

# **K+DCAN USB Interface**



## **Application Note**

# **Connection Stability**

**( On DCAN equipped Vehicles )**

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**Our K+DCAN USB Interface came in the beginning unlike products from other vendors with full backward compatibility to older K-Line equipped vehicles, many of those vehicles use besides the primary K-Line on pin7 also the secondary K-Line on pin8 for additional modules (ECUs). Unfortunately on the latest F Series DCAN equipped vehicles that pin got re-used as Ethernet activation which interfered with that full backward compatibility by causing connection problems if connected to an F Series.**

**Because most customers prefer the ability to work on latest DCAN equipped vehicles over the full backward compatibility to older K-Line equipped vehicles - pin8 was physically removed from the Interface to enable that. The consequence from that step is that when used in backward compatibility mode on older K-Line equipped vehicles that the Interface now only covers modules (ECUs) connected to the primary K-Line on pin7. Modules (ECUs) connected to the secondary K-Line on pin8 will no longer be directly accessible.**

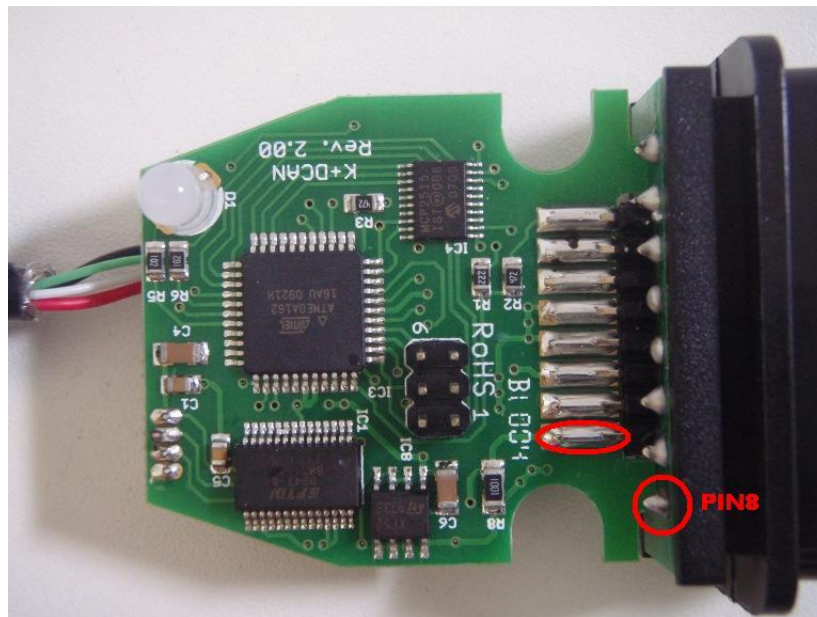
**If you experience problems with the stability of your connection while working on a DCAN vehicle it is most likely one of the following 2 issues:**

- You did not set the latency of the driver from the default 16 msec. to 1 msec. and therefore your connection times out if the USB data packet cannot be filled within the timeout required by the software you use, please refer to the Driver Installation Manual for more details about how to set the Latency to 1 msec.**
- You work on a pretty new DCAN equipped vehicle such as the F Series with a cable that got pin8 still installed for backward compatibility to older K-Line equipped vehicles, remove pin8 for example by de-soldering it from the OBD2 header PCB. (You will have to open the Interface for that, this operation if done properly does not affect the warranty of the product)**

**Close-UP Picture of an Interface with pin8 removed:  
(Second Generation)**



**Another view on the complete PCB:**



**All the brands mentioned in this Manual belong to their  
respective owners.**