AiM Infotech

Opel Astra OPC from 2012

Release 1.01

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

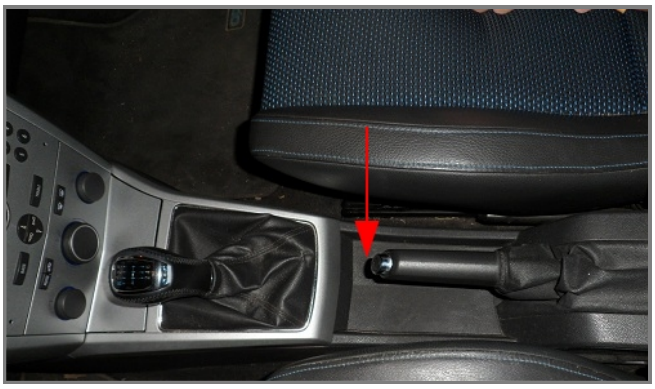
1 Supported model and years

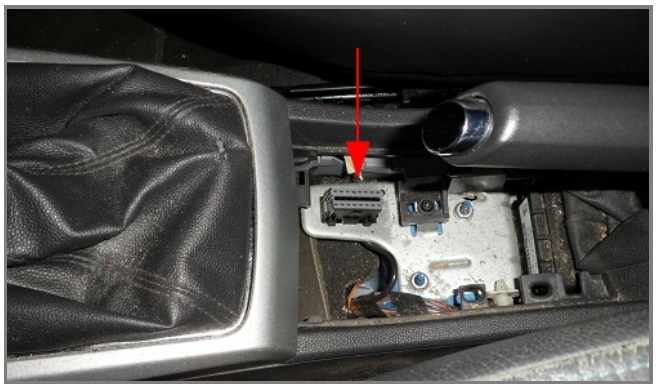
Supported models are:

- Opel Astra OPC from 2012 onwards

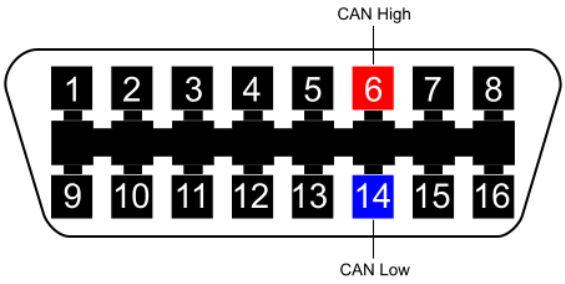
2 OBDII connection

Opel Astra OPC features a bus communication protocol based on CAN on the OBDII plug located between driver and passenger seats 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-

3
AiM Logger configuration

Before connecting the ECU to AiM device set it up as follows:

Run Race Studio 2 software and select:

- "Device Configuration" –> select the device you are using
- select the configuration or press "New" to create a new one
- select ECU manufacturer "Opel" and ECU Model "Astra_OPC"
- transmit the configuration to the device pressing "Transmit".

4 Available channels

Channels received by AiM loggers connected to "Opel" "Astra_OPC" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	OP_RPM	RPM
ECU_2	OP_VEH_SPEED	Vehicle speed
ECU_3	OP_TPS	Throttle position sensor
ECU_4	OP_HI_BEAM	High beam
ECU_5	OP_STEER_ANGLE	Steering angle
ECU_6	OP_STEER_SPEED	Steering speed
ECU_7	OP_ECT	Engine coolant temperature
ECU_8	OP_IAT	Intake air temperature
ECU_9	OP_BRAKE_SW	Brake switch
ECU_10	OP_OILP_SW	Oil pressure switch
ECU_11	OP_MAP_OBD2	Manifold air pressure via OBDII
ECU_12	OP_CLUTCH_SW	Clutch switch
ECU_13	OP_TURN_RIGHT	Right turn indicator light
ECU_14	OP_TURN_LEFT	Left turn indicator light
ECU_15	OP_TRACT_SW	Traction control switch
ECU_16	OP_TRACT_STATE	Traction control state
ECU_17	OP_ESP_SW	ESP switch
ECU_18	OP_ESP_STATE	ESP state

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.