

AiM InfoTech

TOYOTA – GR86 ZN8  
SUBARU – BRZ II ZC8  
From 2021

Release 1.01

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ECU



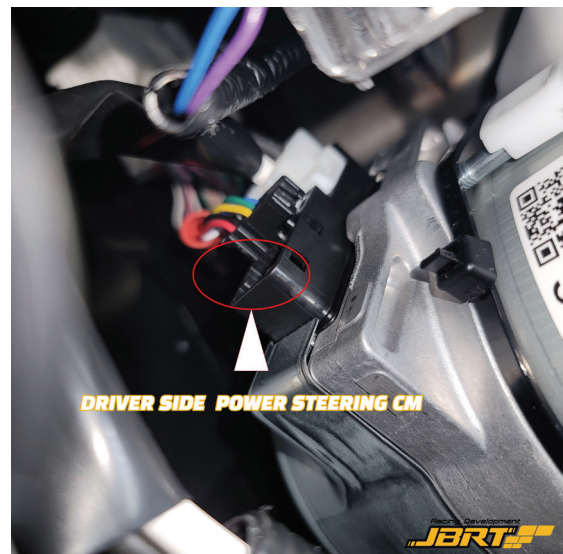
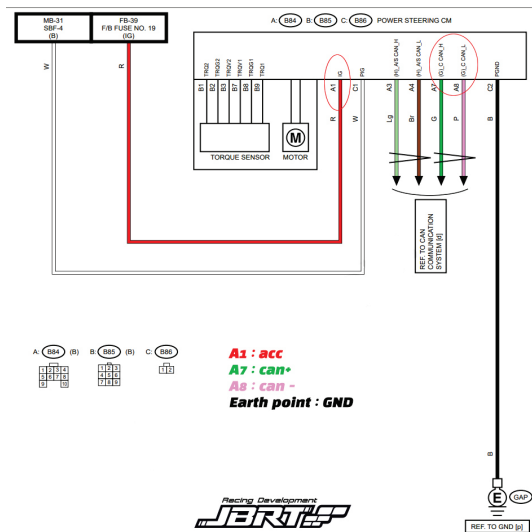
# 1 Models and years

This document explains how to connect AiM devices to the vehicle CANbus data stream. Supported models and years are:

- Toyota GR86 (ZN8) from 2021
- Subaru BRZ II (ZC8) from 2021

# 2 Wiring connection

These models feature multiple CAN data bus. The current ECU driver has been developed on the **C-CAN**, accessible for example through the Power Steering Control Module, represented here below.



C-CAN color	Pin nr	Pin function	AiM cable	AiM color
Green	A7	CAN-High	CAN +	White
Pink	A8	CAN-Low	CAN -	Blue

It is strongly recommended to refer to a skilled technician to perform this kind of connection. Always check if the power supply can cope with external units Ampere figures.

## 3

# Race Studio configuration

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Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **TOYOTA**
- ECU Model: **GR86 ZN8** (Only RS3)

## 4

# “TOYOTA – GR86 ZN8” Protocol

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Channels received by AiM devices configured with " TOYOTA – GR86 ZN8" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
RPM	RPM
Gear	Engaged gear
VehicleSpd	Vehicle speed
Vehicle Spd 2	Vehicle speed 2
Wheel Speed FL	Wheel speed front left
Wheel Speed FR	Wheel speed front right
Wheel Speed RL	Wheel speed rear left
Wheel Speed RR	Wheel speed rear right
Clutch Position	Clutch position
ClutchSw	Clutch switch
TPS	Throttle position sensor
PPS	Pedal position sensor
PPS2	Pedal position sensor 2
BrakePress	Brake pressure
Brake Switch	Brake switch
SteerAngle	Steering wheel angle position



LongAcc	Longitudinal acceleration
LatAcc	Lateral acceleration
YawRate	Yaw rate
WaterTemp	Engine coolant temperature
IntakeAirTemp	Intake air charge temperature
OilTemp	Engine oil temperature

**Technical note:** not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.