# Hirschmann Koxha

TrionicSuite Logging



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## TRIONICSUITE

You can obtain the corresponding TrionicSuite from the following links: <u>https://txsuite.org/download/</u> <u>https://hirschmann-koxha.de/en/informations/downloads/</u>

In the respective "extras" there are a large number of firmware files, which, however, are of no interest to us.

Download, install and start the appropriate TrionicSuite for your vehicle.

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### INTERFACE CONFIGURATION

In order to be able to operate Live Logging on your vehicle, you not only have to set up and configure your interface properly at the driver level, but also set it up in the TrionicSuite.

# T7Suite

"File -> Settings -> Realtime settings"

Settings		
User interface settings		
Auto size new mapwindows	🗹 Auto load last file on startup	Show mapviewers in seperate windows
Auto size columns in mapviewer	Fancy docking	Vse new mapviewer
Use red and white maps	Hide symbol window	Synchronize mapviewers
Don't display colors in mapviewer	Auto dock maps from same file	🗹 Write timestamp marker in binary
Show table upside down	🗹 Auto dock maps with same name	Always re-create repository items
Show graphs in mapviewer	New panels are floating	🗹 Use T7Suite AFR maps
Default view size for maps High resolution s	creen (1600 * 1200) 🔻	No closed loop indicator 🔻
Default view type for maps Easy view	•	
General settings		
🗹 Auto update checksum	🗹 Show addresses and lengths in Hex	Request project notes
Auto fix footer	Enable CAN logging	Project folder C:\Users\Rey\Documen ····
Realtime settings		
Auto generate LogWorks file after session	Interpolate timescale for LogWorks	Measure AFR in lambda
Only P-bus connection	Use wideband O2 (pin 16) with symbol	DisplProt.AD_Scanner   Configuration
Use additional CANbus frames	Auto update SRAM viewers every	20 🜲 seconds
$\mathbf{V}$ Reset realtime symbol on tabpage switch		Use wideband O2 on com port
CANBus adapter type OBDLink SX	Adapter COM5 🔻	Configuration Notifications
Wideband device LC1 ~	Wideband com port COM5 ~	
Autotune settings Autologging settings		Cancel Ok

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# T8SuitePro

"File -> Settings -> Realtime settings"

Settings		
User interface settings		
Auto size new mapwindows	🗹 Auto load last file on startup	Show mapviewers in seperate windows
Auto size columns in mapviewer	Fancy docking	☑ Use new mapviewer
Use red and white maps	Hide symbol window	Synchronize mapviewers
Don't display colors in mapviewer	Auto dock maps from same file	Write timestamp marker in binary
Show table upside down	🗹 Auto dock maps with same name	Always re-create repository items
Show graphs in mapviewer	New panels are floating	☑ Use T7Suite AFR maps
Default view size for maps High resolution scr	reen (1600 * 1200) 🔻	No closed loop indicator 👻
Default view type for maps Easy view	•	
General settings		
🗹 Auto update checksum	🗹 Show addresses and lengths in Hex	Request project notes
Auto fix footer	Enable CAN logging	Project folder C:\Users\Rey\Documen ····
Realtime settings		
Auto generate LogWorks file after session	Interpolate timescale for LogWorks	Measure AFR in lambda
Only P-bus connection	Use wideband O2 (pin 16) with symbol	DisplProt.AD_Scanner   Configuration
Use additional CANbus frames	Auto update SRAM viewers every	20 🜲 seconds
$\mathbf{V}$ Reset realtime symbol on tabpage switch		Use wideband O2 on com port
CANBus adapter type OBDLink SX 🝷	Adapter COM5 🔻	Configuration Notifications
Wideband device LC1 ~	Wideband com port COM5 ~	
Autotune settings Autologging settings		Cancel Ok

Confirm the settings with "Ok".

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# REALTIME

Before you can now connect to your ECU, you must first open the file in TrionicSuite that is actually on the ECU.

This is done via: *"File -> Open file"* 

Now start the engine of your vehicle and plug the interface into the OBD socket.

Switch to the "**Realtime**" tab and select "**Connect ECU**". The interface should now connect to the control unit of your vehicle.

Click on "**Toggle realtime panel [SHIFT + F1]**". The values should now change steadily. If this is the case, you do not have to do anything else and you can start your test drive. All data is recorded here.



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# STATIC LOGGING

The above method is particularly useful when actual problems arise that have no obvious cause.

More often, however, it will be the case that we will rather ask you about the socalled "knock" and "misfire counter".

Basically, the process is identical to the above. However, it is sufficient to switch on the ignition to carry out the readout.

### T7Suite

View knock count map View false knock count map View real knock count map View misfire map

# **T8SuitePro**

View knock count map View misfire tab

Please take pictures of the maps, e.g. using the "Snipping Tool", which is installed by default on your computer, and send them to us.

# CAUSES

If a large number of knocks occur after a short journey, please install the original software on your vehicle again immediately!

Otherwise, you run the risk of particularly severe damage.

Reasons for knocking can be:

- Mixture too lean (fuel pump delivery rate too low, injectors clogged / contaminated; air leakage)
- Temperatures that are too high (larger intercoolers can help)
- Poor fuel quality (octane number and the associated knock resistance)
- Defects in the ignition system (e.g. too old spark plugs)
- Changed timing (e.g. due to stretched chain)
- Defect crankshaft position sensor

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