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Restrictions

Table of contents

1 Overview....1
2 Is a line break/interrupt of CAN high and/or CAN low signals possible?....1
3 Typical setup with the old CANstressDR (stress hardware only) 1
4 Typical setup with the new VH6501 (interface and stress hardware) 2
5 Typical setup for CAN conformance tests 2
6 Setup for cross-wiring tests 3
7 Contacts....3

1 Overview

This Support Note answers frequently asked questions regarding the CAN Disturbance Interface VH6501.

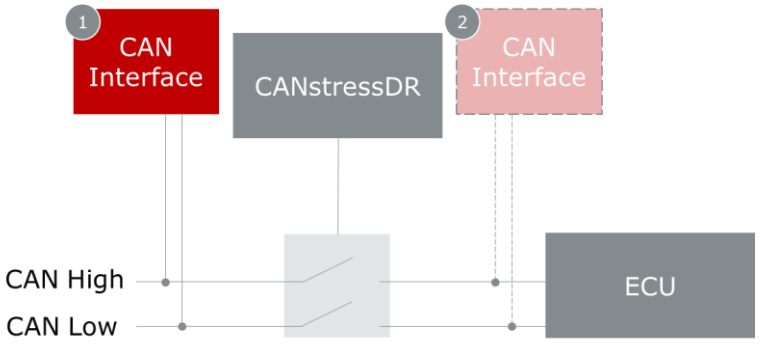
2 Is a line break/interrupt of CAN high and/or CAN low signals possible?

> The new VH6501 has a completely new concept and is both a CAN interface and disturbance device. Like all CAN interfaces, the VH6501 is typically connected to the CAN bus as stub and not looped into the CAN network like the old CANstress. This allows much simpler test setups for most ECU conformance tests i.e. no extra CAN interface device (e.g. VN1630) or cabling is required.

> In such setup an interrupt of the CAN_H or CAN_L signals inside the VH6501 does not make any sense, since this would only disconnect the VH6501's transceiver from the network.

> The line break/interrupt of CAN is supported by the existing hardware VH1150, which is bus-independent and already commonly part of most conformance test setups e.g. for controlling and measuring the ECU's power supply/terminals.

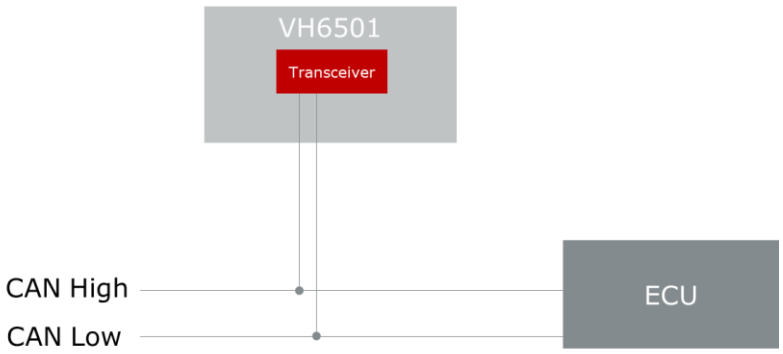
3 Typical setup with the old CANstressDR (stress hardware only)



> The CANstressDR must be looped into the CAN network

> Additonal CAN interface devices (e.g. VN1630) are therefore required to stimulate (1) and analyze (2) the ECU‘s CAN interface.

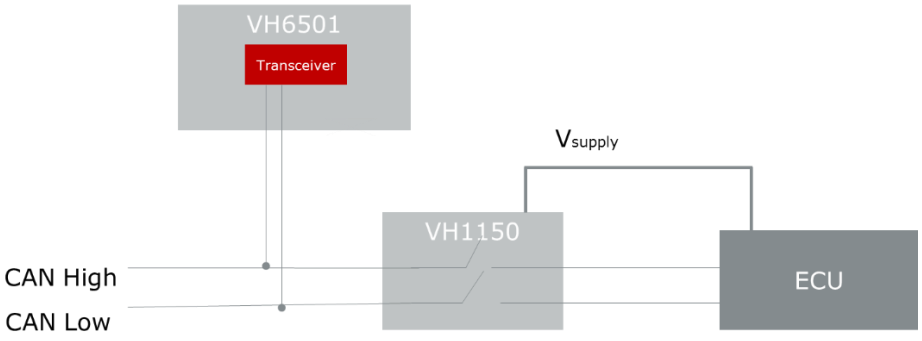
4 Typical setup with the new VH6501 (interface and stress hardware)



> The VH6501 is a CAN interface **and** disturbance device and therefore typically connected as a stub to the CAN network. No additional CAN interface devices are normally needed.

> In such setup a break/interruption of CAN inside the VH6501 does not make much sense, since this would only disconnect the VH6501’s transceiver from the network.

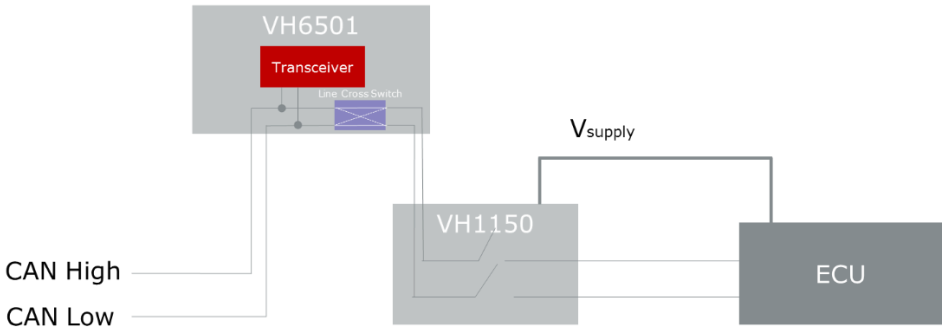
5 Typical setup for CAN conformance tests



> This setup with the VH6501 and VH1150 meets the typical requirements for CAN conformance tests. No additional CAN interface devices are normally needed.

> The VH1150 is required for CAN break/interruption and can also be used to control and measure the ECU's power supply/terminals.

6 Setup for cross-wiring tests



> Since the VH1150 does not support cross-wiring, this feature was added to the VH6501.

7 Contacts

For support related questions please address to support@vector.com.