AiM Infotech

Polaris RZR

Release 1.00

ECU

1 Supported models

This tutorial explains how to connect Polaris cars to AiM devices. Supported models are:

- Polaris RZR

2 Connection to AiM devices

Polaris RZR features a bus communication protocol based on CAN on the 8 pins connector shown here below and placed in the front hood. Below is connection table.

Polaris cable colour	Pin function	AiM cable
Yellow	CAN High	CAN+
Dark green	CAN Low	CAN-

3 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 “Polaris”
- ECU Model "RZR"

4 Available channels

Channels received by AiM devices connected to "Polaris" "RZR" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	ENG_DEM_TRQ	Engine demand torque
ECU_3	GEAR	Engaged gear
ECU_4	BOOST_P	Boost pressure
ECU_5	ECT	Engine coolant temperature
ECU_6	VEH_SPEED	Vehicle speed
ECU_7	BRAKE_SW	Brake switch
ECU_8	ENG_FUEL_RATE	Engine fuel rate
ECU_9	ENG_FUEL_ECO	Fuel economy
ECU_10	ENG_AVG_FUEL_ECO	Engine average fuel economy
ECU_11	THROTTLE	Engine throttle
ECU_12	FUEL_LEV	Fuel level
ECU_13	FRONT_WHE_ACT	Front wheel actuator engage
ECU_14	MIL	Malfunctioning indication lamp
ECU_15	EPS_ALARM	Electronic Power Steer alarm
ECU_16	WHE_SPD_L1	Vehicle speed limit 1

ECU_17	WHE_SPD_L2	Vehicle speed limit 2
ECU_18	WHE_SPD_L3	Vehicle speed limit 3
ECU_19	WHE_SPD_L4	Vehicle speed limit 4
ECU_20	WHE_SPD_L5	Vehicle speed limit 5
ECU_21	WHE_SPD_L6	Vehicle speed limit 6
ECU_22	WHE_SPD_L7	Vehicle speed limit 7
ECU_23	APP_SPD_L	Applied speed limit
ECU_24	INPUT_TRQ	Input torque
ECU_25	OUTPUT_TRQ	Output torque
ECU_26	EPS3	Electronic Power Steer 3
ECU_27	EPS4	Electronic Power Steer 4
ECU_28	EPS5	Electronic Power Steer 5