine coolant temperature
ECU_26	RX8_IAT	Intake air temperature
ECU_29	RX8_LOADENG	Load engine
ECU_30	RX8_AFR	Lambda value
ECU_31	RX8_ADV	Advance
ECU_32	RX8_TEMPCAT	Catalyst temperature
ECU_33	RX8_FUEL_LEVEL	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.