



Valid for all black cased CAN2DASH units sold prior to October 2020

The V3 manual is [here](#).



The **Hasenwerk CAN2DASH** CAN Bus Gateway

The Hasenwerk CAN2DASH converts CAN bus signals into conventional signals. Restoring these signals is useful when you are installing a 2000 model or later Volkswagen Automobile Group motor into an older vehicle that uses conventional signals for the Tachometer, Check Engine and Glow Plug Lights, and Radiator Control.

The Hasenwerk CAN2 series is distributed by:



Fast Forward Automotive

4356 Quesnel-Hixon Rd
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Specializing in Volkswagen Engine Harness Retrofitting, Signal Processors, Sensors, Custom Engine Software & more!



The CAN2DASH is a small (69x45x21mm) ABS plastic case designed to be installed out of sight, however, it is not waterproof, so it should be a dry location.

Connections are made via the spring-loaded terminal block. With the terminal block facing towards you, the connections are as follows. Please make sure you connect everything correctly as we are not responsible for miss connections that let the magic smoke out:

1	RADIATOR FAN Negative Trigger for Radiator Fan Relay ON= >105C/221F OFF= <99C/210F (custom settings are available)
2	TACHOMETER 12V square wave at 2 pulses per crank revolution (custom settings are available)
3	CHECK ENGINE LIGHT Negative Trigger for Check Engine Light *
4	GLOW PLUG LIGHT Negative Trigger for Glow Plug Light *
5	No connection
6	No connection
7	No connection
8	No connection
9	CAN bus low to ECU
10	CAN bus high to ECU
11	Ground
12	12V when ECU is on

* Please remember this is a low current device! Ensure that Check Engine and Glow Plug lights are less than 200mA (2.5W @ 12V), which is the case for most original equipment incandescent bulbs and LEDs found in most instrument pods. If you put too much current through this device, it will NOT be covered under warranty.

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Common Questions and Answers:

Q: What ECUs are known to work with CAN2DASH?

A: The following Volkswagen Automobile Group Diesel ECUs work with CAN2DASH.

- Bosch EDC15 | Volkswagen Part Number 038 906 01x
- Bosch EDC16 | Volkswagen Part Number 038 906 01x
- Bosch EDC16 | Volkswagen Part Number 03G 906 02x
- Bosch EDC17 | Volkswagen Part Number 03L 906 01x

Q: What pins on my ECU are CAN bus?

A: CAN-low is ORANGE/BROWN, and CAN high is ORANGE/BLACK

- 121 pin ECUs = CAN Low T121/6, CAN High T121/7
- 154 pin ECUs = CAN Low T154/66, CAN High T154/89

Q: Why are both the Check Engine and Glow Plugs lights slowly flashing, 1sec on, 1sec off?

A: This means there is an internal fault in the CAN2DASH. Email us for troubleshooting.

Q: Why are both the Check Engine and Glow Plugs lights flashing "SOS" (fast fast fast, slow slow slow, fast fast fast)?

A: CAN2DASH is working correctly, but it is not receiving any CAN bus communication. Check that that ECU on, and that the CAN wire are correctly connected.

Q: What does a negative trigger mean?

A: When the CAN2DASH wants the Check Engine, Glow Plug lights or the Radiator Fan relay to come on, it will provide a ground for that circuit, as opposed to 12V. The other side of the device must see 12V at all times when the key is on.

Q: What gauge wire should be used in the spring terminals

A: Stranded, 20 to 22 gauge

NOTICE:

Fast Forward's policy is one of continual development and improvement. For that reason, we reserve the right to change specifications without notice.

WARRANTY:

This product is warranted against defects in material and workmanship while used in normal service for 1 (one) year from the date of sale to the original customer. Fast Forward Automotive's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to Fast Forward Automotive. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or connections, or if for any other reason Fast Forward Automotive determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of Fast Forward Automotive and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at Fast Forward Automotive's option. In no event shall Fast Forward Automotive be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

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