

Tesla Powertrain Diagnostics (“TPD”) for Toyota RAV4 EV, v1.1.42 “simplified” installation

Feedback indicates that this can be installed on WinXP, W7, W8.x, W10. 32-bit or 64-bit. I have personally tested it working on W10 installations only.

It is recommended to install this setup on a dedicated “garage” laptop, one that never connects to the internet, and especially ***never allows Windows to apply an update*** or patch. If there’s a major software environment change (such as a major OS update), or ***a significant hardware change (SSD, mainboard, or CPU), the program will fail to load . . . forever***, until another license key is obtained.

Yes, if you change the HDD or SSD, this program must be re-licensed. If you run the installer again, it must be re-licensed.

If you change it, it breaks. You are warned.

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Obtain these files:

Installer:

- [setup-1.1.42-rav4-service.exe](#)

Additional gateway.dll

- [gateway.dll](#)

Latest firmware tarball:

- [firmware-release-1.3.101.tar](#)

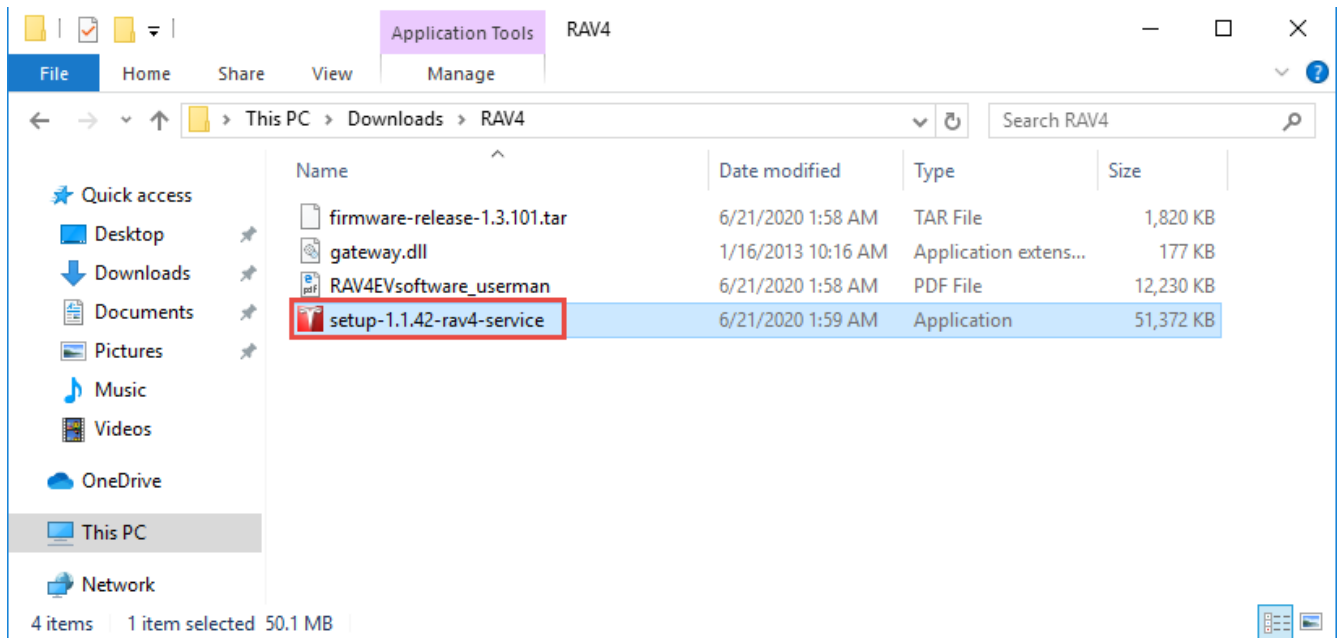
(optional)

Toyota “User Manual” for TPD:

- [RAV4EVsoftware\\_userman.pdf](#)

(Techstream-centric and mostly useless until pg. 28, but there are a couple of good nuggets)

Run the installer *setup-1.1.42-rav4-service.exe*



(Verified steps for Windows 10 below)

Allow Windows User Account Control ("UAC") permission to install

At the "Welcome" screen, select "Next"

Agree to the License Agreement

Choose an installation location (I accept the offered default)

Let it add a shortcut to the Start Menu

If you want a desktop icon for TPD, select that option

Confirm the above choices by selecting "Install"

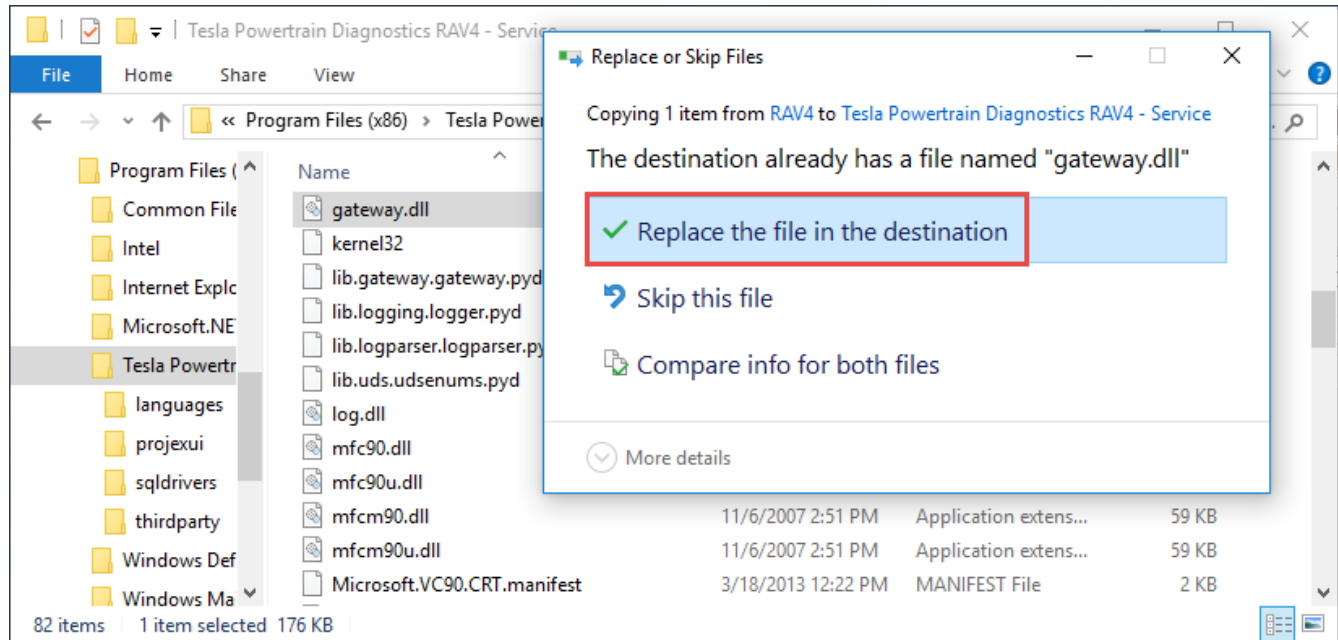
**Do not launch the program**; un-check that option, and select "Finish"

Copy the additional gateway.dll over the installed one, replacing it. Copy to:

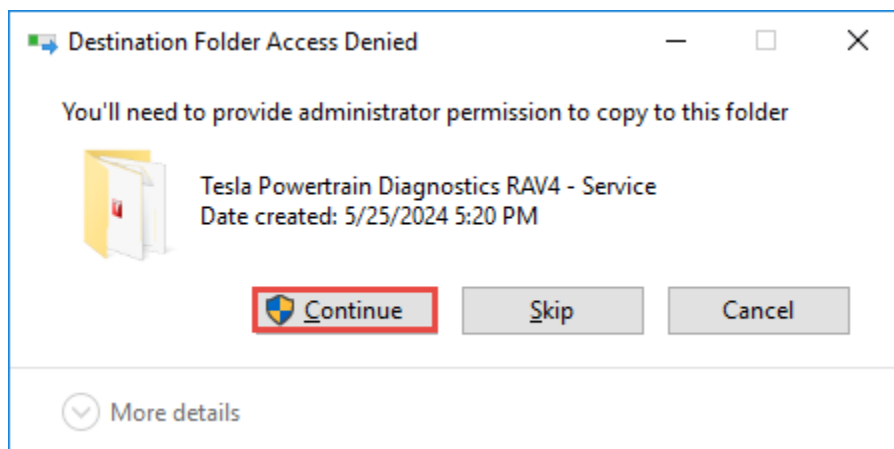
[C:\Program Files \(x86\)\Tesla Powertrain Diagnostics RAV4 – Service](#)

OR

This PC > Local Disk (x:) > Program Files (x86) > Tesla Powertrain Diagnostics RAV4 – Service



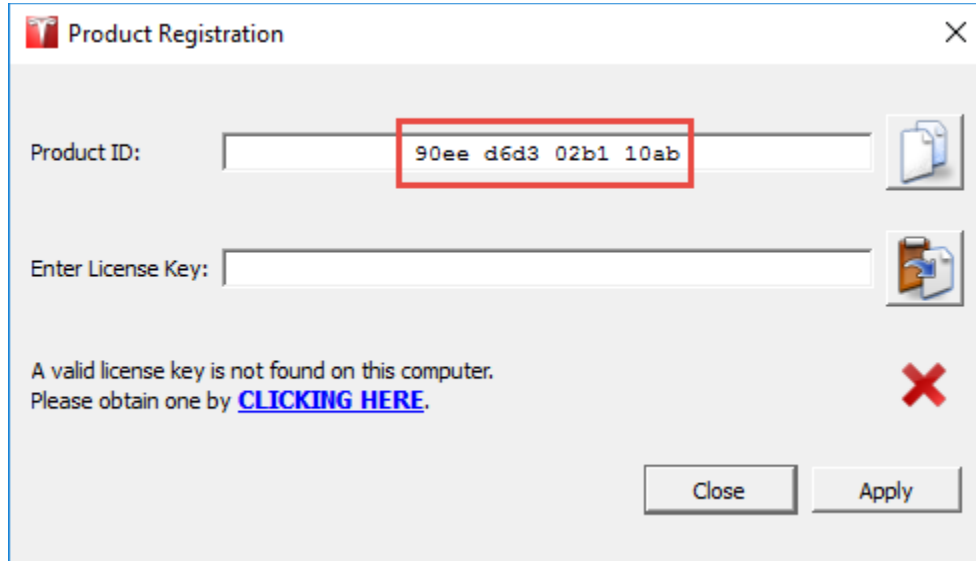
You will (probably) be asked for Administrator permission to overwrite the old file. Choose "Continue".



Start the program.

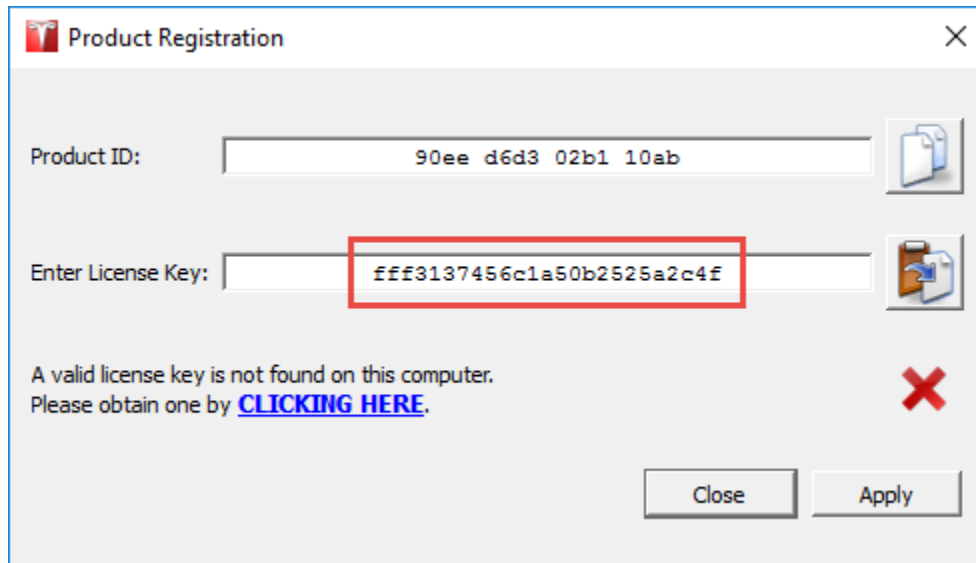
It will display a licensing dialogue immediately. If it doesn't, select:

Help|Product Registration  
to activate the licensing dialogue.



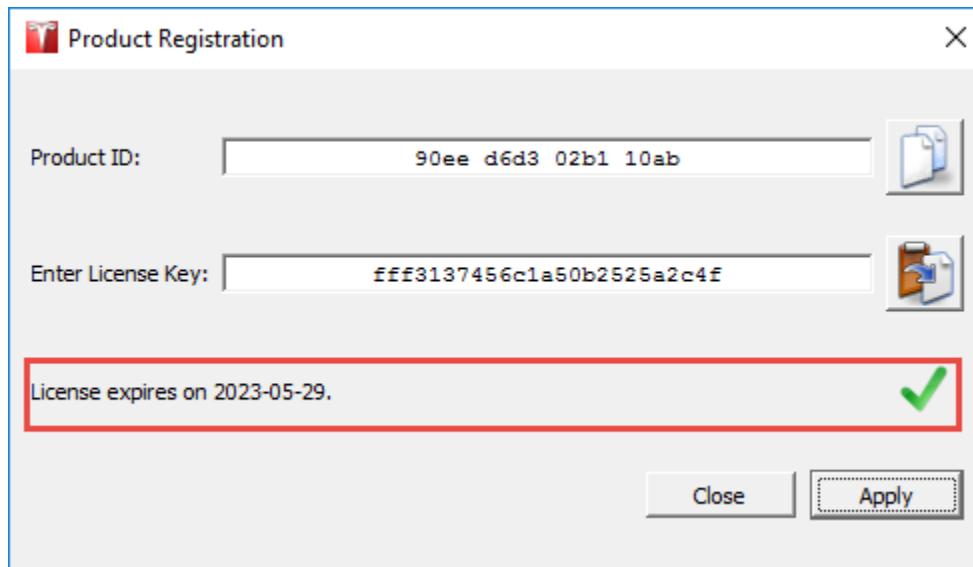
From the Product ID: field, copy the 16 characters displayed and send them to me (or someone else who will help). I (they) will send back a 25-character license.

Paste the license key to the "Enter License Key" field. With, or without spaces is fine.



Select "Apply".

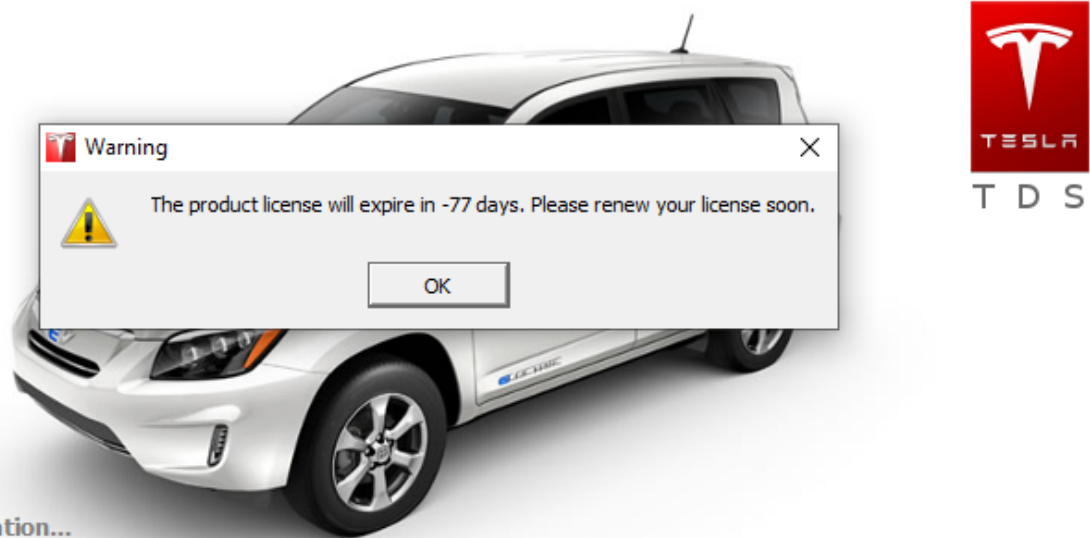
You should see “License expires on 2023-05-29”. This is normal.



[If you see instead, “The entered license key is invalid.”, then you probably forgot to copy *gateway.dll* above. **Close the program and do that.** The license key will *not* work in 2024- on if you don’t do it in this order.]

Select “Close”.

If the program has closed, open it. You will see a dialogue “The product license will expire in *-nnn* days. Please renew your license soon.” This is normal:

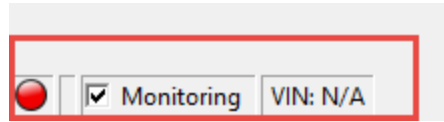


Validating registration...  
v1.1.42

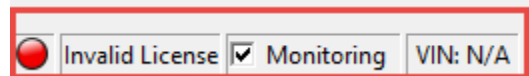
It will display *every time you start the program* and every time you’ll have to . . .

Select "OK".  
The program will continue loading.

At this time, the lower left corner of the program will show a red dot and "Monitoring".



If, instead, it shows a red dot and says "Invalid License":



. . . then something has gone amiss; re-check your steps above. You cannot proceed unless you see "Monitoring" at the lower left.

TPD is installed . . . but not configured. Its network connection needs a minor configuration

More details are at

<https://www.myrav4ev.com/threads/tesla-powertrain-diagnostics-tpd-v1-1-46.2602/>

under section:

### **TPD ethernet configuration**

In short,

Help|Network Configuration (grant UAC access)

Choose network interface (hint: NOT Wi-Fi)

Choose Adapter Mode: Vehicle Mode

OK

– end

Rev. history:

20240525 Initial