



CAN-BUS analysis

Applies to FiCOM, FoCOM, HiCOM and RenCOM.

Please note that this function is under development and will be further improved. This manual is provided mainly for beta testers who wish to help with collecting data from real vehicles.

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1. Introduction

CAN-BUS (Controller Area Network) is a vehicle communication bus standard designed to allow control units to communicate with each other within a vehicle.

1.1 Typical usage

The CAN-BUS analysis function can be used typically for identifying the following issues:

- Faulty ECU on CAN-BUS
- Faulty CAN-BUS wiring
- No communication with ECU possible

2. Prerequisites

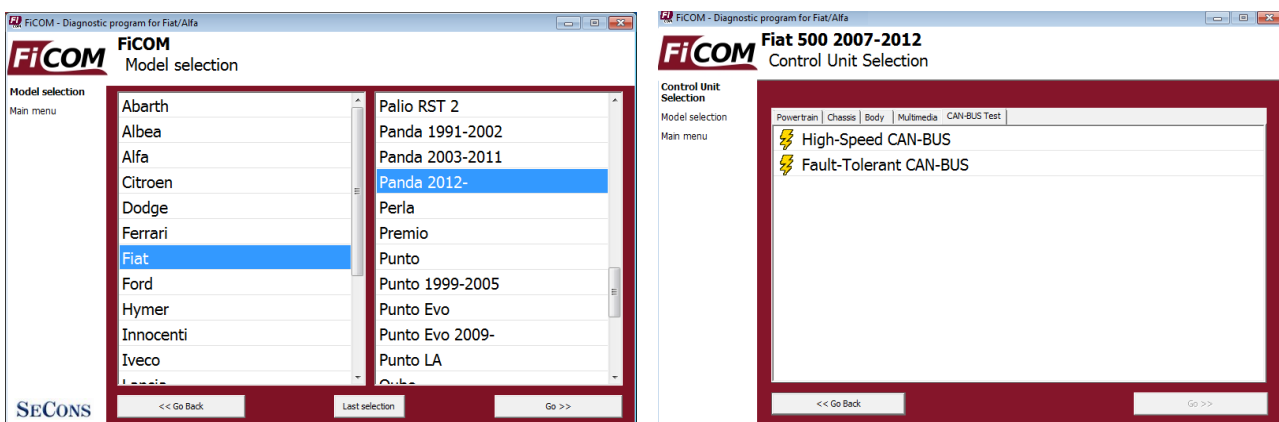
CAN-BUS analysis is available only in models that directly connect vehicle CAN-BUS with OBD2 connector, without CAN gateway.

3. Diagnostics specifics

CAN-BUS analysis is available multiple SECONS car diagnostic products. Differences among them are described below.

3.1 FiCOM

CAN-BUS analysis can be started from main menu using “Select control unit”, selecting vehicle, and then from “CAN-BUS Test” tab by selecting desired CAN-BUS.



For some vehicles is possible, that not all the buses in OBD-II socket are available, such as for

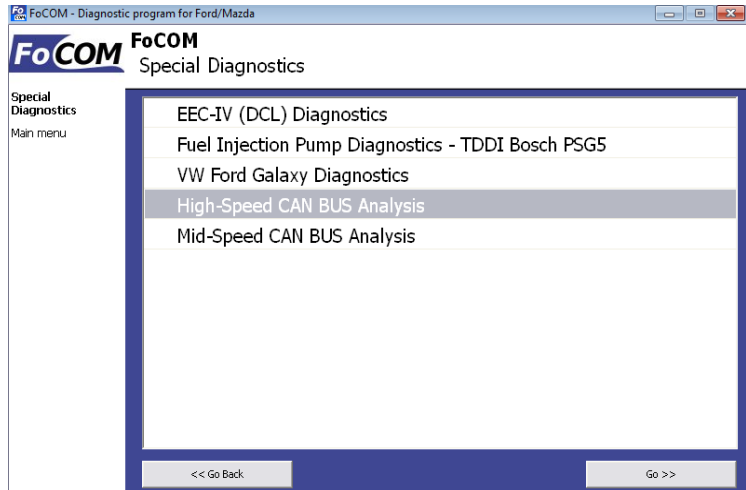
example Fiat Ducato 2006-, whose OBD-II socket provides only Fault-tolerant CAN-BUS. Engine CAN (high speed) is not involved and therefore it can not be diagnosed.

3.2 FoCOM

CAN-BUS analysis can be started from main menu by selecting “Special diagnosis” and then selecting desired CAN-BUS test.

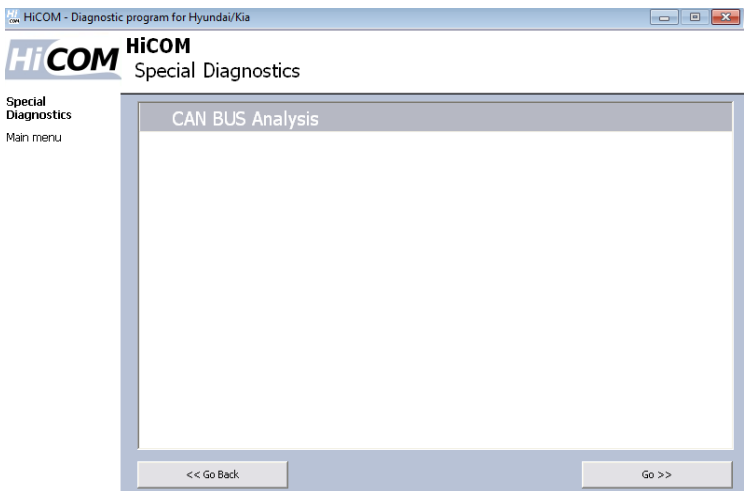
For older vehicles (eg Ford Mondeo to 2006) was CAN-BUS installed, but not available through OBD2 socket.

This feature is only available with FoCOM interface sold since 2012.



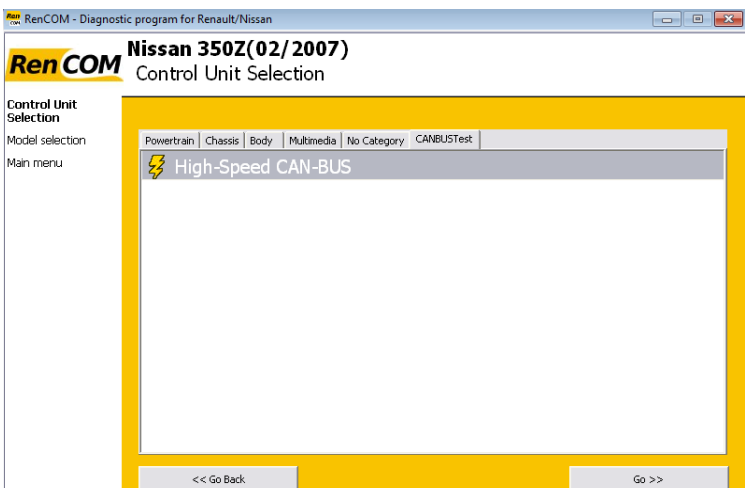
3.3 HiCOM

CAN-BUS analysis can be started from main menu by selecting “Special diagnosis” and then selecting CAN-BUS test.



3.4 RenCOM

CAN-BUS analysis can be started from main menu using “Select control unit”, selecting vehicle, and then from “CAN-BUS Test” tab by selecting desired CAN-BUS.



4. Using CAN-BUS analysis

When CAN-BUS analysis is started, window showing captured frames is displayed. The test can be stopped at any time.

Basic information, which can be obtained from the CAN-BUS analysis, are:

- whether all control units communicate (according to the list of senders frames)
- whether communicating control units sends all frames (by comparison with another vehicle)
- whether the control units communicate without interruption (according to time of sending)

This documentation will be further updated with information on how to interpret and use this function.

The function can already be used to diagnose faults on CAN-BUS, but technician needs to have access to data specifying CAN-BUS frame for each vehicle. Exceptions are the Iveco Daily vehicles and certain models of Fiat, for which is coding already fully implemented.

FiCOM High-Speed CAN-BUS CAN BUS Analyzer

Running Time: 340 s Frame rate: 205 Frm/s
 Frames Captured: 34781 Total Id: 8

TC01 BODY	FF FF FF FF 00 00 00 00	0s 0002	16884
BODY65377 BODY	FF FC FF FF F3 FF FF FF	0s 0041	6605
BODY65477 BODY	CF 9F FF FF FF FF FF FF	0s 0088	3402
BODY65475 BODY	80 01 00 01 00 04 00 98	0s 0033	6800
TD BODY	00 00 00 00 00 3F FF FF	0s 0885	339
VDHR BODY	54 57 67 02 FF FF FF FF	0s 0877	338
DD BODY	FF FE FF FF FF FF FF FF	0s 0779	338
BODY53486 BODY	64 FF FF FF FF FF FF FF	3s	67

<< Stop Start Over Frame Analysis Copy Print