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AIM InfoTech
Fiat 500 Abarth
(from 2008 onward)

Release 1.06



ECU



1 Models and years

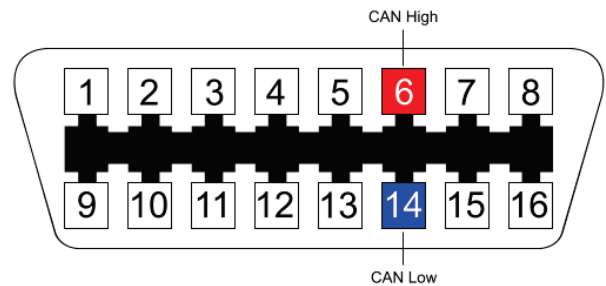
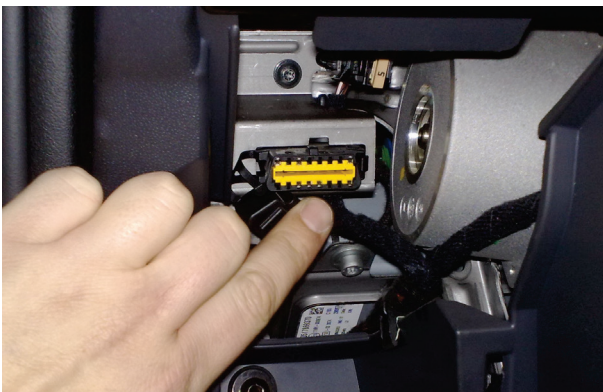
This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

Supported models and years are:

- Fiat 500 Abarth from 2008 onwards

2 OBDII Connection

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



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

3

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: **FIAT_ABARTH**
- ECU Model: **CAN STANDARD**

3

“FIAT_ABARTH – CAN STANDARD” protocol

Channels received by AiM devices connected to "FIAT_ABARTH – CAN STANDARD" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
VehSpeed	Vehicle speed
VehSpeed2	Vehicle speed 2
SpeedRR	Rear right wheel speed
SpeedRL	Rear left wheel speed
SpeedFR	Front right wheel speed
SpeesFL	Front left wheel speed
SteerSpeed	Steering wheel speed
WaterTemp	Water temperature
AmbientTemp	Ambient air temperature
BrakePress	Brake pressure
BoostPress	Boost pressure
SteerAngle	Steering wheel position
FuelLev	Fuel level
TPS	Throttle position sensor
PPS	Throttle pedal position



BrakeSw2	Brake switch 2
EPSFail	Electronic powered steering failure
ClutchSw	Clutch switch
BrakeSw	Brake switch
DriveSTY	Drive stability
OilPressSw	Oil pressure switch
CurrFail	Current failure
DSignal	Digital signal

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.