Tesla Powertrain Diagnostics RAV4 – Service Software User Manual

The Tesla Powertrain Diagnostics RAV4 - Service software is a program, running on the Techstream 2.0 device, which will communicate with the electric powertrain on the RAV4 EV. This software can be used to display DTCs, faults, and live data from the vehicle. In addition, the software can also be used to update the powertrain firmware (calibration update), extract and deliver vehicle log data information to engineers for additional diagnostics, and perform active tests on certain vehicle systems.

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1. Software Installation

Description:

Tesla Powertrain Diagnostics RAV4 - Service software is available for download on TIS. Go to TIS >> Diagnostics >> ScanTool >> Software Downloads portlet.



1. Click on "Run" to begin the download. Follow the prompts on the screen to complete the installation.



If you get the below error message saying the signature is corrupt or invalid, follow these directions.

😵 The signatur	e of setup-1.1.42-rav4-service.exe	is corrupt or inv	alid. Learn	more	Delete	e View do	wnloads
a. Click	on "View download	ls".					
2. Install full version	坐 View Downloads - Internet Explorer						
Software Installer 3. Register Techstrea 4. Set Techstream VI	View and track your downloads		Search download	٩			^
5. Label your Mongoo update)	Name	Location	Actions				
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Techstream V13.00.0 Use this Techstream i RAV4 EV 1.1.42 Diag Use this software for powertrain system.				Report that this program is un Rerun security checks on this	nsafe program arch capability.	link above to	
NOTICE: In order to r	Ontions			lear list Close	Saved Data. Clic	k the link above to	
• RAV4 EV Patcl	n Download (TESS)		Want Faster Dat	a? Dove to learn how to manage a	prrectly. Click th	e link above for	
			Stored Data Click the link ab	ove to learn how to view store	d data.		
			Do you have a u	ser account? Click the link about th	ove to learn more	e. ● 100%	~

b. Right click on the program and select "Run anyway".

If you get a Windows popup box asking if you want to allow the following program from an unknown publisher to make changes to this computer, click "Yes".

c. Click "Next".



2. Accept the License Agreement.



3. Select the Destination Location on the PC. Selecting the default location is preferred.

Here you will find quick access to various sof	tware downloads required for		3
Note: Administrator level rights are required	I to complete the installs.	Interactive tutorials are now available for Techstream software featur	es. Click on
Techstream V13.00.022 Software Update		the links below to view the latest tutorials.	
You should only use this update if you alr nstalled. If installing Techstream for the Software Installer located below	Setup - Tesla Powertrain Diagnostics R	AV4 - Service	
echstream V13.00.022 Full Software Inst Jse this Techstream installer to install and	Select Destination Location Where should Tesla Powertrain Diagno	stics RAV4 - Service be installed? ed data list. Click the link	above to
AV4 EV 1.1.42 Diagnostic Software Jse this software for diagnostics and vehic powertrain system.	Setup will install Tesla Powert following folder.	rain Diagnostics RAV4 - Service into the d search capability. Click t	he link
IOTICE: In order to maintain full function:	To continue, click Next. If you would li C:\Program Files\Tesla Powertrain Dia	e to select a different folder, click Browse. gnostics RAV4 - Service Browse	ink above to
ou must download and install the patch b one one time.		rs correctly. Click the link	above for
Patch Installation Instructions RAV4 EV Patch Download (TESS)		a datalist.	
	At least 78.2 MB of free disk space is r	equired.	
		above to learn more.	
		After logging in, click the "Help" link on the homepage and search for "Accessibility Requirements".	er Daily.
		Legacy Diagnostic Tester Information	
		Legacy Diagnostic Tester Information Click here to find the last software release and reference inform	mation for the
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4. Confirm the Start Menu Folder. Selecting the default location is preferred.

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diagnostics.			
Note: Administrator level rights are required to co	mplete the installs.	Interactive tutorials are now available	for Techstream software features. Click on
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Software Installer located below.			t here!
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powertrain system.	Setup will create the programs	s shortcuts in the following start menu folder.	a search capability. Click the link
	o continue, click Next. If you would like	e to select a different folder, click Browse.	
	Tesla Powertrain Diagnostics RAV4 - Se	Browse	nd Saved Data. Click the link above to
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			is correctly. Click the link above for
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RAV4 EV Patch Download (TESS)			
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		Legacy Diagnostic Tester Information	on
		Legacy Diagnostic Tester Inform	nation
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NOTE: It is recommended that the box labeled "Create Desktop Icon" be checked for easier access to the software.

Here you will find quick access to various s	ottware downloads required for		
diagnostics.	ortware downloads required for		
Note: Administrator level rights are requir	ed to complete the installs.	Interactive tutorials are now ava	alable for Techstream software features. Click on
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installed. If installing Techstream for the	Setup - Tesla Powertrain Diagnostics	RAV4 - Service	t here!
Software Installer located below.	Select Additional Tasks		
Techstream V13.00.022 Full Software Inst	Which additional tasks should be perf	ormed?	A led data list. Click the link above to
Use this Techstream installer to install and			Colored data hat. Circk the link above to
RAV4 EV 1.1.42 Diagnostic Software			
Use this software for diagnostics and vehic	Select the additional tasks you would	like Setup to perform while installing Tesla	d search canability. Click the link
powertrain system.	Powertrain Diagnostics RAV4 - Service	e, then dick Next.	
	Additional icons:		
	Croate a decktee icen		nd Saved Data, Click the link above to
NOTICE: In order to maintain full function:	Create a desktop icon		
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		Legacy Diagnostic Tester Info	rmation
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		Click here to find the last	t software release and reference information for the
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5. The software is now ready to install.

Techstream Lite Getting Started After you obtain a PC that meets the minim requirements, follow these easy steps to g	um network and hardware at your Techstream Lite configured	Windows 8: 32-bit and 64-bit OS Now Supported Refer to this document for additional information.	
quickly. For detailed instructions refer to t Instructions.	🌃 Setup - Tesla Powertrain Diagnostics RA	W4 - Service	
1. Install Mongoose MFC VIM Software (Se MFC VIM being updated) Mongoose MFC VIM (Clear Case) Updates Important: If you have a Mongoose MFC W	Ready to Install Setup is now ready to begin installing Te Service on your computer.	esla Powertrain Diagnostics RAV4 -	Urder Information!
updated to Pro firmware, use MongoosePro MongoosePro MFC VIM (Blue Case or upd Techstream 2.0 uses MongoosePro MFC V	Click Install to continue with the installat change any settings.	tion, or click Back if you want to review or	
MongoosePro MFC2 VIM (Green Case) 2. Install full version of Techstream Softw Software Installer	Destination location: C:\Program Files\Tesla Powertrain	Diagnostics RAV4 - Service	
3. Register Techstream Software 4. Set Techstream VIM Selection to Monge 5. Label your Mongoose MFC VIM as Mong update)	Start Menu folder: Tesla Powertrain Diagnostics RAV4 Additional tasks: Additional icons: Create a desktop icon	- Service	I
Software Downloads		-	
Here you will find quick access to various s diagnostics. Note: Administrator level rights are requi	4))	
Techstream V13.00.022 Software Update You should only use this update if you alr installed . If installing Techstream for the F Software Installer located below. Techstream V13.00.022 Full Software Insta Use this Techstream installer to install and/ RAV4 EV 1.1.42 Diagnostic Software Use this software for diagnostics and vehicl powertrain system.	irst time, use the Techstream Full ller or update Techstream software. e firmware updates for the RAV4 EV	 < Back Instal Cancel Just getting started using Techstream? Start Customize Datalist Tutorial Lost in a sea of parameters? Try a customize learn more. TIS Keyword Search Tutorial Find TIS information fast using new keyword above to learn more. Saving Techstream Data Files Tutorial 	chstream software reatures. Click on here! Id data list. Click the link above to search capability. Click the link
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6. The software begins installing.

Techstream Lite Getting Started After you obtain a PC that meets the minimum network an requirements, follow these easy steps to get your Techstre quickly. For detailed instructions refer to t Instructions.	d hardware am Lite configured Powertrain Diagnostics R/	Windows 8: 32-bit and 64-bit OS Now Supported Refer to this document for additional information.	
1. Install Mongoose MFC VIM Software (S MFC VIM being updated) Mongoose MFC VIM (Clear Case) Updates Important If you have a Mongoose MFC V updated to Pro firmware, use MongoosePro MongoosePro MFC VIM (Blue Case or upd Techstream 2.0 uses MongoosePro MFC V MongoosePro MFC2 VIM (Green Case) Jostell full unstine of Tarbateneo Schure	t while Setup installs Tesla Po uter. files n Files\Tesla Powertrain Diag	wertrain Diagnostics RAV4 - Service on RAV4 - Service Notes RAV4 - Service (QtWebKit4.dll	n Order Information!
2. Install full reliable for the forestearth software Software Installer 3. Register Techstream Software 4. Set Techstream VIM Selection to Mongo 5. Label your Mongoose MFC VIM as Mong update)			,
Here you will find quick access to various s diagnostics. Note: Administrator level rights are requi Techstream V13.00.022 Software Update You should only use this update if you all		Cancel	echstream software features. Click on
Installed. If installing Techstream for the first time, use the Software Installer located below. Techstream V13.00.022 Full Software Installer Use this Techstream installer to install and/or update Techs RAV4 EV 1.1.42 Diagnostic Software Use this software for diagnostics and vehicle firmware upda powertrain system.	e Techstream Full stream software. ates for the RAV4 EV	Just getting started using Techstream? Sta Customize Datalist Tutorial Lost in a sea of parameters? Try a customiz learn more. TIS Keyword Search Tutorial Find TIS information fast using new keywor above to learn more.	rt here! zed data list. Click the link above to rd search capability. Click the link

7. The software is now installed. If the box is checked, the software will launch when you click "Finish".



2. Software Registration

Description:

The first time the Tesla Powertrain Diagnostics RAV4 - Service software is launched, it will prompt the user to register. There is also a manual process.

Both processes utilize the steps below (if the prompt shows up, skip to step 3).

- 1. Click on "Help".
- 2. Click on "Product Registration".
- 3. Click on "Copy Product ID" on the Product Registration Page.
- 4. Click on "CLICKING HERE" on the Product Registration Page.
- 5. Log into TIS if you have not already done so.
- 6. Follow instructions on TIS to complete the Registration Process.

3. Copy the Product ID by hitting the copy button shown below. After copying the Product ID, click on "CLICKING HERE" to launch the Scantool Registration page.

		I I I MANAGEMENT TOPO	
Here you will find quick access to various a diagnostics. Note: Administrator level rights are requi Techstream V13.00.022 Software Update You should only use this update if you all installed. If installing Techstream for the Software Installer located below.	sortware downloads required for ired to complete the installs. ready have Techstream software first time, use the Techstream Full	Interactive tutorials are now available for Techsl the links below to view the latest tutorials. TIS techstream New Users Demo Just getting started using Techstream? Start her	tream software features. Click on
Techstream V13.00.022 Cull CoAuron Toot Use this Techstream in RAV4 EV 1.1.42 Diagno Use this software for di powertrain system.	Product Registration Product ID: eci	b1 662d 03b1 10e3	Click the link
NOTICE: In order to m you must download an done one time. Patch Installal RAV4 EV Patcl	A valid license key is <u>not found on this comp</u> Please obtain one by <u>CLICKING HERE</u> ;	outer.	e link above for
Validating regis v1.1.42	tration	TIS feeling a little sluggish? Click the link above After logging in, click the "Help" link on the hom "Accessibility Requirements".	to learn more at Dealer Daily. epage and search for
		Legacy Diagnostic Tester Information	se and reference information for the
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4. Follow the directions on the Scantool Registration page shown below.

Product ID: Calculate Key 1. Copy Product ID from RAV4 EV software 2. Paste Product ID into text box on TIS 3. Click on 'Calculate Key' 4. Double Click on License Key to highlight and then copy by Right Clicking and selecting Copy. 5. Paste License Key into RAV4 EV software 6. Click on 'Apply' 7. Click on 'Close'	Product Registration Product ID: 0698 2165 0280 50a5 Enter License Key: 1ec31 18c5a a143c 7994b 787c7 Enter License Key: 1ec31 18c5a a1

5. Paste the Product ID into the text box, and then click on "Calculate Key".

Product ID: □ <t< th=""><th>Scantool Registration</th><th>^</th></t<>	Scantool Registration	^
 1. Copy Product ID from RAV4 EV software 2. Paste Product ID into text box on TIS 3. Click on 'Calculate Key' 4. Double Click on License Key to highlight and then copy by Right Clicking and selecting Copy. 5. Paste License Key into RAV4 EV software 6. Click on 'Apply' 7. Click on 'Close' 	Product ID: cb1 662d 03b1 10a3 ×	
Scantool Registration 2 Product ID: 2165 3245 6565 2345 License Key: XXXX XXXX XXX XX 4 3 Calculate Key	 Copy Product ID from RAV4 EV software Paste Product ID into text box on TIS Click on 'Calculate Key' Double Click on License Key to highlight and then copy by Right Clicking and selecting Copy. Paste License Key into RAV4 EV software Click on 'Apply' Click on 'Close' 	Product Registration Product ID: 0698 2165 0280 50a5 Enter License Key: 1cc31 18c5a a143c 7504b 787c7 A vaid license key is not found on this computer. To ottam a license, piesse cloic on the Register button and follow the instructions. Register Close Apply
		TIS Scantool Registration 2 Product ID: 2165 3245 6565 2345 License Key: XXXX XXXX XX 4 3 Calculate Key
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6.Double click on "License Key" to highlight and then copy by Right Clicking and selecting "Copy".

Product IID: Ecbi 662d 02b1 10a3 License Krey: Deck Mit Report 201 Incert Report 2. Paste Product ID from RAV4 EV soft 3. Click on 'Calculate Key' 4. Double Click on License Key to highlig Right Clicking and selecting Copy. 5. Paste License Key into RAV4 EV soft 6. Click on 'Apply' 7. Click on 'Close'

7. Paste the key into the "Enter License Key" box on the Product Registration Page.

antool Registration				
(Product ID: ccb1 License Key: 9593	662d 03c1 10a4 1ba0a7cbfcd88eac29ce0		
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 Double Click on License Right Clicking and selec Paste License Key into F Click on 'Apply' 	A valid license key is not found o Please obtain one by <u>CLICKIN</u>	on this computer. <u>G HERE</u> .	Paste License Key paster button and follow the instructions. Close	X
7. Click on 'Close'			Close Apply	7 🗙
			Scantool Registration	
			License Key: XXXX XXXX XXX X Calculate Key	
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8. Click "Apply" to finish the registration process.

Product ID: ccb1 662d 03b1 10a3 License Key: 95431fda9961e310eefd85b11 Caladate Kou Caladate Kou D: ccb1 662d 03b1 1 ense Key: 95431fda9961e310eef ense key is not found on this computer.	0a3 Ca85b11
D: ccb1 662d 03b1 1 ense Key: 95431fda9961e310eef ense key is not found on this computer.	.0a3 (0a3
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tain one by <u>CLICKING HEKE</u> .	
]	Scantool Registration
	2 Product ID: 2165 3245 6565 2345 License Key: XXXX XXXX XX4 3 Calculate Key
	Product Registration

9. When the registration completes successfully, you will see a green checkmark.

NOTE: The software will need to be reregistered every six months.

1. Copy Product ID from R 2. Paste Product ID into te 3. Click on 'Calculate Key' 4. Double Click on License	Product ID:	ccb1 662d 03c1 10a4 95931ba0a7cbfcd88eac29ce0 Colordate Kow ccb1 662d 03c1	1024	
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Right Clicking and select 5. Paste License Key into 3. Click on 'Apply' 7. Click on 'Close'	Enter License Key:	95931 ba0a7 cbfcd 88	leac 29ce0	Lacia a143c 7904b 787c7
			Scantool Registr Product ID: License Key:	ration 2165 3245 6565 2345 xxxx xxxx xxx xx 4 3 Calculate Key
			Product Registration	

NOTE: Sometimes a Windows Security Alert will appear. Just click on "Allow access" to proceed.

Product ID: [cb1662d 03b110a3] Licence Keu: 95431fda0061e310aefd85b11 Windows Security Alet Windows Firewall has blocked some features of this program Name: [cela_diagnostics.exe on all public and private Name: [cela_diagnostics.exe] Name: [cela_diagnosti	-	Scantool Registration
What are the risks of allowing a program through a firewall? What are the risks of allowing a program through a firewall? Cancel 3245 6565 2345 License Key: XXXX XXXX XX 4 Calculate Key Product Registration Product Registration		Product ID: content.org Lisence Kew. USL21fd:00.051.03.1 1. Copy Product ID from 2. Paste Product ID into 3. Click on 'Calculate Kee 4. Double Click on Licen Right Clicking and sel 5. Paste License Key int 6. Click on 'Apply' 7. Click on 'Close' 1. Copy Product ID from 2. Paste Product ID into 3. Click on 'Calculate Kee 4. Double Click on Licen Right Clicking and sel 6. Paste License Key int 6. Click on 'Apply' 7. Click on 'Close'

10. Click "Close" to return to the Tesla Software.

NOTE: If the License Key is invalid, when returning to the Tesla Software you will see a red indicator and it will say "Invalid License" in the lower left corner.

Select Directory: C:\Users\techstream2\Documents\Tesla\Logs	Battery Heater Active: Battery Chiller Active: Cabin Evaporate Mag. Valve:	Pedal Monitor Hardware Id: Thermal Controller Hardware Id:
Invalid License V Monitoring VIN: N/A		

3. Patch Installation

Description:

In order to maintain full functionality of the Tesla Powertrain Diagnostics RAV4 - Service software, you must download and install the patch on TIS. This process only needs to be done one time.

1. Ensure that the Tesla Powertrain Diagnostics RAV4 - Service software is already installed.



2. Save the "RAV4EVPATCHDOWNLOAD.ZIP" file to a temporary location (i.e.Desktop) on your PC

Here you will find quick access to various softwar diagnostics. Note: Administrator level rights are required to	re downloads required for complete the installs.	Interactive tutorials are now ava	ilable for Techstream software features. Click on			
hstream V13.00.022 Software Update		the links below to view the latest tutorials.				
You should only use this update if you already installed . If installing Techstream for the first ti Software Installer located below.	Internet Explorer	8	am? Start here!			
Techstream V13.00.022 Full Software Installer Use this Techstream installer to install and/or up	What do you want to do	with rav4evpatchtess.zip?	customized data list. Click the link above to			
RAV4 EV 1.1.42 Diagnostic Software Use this software for diagnostics and vehicle firm powertrain system.	Size: 522 bytes From: one.tis.toyota.com		v keyword search capability. Click the link			
 New Features Version 1.1.35 » Updated RAV4 EV Diagnostic Software User Man 	 Open The file won't be saved aut 	omatically.	rial d Data and Saved Data. Click the link above to			
NOTICE: In order to maintain full functionality of you must download and install the patch below. Jone one time.	→ Save		ting errors correctly. Click the link above for			
RAV4 EV Patch Download (TESS)	→ Save as					
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		Techstream User Account Do you have a user account? Clic	ck the link above to learn more.			

3. Confirm the location and click "Save".

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L			Diagnos	tic Tester.		reference information for the
018 Toyota Motor Sales, Inc.					Feedb	oack Privacy Policy Terms of Use
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4. Click "Open" to see the files.

Software Downloads Here you will find quick access to various software downloads required for diagnostics. Note: Administrator level rights are required to complete the installs. Techstream V13.00.022 Software Update You should only use this update if you already have Techstream software installed. If installing Techstream for the first time, use the Techstream Full Software Installer located below. Techstream V13.00.022 Full Software Installer Use this Techstream installer to install and/or update Techstream software. RAV4 EV 1.1.42 Diagnostic Software Use this software for diagnostics and vehicle firmware updates for the RAV4 EV powertrain system. • New Features Version 1.1.35 × Updated: 07/25/2013 NOTICE: In order to maintain full functionality of the RAV4 EV diagnostic software, you must download and install the patch below. This process only needs to be	TIS techstream New Users Demo Just getting started using Techstream? Start here! Customize Datalist Tutorial Lost in a sea of parameters? Try a customized data list. Click the link above to learn more. TIS Keyword Search Tutorial Find TIS information fast using new keyword search capability. Click the link above to learn more. Saving Techstream Data Files Tutorial Learn the difference between Stored Data and Saved Data. Click the link above to learn more. Error Reporting Best Practices There are some easy tips for reporting errors correctly. Click the link above for more information. Want Faster Data? Click the link above to learn how to manage a datalist. Stored Data Click the link above to learn how to view stored data. Techstream User Account Do you have a user account? Click the link above to learn more.
Patch Installation Instructions RAV4 EV Patch Download (TESS)	TIS Feeling a little sluggish? Click the link above to learn more at Dealer Daily. After logging in, click the "Help" link on the homepage and search for "Accessibility Requirements". Legacy Diagnostic Tester Information Click here to find the last software release and reference information for the Diagnostic Tester. Open Open folder View downloads X Terms of Use 100%

5. You should see 2 files:

- 1. configuration
- 2. Teslaconf.bat

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→ rav4ev	patchtess.zip				▼ * j	Searc	ch rav4ev;	patchte	255, 🔎
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🧮 Desktop	configuration	File	1 KB	No		1 KB	35%		10/14/2
🐌 Downloads 📃 Recent Places	teslaconf.bat	Windows Batch File	1 KB	No		1 KB	0%		7/9/201
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 Music Pictures 									
Videos									
🕌 Local Disk (C:)									
👊 Network									
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2 items									

6. Double click on the "Teslaconf.bat" file. When prompted, select "Extract all".

🔆 Favorites	Name	Туре	Compressed size	Password Size		Ratio	Date m
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\rm Downloads 🖳 🖳 Downloads	teslaconf.bat	Windows Batch File	1 KB	No	1 KB	0%	7/9/2014
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P Computer		This application may depend files in this folder. For the application to run pri that you first extract all files.	d on other compressed openly, it is recommended				
👽 Network		Extract	lun Cancel				

- rav4evpatchtess.zip ✓ 4→ Search rav4evpatchtess... Extract all files Organize 🔻 855 - 🛄 🔞 🗐 Name Туре Compressed size Password ... Size Ratio Date m 🙀 Favorites Desktop 1 KB 35% 10/14/2 File 1 KB No configuration 🐌 Downloads × 1 KB 0% 7/9/2014 📃 Recent Places Extract Compressed (Zipped) Folders 🔚 Libraries Select a Destination and Extract Files Documents J Music Files will be extracted to this folder: Pictures Browse... C:\Us Videos Show extracted files when complete 📜 Computer 🕌 Local Disk (C:) 🗣 Network Extract Cancel . teslaconf.bat Compressed size: 53 bytes Ratio: 0% Type: Windows Batch File Q. Size: 51 bytes Date modified: 7/9/2014 9:31 AM
- 7. Make sure the highlighted box is checked and then click "Extract"

8. Double click on the "Teslaconf.bat" file. You should see the following screen:

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organize 👻 🔟 Op	Den Share with ♥ Print New	Determedified	Tomas	Cine			10-			.0
😭 Favorites	Name Name	Date modified	Туре	Size						
E Desktop	configuration	10/14/2015 8:12 AM	File		1 KB					
Downloads	V 🐼 teslaconf.bat	7/9/2014 9:31 AM	Windows Batch File		1 KB					
Libraries										
Documents	C:\Windows\system32\cmd.exe									
J Music										
Pictures	G:\Users\techstream2\Des stream2\AnnData\Loca1\Te	sktop\rav4evpatchtess>c sla\"	opy .\configura	tion "	C:\Users	tech				
Videos	1 file(s) copied	d.								
	C:\Users\techstream2\Des	sktop\rav4evpatchtess>p	ause							
📮 Computer	Press any key to continu	ue								
-										
Local Disk (C:)										
🏭 Local Disk (C:)										
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🚣 Local Disk (C:)						*				
🚣 Local Disk (C:)						•				
🚣 Local Disk (C:)										
🚰 Lacal Disk (C:)						•				

9. Confirm you see "1 file(s) copied". If you see "0 files copied", please contact Dealer Daily support.

10. Press any key and continue; the patch installation was successful. You can now delete the files that were temporarily saved to your PC (i.e. Desktop).

4. Diagnostic Cable Kit

Description:

There is a Special Service Tool, EV HV Powertrain Diagnostic Cable Kit (Part # - 82824-36150-01), required in order to connect to and communicate with the RAV4 EV for Electric Powertrain diagnostics.

NOTE: For all other diagnostics, the DLC3 connector under the dash will be used with Techstream as normal.





5. IP Configuration

Description:

The Tesla Powertrain Diagnostics RAV4 - Service software requires some IP Configuration in order for the vehicle to communicate with the software.

1. Plug the USB-Ethernet adapter from the SST(Part # - 82824-36150-01) into a USB port on the Techstream.



2. Click "Start" >> "Control Panel".



3. Click "Network and Sharing Center".

Adjust your computer's sett	ings		View by: Small icons 🔻
Action Center	😨 Administrative Tools	🛃 AutoPlay	🐌 Backup and Restore
🗿 Bluetooth Local COM	💶 Color Management	Credential Manager	👚 Date and Time
🗑 Default Programs	📑 Desktop Gadgets	Device Manager	B Devices and Printers
📮 Display	lase of Access Center	🗲 Flash Player	F Folder Options
Fonts	📇 Getting Started	🜏 HomeGroup	🔒 Indexing Options
Intel® HD Graphics	Thtel® PROSet/Wireless Tools	💮 Internet Options	لا العندي ال
Keyboard	Docation and Other Sensors	J Mouse	😨 Network and Sharing Center
Notification Area Icons	🛃 Parental Controls	Pen and Touch	Performance Information and Tools
Personalization	Phone and Modem	Power Options	🕅 Programs and Features
Recovery	🔗 Region and Language	🐻 RemoteApp and Desktop Connections	🛒 Sound
Speech Recognition	Sync Center	🕎 System	Tablet PC Settings
Taskbar and Start Menu	Troubleshooting	State Accounts	📑 Windows CardSpace
Windows Defender	🔗 Windows Firewall	Windows Mobility Center	Windows Update

4. Click "Change adapter settings".



5. Right click the Local Area Connection that shows the following – "ASIX AX88772 USB2.0 to Fast Ethernet Adapter" and select Properties.

			_	0	ð	×
Control Panel > Network and Internet	Network Connections	▼ 47	Search Ne	etwork (Connec	, p
Organize 🔻				•		0
Organize • Bluetooth Network Connection 2 Not connected Bluetooth Device (Personal Area Wireless Network Connection 6 Not connected Microsoft Virtual WiFi Miniport A	Local Area Connection 4 Network cable unplugged Intel(R) 825794LM Giapabit Network. Wireless Network Connection 7 Not connected Microsoft Virtual WiFi Miniport A. Not connected Microsoft Virtual WiFi Miniport A. <i>Nature 20 Nature 20</i> <th></th> <th></th> <th>•</th> <th></th> <th></th>			•		

6. Click on "Internet Protocol Version 4 (TCP/IPv4)" and click on "Properties".



- 7. Click the radio button "Use the following IP address:"
 - a. Enter "192.168.90.125" into the IP Address section.
 - b. Enter "255.255.255.0" into the Subnet Mask section (this may automatically populate).
- 8. Click "OK".



9. Click "Close".

NOTE: If all steps have been completed and the status light on the Tesla Powertrain Diagnostics RAV4 - Service software is still red, this is potentially a local firewall issue. Call your IT Department, and register a TAS Case.

6. Launching Software

Description:

To launch the RAV4 EV diagnostics program, follow the instructions below.

- 1. Connect the RAV4 EV Diagnostic Cable (shown above) to the No.2 DLC3 connector located in the rear cargo area of the vehicle.
- 2. Cycle Ignition switch ON (Ready OFF).
- Click Start >> All Programs
 NOTE: If there is an icon on the desktop (recommended) you may access the program in this way.



4. Open the "Tesla Powertrain Diagnostics RAV4 – Service" folder and select "Tesla Powertrain Diagnostics RAV4 – Service" program.



5. When the application launches, confirm that the green light is illuminated in the bottom left corner of the software screen and the VIN is populated.

ALCTO	1.0	Radiator Fan:	%	Drive Towarter Hardware Id:
Alert History Load Alert Lo Alerts	Historic Causes	Battery Heater Active: Battery Chiller Active:		Pedal Monitor Hardware Id:
۲. III	•	Cabin Evaporate Mag. Valve:		Thermal Controller Hardware Id:
	B			
O IV Monitoring VIN: 2T3YL4				

NOTE: If the light is still red, you may need to enable your network configuration which is shown below.

7. Network Configuration

Description:

If you see a red light and "N/A" for the VIN, you will need to establish the network connection. You may have to do this each time you connect to a vehicle.

- 1. Click Start >> All Programs
- 2. Open the "Tesla Powertrain Diagnostics RAV4 Service" folder."



3. Right click "Network Configuration" and select "Run as administrator"



If you get a Windows popup box asking if you want to allow the following program from an unknown publisher to make changes to this computer, click "Yes".

4. Select the radio button next to the adapter labeled "ASIX AX88772 USB2.0 to Fast Ethernet Adapter".

Network Configuration		
Select Adapter		
[00000015] Intel(R) Centrino(F	Advanced-N 6235	
[00000017] ASIX AX88772 USE	0 to Fast Ethernet Adapter	
© [00000017] ASIX AX88772 USE	0 to Fast Ethernet Adapter	

5. Select the radio button next to "Vehicle Mode" and click "Apply".



6. You will see the message below:



7. Click "OK" on this message and then click "Ok"

8. If the light is still red, try selecting the "Ethernet Mode" and click "Apply".



9. Click "OK" on this message and then click "Ok"



NOTE: If the light is still red, contact your IT Administrator.

8. Change Perspective

Description:

The view of the Tesla Powertrain Diagnostics RAV4 - Service software is customizable. These different views are referred to as Perspectives. The tool comes preloaded with four different views. To change between these perspectives, select "Perspectives" from the menu bar and open the "Predefined Perspectives" menu. You also have the ability to create and save your own views (create your layout and select "Save Current Perspective" from the Perspective drop down).

NOTE: The software remembers the last used view and will launch that view when the software is opened again. The preferred perspective is "Default".



The four Perspectives are Compact, Default, Gateway Cloner, and Minimum.

1. Compact

File Views Perspectives Configuration	on Help				
Firmware Download to Vehicle	₽×	Thermal System Test	₽×	Resets	ð
		Estimated time: 5 minutes	00:00:00	Gateway Reset	2
	0%			Clear THC DTCs	ð
Jehicle Log Upload to Cloud	đ ×				
Select Directory: C:\Users\techstream2\Docu	ments\Tesla\Logs 💋			Θ	Ð
Nert List	0% 💽			Hardware Configuration	B
Currently Active Alerts	Potential Causes	Thermal System Test Fluid Drain and Fill	Coolant Air Purge	Gateway Hardware Id:	
Alerts Alert History Load Alert Alerts	Llog Historic Causes Start	Powertrain Pump: Battery Pump 1 (left): Battery Pump 2 (right): Radiator Fan: Battery Heater Active:	% % %	Battery Management Sysl Charger Hardware Id: DC/DC Hardware Id: Drive Inverter Hardware I Pedal Monitor Hardware I Thermal Controller Hardware	tem Hardwar Id: d: are Id:

2.Default

File Views Perspectives Configuration	Help			
Firmware Download to Vehicle	₽×	Thermal System Test 🛛 🗗 🗙	Resets	8 >
		Estimated time: 5 minutes 00:00:00	Gateway Reset	2
			Clear THC DTCs	8 X
	0%		0	
Vehicle Log Upload to Cloud	5 ×			
Select Directory: C:\Users\techstream2\Docume	ents\Tesla\Logs 🛛 💋		Hardware Configuration	8 >
		Thermal Syste Fluid Drain a Coolant Air	Gateway Hardware Id:	
	0% 🚺	Thermal Controller 🛛 🗗 🗙	Battery Management System Hardware Id:	
Alert List	8 ×	Powertrain Pump: %	Charger Hardware Id:	
Currently Active Alerts	Potential Causes	Battery Pump 1 (left): %		
Alerts	Fir	Battery Pump 2 (right): %	DC/DC Hardware Id:	
< <u> </u>	Þ	Radiator Fan: %	Drive Inverter Hardware Id:	
Alert History Load Alert Lo	g Historic Causes	Battery Heater Active:	Pedal Monitor Hardware Id:	
Alerts	Start	battery Crimer Active:	Thermal Controller Hardware Id-	
<		Cabin Evaporate Mag. Valve:		
Weining .	(m)			

3. Gateway Cloner

ne news respective of	underorient treb	
ateway Cloner		8
Gateway Backup	Gateway Restore	🛛 🗙 Gateway Disable
🗍 Ignor <mark>e l</mark> og files		
rogress:		0%

4. Minimum

rt List			
urrently Active Alerts			Potential Causes
Alerts		First	t Seen
Jert History	Load Alert L	g	Historic Causes
Jert History Alerts	Load Alert L	og C	Historic Causes End
Jert History Alerts	Load Alert L	vg ()	Historic Causes End

9. Monitor Check Box

Description:

This function is used to disable some communication functions within the vehicle in order to perform some of the heavier CPU performance utilities of the software (i.e. Coolant Air Purge, Fluid Drain and Fill). This shouldn't normally be used, but if you are experiencing erratic performance, this box can be unchecked.

Alert History Load Alert Log Alerts	Historic Causes Start	Battery Hailp 2 (nging). Radiator Fan: Battery Heater Active: Battery Chiller Active: Cabin Evaporate Mag. Valve:	%	Drive Inverter Hardware Id: Pedal Monitor Hardware Id: Thermal Controller Hardware Id:
Monitoring VIN: 2T3YL4				

10. Modem Connection Test

Description:

Simple test to ensure the GSM modem can connect to the Log Upload Server.

1. Click on "Views" >>" Modem Connection Status".



2. If the Modem Connection Status is yellow, click on the refresh button.

	addit thep				mourned	NAME OF A DESCRIPTION OF A	1100000
Firmware Download to Vehicle	₽×	Thermal System Test	₽×	Resets	₽×	Modem Connection Status	8×
		Estimated time: 5 minutes 00:00	:00	Gateway Reset		Green light indicates a fully funct Yellow light indicates connection necessarily a vehicle fault.	tional connection. failure, not
				Clear THC DTCs	đ×	Modem Connection Status:	U
	0%			Θ			
Vehicle Log Upload to Cloud	ā ×						
Select Directory: \Users\techstream2\D	ocuments\Tesla\Logs 💋		B	11-1-0-6			
			3	Hardware Configuration			
		Thermal S Fluid Dr Coola	in	Gateway Hardware Id:			
	0%	Thermal Controller	8 ×	Battery Management S	ystem Har		
Alert List	ā ×	Powertrain Pump:	0 %	Charger Hardware Id:			
Currently Active Alerts	Potential Causes	Battery Pump 1 (left):	0 %				
Alerts		Battery Pump 2 (right):	0 %	DC/DC Hardware Id:			
		Radiator Fan:	0 %	Drive Inverter Hardwar	e Id:		
(•	Battery Heater Active:	8				
Alert History	lert Log Historic Causes	Battery Chiller Active:		Pedal Monitor Hardware	2 10:		
Alerts	Start	Cabin Evaporate Mag. Valve: 🥥		Thermal Controller Hard	ware Id:		
* m	- F	•	٠	< []	۴		
	8		8				

11. BMS_w023 Reset Utility

Description:

This function enables the technician to clear BMS_w023, which can be falsely set by low auxiliary battery voltage.

1. Click on "Views" >> "Battery" >> Clear BMS-w023.



2. If the Alert State shows red, click the blue "Play" button.



12. Clear THC DTCs

Description:

This function is used to clear DTCs from the Thermal Controller (THC).

- 1. On the right side of the "Default" Perspective there is a box labeled "Clear THC DTCs"
- 2. Click on the blue Play button.



3. You will see the message "Command sent successfully" and the light change to green.



13. Vehicle Firmware Update

Description:

For improved vehicle performance/efficiency or to correct an operation issue, it may be necessary to update the vehicle firmware (similar to Toyota Calibrations). There are two processes that will inform the user of a needed update.

NOTE: Please reference the related TSBs prior to beginning any software update for this vehicle.

13.1 Using Techstream Software – This process is the same as other Toyota vehicles.

- a. Perform a Health Check.
- b. Electric Propulsion Control System Check the Update column for "Yes" flag.
- c. Clicking "Yes" will launch TIS, automatically searching for the calibration, and display the link for the TSB.
- d. Opening the TSB will give instructions on connecting the RAV4 EV Diagnostic Tool (please see below for instructions using this tool).
- **13.2** Using the Tesla Powertrain Diagnostics RAV4 Service software.
 - a. Connect Vehicle Communication SST (see Diagnostic Cable Kit section for instructions).
 - b. Launch the Tesla Powertrain Diagnostics RAV4 Service Software (see Launching Software section for instructions).
 - c. Software will attempt to update. If no firmware is currently installed on the PC, the Firmware Download to Vehicle box will be empty. Refer to section **13.3** to download the firmware from TIS.
 - d. If OK, a pop-up window will notify the user of a vehicle firmware update. Clicking "Yes" will switch to the Firmware Download tab.
 i. If the update is to be performed later, select No and select the Firmware Download tab when needed. (See Change Perspective section for instructions)
 ii. The firmware file will be displayed in the window. Press the blue Play button.
 - e. Cycle the ignition On (Ready OFF).
 - f. A message will appear when firmware update is complete (can take up to 15 minutes).

13.3 Download firmware from TIS.

 a. If the Firmware Download to Vehicle box is empty in the Tesla Powertrain Diagnostic Software, download the .tar file from TIS. Location – TIS >> Diagnostics >> Scantool >> Software Downloads.

mware Download to Vehicle 🛛 🗗 🗙	Thermal System Test 🗗 🛪	Resets	8 x
	Estimated time: 5 minutes 00:00:00	Gateway Reset	2
		Clear THC DTCs	8 :
0%	Download to vehicle box is empty	Θ	O
Here you will find quick access to various software downloads required for diagnostics. Note: Administrator level rights are required to complete the installs. Techtream V13.10.019 Software Update You should only use this update if you already have Techstream software installed. If installing Techtream for the first time, use the Techstream Full Software Installer located below. Techstream V13.10.019 Full Software Installer Use this Techtream installer to install and/or update Techstream software. RAV4 EV 1.1.42 Diagnostic Software Use this software for diagnostics and vehicle firmware updates for the RAV4 I yowertain system. • RAV4 EV Diagnostic Software User Manual > Updated: 06/08/2018 • RAV4 EV Firmware. NOTICE: In order to maintain VI functionality of the RAV4 EV diagnostic soft you must download and install to patch below. This process only needs to b done one time. • Patch Installation Instructiot • RAV4 EV Patch Download (TEEs)	Interactive tutorials are now available for Techs the links below to view the latest tutorials. TIS techstream New Users Demo Just getting started using Techstream? Start he Customize Datalist Tutorial Lost in a sea of parameters? Try a customized d learn more. TIS Keyword Search Tutorial Find TIS information fast using new keyword se above to learn more. Event to learn more. Error Reporting Best Practices There are some easy tips for reporting errors co more information. Want Paster Data? Click the link above to learn how to manage a d Stored Data Click the link above to learn how to view stored Techstream User Account Do you have a user account? Click the link above After logging in, click the "Help" link on the hom "Accessibility Requirements".	tream software features. Click on rel lata list. Click the link above to arch capability. Click the link saved Data. Click the link above to rrectly. Click the link above for atalist. data. e to learn more. to learn more at Dealer Daily. lepage and search for	
	Legacy Diagnostic Tester Information		

 b. Save file to the below location for Tesla Powertrain Diagnostic Software to locate-C:/Users/Your Computer Name/AppData/Local/Tesla/Firmware (you may need IS support to get Admin rights to download)

	- 10 - 10 - NI - 11					0
Organize 👻 Include	in library Share with New folder				8== 🔻 🛄	e
🔆 Favorites	Name Name	Date modified	Туре	Size		
〕 Downloads	\mu .Teslatemp	4/20/2018 10:36 AM	File folder			
🔛 Recent Places	🌗 Airbag	4/2/2018 4:26 PM	File folder			
🧮 Desktop	DCDC	4/2/2018 4:26 PM	File folder			
	\mu DI	4/2/2018 4:26 PM	File folder			
词 Libraries	firmware-release-1.3.101.tar	4/20/2018 9:20 AM	TAR File	1,810 KB		
Documents						
J Music						
E Pictures						
Videos						

c. Shutdown and restart the Tesla software. Once Tesla Diagnostic Software finds the .tar file, Firmware Download to Vehicle box will have some text.



14. Pulling Alerts

Description:

The Tesla Powertrain Diagnostics RAV4 – Service software will allow you to view alerts. On the lower left side of the "Default" perspective you will see two boxes. The boxes are labeled "Currently Active Alerts" and "Alert History". Any current alerts will be shown in the upper box.

irmware Download to Vehicle	₽ × Thermal System Test	8×	Resets	8 :
$\label{eq:linear} C: Users \end{tabular} C: Users \end{tabular} in \end{tabular} C: Users \end{tabular} in \end{tabular} C: Users \end{tabular} in \end{tabular} in \end{tabular} C: Users \end{tabular} in \end$	Estimated time: 5 minutes	00:00:00	Gateway Reset	2
			Clear THC DTCs	8 3
0%			•	\bigcirc
ehide Log Upload to Cloud	₽×			
Select Directory: C: \Users\techstream2\Documents\Tesla\Logs			Hardware Configuration	8:
	Thermal Syste Fluid Drain a	Coolant Air	Gateway Hardware Id:	7
0%	Thermal Controller	ē ×	Battery Management System Hardware Id:	20
lert List	Powertrain Pump:	30 %	Channes Handware Tdi	
Currently Active Alerts Potential Cau	ses Battery Pump 1 (left):	0 %	Charger hardware 10.	,
Alerts , BMS_f071 HV battery request not possible	Battery Pump 2 (right):	0 %	DC/DC Hardware Id:	
because of other system fault	Radiator Fan:	0 %	Drive Inverter Hardware Id:	9
Alert History Load Alert Log Historic Caus	Battery Heater Active:	\odot		
Alerts Star	Battery Chiller Active:	\bigcirc	Pedal Monitor Hardware 10:	g
1 BMS_f071 HV battery request not possible because of other system fault 2018-04-20 10	Cabin Evaporate Mag. Valve:	\bigcirc	Thermal Controller Hardware Id:	8
			L.	(8)

Historical alerts can also be pulled from the "Alert History" box. Click on the "Load Alert Log" button. A Text box will pop-up asking for Start and End Time. Enter the Start Time and End Time from the drop-down calendars, then click Start.

Alert List	₽×		
Currently Active Alerts	Potential Causes		
Alerts			
¹ BMS_f071 HV battery request not possible because of other system fault	2018-04-20 10:27:5	G	
•	•	Load Car Logs	×
Alert History Load Alert Log	Historic Causes	Start Time	End Time
Alerts	Start	19/2018 14:55:36	 ▼ 04/20/2018 14:55:36
1 BMS_f071 HV battery request not possible because of other system fault	2018-04-20 10:27:5		Start Stop
•	+		
Monitoring VIN: 2T3YL4			Close

Once the Alert Log is loaded, you will see the below pop-up message. If there are any historic alerts, they will now appear in the "Alert History" box.



15. Log File Upload

Description:

The Log File Upload function will be used per the request of the agent when calling to open a TAS Case. This information will be used by engineers to further diagnose issues on the vehicle.

1. Locate the Wireless (WIFI) on/off switch under the cover on the left side of the Techstream unit and turn it off.



2. Locate the "Vehicle Log Upload to Cloud" box in the center of the left side in the "Default" perspective.

File Views Perspectives Configuration Help			
Firmware Download to Vehicle	< Thermal System Test	F × Resets	₽×
$\label{eq:c:lusersliechstream2} C:\label{eq:calles} C:eq:$	Estimated time: 5 minutes 00:00:	00 Gateway Reset	
		Clear THC DTCs	₽×
0%		0	\bigcirc
Vehicle Log Upload to Cloud 문 2	<		
Select Directory: C:\Users\techstream2\Documents\Tesla\Logs		Hardware Configuration	e ×
	Thermal Syste Fluid Drain a Coolant Air	Gateway Hardware Id:	7
0%	Thermal Controller d	Battery Management System Hardware Id:	20
AlertList 67 3	Powertrain Pump: 30 °	% Charger Hardware Id:	9
Currently Active Alerts Potential Causes	Battery Pump 1 (left): 30 °	6	
Alerts Fir	Battery Pump 2 (right): 30	6 DC/DC Hardware Id:	255
۲	Radiator Fan: 0 9	⁶ Drive Inverter Hardware Id:	9
Alert History Load Alert Log Historic Causes	Battery Heater Active:	Pedal Monitor Hardware Id:	q
Alerts Start	Battery Chiller Active:		
	Cabin Evaporate Mag. Valve:	Thermal Controller Hardware Id:	8
	[3	

3. Confirm that the folder path is C:\Users*User Name*\Documents\Tesla\Logs.

ehicle Log Upload	to Cloud	ð×
Select Directory:	C: \Users \techstream2\Documents \Tesla \Logs	

4. If that is not the current location, select the "Folder" icon, located in the top right hand side of the box.

ehicle Log Upload	to Cloud	8	×
Select Directory:	C:\Users\techstream2\Documents\Tesla\Logs	F	
			Ì
	097		1

5. Use the pop-up box to choose the correct log directory, and then click "Select Folder".



6. Click on the blue Play button to start the download.

ehicle Log Upload	to Cloud	8×
Select Directory:	C:\Users\techstream2\Documents\Tesla\Logs	0
	00/	

7. When the below pop-up message appears, click on "Pull Tesla Format Log".



8. When the Log Upload Form appears, fill in all fields and click "Submit".

Name:	XXXXXXXX	
Dealership:	XXXXXXXX	
TAS Case #:	XXXXXXXX]
Comment:		

9. Since the Wireless is turned off, you should see the following Error message. Click "OK".



10. Locate the folder "Logs" at C:\Users\User Name\My Documents\Tesla\Logs. In that folder, locate the file with the VIN of the vehicle you are working on that ends with .tgz. You can also do a search in Windows Explorer using the VIN as a keyword and locate the file that ends in .tgz. Email this file to TAS@toyota.com.

rganize 🔻 🛛 Include i	n library 🔻 Share with 👻 New folder				8== •	(
Favorites	🔲 Name	Date modified	Туре	Size		
Downloads	2T3YL4DV6CW001385-2018-04-23-15-09-47.tgz	4/23/2018 3:12 PM	TGZ File	4,474 KB		
Recent Places	YC001385180419Operations.log	4/19/2018 4:15 PM	Text Document	1 KB		
Desktop	YC001385180420Operations.log	4/20/2018 10:36 AM	Text Document	1 KB		
Libraries Documents Music Pictures Videos						

16. Battery Ship Screen

Description:

Whenever a battery needs to be shipped, you will need to send certain information to TAS.

1. Click on "Views" >> "Battery" >> "Battery Shipping.



2. When the pop-up below appears, make sure you can see the VIN and green light in the lower left corner. Take a screenshot or digital picture of the screen and send it to TAS@toyota.com.



17. Acronym Finder

Description:

This function is used to decipher the RAV4 EV specific acronyms. Review the entire list of acronyms or input one in the search box to jump right to it.

- 1. Click on "Help".
- 2. Click on "Acronyms"

File Views Perspectives Config	uration Help			
Firmware Download to Vehicle	😽 Firmware Update	rmal System Test 🗗 🕹	Resets	8,
	Software Update	timated time: 5 minutes 00:00:00	Gateway Reset	2
	Acronyms			
	A Product Registration		Clear THC DTCs	8:
	About			
	0%		0	\bigcirc
lehide Log Upload to Cloud	8 ×	5		
Select Directory: C:\Users\techstrea	am2\Documents\Tesla\Logs		Hardware Configuration	P :
		Thermal Syste Fluid Drain a Coolant Air	Gateway Hardware Id:	
	0%	Thermal Controller &	Battery Management System Hardware Id:	
Nart Liet		Powertrain Pump: %		
Currently Active Alerts	Potential Causes	Battery Pump 1 (left): %	Charger Hardware Id:	
Alerts	Fir	Battery Pump 2 (right): %	DC/DC Hardware Id:	
		Radiator Fan: %		
<	•	Battery Heater Active:	Drive priverter Hardware to:	
Alert History	oad Alert Log Historic Causes		Pedal Monitor Hardware Id:	
	Start	Battery Chiller Active:		
Alerts			Thermal Controller Hardware Id:	
Alerts		Cabin Evaporate Mag. Valve:		

ear	ch:		
	Acronym	Term	*
1	BMS	Battery Management System	
2	UDS	Unified Diagnostic Services	
3	TVSH	Temperature Voltage Sense Harness	
4	TPD	Tesla Powertrain Diagnostics	
5	тнс	Thermal Controller	
6	soc	State of Charge	
7	SNA	Signal Not Available	
8	OBD	On Board Diagnostics	
9	N/A	Not Applicable/Available	
10	HVIL	High Voltage Interlock	1
11	HV	High Voltage	
12	FC	Fast Charge	
13	ECU	Electronic Control Unit	
14	DTC	Diagnostic Trouble Code	
15	DI	Drive Inverter	
16	DCDC	DC to DC Converter (HV DC voltage to 12V)	
17	DC	Direct Current	
18	CHG	Charger	
19	CAN	Controller Area Network	
20	VIN	Vehicle Identification Number	+