AiM Infotech

Mazda RX8
2003-2008

Release 1.03

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

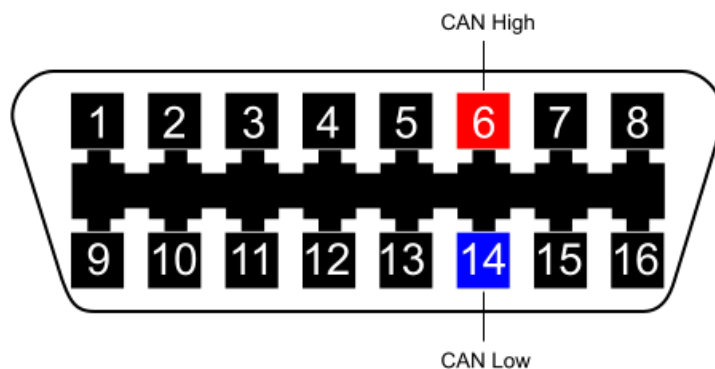- Mazda RX8   2003-2008

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 Logger configuration

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 "RX8";
- transmit the configuration to the device pressing "Transmit".

3
Available channels

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

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.