

AiM Infotech

Volvo C30
2006-2009

Release 1.01



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

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Supported model and years

Supported car models and years are:

- Volvo C30 2006-2009

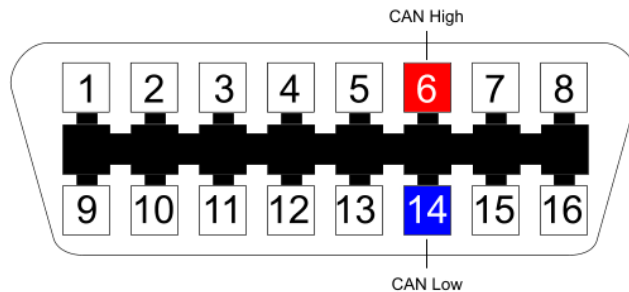
2

Wiring connection

Volvo C30 ECU features a bus communication protocol based on CAN on the OBDII plug usually located on the left of the steering column as shown here below.



Connector pinout as well as connection table are shown here below



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

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AiM Logger configuration

Before connecting the ECU connected to AiM logger 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 "Volvo" and ECU Model "C30";
- transmit the configuration to the device pressing "Transmit".

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Available channels

Channels received by AiM loggers connected to "Volvo" "C30" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	C30_RPM	RPM
ECU_2	C30_SPEED	Vehicle speed
ECU_3	C30_SPEED_FR	Front right wheel speed
ECU_4	C30_SPEED_FL	Front left wheel speed
ECU_5	C30_SPEED_RR	Rear right wheel speed
ECU_6	C30_SPEED_RL	Rear left wheel speed
ECU_7	C30_PPS	Pedal position sensor
ECU_8	C30_TPS	Throttle position sensor
ECU_9	C30_BRAKE_SW	Brake switch
ECU_10	C30_BRAKE_POS	Brake position
ECU_11	C30_BRAKE_PR	Brake pressure
ECU_12	C30_STEER_SIGN	Steering signal
ECU_13	C30_STEER_SPD	Steering wheel speed sensor
ECU_14	C30_STEER_ANG	Steering angle
ECU_15	C30_ECT	Engine coolant temperature
ECU_16	C30_FUEL	Fuel level
ECU_17	C30_MAP	Manifold air pressure
ECU_18	C30_IAT	Intake air temperature

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.