

## Turning on Audi Komfort modules.

### Materials:

- 1 laptop with vector canoe software
- 1 vector (CAN / LIN Interface)
- 1 Dongle license key
- 1 USB cable for printer
- 1 CANCable 2Y
- 1 DC Power supply (0-30 VDC)
- 1 DB9 cable with banana men therminals (yellow, green, red and black)
- 1 Harnes with banana men therminals (yellow, green, red and black)
- Audi Komfort Modules

### Steps:

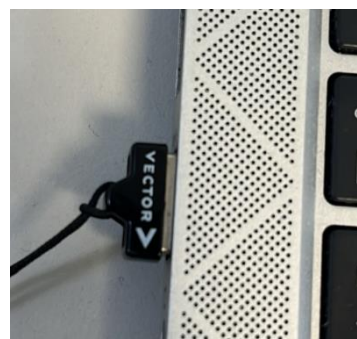
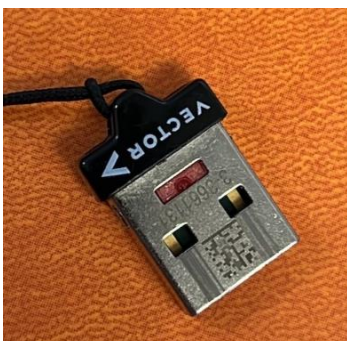
1. Turn on the laptop



1.1. User = Perez, Diego

1.2. PW = Bhtcgroup.2

2. Plug the dongle license key into any usb port on the laptop.



### 3. Connect the hardware

3.1. Connect the Vector to the laptop with the USB cable for printer

3.2. Connect the CANCable 2Y to the Vector, in the port “CH2\4”



3.3. Connect the A output of the CANCable 2Y TO THE Harness DB9 cable with banana men therminals (yellow, green, red and black)

3.4. Connect the banana therminals with their color (red with red, green with green etc)

3.5. Turn on the power supply

3.6. Set the power supply to 14 VDC

3.7. Connect the black banana to the negative terminal of the dc power supply

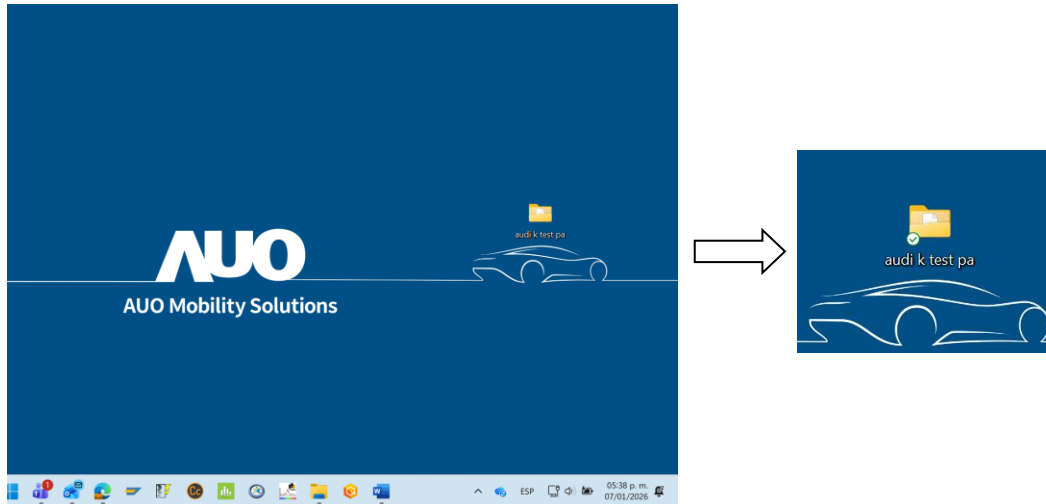
3.8. Connect the red banana to the positive terminal of the dc power supply

3.9. Plug the connector with the module

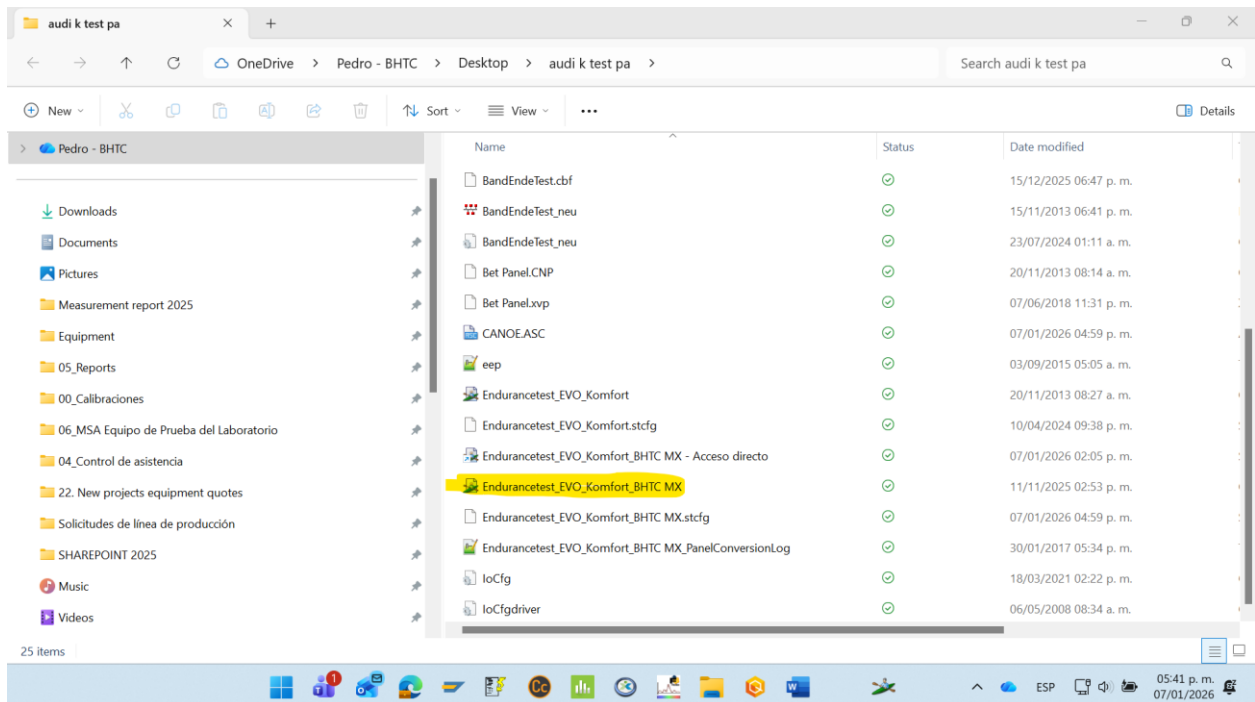


4. In this moment the hardware is already connected

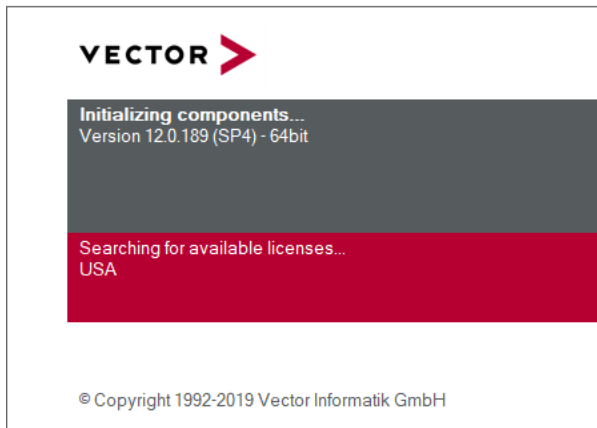
5. Open the folder “audi k test pa” located in the desktop



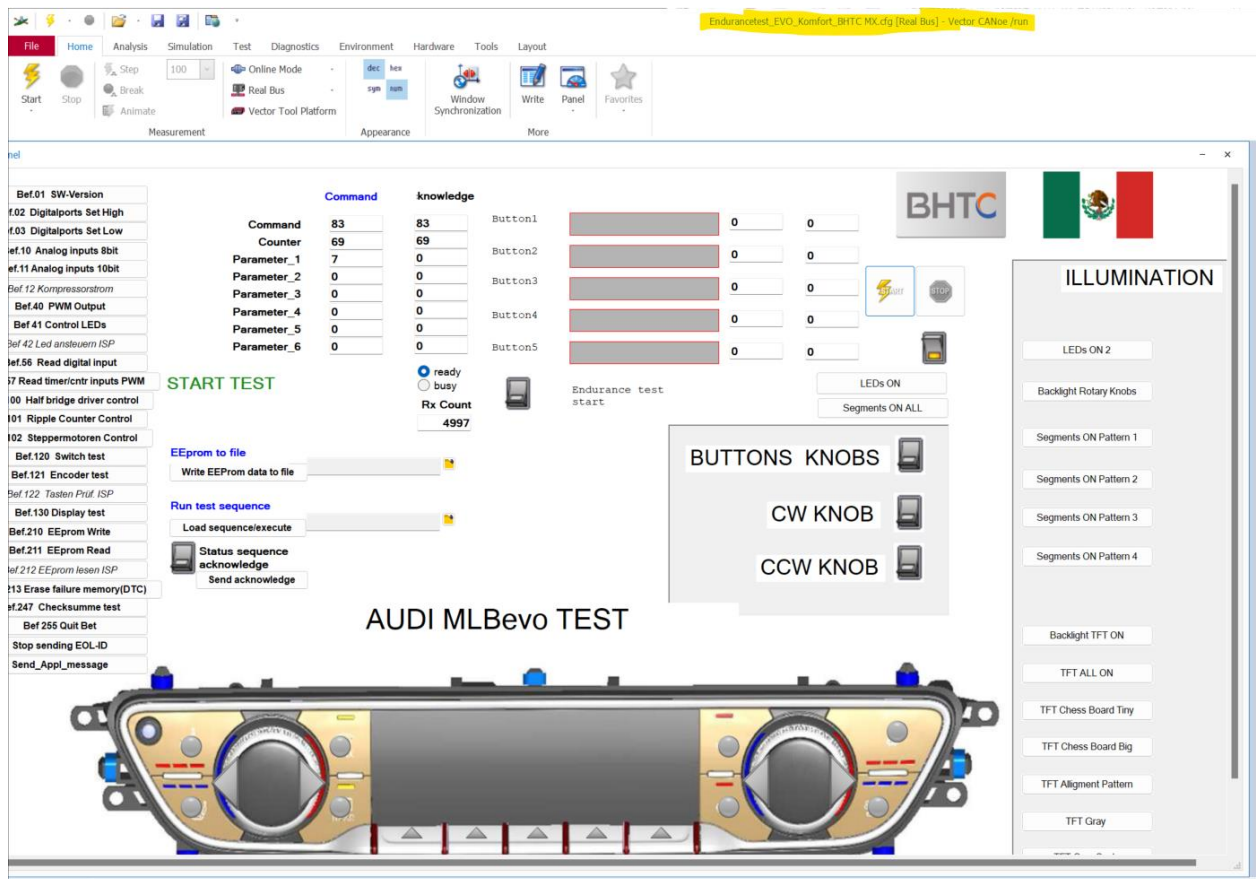
6. Open the program called “Endurancetest\_EVO\_Komfort\_BHTC MX”



7. This window will open



8. After 2 minutes this window will appear, extend the panel to have better visibility of the buttons



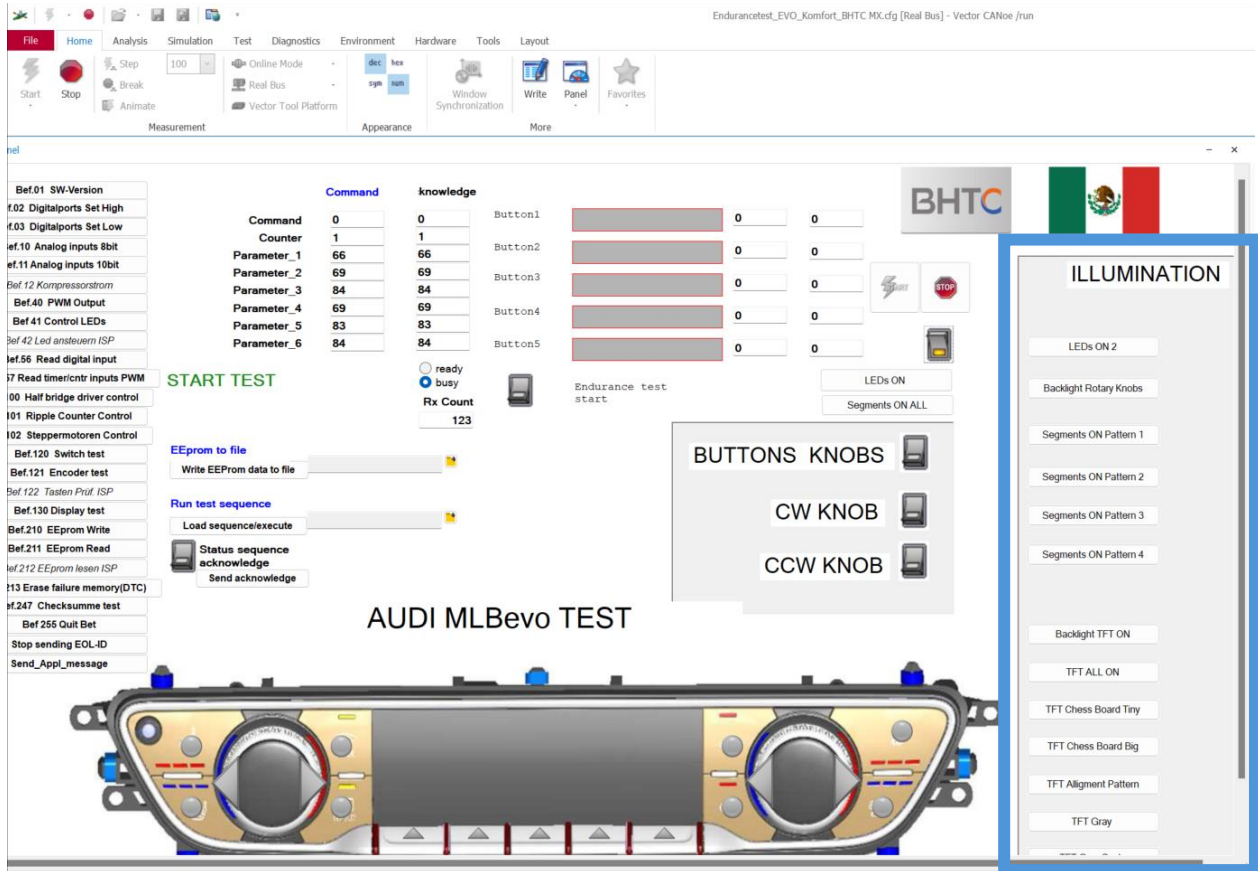


The screenshot displays the BHTC MX.dg software interface, which is used for testing the AUDI MLBevo TEST. The interface is organized into several key sections:

- Top Menu Bar:** Includes File, Home, Analysis, Simulation, Test, Diagnostics, Environment, Hardware, Tools, and Layout.
- Toolbar:** Contains icons for Start, Stop, Break, Animate, and various test functions like Online Mode, Anal Bus, Vector Tool Platform, Window Synchronization, Write, Panel, and Favorites.
- Left Sidebar:** Lists test items, including Bef.01 SW-Version, Bef.02 Digitalports Set High, Bef.03 Digitalports Set Low, Bef.10 Analog inputs 8bit, Bef.11 Analog inputs 10bit, Bef.12 Konfigurationsstrom, Bef.40 PWM Output, Bef.41 Control LEDs, Bef.42 Led anstreichen ISP, Bef.56 Read digital input, Bef.57 Read timercnt inputs PWM, Bef.100 Half bridge driver control, Bef.101 Ripple Counter Control, Bef.102 Steppermotoren Control, Bef.120 Switch test, Bef.121 Encoder test, Bef.122 Tasten Prof. ISP, Bef.130 Display test, Bef.210 EEPROM Write, Bef.211 EEPROM Read, Bef.212 EEPROM lesen ISP, Bef.113 Erase failure memory(DTC), Bef.247 Checksumme test, Bef.255 Quit Bat, Stop sending EOL-ID, and Send\_Appel\_message.
- Central Command/Knowledge Table:**

Command	0	1	Parameter_1	66	Parameter_2	69	Parameter_3	84	Parameter_4	89	Parameter_5	83	Parameter_6	84
Button1	0	0	Button2	0	0	Button3	0	0	Button4	0	0	0	0	
Button5	0	0												
- Right Sidebar:**
  - Buttons:** Includes a 'STOP' button (highlighted by a blue arrow) and a 'START TEST' button.
  - Knobs:** Includes a 'CCW KNOB' button.
  - Test Parameters:** Includes 'LEDs ON 2', 'Backlight Rotary Knobs', 'Segments ON ALL', 'Buttons ON Pattern 1', 'Buttons ON Pattern 2', 'Buttons ON Pattern 3', 'Buttons ON Pattern 4', 'Backlight TFT ON', 'TFT ALL ON', 'TFT Chess Board Tiny', 'TFT Chess Board Big', 'TFT Alignment Pattern', and 'TFT Gray'.
- Bottom Section:** Displays a 3D model of the AUDI MLBevo TEST hardware, showing the front panel with various buttons and knobs.

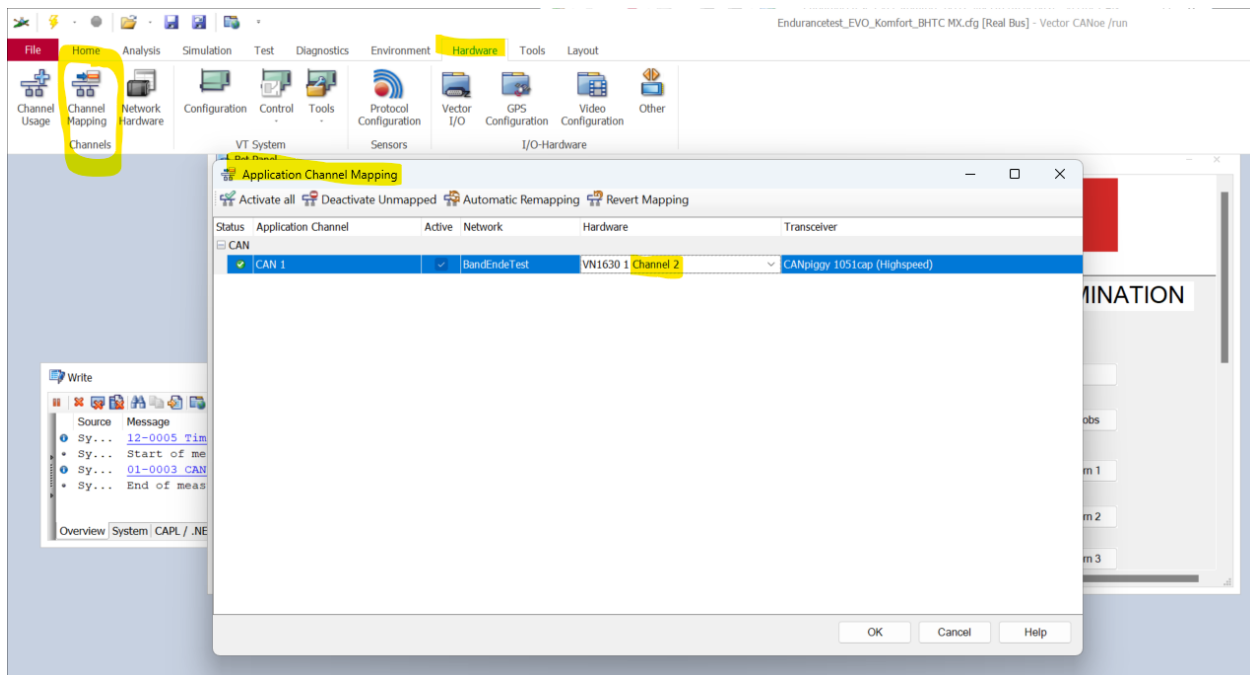
11. In this moment you can turn on the leds and the display with this buttoms, you need to press first the button LEDs ON 2, then you can turn on the TFT



12. If the module doesn't turn on is possible that the channel is incorrect, for this issue you can check:
  - 12.1. The hardware connection
  - 12.2. The output of the dc power supply
  - 12.3. The vector channel is incorrect

13. If the module doesn't turn on with the step 12 options, you can try changing the channel, for example, changing to the B output in the CANCable 2Y or changing to the CH1\3, to ensure the connection you can go to:

- Hardware
  - Channel mapping



In this window you can check the channel in the program and change to other if is necessary.

14. If these options don't solve the problem, you can contact us, and we can schedule a meeting or support by mail or teams.

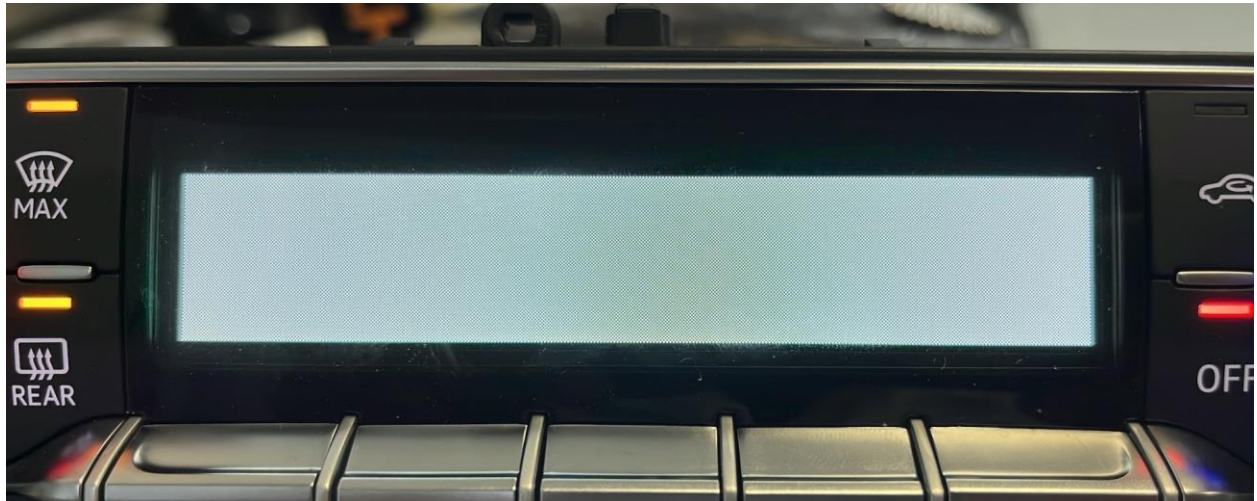


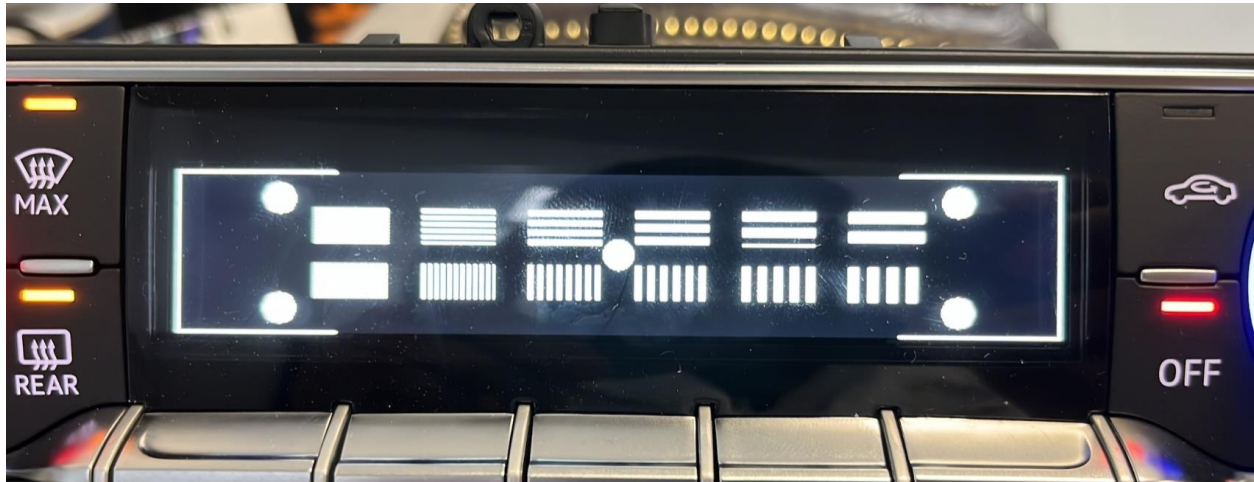
Images of the module on:











Other images:





