AIM Infotech

Chevrolet Cobalt SS ECU

Release 1.01

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

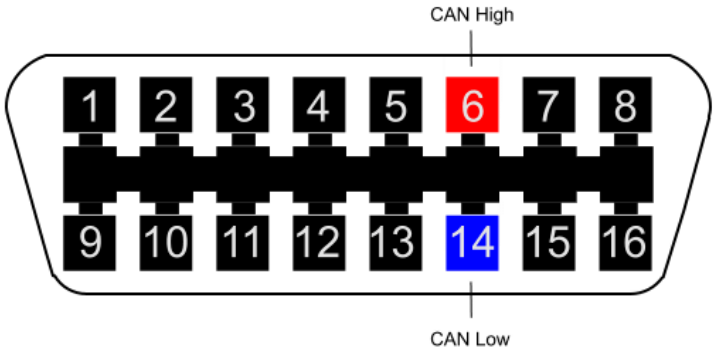
1 Supported models

Supported models are:

- Chevrolet Cobalt SS

2 Wiring Connection

Chevrolet Cobalt SS car features a bus communication protocol based on CAN on the OBDII plug placed under the compartment mat on the central column of the car cockpit. OBDII 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-

3
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 “CHEVROLET” and ECU Model “COBALT_SS”;
- transmit the configuration to the device pressing “Transmit”.

4
Available channels

Channels received by AIM loggers connected to Chevrolet Cobalt SS ECU are:

ID	CHANNEL NAME	FUNCTION
ECU_1	CVY_RPM	RPM
ECU_2	CVY_SPEED	Vehicle speed
ECU_3	CVY_PPS	Pedal position sensor
ECU_4	CVY_TPS	Throttle position sensor
ECU_5	CVY_TENGINE	Engine temperature
ECU_6	CVY_AIR_TEMP	Incoming air temperature
ECU_7	CVY_OIL_TEMP	Oil temperature
ECU_8	CVY_YAW_RATE	Yaw rate
ECU_9	CVY_FUEL_LEVEL	Fuel level
ECU_10	CVY_WH_SPD_FL	Front left wheel speed
ECU_11	CVY_WH_SPD_FR	Front right wheel speed
ECU_12	CVY_WH_SPD_RL	Rear left wheel speed
ECU_13	CVY_WH_SPD_RR	Rear right wheel speed
ECU_14	CVY_MAP	Manifold air pressure
ECU_15	CVY_MAF	Manifold Air flow
ECU_16	CVY_SH_FUEL_TR	Short term fuel trim
ECU_18	CVY_FUEL_PRESS	Fuel pressure
ECU_20	CVY_KNOCK_RET	Knock retard
ECU_22	CVY_MAP2	Manifold air pressure 2

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.