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## CAN-Bus Troubleshooting Guide

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**Changes in the chapters** The changes in the document listed below affect changes in the hardware as well as changes in the description of facts.

- Chapter Changes as compared to previous version
- Additional notes on CAN-GND
- Technical details are subject to change without further notice.

### 1. CAN-Bus Troubleshooting Guide

The CAN-Bus Troubleshooting Guide is a guide to find and eliminate the most frequent hardware-error causes in the wiring of CAN-networks.



Figure: Simplified diagram of a CAN network

#### 1.1 Termination

The termination is used to match impedance of a node to the impedance of the transmission line being used. When impedance is mismatched the transmitted signal is not completely absorbed by the load and a portion is reflected back into the transmission line. If the source, transmission line and load impedance are equal these reflections are eliminated. This test measures the series resistance of the CAN data pair conductors and the attached terminating resistors.

To test it, please:

1. Turn off all power supplies of the attached CAN nodes.
2. Measure the DC resistance between CAN\_H and CAN\_L at the middle and ends of the network (1) (see figure above).

The measured value should be between 50 and 70  $\Omega$ .

The measured value should be nearly the same at each point of the network.

If the value is below 50  $\Omega$ , please make sure that:

- there is no short circuit between CAN\_H and CAN\_L wiring
- there are not more than two terminating resistors
- the nodes do not have faulty transceivers.

If the value is higher than 70  $\Omega$ , please make sure that:

- there are no open circuits in CAN\_H or CAN\_L wiring
- your bus system has two terminating resistors (one at each end) and that they are 120  $\Omega$  each.

#### 1.2 CAN\_H/CAN\_L Voltage

Each node contains a CAN transceiver that outputs differential signals. When the network communication is idle the CAN\_H and CAN\_L voltages are approximately 2.5 volts. Faulty transceivers can cause the idle voltages to vary and disrupt network communication.

To test for faulty transceivers, please:

1. Turn on all supplies.
2. Stop all network communication.
3. Measure the DC voltage between CAN\_H and GND (2) (see figure above).
4. Measure the DC voltage between CAN\_L and GND (3) (see figure above).

Normally the voltage should be between 2.0 V and 4.0 V; if it is lower than 2.0 V or higher than 4.0 V, it is possible that one or more nodes have faulty transceivers. For a voltage lower than 2.0 V please check CAN\_H and CAN\_L conductors for continuity. For a voltage higher than 4.0 V, please check for excessive voltage.

To find the node with a faulty transceiver please test the CAN transceiver resistance (see section 1.4).

#### 1.3 Ground

The shield of the CAN network has to be grounded at only one location. This test will indicate if the shielding is grounded in several places. To test it, please:

# Can Bus Network Troubleshooting Guide

**Rob Botwright**



## **Can Bus Network Troubleshooting Guide:**

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