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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 Ω .

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

If the value is below 50 Ω , 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 Ω , 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 Ω 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

Michael W. Graves



Can Bus Network Troubleshooting Guide:

Network Maintenance and Troubleshooting Guide Neal Allen, 2000 Today's rapidly changing technology offers increasingly complex challenges to the network administrator MIS director and others who are responsible for the overall health of the network This Network Maintenance and Troubleshooting Guide picks up where other network manuals and texts leave off It addresses the areas of how to anticipate and prevent problems how to solve problems how to operate a healthy network and how to troubleshoot Network Maintenance and Troubleshooting Guide also provides basic technical and troubleshooting information about cable testing Ethernet and Token Ring networks and additional information about Novell's IPX/SPX protocol and TCP/IP Examples are shown as either diagrams and tables or screen captures from Fluke instruments Network professionals will appreciate the guide's real world orientation toward solving network crises quickly by guiding readers to solutions for restoration of end to end data delivery as quickly as possible The network novice will learn from the simplified descriptions about networking technology in the Appendices **Network+ Training Guide** Drew Bird, Mike Harwood, 2002 Annotation The authoritative solution to passing the Network exam Has CompTIA's Authorized Quality Curriculum CAQC stamp of approval Features exam tips study strategies review exercises case studies practice exams ExamGear testing software and more This exam certifies that candidates know the layers of the OSI model can describe the features and functions of network components and have the skills needed to install configure and troubleshoot basic networking hardware peripherals and protocols The Network exam developed by CompTIA is only two years old but already is held by 50 000 individuals Readers preparing for this exam will find our Training Guide series to be an indispensable self study tool This book is their one stop shop because of its teaching methodology the accompanying ExamGear testing software and Web site support at www.quepublishing.com certification Drew Bird MCNE MCNE MCT MCSE MCP I has been working in the IT industry for over 12 years instructing for the past five Drew has completed technical training and consultancy assignments for a wide variety of organizations including the Bank of England The London Stock Exchange Iomega and the United Nations Mike Harwood MCT MCSE A has 6 years experience in IT As well as training and authoring technical courseware he currently acts as a system manager for a multi site network and performs consultancy projects for a computer networking company As a team they have written Network Exam Cram Coriolis and Network Exam Prep Coriolis

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