AiM InfoTech

Volvo C30 2006-2009
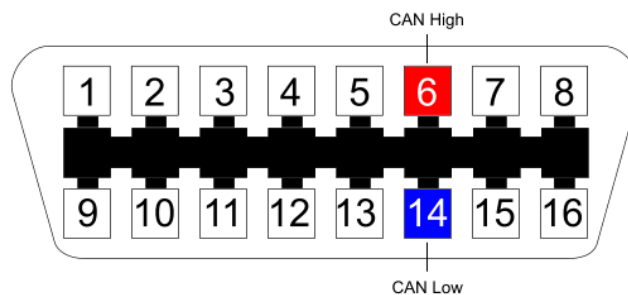
Release 1.04

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Models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.
Supported models and years are:

* Volvo C30   2006-2009

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OBDII Connection

These models feature a standard diagnostic protocol based on CAN, accessible through the OBDII plug placed on the left of the steering wheel column. For this installation refer to the following pinout of the OBDII plug (vehicle side – front view) and connection table.

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

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Race Studio configuration

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: **Volvo**
- ECU Model: **C30**

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"Volvo – C30" protocol

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

CHANNEL NAME	FUNCTION
RPM	RPM
TPS	Throttle position sensor
WheSpdFR	Front right wheel speed
WheSpdFL	Front left wheel speed
WheSpdRR	Rear right wheel speed
WheSpdRL	Rear left wheel speed
BrakePos	Brake position
BrakePres	Brake pressure
CarSpeed	Vehicle speed
PPS	Pedal position sensor
BrkSw	Brake switch
SteerSign	Steering signal
SteerSpd	Steering wheel speed sensor
SteerAngle	Steering angle

MAP	Manifold air pressure
IAT	Intake air temperature
ECT	Engine coolant temperature
Fuel	Fuel level

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