AiM Infotech

Ignitech Ignijet 2007

Release 1.02

ECU
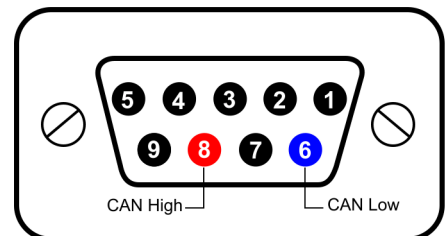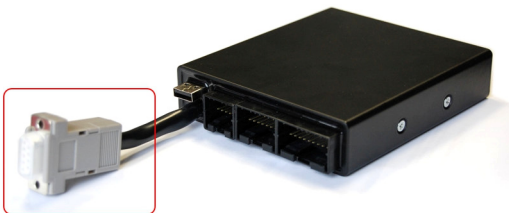
AiM

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Supported models

This tutorial explains how to connect Ignitech ECU to AiM devices. Supported models are:

- Ignijet 2007
- Ignijet 2007 250 k

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Wiring connection

Ignijet 2007 ECU features a bus communication protocol based on CAN on the DB9 female connector highlighted here below on the left. On the right is its pinout and below connection table.

ECU connector pin	Function	AiM cable
8	CAN High	CAN+
6	CAN Low	CAN-

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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 "Ignitech"
- ECU Model
    - o "IGNIJET_2007" or
    - o "IGNIJET_2007_250K"

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Available channels

Channels received by AiM loggers connected to "Ignitech" "Ignijet_2007"/"Ignijet_2007_250K" protocol are the same and here below they are listed.

ID	CHANNEL NAME	FUNCTION
ECU_1	IG_RPM	RPM
ECU_2	IG_SPEED	Vehicle speed
ECU_3	IG_GEAR	Engaged gear
ECU_4	IG_WATER_TEMP	Engine coolant temperature
ECU_5	IG_AIR_TEMP	Intake air temperature
ECU_6	IG_TPS	Throttle position sensor
ECU_7	IG_INL_AIR_P	Inlet air pressure
ECU_8	IG_AIR_PRESS	Intake air pressure
ECU_9	IG_SUP_VOLT	Battery supply
ECU_10	IG_AFR	Air/Fuel ratio
ECU_11	IG_ACC_C_INJ	Accelerometer C injection
ECU_12	IG_GEAR_SH_LT	Gear shift light
ECU_13	IG_SERVO_EX	Voltage of exhaust servo position sensor (measured)

ECU_14	IG_SERVO_INL	voltage of inlet servo position sensor (measured)
ECU_15	IG_POT_VOLT	voltage of potentiometer
ECU_16	IG_START_LIMIT	Start limiter flag
ECU_17	IG_CLUTCH_MS	Clutch master flag
ECU_18	IG_RPM_LIM_IGN	RPM limiter by cut off ignition
ECU_19	IG_RPM_LIM_INJ	RPM limiter by cut off injection
ECU_20	IG_RPM_LIM_ADV	RPM limiter advance
ECU_21	IG_ADV_CYL1	Spark advance cylinder 1
ECU_22	IG_MAIN_INJT_1	Main injection time cylinder 1
ECU_23	IG_SEC_INJT_1	Secondary injection time cylinder 1