

AIM Infotech

Mazda RX8
Second Generation J60N

Release 1.01



This tutorial explains how to connect Mazda cars to AiM devices.

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Supported models and years

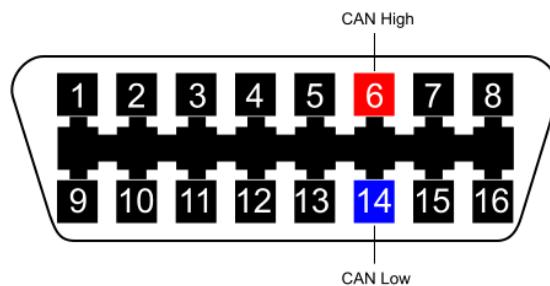
Supported models and years are:

- RX8 Second generation J60N from 2009 onward

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Wiring connection

Mazda RX8 Second generation J60N features a bus communication protocol based on CAN on the OBDII plug generally placed under the car steering wheel. Connector pinout as well as connection table are shown here below.



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

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AIM Logger configuration

Once the ECU connected to the logger, this last 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 "CAN_J60N_RX8";
- transmit the configuration to the device pressing "Transmit".

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Available channels

Channels received by AIM loggers connected to "Mazda" "CAN_J60N_RX8" are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RX8_RPM	RPM
ECU_2	RX8_VEH_SPEED	Vehicle speed
ECU_3	RX8_WH_SPEED_FL	Front left wheel speed
ECU_4	RX8_WH_SPEED_FR	Front right wheel speed
ECU_5	RX8_WH_SPEED_RL	Rear left wheel speed
ECU_6	RX8_WH_SPEED_RR	Rear right wheel speed
ECU_7	RX8_TPS	Throttle position sensor
ECU_8	RX8_ETPS	Electronic throttle position
ECU_9	RX8_ECT	Engine coolant temperature
ECU_10	RX8_INTK_AIRT	Intake air temperature
ECU_11	RX8_TEMP_CAT	Catalyst temperature
ECU_12	RX8_STEER_ANG	Steering angle
ECU_13	RX8_YAW_RATE	Yaw rate
ECU_14	RX8_LAT_ACC	Lateral acceleration



ECU_15	RX8_LONG_ACC	Longitudinal acceleration
ECU_16	RX8_AFR	Air/Fuel Ratio
ECU_17	RX8_FUEL_LEVEL	Fuel level
ECU_18	RX8_BRAKE_PR	Brake pressure
ECU_19	RX8_BRAKE_SW1	Brake switch 1
ECU_20	RX8_BRAKE_SW2	Brake switch 2
ECU_21	RX8_ABS_EVENT	ABS activated
ECU_22	RX8_ABS_FAIL	ABS failure
ECU_23	RX8_OIL_PR_SW	Oil pressure switch
ECU_24	RX8_GEAR	Engaged gear
ECU_25	RX8_TRASM_RATIO	Transmission ratio
ECU_26	RX8_CALC_LOAD	Calculation load
ECU_27	RX8_IGN_ADV	Ignition advance
ECU_28	RX8_ACT_TORQUE	Actual Torque
ECU_29	RX8_MAF	Manifold air flow

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.