

TEC100E GTS+ Level 1

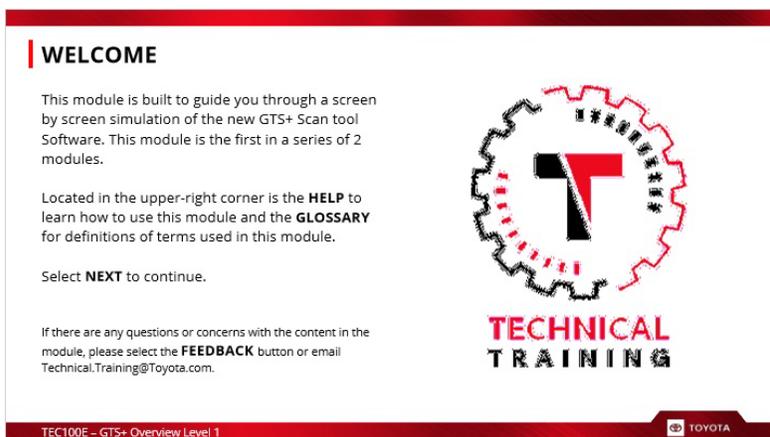
1. TEC100E - GTS+ Level 1 - Draft

1.1 COURSE TITLE



Notes:

1.2 WELCOME



Notes:

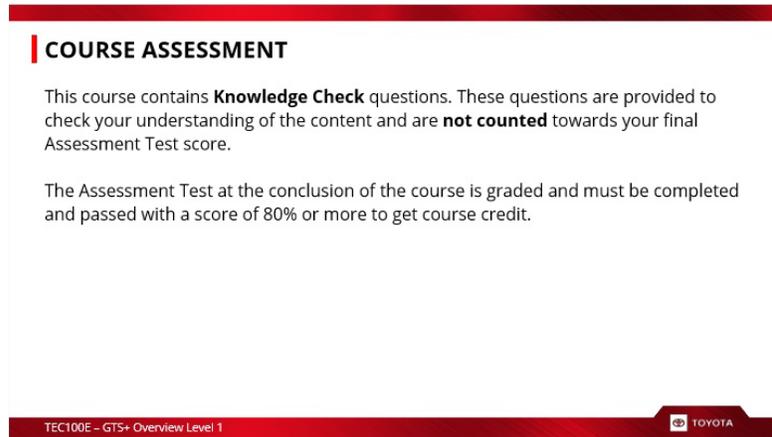
This module is built to guide you through a screen by screen simulation of the new GTS+ Scan Tool Software. This

module is the first in a series of 2 modules.

Located in the upper-right corner is the **HELP** to learn how to use this module and the **GLOSSARY** for definitions of terms used in this module.

Select **NEXT** to continue.

1.3 COURSE ASSESSMENT



COURSE ASSESSMENT

This course contains **Knowledge Check** questions. These questions are provided to check your understanding of the content and are **not counted** towards your final Assessment Test score.

The Assessment Test at the conclusion of the course is graded and must be completed and passed with a score of 80% or more to get course credit.

TEC100E - GTS+ Overview Level 1 

2. Login

2.1 UNIT TITLE



UNIT 1: LOGIN

Unit Objectives:

- Online Login
- Offline Login


TECHNICAL
TRAINING

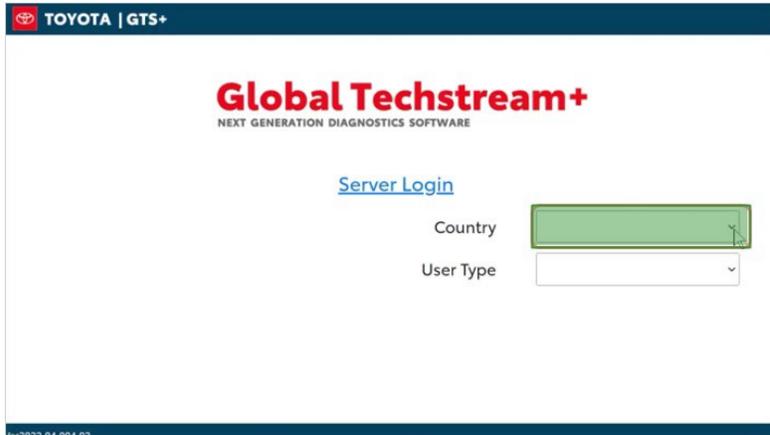


Notes:

After completing the Login section, you will be able to perform:

- Offline Login
- and Online Login

2.2 Untitled Slide



Notes:

To get started, GTS+ will require you to login for each user. Your login credentials will be the same as your TIS credentials. This new software allows single-sign-on with TIS. So, when you are using GTS+, you will be automatically logged in to TIS. We will go over this feature in more detail later in the module.

To start, select the drop down.

2.3 Untitled Slide



Notes:

For the Region, select “United States”.

For the Country, select “United States”.

2.4 Untitled Slide



Notes:

Then select the following drop-down that displays “US Dealer 1”.

Then, select the “User Type” drop-down.

2.5 Untitled Slide



Notes:

These are all the different user accounts to choose from. Dealership Technicians will use "US Dealer 1".
Select "US Dealer 1" to continue.

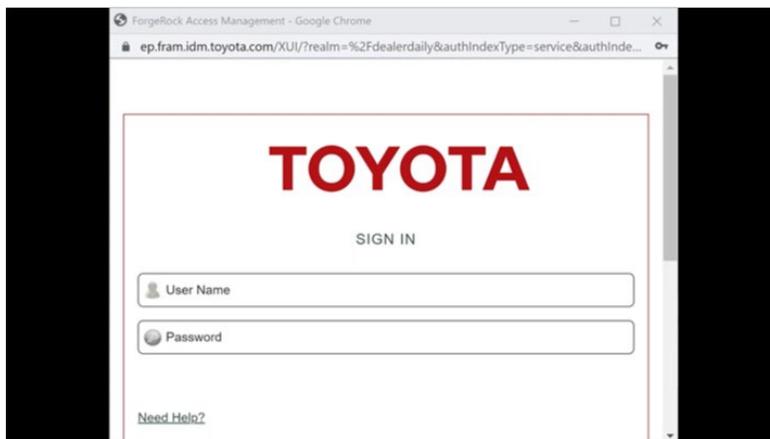
2.6 Untitled Slide



Notes:

Now select "Server Login".

2.7 Untitled Slide



Notes:

A pop up will appear. It is here you will enter your login credentials and select "submit" to continue. This will

complete the login function. Remember, it is important you login each time as certain settings, as well as other features will follow the user.

If you are a corporate, TCI, S-E-T, or GST dealer, you will need to select the appropriate link at the bottom of the pop up to login.

2.8 Untitled Slide



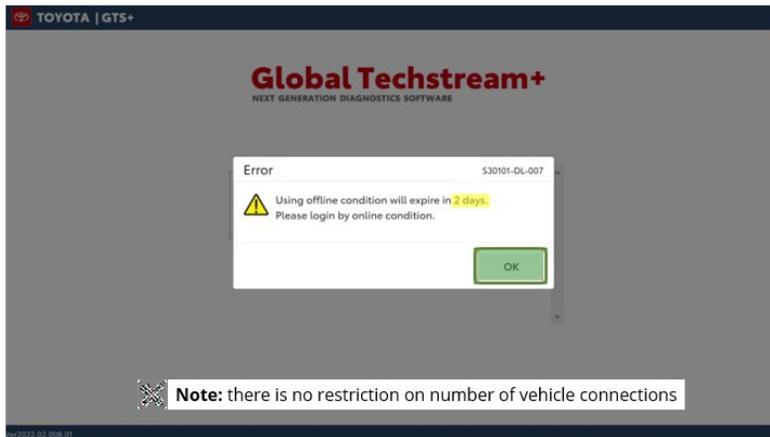
Notes:

Before we move onto the next section, we want to review how to log in without an internet connection as it does differ from the standard login with an internet connection.

To start, you need an internet connection if you are logging in for the first time on a computer with GTS+. You cannot login to GTS+ offline without first logging in while online with an internet connection. Once you log in while connected to the internet, GTS+ saves your account information for future offline log ins.

When accessing GTS+ without an internet connection you will see this screen when you open the GTS+ software. It will list all previous accounts that have logged in to this specific computer. Simply select the account that matches yours.

2.9 Untitled Slide



Notes:

You will see this pop up appear notifying you of the remaining number of days you can use this software without an internet connection. After this time has passed you will no longer be able to log in to GTS+ without an internet connection.

NOTE, there is no restriction on number of vehicle connections as was found with the previous Techstream software.

Now that we have covered logging in, we will move to the home screen.

Select OK to continue.

3. Home Screen

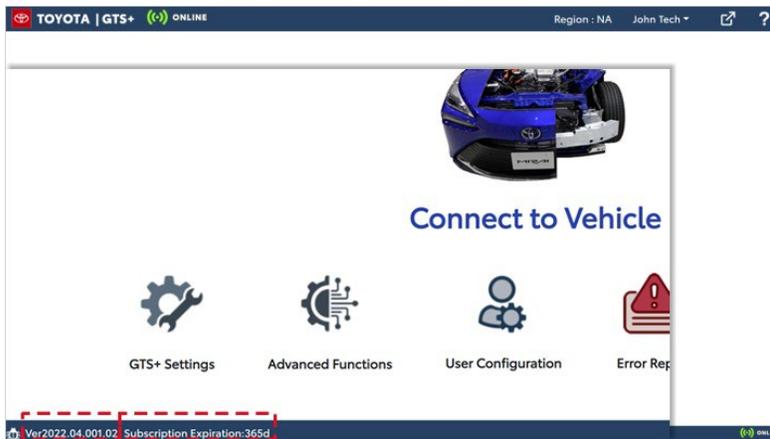
3.1 UNIT TITLE



Notes:

After completing the Home Screen section, you will be able to navigate the home screen.

3.2 Untitled Slide



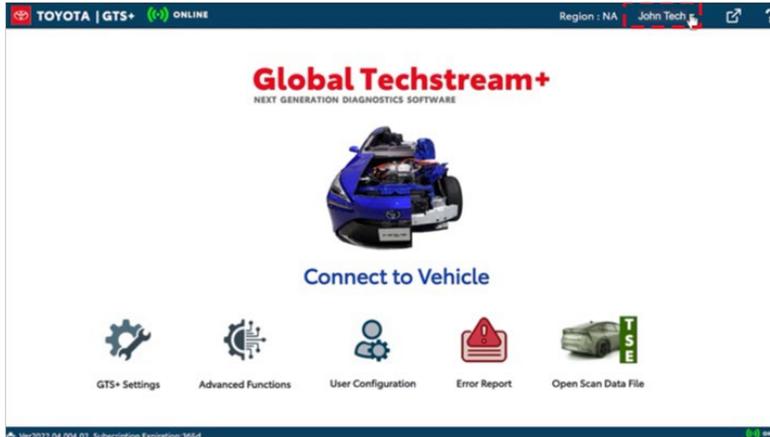
Notes:

Now that we have logged in, we will see the Home Screen. There are a few items on this menu we want to review before continuing on.

The first is the information shown in the lower left corner of the screen. Here you will see your GTS+ version

number along with the number of remaining days for your subscription

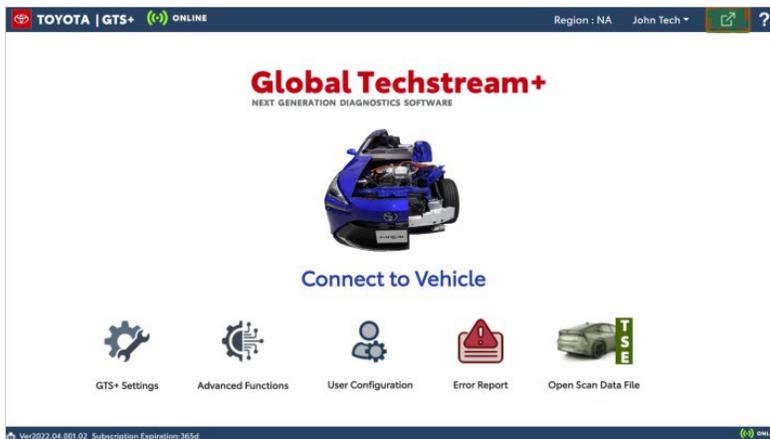
3.3 Untitled Slide



Notes:

Next, we will focus on the upper right of the screen. Here you will see your username and it is here you will be able to log out.

3.4 Untitled Slide

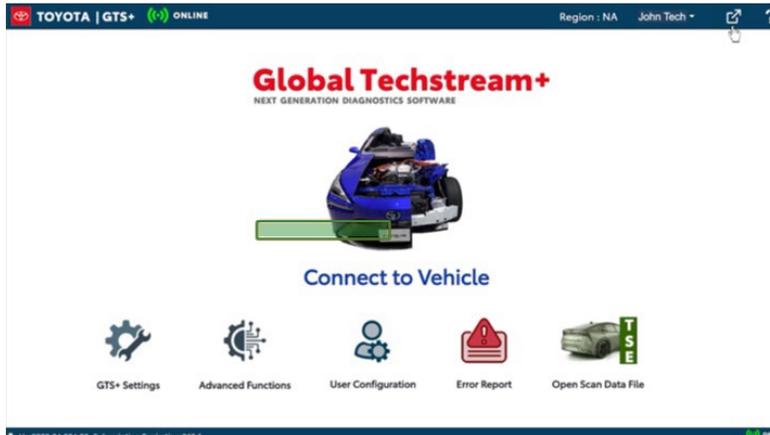


Notes:

The next button to the right of your user ID is the Service information Link pop up. This button will open a pop up that will allow you quick access to a few key service information links found on TIS. And remember, with Single-sign-on you won't have to re-login when you access these links. Let access one of the links shown.

First, select the pop out button.

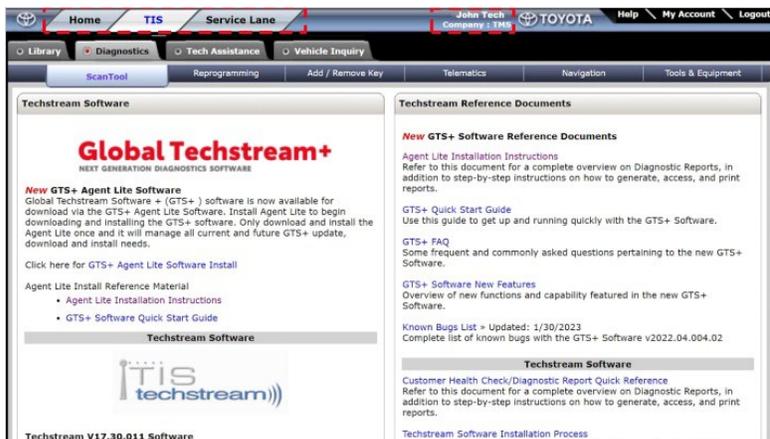
3.5 Untitled Slide



Notes:

Here you can see a few common links you may need in the future. Let's select the GTS+ New Features List to continue

3.6 Untitled Slide



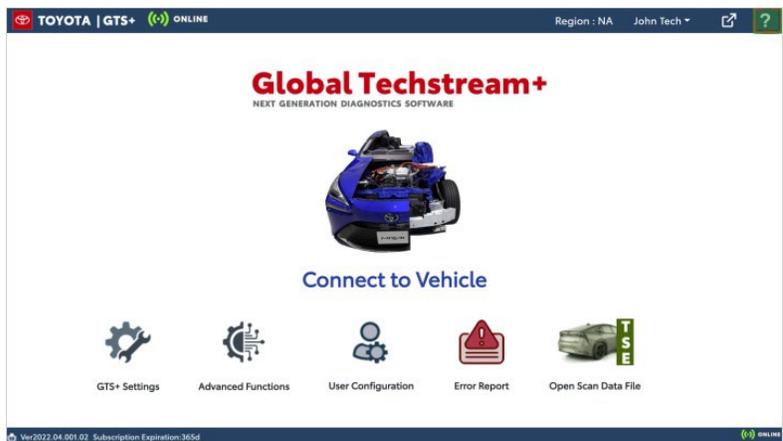
Notes:

As you can see, those links will take you to the various Service Information pages. The selected link takes you right into TIS without the need to login. This is the single-sign-on feature we mentioned earlier. While you are active in

GTS+, you won't need to login to TIS.

Let's move back to the home screen now

3.7 Untitled Slide

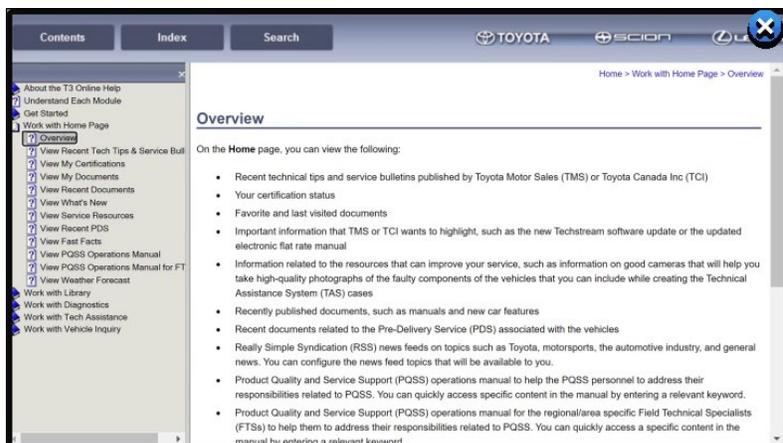


Notes:

Finally, there is a help button that will take you to a page on TIS to help answer questions you may have when using TIS and GTS+.

Select the help button to display the help page.

TIS (Slide Layer)



4. Settings and Config

4.1 UNIT TITLE

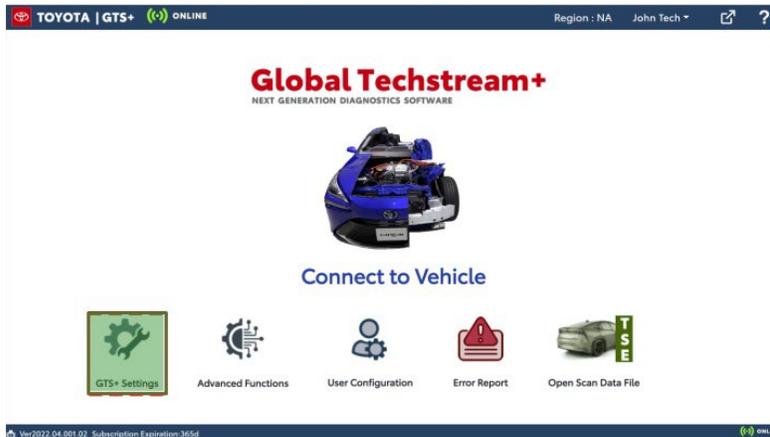


Notes:

After completing the Settings and Configuration section, you will be able to:

- Update GTS+ Settings in GTS+
- and Update GTS+ Settings in TIS

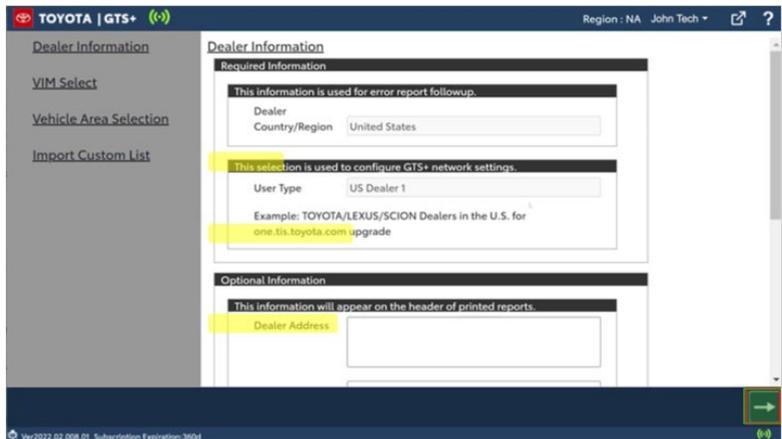
4.2 Untitled Slide



Notes:

The next thing we are going to take a quick look at is the GTS+ Settings. Let's get started by going to that menu. Select "GTS+ Settings" to continue

4.3 Untitled Slide

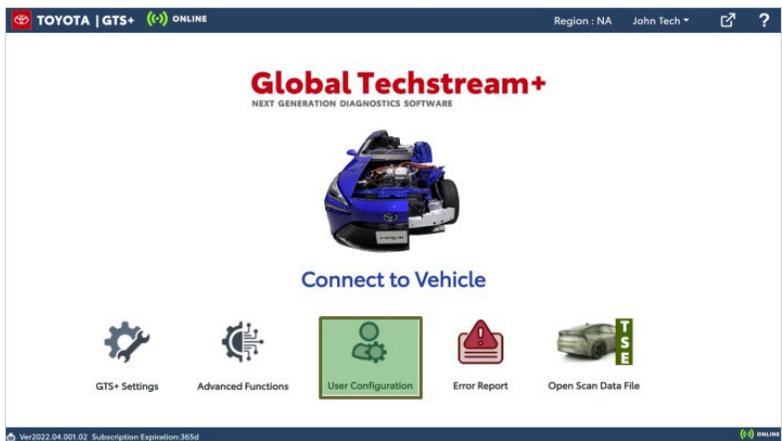


Notes:

Here is where you can view your dealer information unique to your user ID. If we scroll down, you will see there are a few adjustable settings such as VIM Select, Vehicle Area, and here is where you can import custom data lists.

Now that we've reviewed GTS+ Settings lets go back to the home screen and look at the User Configuration menu. Select the "arrow" in the lower-right to continue.

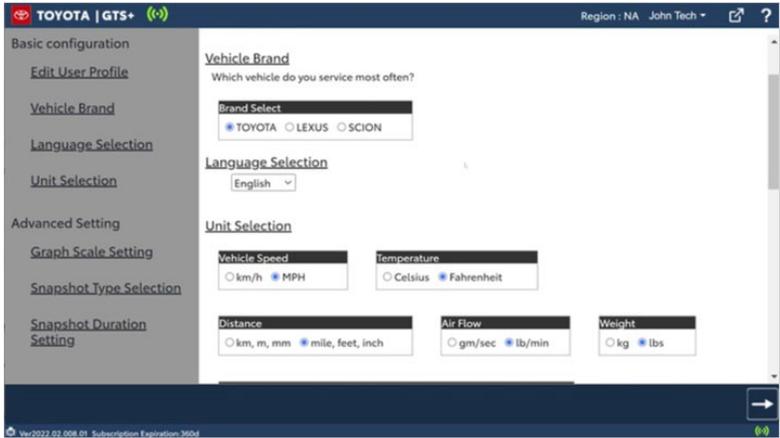
4.4 Untitled Slide



Notes:

Now select the "User Configuration" button to continue.

4.5 Untitled Slide



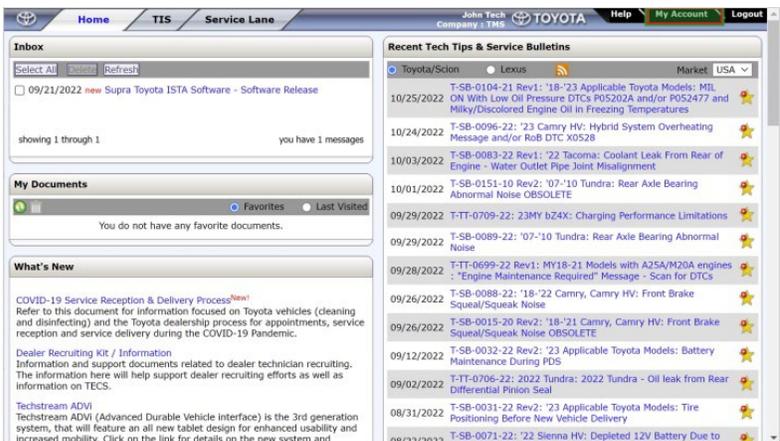
Notes:

In this menu, you will be able to adjust settings unique to your user ID. This means that if you log into a different computer, your settings will follow you. This is one of the reasons it is important you log into your own account each time you use GTS+.

Here you can change a variety of settings such as Brand, Language, Unit of Measurements for certain Parameters as well as graphing and snapshot settings.

You can also change these setting in TIS. Let's move to TIS to show you how to update your GTS+ settings there.

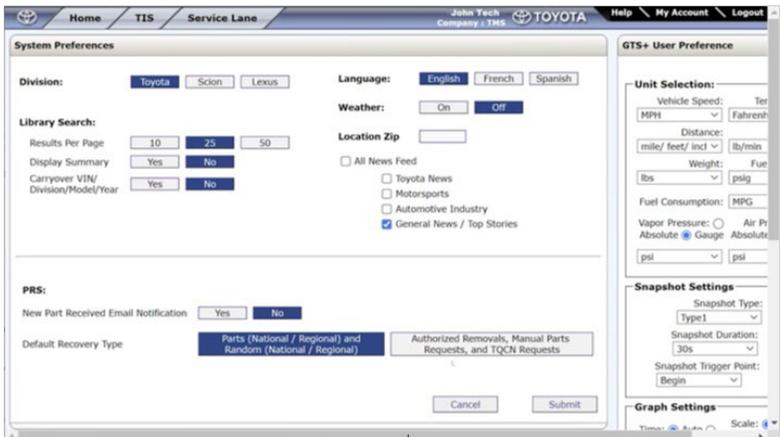
4.6 Untitled Slide



Notes:

Here on the TIS home page, select the “My Account” button in the upper-right corner to access your GTS+ User Configuration Settings.

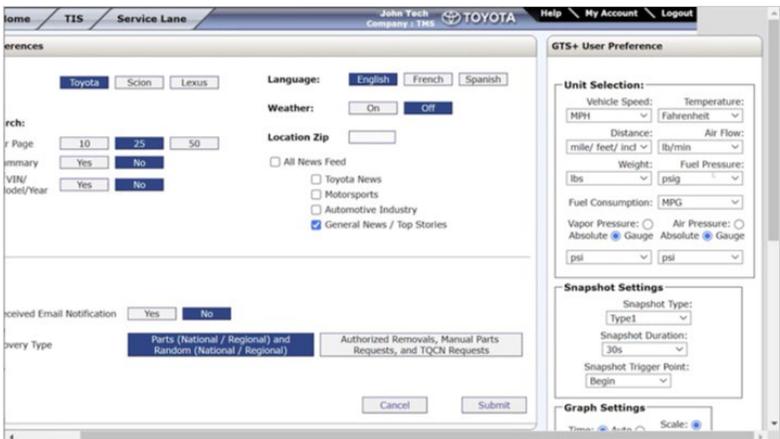
4.7 Untitled Slide



Notes:

Now we will scroll to the right to view the settings.

4.8 Untitled Slide



Notes:

The GTS+ user preferences are located on the right. This means any changes made here will be reflected on your

GTS+ account.

4.9 Untitled Slide

VIN/Model/Year Yes No

Toyota News
 Motorsports
 Automotive Industry
 General News / Top Stories

Received Email Notification Yes No

Delivery Type:

Cancel Submit

Management

Name: John Tech Dealer Name:
User Name: 123456 Dealer Code:
Email Address: john.tech@toyota.com Region Code: 19
Alternate Email: TIS_SLP_Feedback@internal.toy Dealer Phone: 1-555-123-4567
Alternate Phone: 555-5555 x1233

Graph Settings

lbs psig
Fuel Consumption: MPG
Vapor Pressure: Absolute Gauge Air Pressure: Absolute Gauge
psi psi
Snapshot Settings
Snapshot Type: Type1
Snapshot Duration: 30s
Snapshot Trigger Point: Begin
Graph Settings
Time: Auto Manual Scale: Auto Manual
Range: (1-60): Min: Max:

Cancel Submit

Notes:

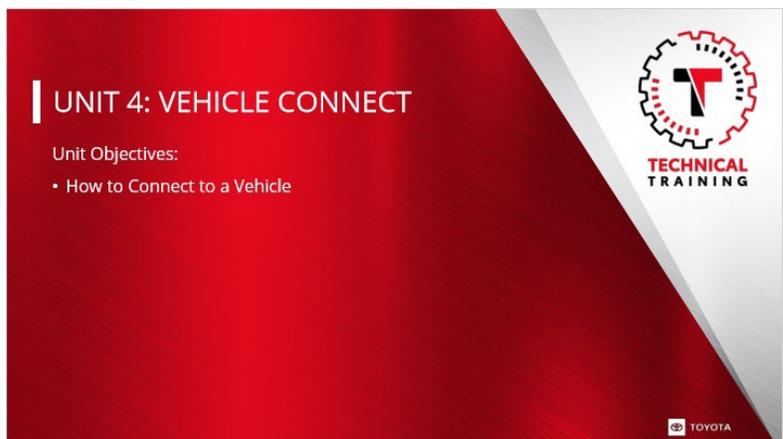
If you adjust any settings here you will need to select the submit button at the bottom of the page.

As you can see, they are the same as what we saw in the “GTS+ User Configuration” menu. Whether you change them in GTS+ or TIS, the settings will follow you to each computer you might use.

Select the “Submit” button to continue.

5. Vehicle Connect

5.1 UNIT TITLE

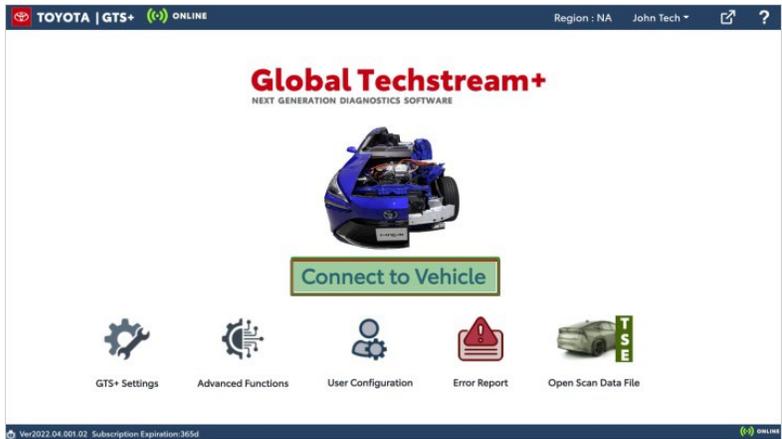


Notes:

After completing the Vehicle Connect section, you will be able to:

- Connect to a vehicle with GTS+

5.2 Untitled Slide

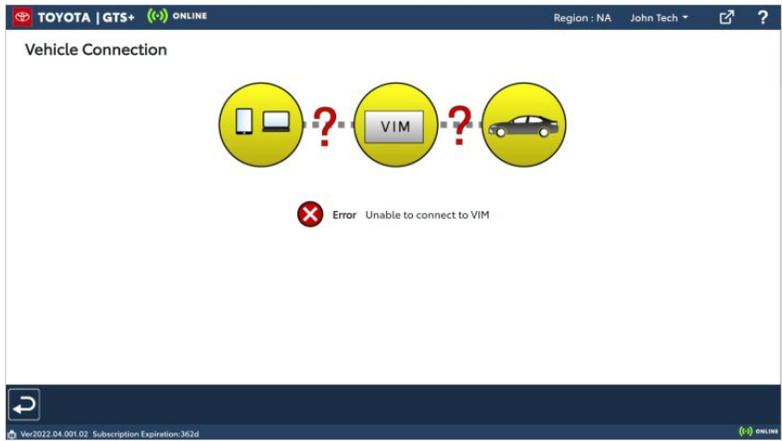


Notes:

We will review the rest of the settings in the second level of GTS+. For now, let's move to the vehicle portion of the module.

To start, select "Connect to Vehicle" to continue.

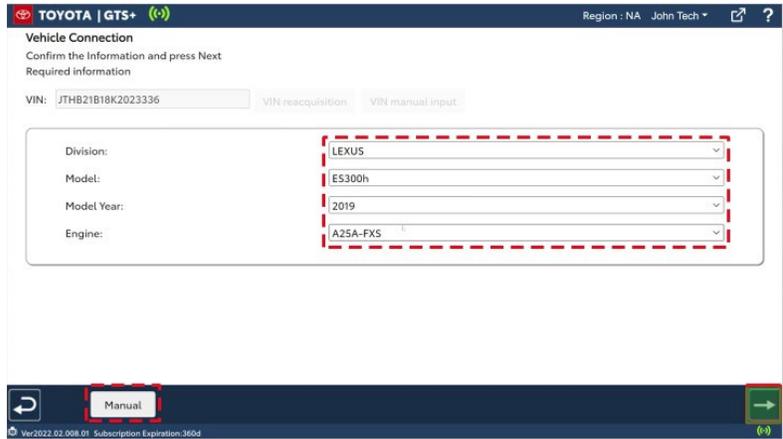
5.3 Untitled Slide



Notes:

Here you will see a loading screen. If the incorrect VIM is selected or one is not plugged in, you will get an error message.

5.4 Untitled Slide

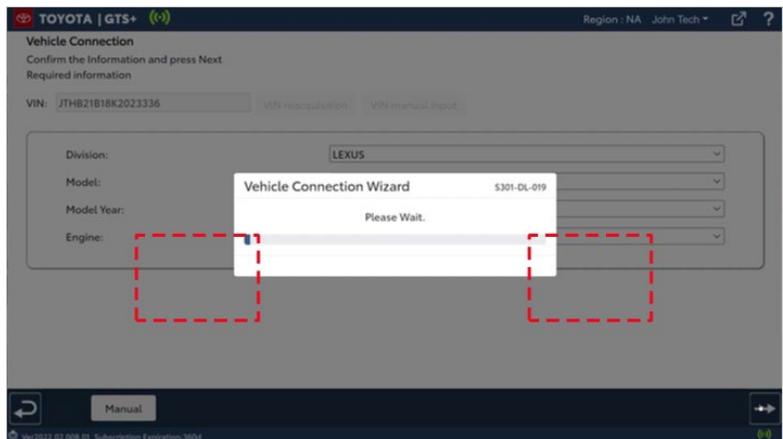


Notes:

Once VIM establishes connecting, the vehicle information should automatically populate. You may have a drop down or two to select prior to moving forward. There is also a manual mode in case the vehicle has an issue or you are connected to a non-Toyota vehicle.

This vehicle has all the settings selected so lets move on by selecting the continue arrow.

5.5 Untitled Slide



Notes:

Once you successfully connect to a vehicle you will see the main menu screen. Depending on the vehicle, you may not have access to certain options such as ECU security or PCS Freeze Frame Data Retrieval.

6. Main Menu

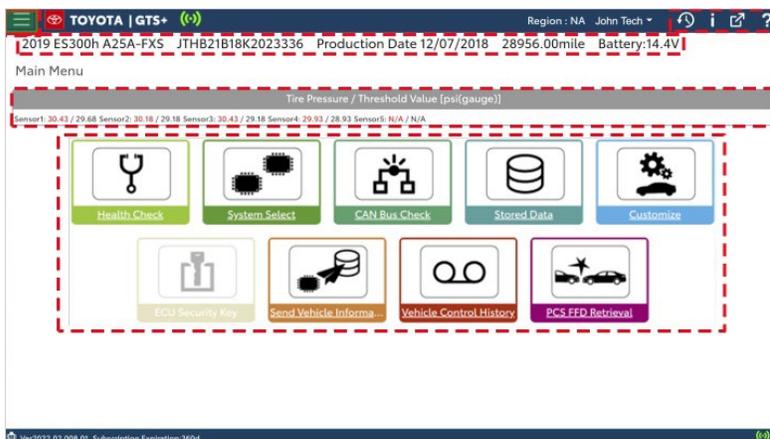
6.1 UNIT TITLE



Notes:

After completing the Main Menu section, you will be able to navigate the Main Menu.

6.2 Untitled Slide



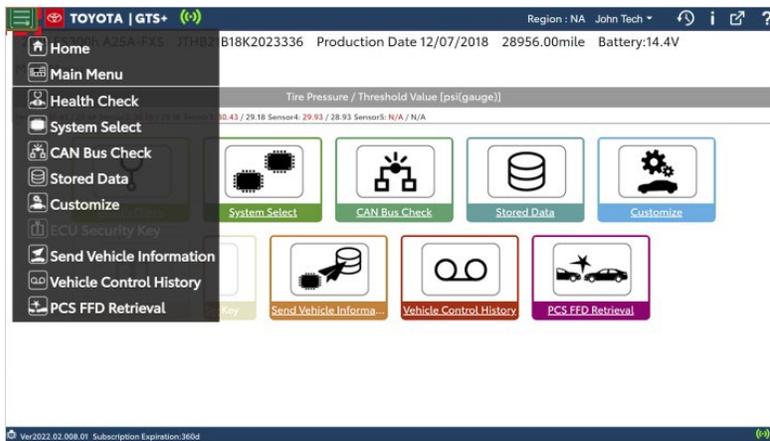
Notes:

Here on the main menu screen, you will see some familiar icons at the top along with some new ones. Along the top you will see general information related to the vehicle you are connected to. Below that, you will see the tire pressures and then the various functions of the scan tool software.

You will notice what is called the “Hamburger” icon in the top left. When you select this, you will see and have the ability to access the same functions shown in the main menu.

Select the Hamburger icon to continue.

6.3 Untitled Slide



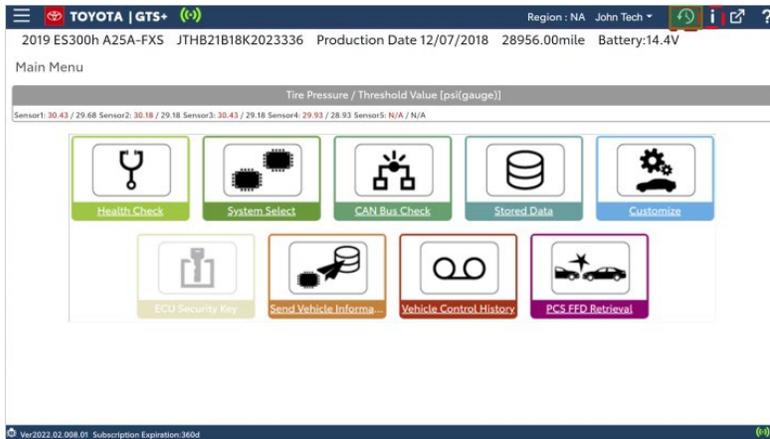
Notes:

Here you can see that the same functions shown in the main menu are found here. This will help you quickly navigate the tool when you need to move between functions.

To close this, simply select the hamburger menu again.

Close the hamburger to continue.

6.4 Untitled Slide



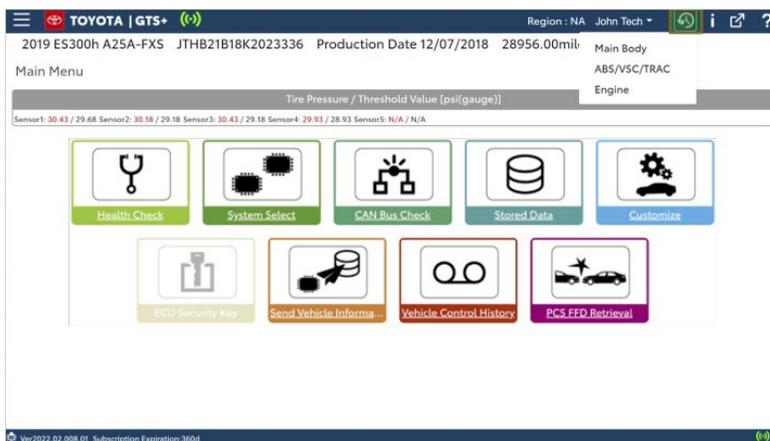
Notes:

Now, let's review a few of the new buttons that weren't on the upper right of the Home screen.

The first is the previous ECU button, shown as a clock and arrow icon.

Select the button now to see previous ECU's.

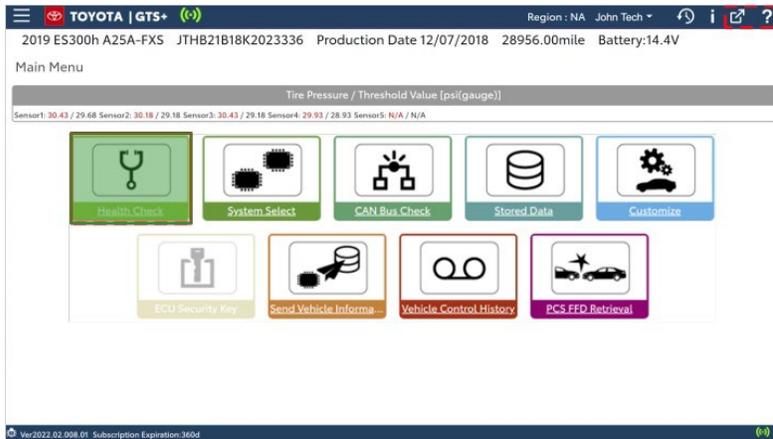
6.5 Untitled Slide



Notes:

This allows you to access previous ECU's that you have been in using the System select button. We've added a few to show as examples, but each time you close GTS+ or disconnect from a vehicle, this list will clear. To close this menu, select the icon again.

6.6 Untitled Slide



Notes:

You will notice that the Service Information pop up along with the help button from the home screen are still here at the top and operate the same as they did on the previous screen. Now that we've covered the main menu screen lets move into some of the vehicle functions. The first we will start is the Health Check!

7. Health Check

7.1 UNIT TITLE

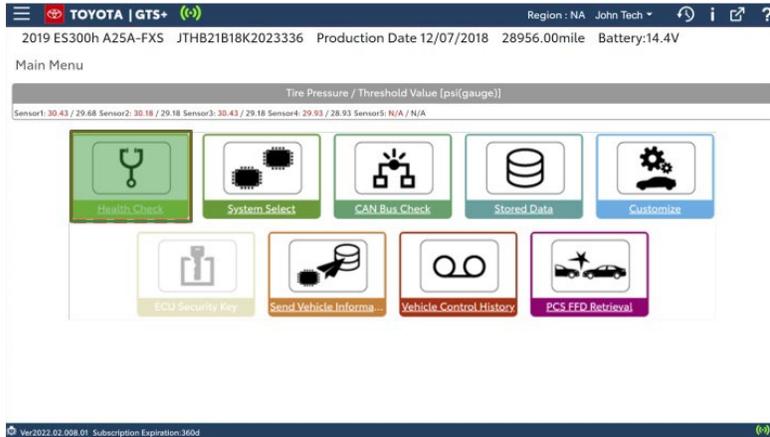


Notes:

After completing the Health Check section, you will be able to:

- Perform A Healthcheck
- and Review healthcheck Results

7.2 Untitled Slide

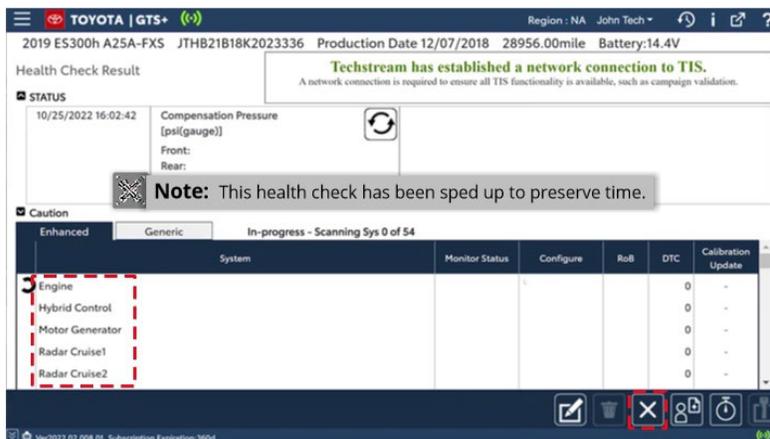


Notes:

The Health Check is a tool that scans all the ECUs in a vehicle. Rather than go into detail up front, let's move into the tool and explain what it can do as we go.

To start, select the "Health Check" button.

7.3 Untitled Slide



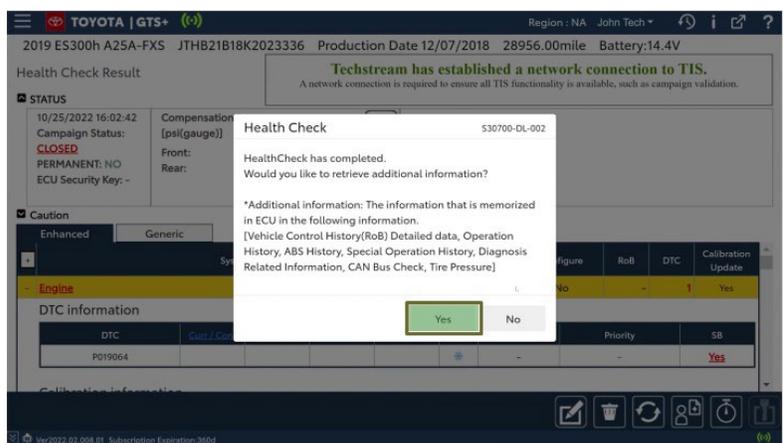
Notes:

Once you select the Health Check icon, it will start running the health check process. This allows you to view the health as it is scanning each ECU one-by-one. At any point during the health check, you can select the cancel button or access an ECU that has been scanned already by selecting the name of that ECU.

For this example we are going to jump ahead to the completed health check.

This health check has been sped up to preserve time.

7.4 Untitled Slide

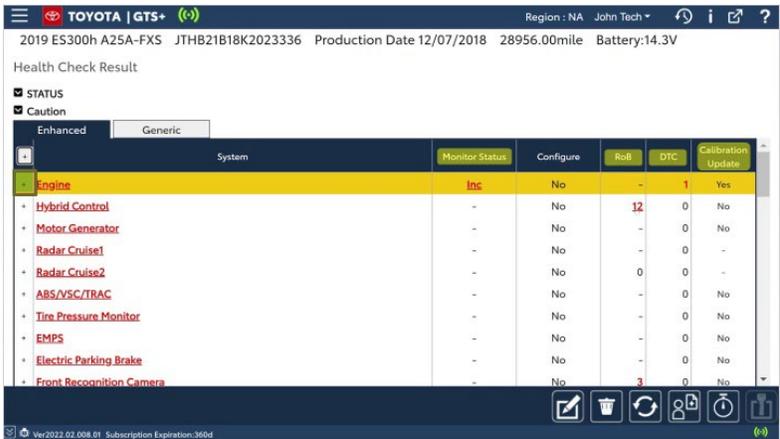


Notes:

Here you will be asked if you would like to retrieve additional information as shown in the text box. For this example, we will collect that data.

Select Yes to continue.

7.5 Untitled Slide



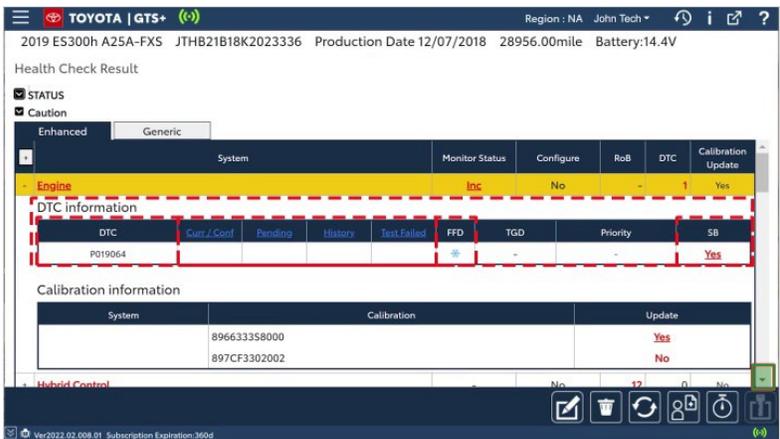
Notes:

Here you will see the health check summary page. Starting from the top you will have a status box. Here you will be able to see key points related to the vehicle such as Campaign status, Permanent DTC present, ECU security key and tire pressure. This is also where you will find the Tire pressure Compensation function that will be covered in a later section of this module.

Looking below at the Caution section, you will see a summary of each ECU. If a DTC is present those ECU's will appear at the top of the list. It is here you can see the Monitor Status, R-o-B and DTC count, and if a calibration update is available.

There is also additional information you can quickly access by expanding an ECU section. Let's do that now for the engine ECU. Select the "+" button next to Engine.

7.6 Untitled Slide

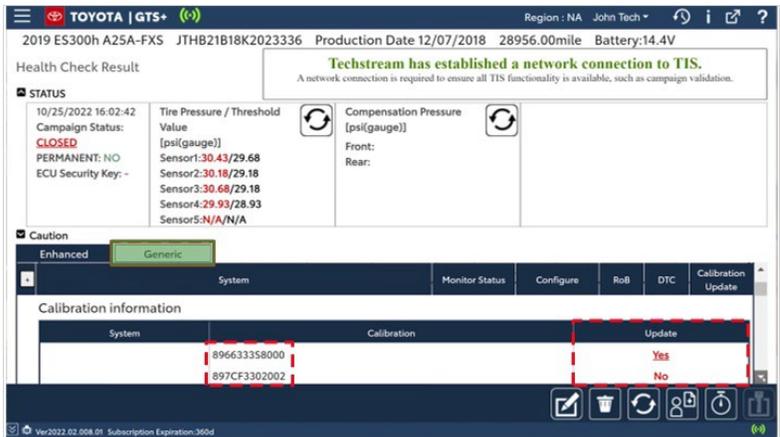


Notes:

Here you will find DTC information at the top. This will list out the specific DTC, its status, if Freeze Frame data is available, and if there is a service bulletin potentially related to that DTC.

Lets select the scroll down arrow to view other information you can find here.

7.7 Untitled Slide



Notes:

Below the DTC information you will find ECU calibration information. Here you will see the calibration number and if an update is available. This will be key when performing reflashes on ECU's.

Lets take a quick peak at the Generic tab to see what data we can find there.

Select the Generic tab to continue.

7.8 Untitled Slide

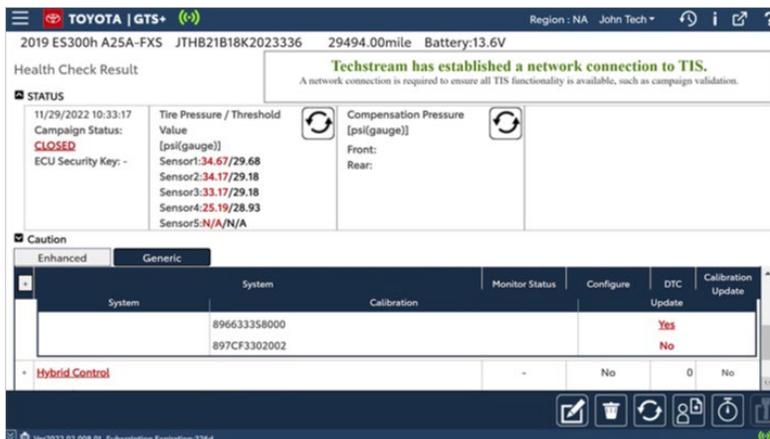


Notes:

When you select the generic tab you will see a few items missing from the Enhanced tab as well as any DTC's in the 5-digit format.

When you scroll down you will see that the calibration information is still there.

7.9 Untitled Slide

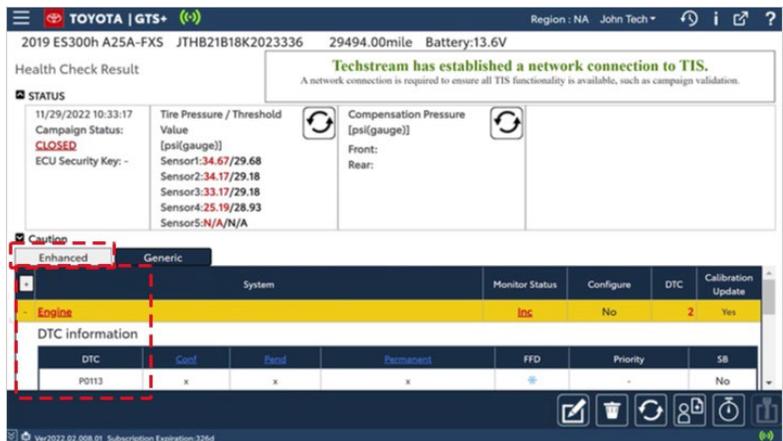


Notes:

As you can see, the information is the same here as in the enhanced tab.

Now we will scroll back up.

7.10 Untitled Slide



Notes:

One more key difference on the Generic tab is the reduced number of ECU's shown.

When we minimize this ECU list and look at the total list, we can see that the number of ECU's is reduced.

For most Toyota and Lexus brand vehicles you will be using the enhanced tab.

Now that we have covered the health check let's look at the System Select option and what information we can find there.

8. System Select

8.1 UNIT TITLE



Notes:

After completing the System select section, you will be able to:

- Navigate the system select menu

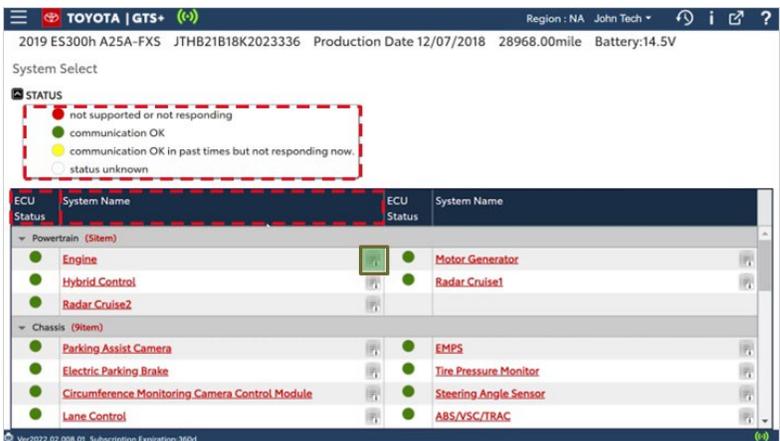
8.2 Untitled Slide



Notes:

Now we will cover the “System Select” function. This is helpful when you have a specific ECU you want to access. Let’s start by selecting the System Select button.

8.3 Untitled Slide

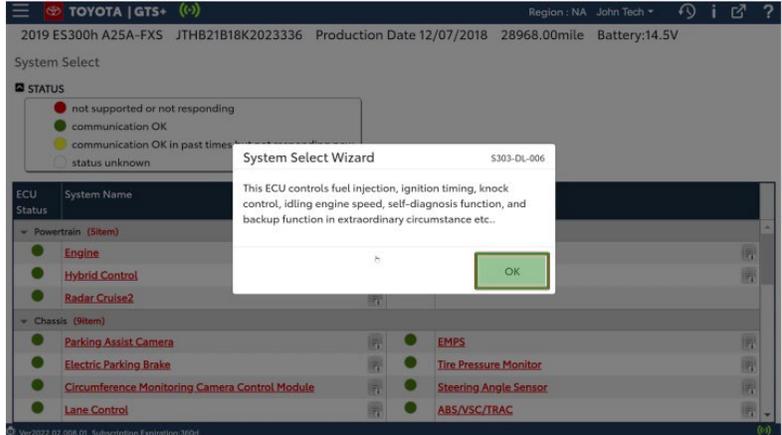


Notes:

Here on the System Select screen you will see information related to each ECU and it’s connection status. At the top, you will see a legend for the different colors you might see based on the status of the ECU.

If you want to know what an ECU does, select the information icon to the right of the ECU.
Let's try it with the "Engine" ECU. Select the "Engine" ECU Information icon to continue.

8.4 Untitled Slide

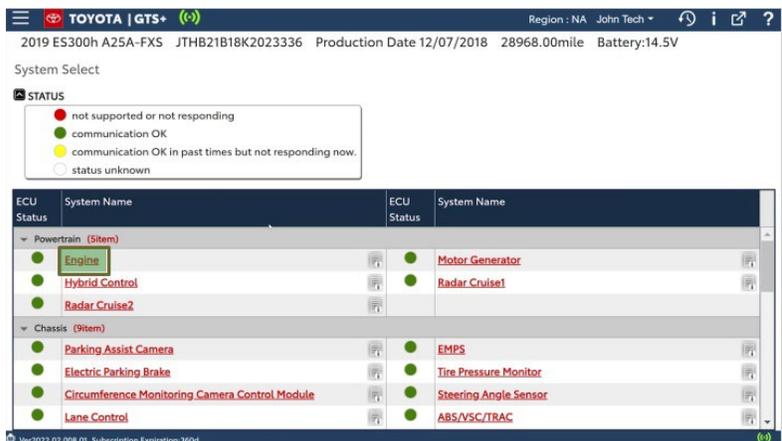


Notes:

Here you can see a general explanation on what the ECU does. Now that we've checked that, let's go into an ECU and review what you can find in an individual ECU.

Select "OK" to continue.

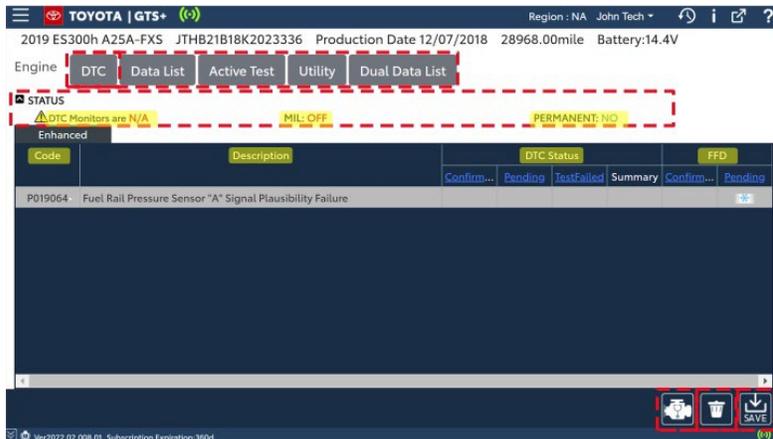
8.5 Untitled Slide



Notes:

Select the Engine ECU to continue.

8.6 Untitled Slide



Notes:

Here is what it looks like when you enter an ECU. The default tab selected will be the DTC tab. Other tabs can be found at the top of the screen. We will review some of these in this module and other tabs in the level 2 GTS+ module. Below that you will see the general status such as the status for DTC monitors, the malfunction indicator lamp (MIL) status and if there are any permanent DTC's set.

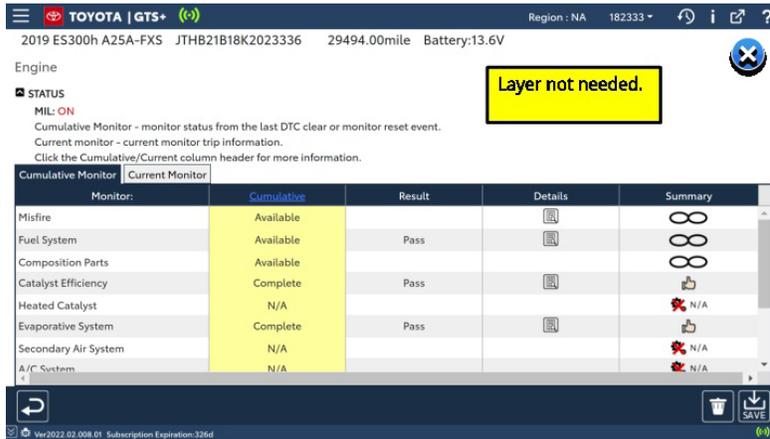
If we move to the bottom of the screen, you will see a few different icons. Starting from the right you have the save button that allows you to save this information on your local computer.

Next to that is the Trash Can icon that is used to clear DTC's. You will use this whenever you want to clear out all of the DTC's in a vehicle.

Next to that, there is an engine icon that is used to review the monitors of the engine ECU.

Looking at the DTC you will see the code, code description, DTC status and freeze frame data. Let's look at the freeze frame data for this code to see what is shown.

View Monitors (Slide Layer)



9. DTC/FFD

9.1 UNIT TITLE

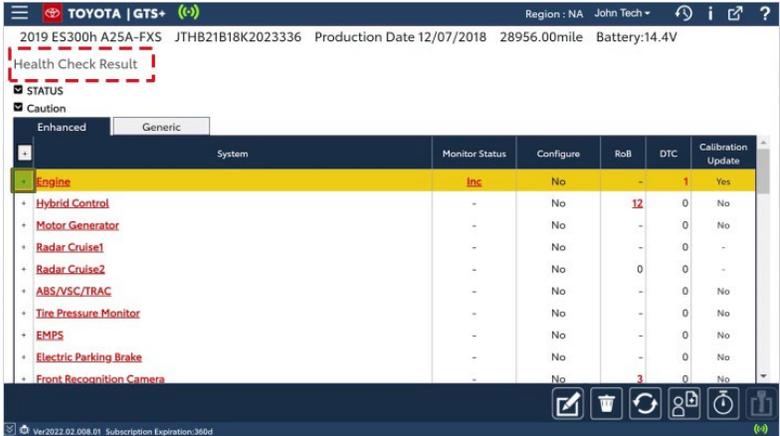


Notes:

After completing the Diagnostic Trouble Code/Freeze Frame Data section, you will be able to navigate:

- DTC Information Review Post Healthcheck
- and Freeze Frame Data (FFD) Review

9.2 Untitled Slide



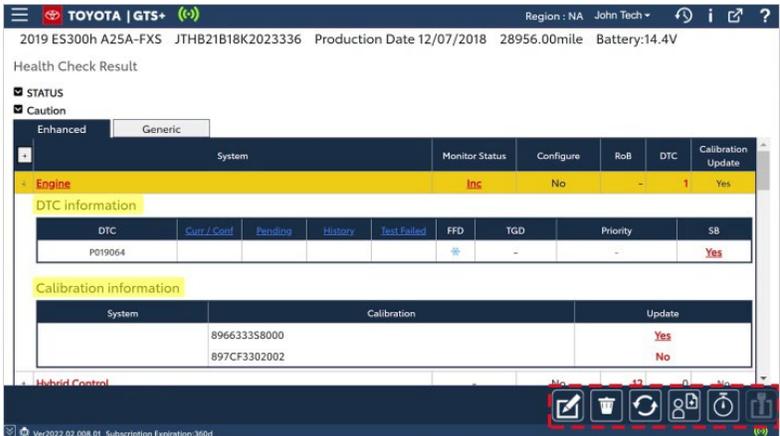
Notes:

We are going to jump back to the health check result page to review DTC and Freeze Frame Data.

Here it shows a simplified Health Check result page.

To start our review, select the Plus icon to expand the health check menu for "Engine".

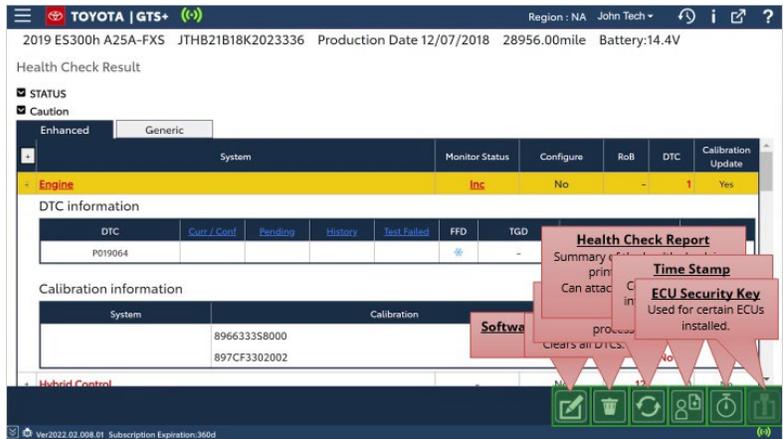
9.3 Untitled Slide



Notes:

Here you can see DTC information and calibration information that was covered in the health check portion of this module. Let's do a deeper dive into what you can do on this screen. Looking at the bottom of the page, we will describe each icon to see what it does.

9.4 Untitled Slide



Notes:

Starting from the left, we have the software as a part button. This button is used to (need function details).

Next we have the clear DTC button. This button is used to clear all DTCs.

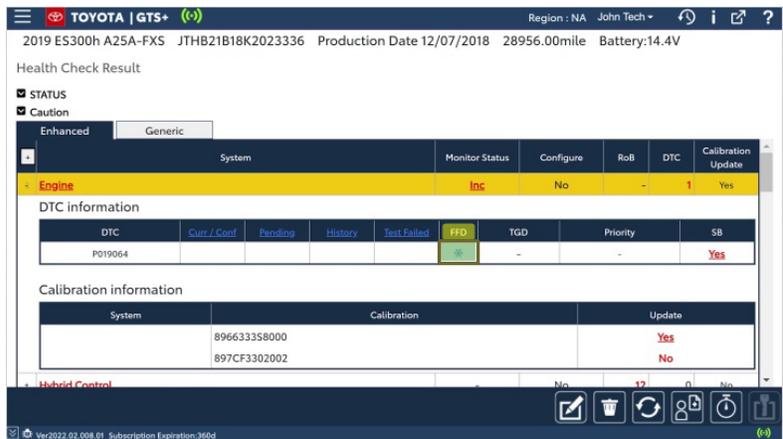
Next there is the refresh health check which will re-run the health check process.

Next to the refresh health check button is the Health check report button. This is used to summarize the health check in a printable document that can be attached to the RO or shared with the customer. (need pop up)

To the right of the health check report button is the time stamp button. This will collect the time stamp information for each DTC stored.

And finally, there is the ECU security Key button. This is used for certain ECU's being installed into the vehicle. We will cover this in the second level GTS+ module.

9.5 Untitled Slide

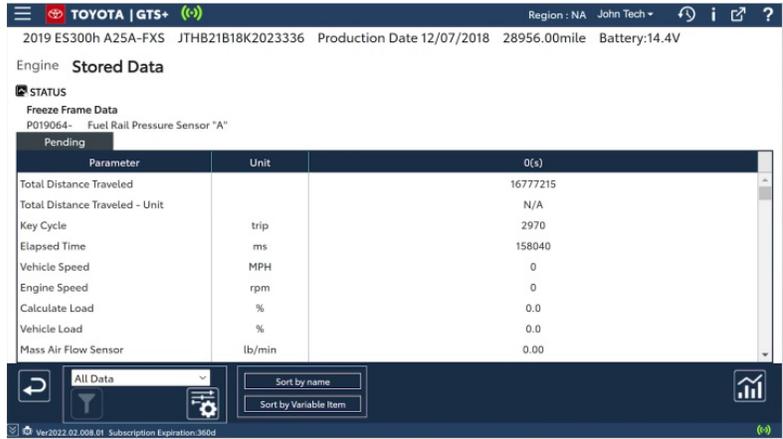


Notes:

Let's now explore the Freeze Frame data menu.

Select the snowflake icon to view Freeze frame data for the DTC stored.

9.6 Untitled Slide

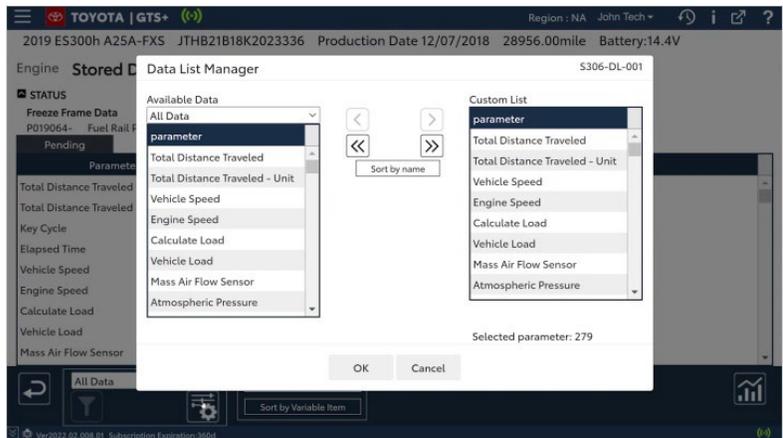


Notes:

Here in the freeze frame data menu you will see data PID's that were recorded at, or around the time the DTC was recorded. The amount of data will vary depending on the DTC. For this example, we have a DTC that only recorded data at the time the DTC was set.

Starting from the top, there is the status section, when expanded this will show the specific DTC you are reviewing.

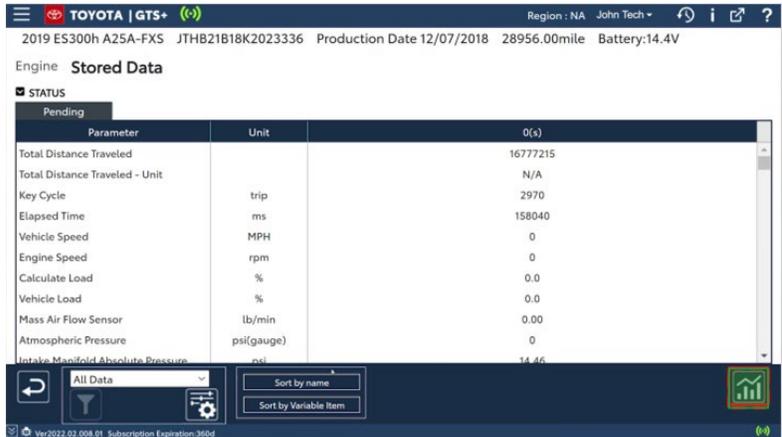
9.7 Untitled Slide



Notes:

Moving to the bottom of the page, on the left side there is the data manager menu. This menu allows you to display certain data lists, filter data and sort. We will cover this in more detail in the data list portion of this module.

9.8 Untitled Slide



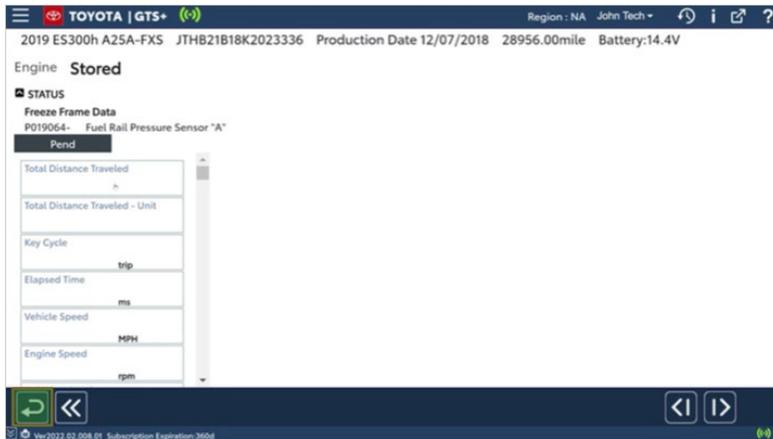
Notes:

Finally on the bottom right of the page is the graph button. Select it to open the graph menu.

Layer1

The graphing page will allow you to graph out data PIDs you choose by dragging various PIDs to the open space. This will be covered in more detail in the next GTS+ module.

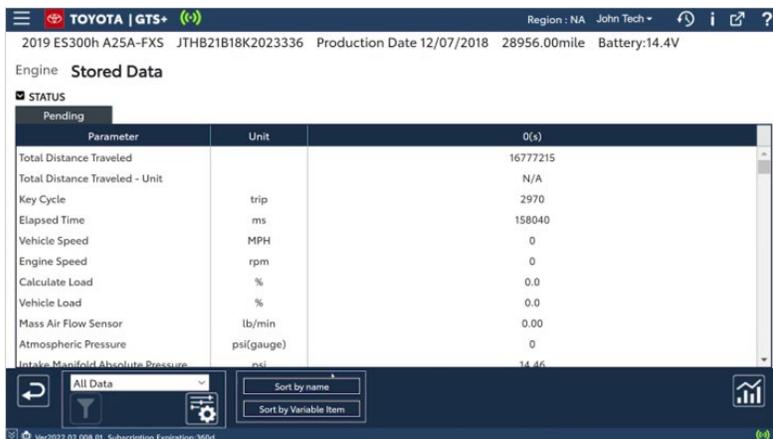
9.9 Untitled Slide



Notes:

Select the back button to return to the Freeze frame data screen.

9.10 Untitled Slide



Notes:

This covers the Health Check DTC and Freeze Frame Data menu. The next section will briefly cover the DTC menu when accessing a specific ECU.

10. DTC

10.1 UNIT TITLE

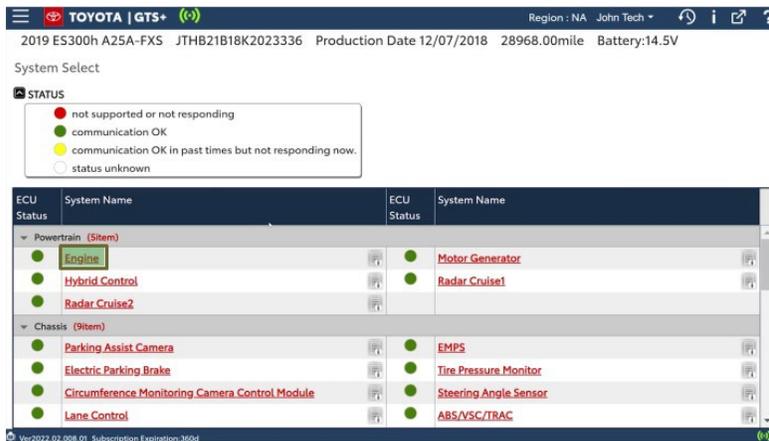


Notes:

After completing the Diagnostic Trouble codes section, you will be able to:

- Navigate System Select DTC Menu
- and Clear Codes

10.2 Untitled Slide

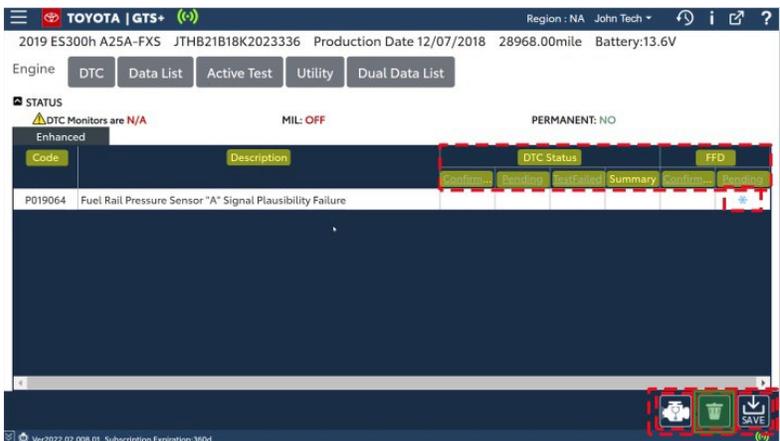


Notes:

Starting from the system select menu, we will access the engine ECU.

Select the engine ECU to continue.

10.3 Untitled Slide



Notes:

When you access an ECU, you will automatically be brought to the DTC menu.

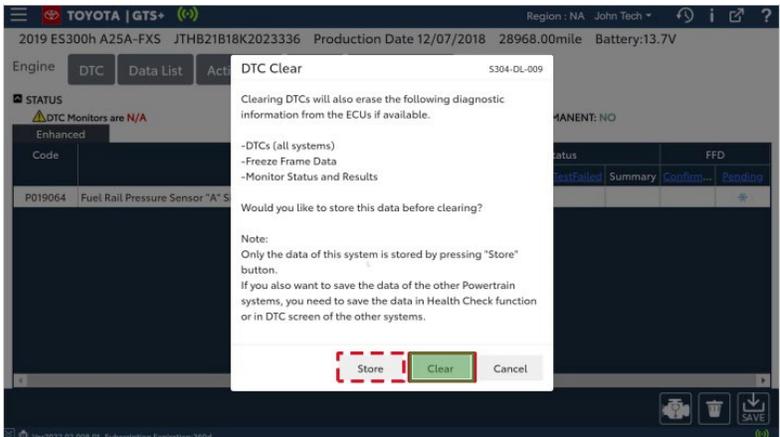
Looking at the DTC, you will see the code, code description, DTC status and freeze frame data.

You will notice we have a few columns for DTC status and Freeze frame data. Those are “Confirmed”, “Pending”, “Test Failed” and “Summary” for the DTC Status. For FFD we have “Confirmed” and “Pending” which will either be black or have the snowflake icon indicating there is Freeze frame data available for the DTC.

On the bottom-right of the page from left to right you will notice 3 buttons. The first is the “View Monitor” button (only available for certain ECUs) followed by “clear DTC” and the “save data” button. The monitor tab will be covered in the next level GTS+ module and the save button will be covered later in this module. Before we move on, let’s practice clearing DTCs.

To start, select the Clear DTC button.

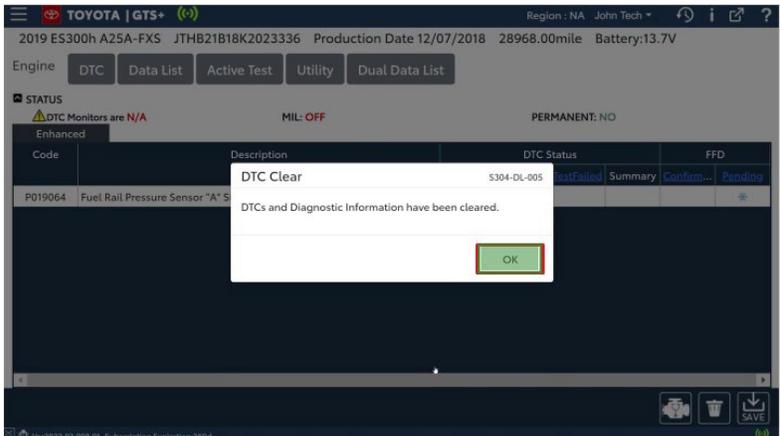
10.4 Untitled Slide



Notes:

Here you will see a confirmation menu explaining what the "clear DTC button" will do, including the option to store data before clearing. Take a moment to review. After you are finished, select "Clear" to continue.

10.5 Untitled Slide



Notes:

You will see a confirmation menu that DTC's have been cleared. Now that we have covered the DTC menu we will move into what you can find in the Data List Menu.

Select "OK" to continue.

11. Data list/Custom

11.1 UNIT TITLE

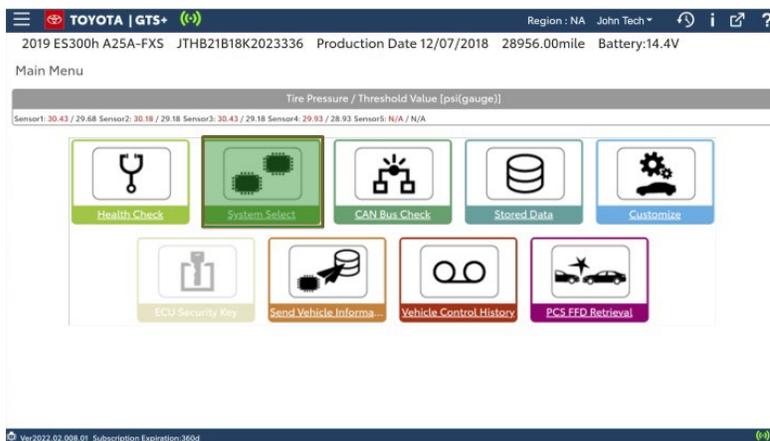


Notes:

After completing the Data List / Custom Data List section, you will be able to:

- Review and Sort Data list
- and Build and Edit a Custom Data list

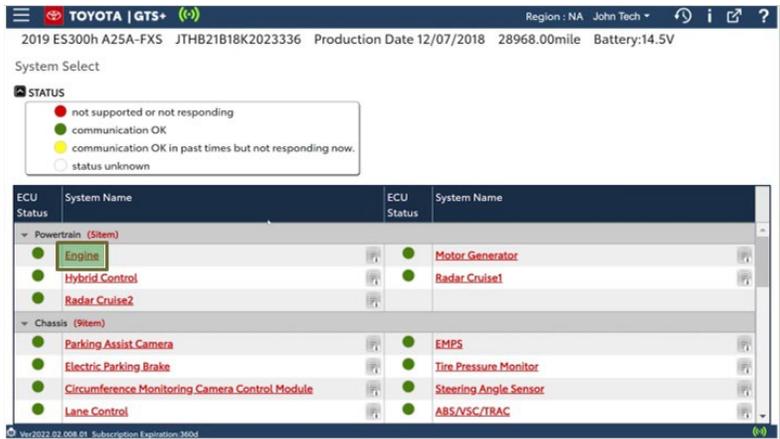
11.2 Untitled Slide



Notes:

We are now going to review the data list tab. To access a data list, from the main menu you must first access an ECU. Start by selecting System Select.

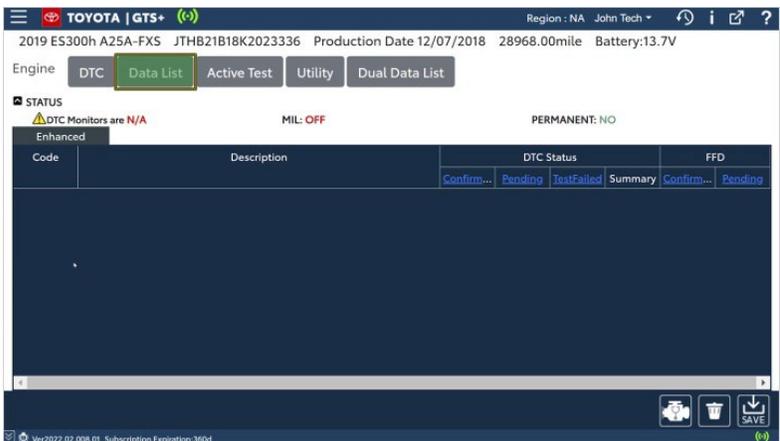
11.3 Untitled Slide



Notes:

Next, select the “Engine” ECU.

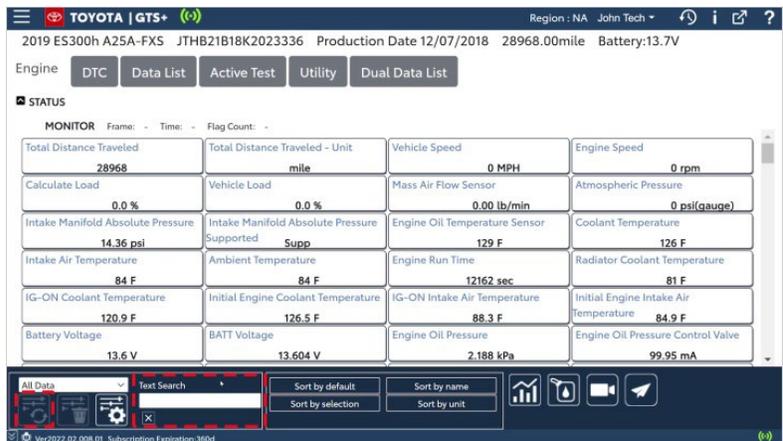
11.4 Untitled Slide



Notes:

From here, select the “Data List” button at the top of the screen.

11.5 Untitled Slide



Notes:

Here is the data list menu. Since there is a lot going on with the screen, we are going to take it step-by-step. First, the data list shown can be changed to a different list depending on the ECU.

There are pre-populated lists that can be accessed through the data list drop down.

Next, you can select data by a parameter on screen and, with the "New List" button, you can create a new custom data list.

You can also remove selected parameters from the list. There is also a feature you can use to search for parameters by text.

These are all ways to help manage the amount of data seen on screen and find exactly what you are looking for.

11.6 Untitled Slide

TOYOTA | GTS+ (G) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 28968.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: Time: Flag Count:

Total FT Bank 1 0.016	Warmup Cycle Cleared DTC 0	Vacuum Pump OFF	VVT-IE Motor Direction Bank 1 Forward
VVT Advance Fail OFF	VSV for Vent Valve OFF	Total Distance Traveled - Unit mile	Total Distance Traveled 28968
Throttle Air Flow Learn Value (Calculated Value) 0.89	Throttle Air Flow Learn Value (Atmosphere Pressure Offset Value) 0.98	Throttle Air Flow Learn Value (Area 3) 0.95	Throttle Air Flow Learn Value (Area 2) 0.94
Throttle Air Flow Learn Value (Area 1) 0.94	Target Fuel Pressure (Low) / Target Fuel Pressure 2 Supported	Target Fuel Pressure (High) Supported	Target EGR Valve Position No.2 Supported
Target EGR Valve Position No.1 Supported	Target Air-Fuel Ratio 1.001	TC Terminal OFF	System Guard ON
Soak Timer Start History Unknown	Secondary Air Injection System Monitor Result (Current) Compl	Secondary Air Injection System Monitor Result Compl	Secondary Air Injection System Monitor ENA (Current) Unavail

All Data Text Search

Sort by default Sort by name Sort by selection Sort by unit

Notes:

You also have the ability to sort the data in various ways. You can sort by name which will put the data in A to Z order. Selecting the “Sort by name” button a second time will sort the data Z to A.

You can also “Sort by unit” which will sort the data by their unit of measurement. Selecting this again will sort the data in reverse.

If you want to view specific data at the top of the screen you can select your desired parameters and select the “Sort by selection”. This will take the points selected and bring them to the top of the list.

Finally, there is the “Sort by default” which will bring the list back to its default order.

11.7 Untitled Slide

TOYOTA | GTS+ (G) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 28968.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: Time: Flag Count:

Total Distance Traveled 28968	Total Distance Traveled - Unit mile	Vehicle Speed 0 MPH	Engine Speed 0 rpm
Calculate Load 0.0 %	Vehicle Load 0.0 %	Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure 0 psi(gauge)
Intake Manifold Absolute Pressure 14.37 psi	Intake Manifold Absolute Pressure Supported Supp	Engine Oil Temperature Sensor 129 F	Coolant Temperature 126 F
Intake Air Temperature 84 F	Ambient Temperature 84 F	Engine Run Time 12402 sec	Radiator Coolant Temperature 81 F
IG-ON Coolant Temperature 120.9 F	Initial Engine Coolant Temperature 126.5 F	IG-ON Intake Air Temperature 88.3 F	Initial Engine Intake Air Temperature 84.9 F
Battery Voltage 13.6 V	BATT Voltage 13.613 V	Engine Oil Pressure 2.188 kPa	Engine Oil Pressure Control Valve 99.95 mA

All Data Text Search

Sort by default Sort by name Sort by selection Sort by unit

Notes:

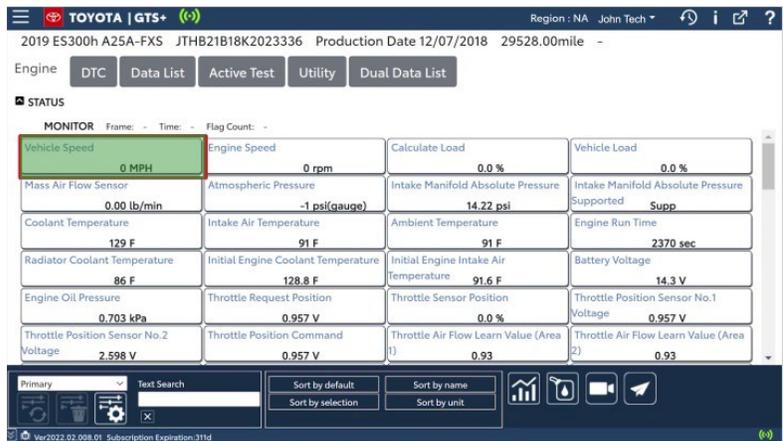
There are also the icons to the right that include Graphing, Fuel Consumption, Snapshot, and Send Data to Server. These features will be covered in the second level GTS+ module.

Now that we have covered the data list screen, let's practice building a custom data list.

Let's start by selecting a few data parameters. Select the parameters as directed.

*Minor quibble: Highlight boxes around Snapshot and Send Data to Server buttons are offset a little bit to the left of the buttons

11.8 Untitled Slide



Notes:

11.9 Untitled Slide

TOYOTA | GTS+ (G) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 29528.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: - Time: - Flag Count: -

Vehicle Speed 0 MPH	Engine Speed 0 rpm	Calculate Load 0.0 %	Vehicle Load 0.0 %
Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure -1 psi(gauge)	Intake Manifold Absolute Pressure 14.22 psi	Intake Manifold Absolute Pressure Supported Supp
Coolant Temperature 127 F	Intake Air Temperature 91 F	Ambient Temperature 91 F	Engine Run Time 2374 sec
Radiator Coolant Temperature 86 F	Initial Engine Coolant Temperature 128.8 F	Initial Engine Intake Air Temperature 91.6 F	Battery Voltage 14.3 V
Engine Oil Pressure 0.703 kPa	Throttle Request Position 0.957 V	Throttle Sensor Position 0.0 %	Throttle Position Sensor No.1 Voltage 0.957 V
Throttle Position Sensor No.2 Voltage 2.598 V	Throttle Position Command 0.957 V	Throttle Air Flow Learn Value (Area 1) 0.93	Throttle Air Flow Learn Value (Area 2) 0.93

Ver2022.02.008.01 Subscription Expiration:31td

11.10 Untitled Slide

TOYOTA | GTS+ (G) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 29528.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: - Time: - Flag Count: -

Vehicle Speed 0 MPH	Engine Speed 0 rpm	Calculate Load 0.0 %	Vehicle Load 0.0 %
Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure -1 psi(gauge)	Intake Manifold Absolute Pressure 14.22 psi	Intake Manifold Absolute Pressure Supported Supp
Coolant Temperature 127 F	Intake Air Temperature 91 F	Ambient Temperature 91 F	Engine Run Time 2375 sec
Radiator Coolant Temperature 86 F	Initial Engine Coolant Temperature 128.8 F	Initial Engine Intake Air Temperature 91.6 F	Battery Voltage 14.3 V
Engine Oil Pressure 0.703 kPa	Throttle Request Position 0.957 V	Throttle Sensor Position 0.0 %	Throttle Position Sensor No.1 Voltage 0.957 V
Throttle Position Sensor No.2 Voltage 2.598 V	Throttle Position Command 0.957 V	Throttle Air Flow Learn Value (Area 1) 0.93	Throttle Air Flow Learn Value (Area 2) 0.93

Ver2022.02.008.01 Subscription Expiration:31td

11.11 Untitled Slide

TOYOTA | GTS+ (G) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 29528.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: - Time: - Flag Count: -

Vehicle Speed 0 MPH	Engine Speed 0 rpm	Calculate Load 0.0 %	Vehicle Load 0.0 %
Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure -1 psi(gauge)	Intake Manifold Absolute Pressure 14.22 psi	Intake Manifold Absolute Pressure Supported Supp
Coolant Temperature 127 F	Intake Air Temperature 91 F	Ambient Temperature 91 F	Engine Run Time 2379 sec
Radiator Coolant Temperature 86 F	Initial Engine Coolant Temperature 128.8 F	Initial Engine Intake Air Temperature 91.6 F	Battery Voltage 14.3 V
Engine Oil Pressure 0.703 kPa	Throttle Request Position 0.957 V	Throttle Sensor Position 0.0 %	Throttle Position Sensor No.1 Voltage 0.957 V
Throttle Position Sensor No.2 Voltage 2.598 V	Throttle Position Command 0.957 V	Throttle Air Flow Learn Value (Area 1) 0.93	Throttle Air Flow Learn Value (Area 2) 0.93

Ver2022.02.008.01 Subscription Expiration:31td

11.12 Untitled Slide

TOYOTA | GTS+ (v) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 29528.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: - Time: - Flag Count: -

Vehicle Speed 0 MPH	Engine Speed 0 rpm	Calculate Load 0.0 %	Vehicle Load 0.0 %
Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure -1 psi(gauge)	Intake Manifold Absolute Pressure 14.23 psi	Intake Manifold Absolute Pressure Supported Supp
Coolant Temperature 127 F	Intake Air Temperature 91 F	Ambient Temperature 91 F	Engine Run Time 2382 sec
Radiator Coolant Temperature 86 F	Initial Engine Coolant Temperature 128.8 F	Initial Engine Intake Air Temperature 91.6 F	Battery Voltage 14.3 V
Engine Oil Pressure 0.703 kPa	Throttle Request Position 0.957 V	Throttle Sensor Position 0.0 %	Throttle Position Sensor No.1 Voltage 0.957 V
Throttle Position Sensor No.2 Voltage 2.598 V	Throttle Position Command 0.957 V	Throttle Air Flow Learn Value (Area 1) 0.93	Throttle Air Flow Learn Value (Area 2) 0.93

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11.13 Untitled Slide

TOYOTA | GTS+ (v) Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 29528.00mile

Engine DTC Data List Active Test Utility Dual Data List

STATUS

MONITOR Frame: - Time: - Flag Count: -

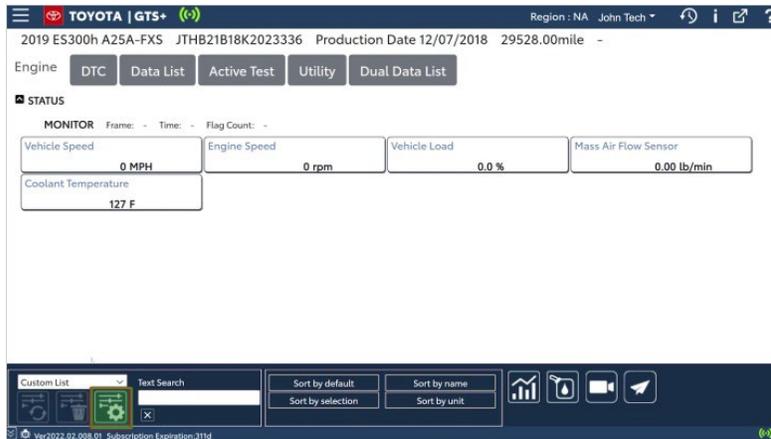
Vehicle Speed 0 MPH	Engine Speed 0 rpm	Calculate Load 0.0 %	Vehicle Load 0.0 %
Mass Air Flow Sensor 0.00 lb/min	Atmospheric Pressure -1 psi(gauge)	Intake Manifold Absolute Pressure 14.22 psi	Intake Manifold Absolute Pressure Supported Supp
Coolant Temperature 127 F	Intake Air Temperature 91 F	Ambient Temperature 91 F	Engine Run Time 2393 sec
Radiator Coolant Temperature 86 F	Initial Engine Coolant Temperature 127.6 F	Initial Engine Intake Air Temperature 91.6 F	Battery Voltage 14.3 V
Engine Oil Pressure 0.703 kPa	Throttle Request Position 0.957 V	Throttle Sensor Position 0.0 %	Throttle Position Sensor No.1 Voltage 0.957 V
Throttle Position Sensor No.2 Voltage 2.598 V	Throttle Position Command 0.957 V	Throttle Air Flow Learn Value (Area 1) 0.93	Throttle Air Flow Learn Value (Area 2) 0.93

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Notes:

Now that we have the parameters selected, select the "new list" button.

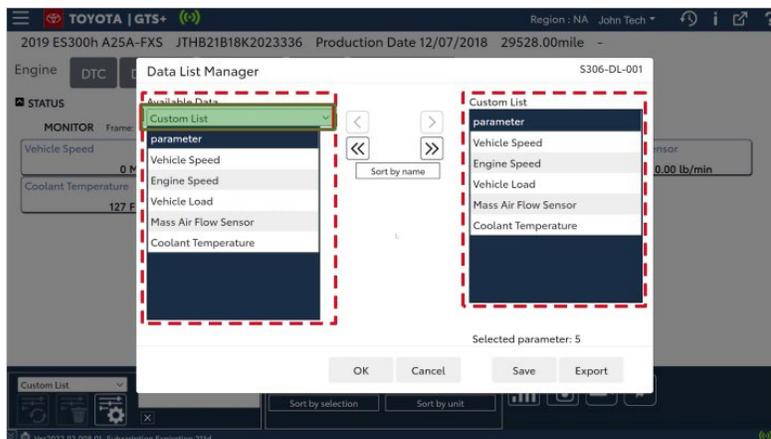
11.14 Untitled Slide



Notes:

Now that we have our data list parameters, let's save it for future use. Select the data manager button.

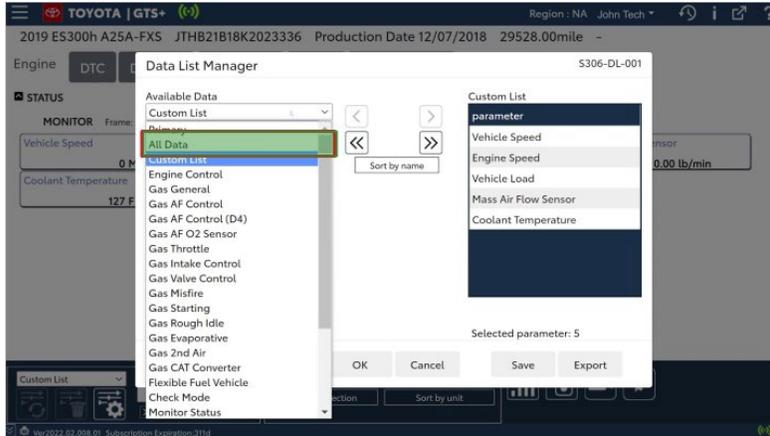
11.15 Untitled Slide



Notes:

Before we select the save button, let's go over what you can do in the data manager menu. First, you have two data lists shown, to your right is your "Custom List" and to the left is your "Available Data". Since we started off from a new list, that is what is shown. Let's select a larger data list. Select the dropdown menu.

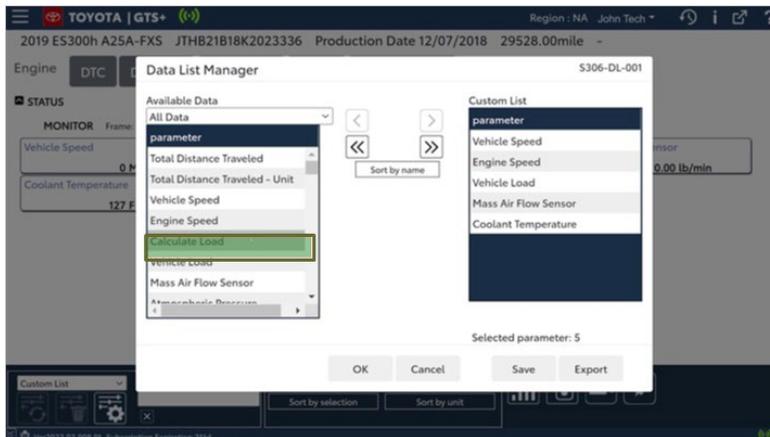
11.16 Untitled Slide



Notes:

Now select "All Data".

11.17 Untitled Slide

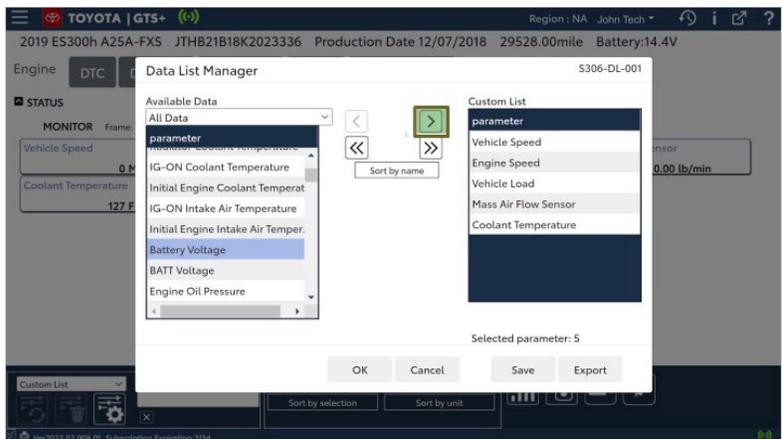


Notes:

Next let's add a parameter such as battery voltage to our custom list.

Select "Battery Voltage".

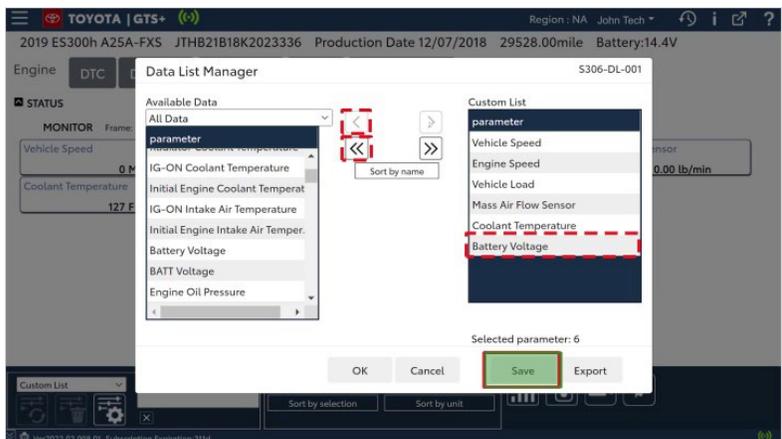
11.18 Untitled Slide



Notes:

Now we can add battery voltage to our list by selecting the upper-right, single arrow.

11.19 Untitled Slide

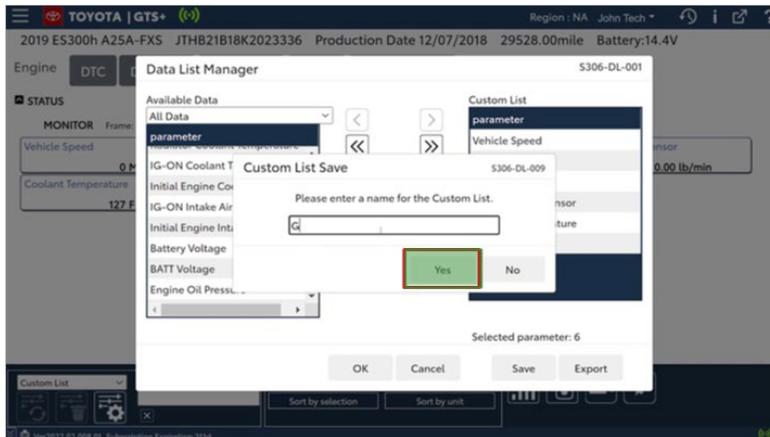


Notes:

And now "Battery Voltage" has been added to the list. If we want to remove a single item from the list, we would select an item from our "custom list" and then select the single arrow pointing left to remove. If we wanted to add or remove ALL the data in the list, we would select the lower double arrows.

Let's now save our list. Select the Save button.

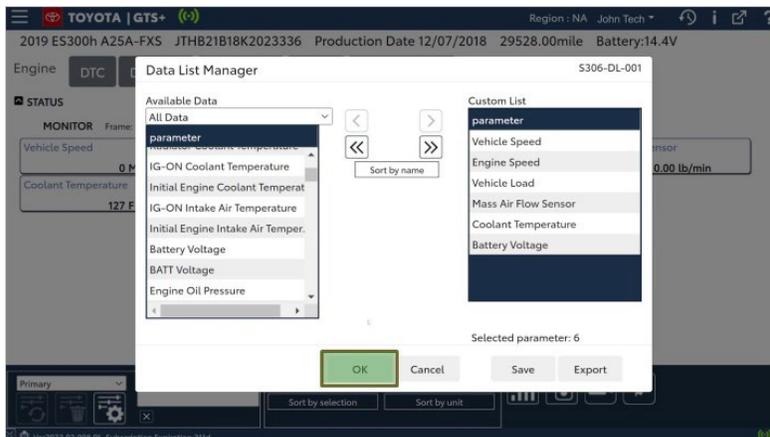
11.20 Untitled Slide



Notes:

Here you will enter a name for your list. For this module we will enter one ourselves. Select Yes to save the name and list.

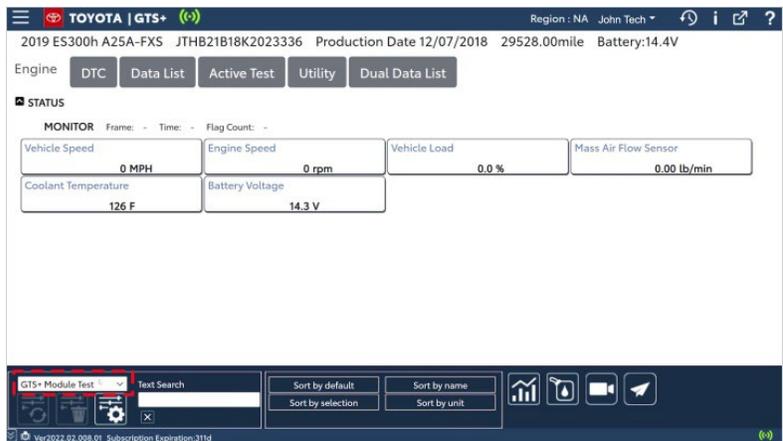
11.21 Untitled Slide



Notes:

Select OK to close the data list manager.

11.22 Untitled Slide

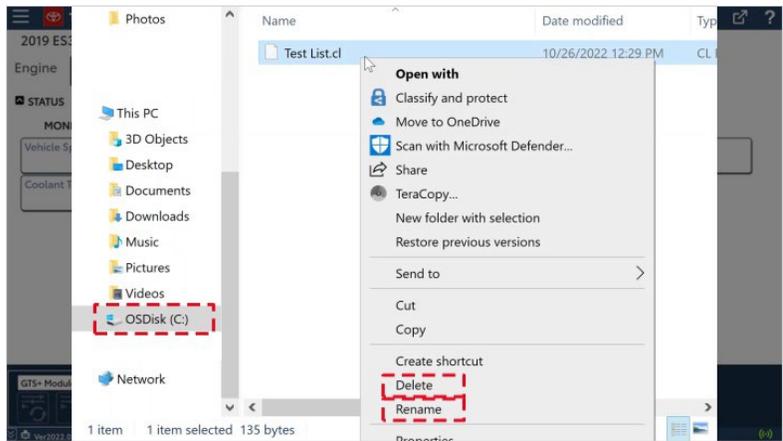


Notes:

Now we can see our data list has been saved and there is an option to select it from the drop down. This data list will follow the user. It will not be accessible for other users even if on the same computer.

Finally, we will cover how to delete a custom data list. Select Next to continue.

11.23 Untitled Slide



Notes:

To delete a custom data list, we have to access the "C" drive of the computer. Note, depending on your IT policy and programming, this data may be saved in a different drive. Talk with your IT department if you do not see the options in your "C" drive, or if you do not have access to it.

To start, you will access the following menus; Toyota Diagnostic > GTS Plus > Data > PID Group > User > Your User Number. From this menu you will be able to rename and delete custom data lists.

This concludes the data list section of the module.

White out the info in the folder area

12. Save Merge Data

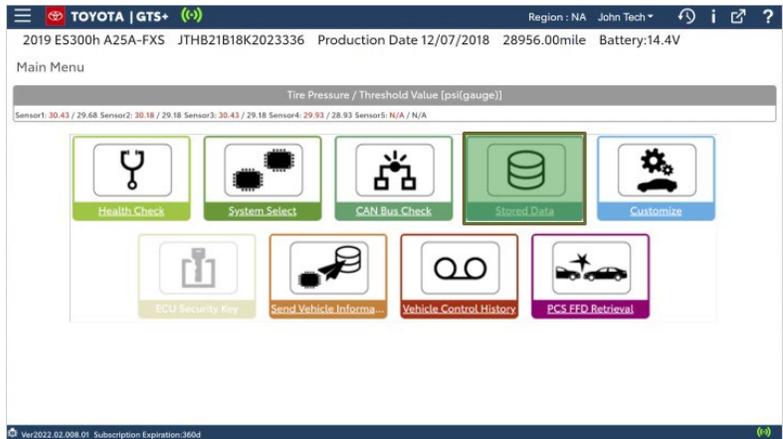
12.1 UNIT TITLE



Notes:

After completing the Save Data section, you will be able to save data in GTS+.

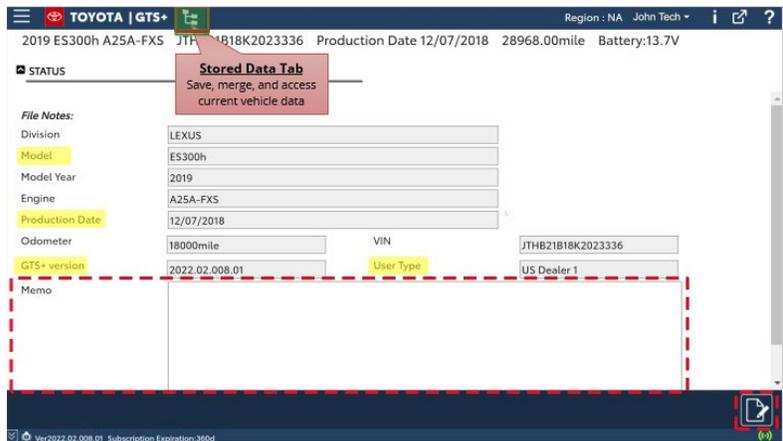
12.2 Untitled Slide



Notes:

We will now review how to save GTS+ files to your computer. Starting from the main menu, select the “Stored Data” icon.

12.3 Untitled Slide

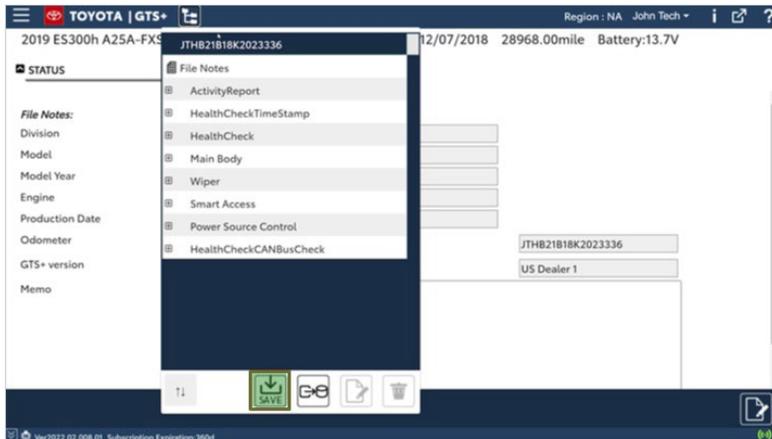


Notes:

Here is the stored data tab. This screen will show basic vehicle information like model, and production, as well as user and GTS+ version information. You can add notes using the memo button below. Adding memo notes will help locate specific files for future reference.

Now, you might have noticed a small change at the top of the screen. The online status icon has disappeared and a new icon is now shown in its place. This is the stored data tab icon and is used to save, merge and access current vehicle data. Let’s move on by selecting the stored data icon at the top of the screen.

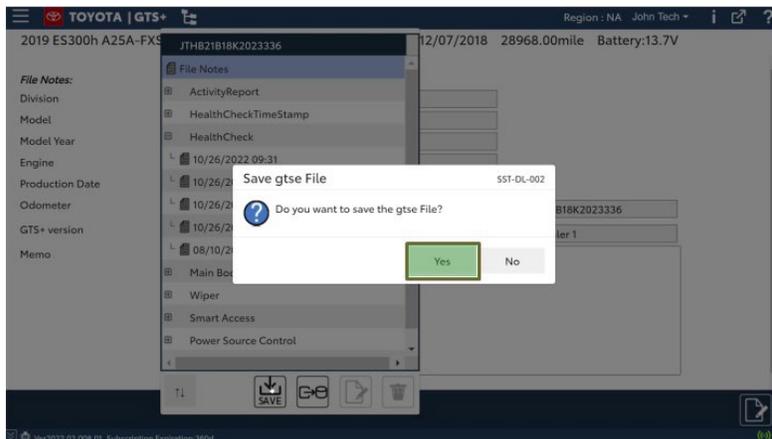
12.4 Untitled Slide



Notes:

Here you will see the current vehicle file notes. This can be used to reference data collected from the current vehicle connection. To save this data simply select the save button at the bottom of the pop-up window. Also take note of save buttons found in other menus to save specific system data.

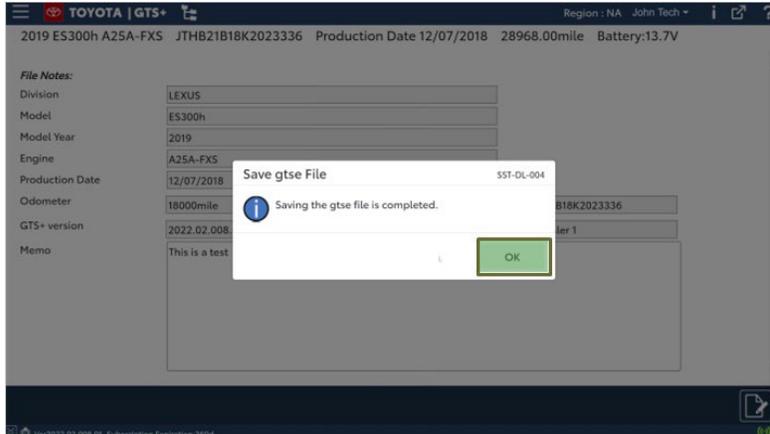
12.5 Untitled Slide



Notes:

Once selected, a confirmation screen will appear. Select Yes to continue.

12.6 Untitled Slide



Notes:

A confirmation message will appear. This is how you save GTS+ Data.
Select OK to continue.

13. Open Scan Data File

13.1 UNIT TITLE

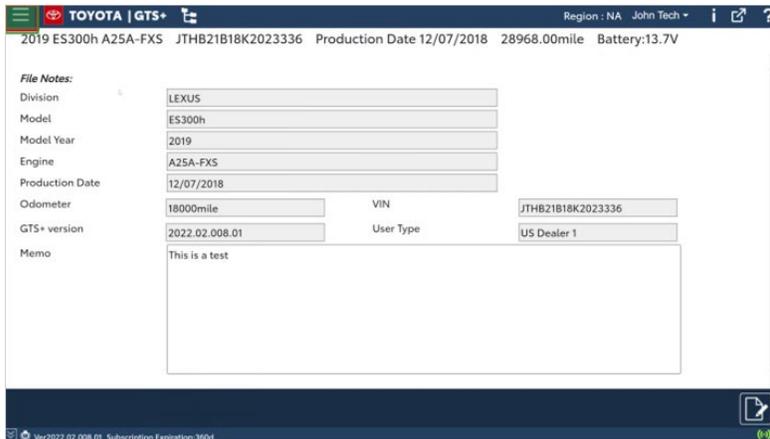


Notes:

After completing the Open Scan Data File unit, you will be able to:

- Access Previously Saved Data

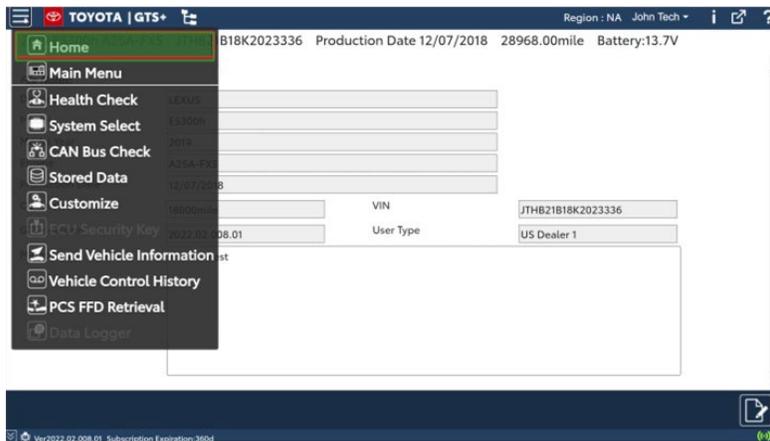
13.2 Untitled Slide



Notes:

Now we will cover the opening of saved data files. To start, we will need to navigate to the home screen. Select the Hamburger icon in the upper-left of the screen.

13.3 Untitled Slide



Notes:

Select "Home".

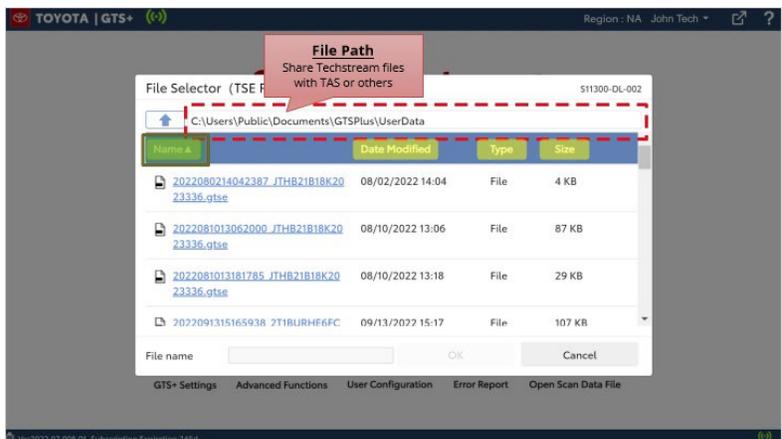
13.4 Untitled Slide



Notes:

From the home screen, select the “Open Scan Data File” button.

13.5 Untitled Slide



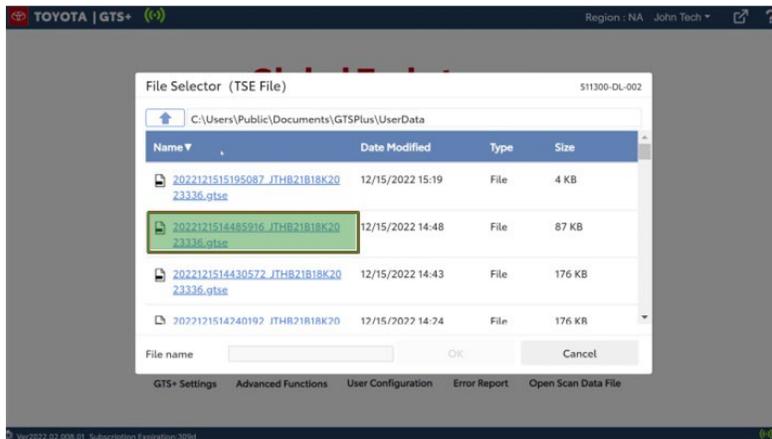
Notes:

Here is where you will access previous scan data files. Let’s review what this page can do.

To start, at the top is the file path for the techstream files on your computer. If you want to share files with T-A-S or others, this file path is what you will follow to access techstream files.

Moving downward, you have file “name”, “date”, “type” and “size”. You can also sort files. Let’s move on by selecting the “Name” column header and reverse the sorting order.

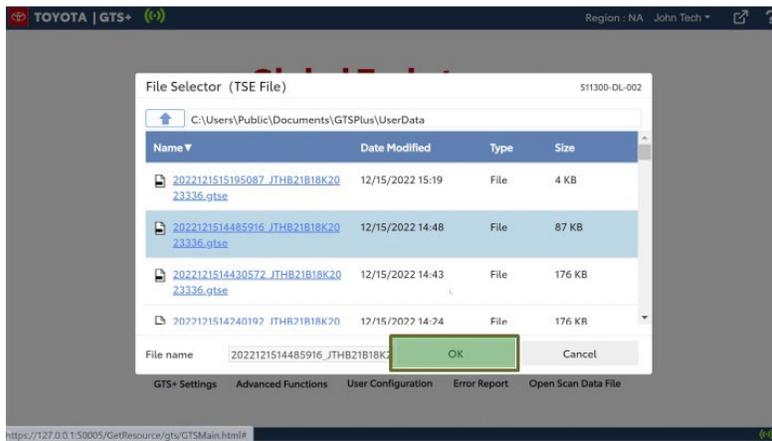
13.6 Untitled Slide



Notes:

Now that the files are sorted with the most recent files at the top, let's open the second file on this page to continue. Select the second file link.

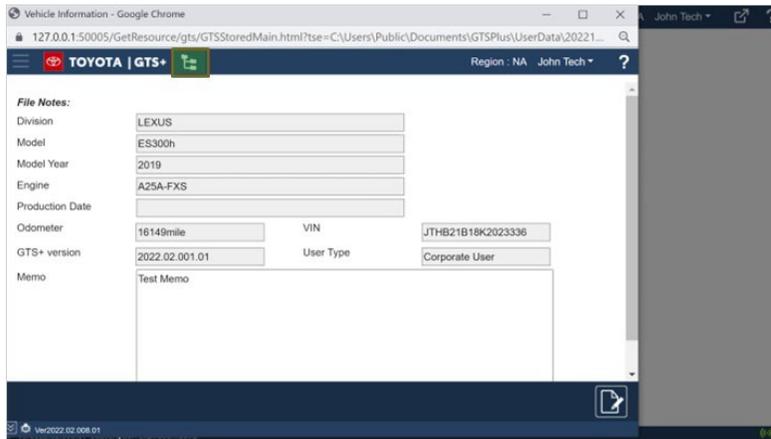
13.7 Untitled Slide



Notes:

Now, at the bottom of the screen, select OK.

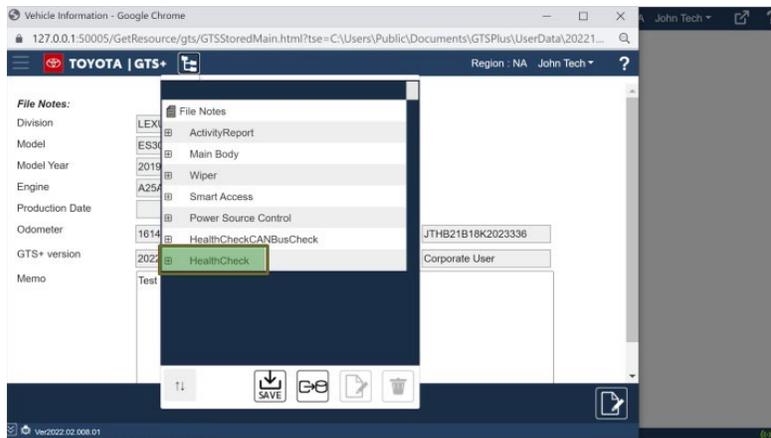
13.8 Untitled Slide



Notes:

This will open a pop-up screen with the stored data file of the techstream file selected. Select the "stored data" icon at the top of the screen to open the file note summary.

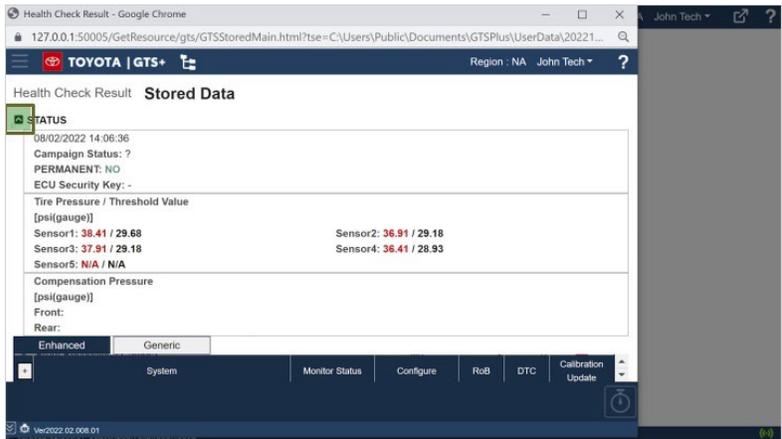
13.9 Untitled Slide



Notes:

This is the same as when we were accessing stored data in the "Save Merge Data" section. Let's access the Health Check screen to give an example of what the data looks like. Select Health Check to continue.

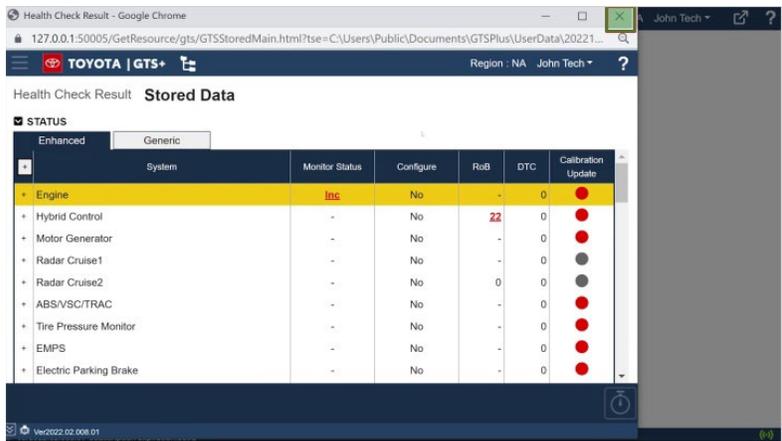
13.10 Untitled Slide



Notes:

Here is where all data saved during the health check can be accessed. To view the lower section, select the Arrow next to the "Status" header.

13.11 Untitled Slide

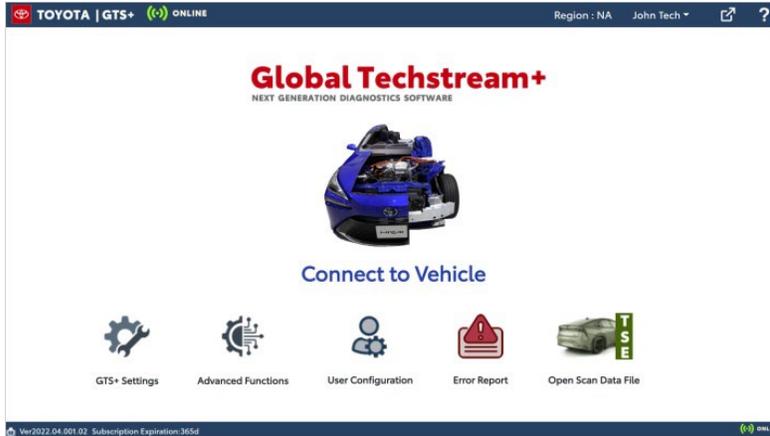


Notes:

Here you can see the health check results for each ECU checked when the data was originally saved.

When you are done reviewing the data, simply use the "X" in the upper-right of the page to close the menu. This will take you back to the home screen. Select the X to continue.

13.12 Untitled Slide



Notes:

This concludes saving and accessing saved files. We will now move on to the final section of this module which is creating an error report.

14. Error Report

14.1 UNIT TITLE



Notes:

After completing the Error Report section, you will be able to:

- Create an Error Report
- and Edit and Submit an Error Report

14.2 Untitled Slide



Notes:

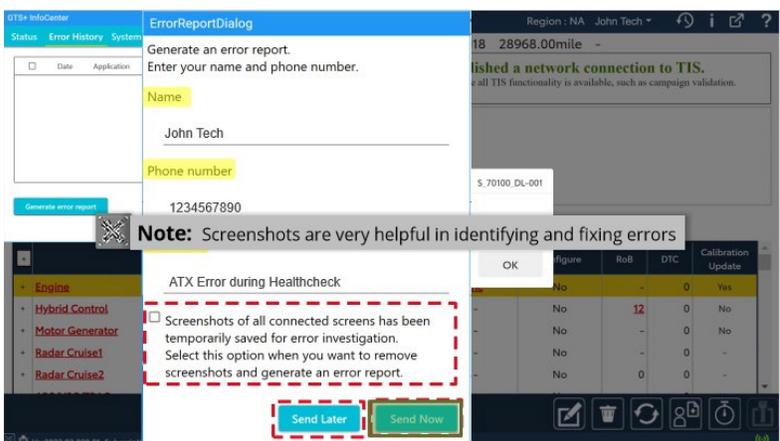
Now there may be times when using the tool, you find an error or bug. It is the weak point of all software used in today's age. To help remedy any issues as quickly as possible, we need your help in reporting errors you come across. So, in this final section, we are going to cover how to create an error report.

In this example we see an ATX web service error has popped up during a health check.

To start an error report, select the F12 key on your keyboard.

Press F12 now to continue.

14.3 Untitled Slide



Notes:

Once F12 is pressed, the GTS+ info center and Error Report Dialog will pop up. You will be asked to fill out your name, a phone number by which you can be reached, and comments about the error.

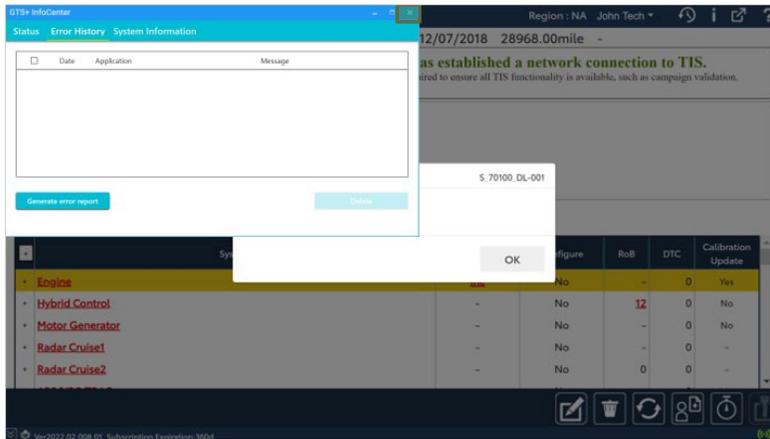
There is also a checkbox to select if you DO NOT want to share screenshots of your computer. Please note, screenshots are very helpful in identifying and fixing errors.

Let's fill out the information quickly.

Once the information is filled out, select the Send Later button to continue.

*Update to just F12

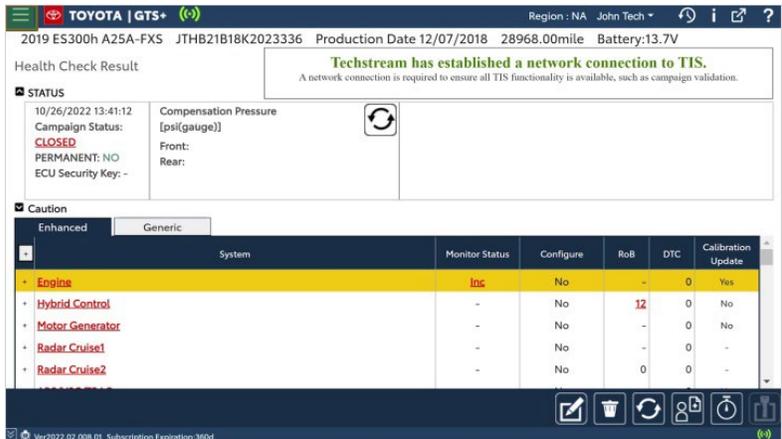
14.4 Untitled Slide



Notes:

To review and send the error report, we have to navigate to the error report menu. Close the info center to continue.

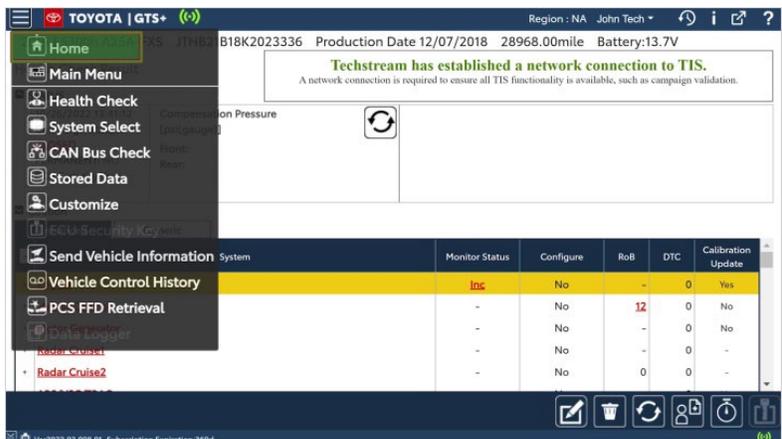
14.5 Untitled Slide



Notes:

Select the hamburger menu in the upper left of the screen.

14.6 Untitled Slide



Notes:

Select "Home".

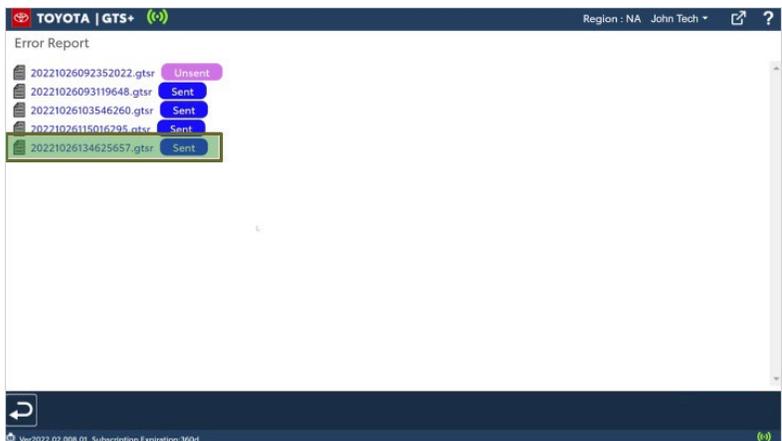
14.7 Untitled Slide



Notes:

To view error reports, select the "Error Report" icon on the home screen.

14.8 Untitled Slide

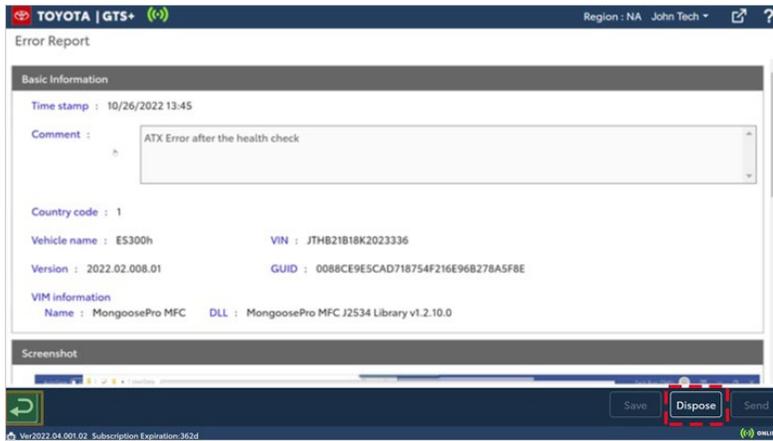


Notes:

There you will see all error reports and their status. As you can see, we have some that have been sent and one that hasn't.

Select the error report at the bottom to view it.

14.9 Untitled Slide



Notes:

When viewing an error report, you will see the various details captured during the error report capture from both the vehicle and scan tool. You will also see the option to display the TAS case (need further details on this function) and dispose of the error report.

Select the "Dispose TAS Case" button to continue.

14.10 Untitled Slide



Notes:

Here you will see the error report menu. This will list all created error reports for the user. You will see the Error report number with the most recent error reports at the bottom of the list. Let's select an error report to review.

14.11 Untitled Slide



Notes:

Once selected, the error report details will be shown. Here you will be able to edit the comments, review screenshots, save any comments that were edited, dispose of error report if an error is made, or send the error report.

Once you are done reviewing, select the Send button to continue.

14.12 Untitled Slide



Notes:

This concludes the error report creation. Next, there will be a post assessment to cover what was learned during this module.

Select Next to start the post assessment test.

15. Assessment

15.1 ASSESSMENT



ASSESSMENT

Things to note:

- 10 questions
- Answer each question, then select SUBMIT
- Assessment is scored at the end
- 80% to pass
- If first attempt is not passed, review and retry missed questions
- If second attempt is not passed, the course must be restarted

Select **NEXT** to begin the assessment.

TECHNICAL TRAINING

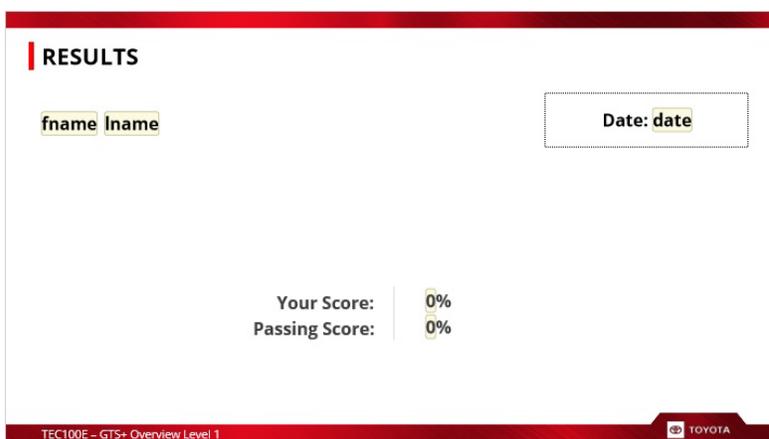
TOYOTA

15.2 Draw from Assessment Questions

Draw all questions randomly from Assessment Questions

15.3 RESULTS

(Results Slide, 0 points, 1 attempt permitted)



RESULTS

fname lname Date: date

Your Score: 0%
Passing Score: 0%

TEC100E – GTS+ Overview Level 1 TOYOTA

Results for
15.2 Draw from Assessment Questions

Result slide properties

Passing 80%

Score

Notes:

Failure (Slide Layer)

RESULTS

fname lname Date: date

Select Review Assessment to view your incorrect responses on the assessment. After review, you will receive a second attempt at the questions you missed.

You did not pass this course.

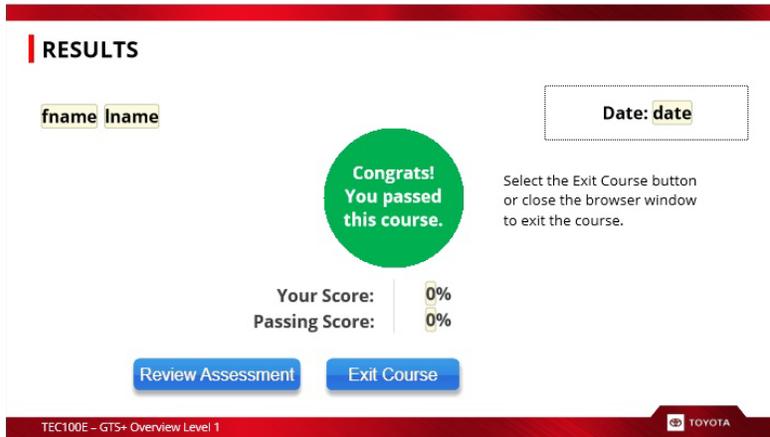
Restart the course to review the course content again. A new assessment will be generated.

Your Score: 0%
Passing Score: 0%

Review Assessment Restart Course Retry Assessment

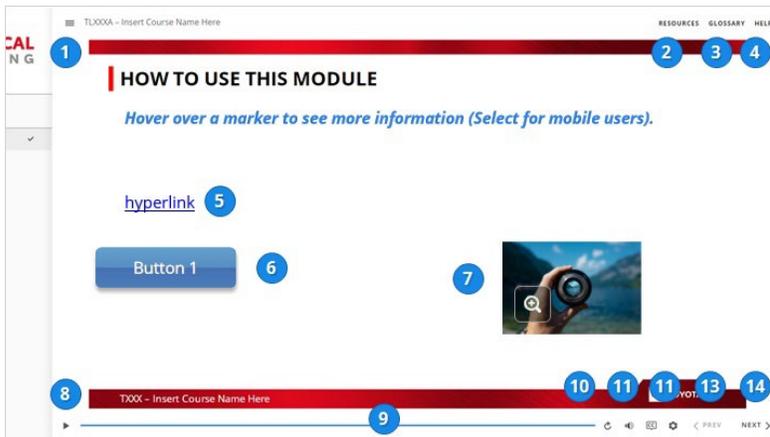
TEC100E - GTS+ Overview Level 1 TOYOTA

Success (Slide Layer)



16. Help

16.1 HOW TO USE THIS MODULE



17. Hidden

17.1 6.6



Notes:

Next, select the Information Icon shown as the letter "i".

18. Comp Tire

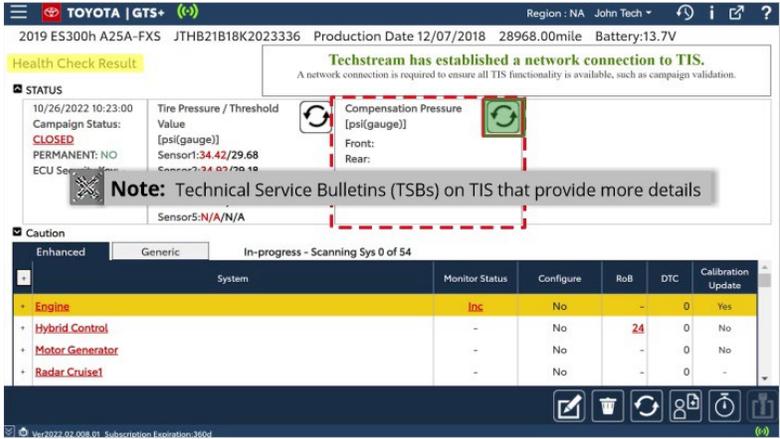
18.1 UNIT TITLE



Notes:

After completing the Compensation Tire section, you will be able to Perform Compensation Tire Function

18.2 Untitled Slide

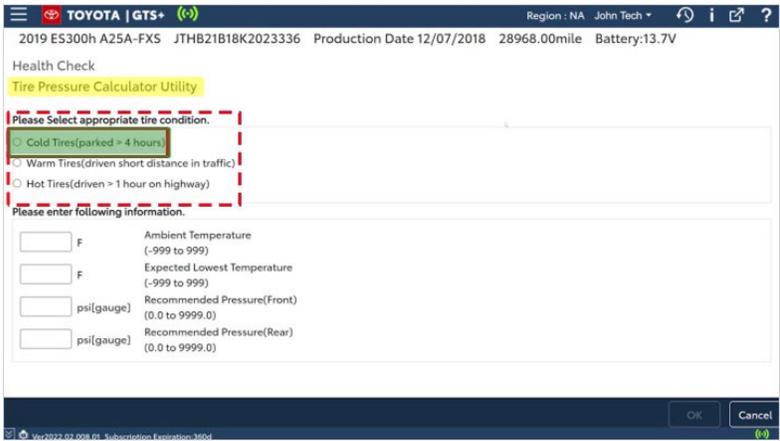


Notes:

The next function we are going to cover is called Compensation Pressure. This allows you to prevent frequent low tire pressure warnings during cold weather by adjusting tire pressure to a higher level. This tool calculates what that pressure should be. You can find Technical Service Bulletins (TSBs) on TIS that provide details into how this function works. Today, we will simply be going over how to perform this function in GTS+.

To start, you must complete a health check on the vehicle (Need to confirm if "Need" is the right word.) To save time, we have already done that. In the Compensation Pressure box, you will see the two circular arrows. Select that button to continue.

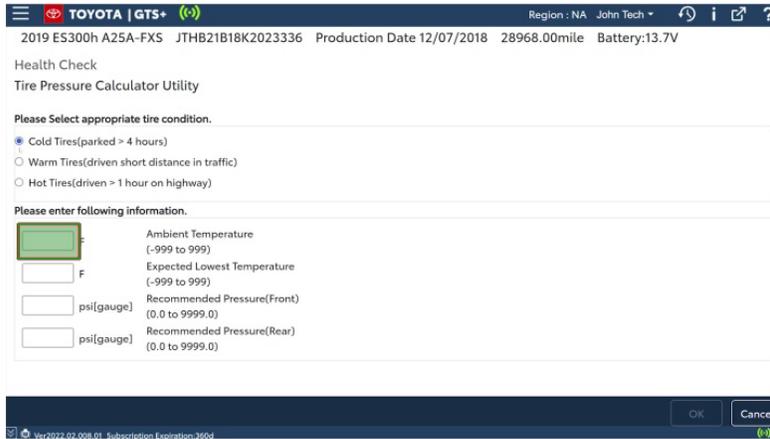
18.3 Untitled Slide



Notes:

This is the Compensation Pressure, or also called Tire Pressure Calculator Utility. To start, we will select a tire condition. Select the " Cold Tires" option.

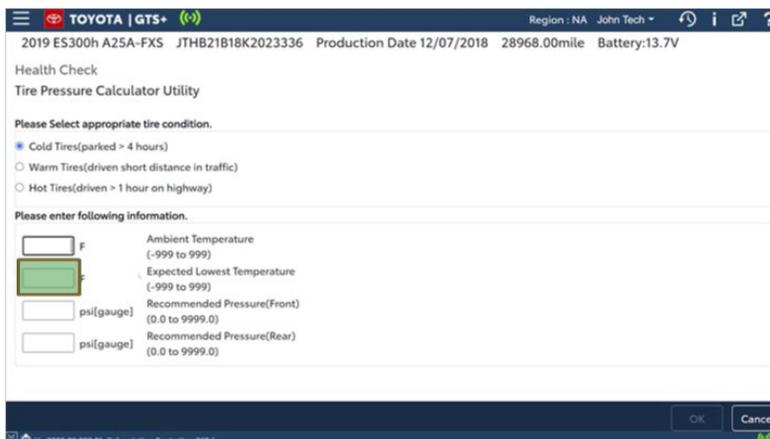
18.4 Untitled Slide



Notes:

Then we will enter the various values needed to perform the calculation. For this simulation, simply select each box and we will populate a sample value.

18.5 Untitled Slide



18.6 Untitled Slide

TOYOTA | GTS+ (6)

Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 28968.00mile Battery:13.7V

Health Check

Tire Pressure Calculator Utility

Please Select appropriate tire condition.

- Cold Tires(parked > 4 hours)
- Warm Tires(driven short distance in traffic)
- Hot Tires(driven > 1 hour on highway)

Please enter following information.

<input type="text" value="53"/> F	Ambient Temperature (-999 to 999)
<input type="text" value="1"/> F	Expected Lowest Temperature (-999 to 999)
<input type="text" value="35"/> psi(gauge)	Recommended Pressure(Front) (0.0 to 9999.0)
<input type="text" value="33"/> psi(gauge)	Recommended Pressure(Rear) (0.0 to 9999.0)

OK Cancel

18.7 Untitled Slide

TOYOTA | GTS+ (6)

Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 28968.00mile Battery:13.7V

Health Check

Tire Pressure Calculator Utility

Please Select appropriate tire condition.

- Cold Tires(parked > 4 hours)
- Warm Tires(driven short distance in traffic)
- Hot Tires(driven > 1 hour on highway)

Please enter following information.

<input type="text" value="53"/> F	Ambient Temperature (-999 to 999)
<input type="text" value="38"/> F	Expected Lowest Temperature (-999 to 999)
<input type="text" value="35"/> psi(gauge)	Recommended Pressure(Front) (0.0 to 9999.0)
<input type="text" value="33"/> psi(gauge)	Recommended Pressure(Rear) (0.0 to 9999.0)

OK Cancel

18.8 Untitled Slide

TOYOTA | GTS+ (6)

Region: NA John Tech

2019 ES300h A25A-FXS JTHB21B18K2023336 Production Date 12/07/2018 28968.00mile Battery:13.7V

Health Check

Tire Pressure Calculator Utility

Please Select appropriate tire condition.

- Cold Tires(parked > 4 hours)
- Warm Tires(driven short distance in traffic)
- Hot Tires(driven > 1 hour on highway)

Please enter following information.

<input type="text" value="53"/> F	Ambient Temperature (-999 to 999)
<input type="text" value="38"/> F	Expected Lowest Temperature (-999 to 999)
<input type="text" value="35"/> psi(gauge)	Recommended Pressure(Front) (0.0 to 9999.0)
<input type="text" value="33"/> psi(gauge)	Recommended Pressure(Rear) (0.0 to 9999.0)

OK Cancel

1. Assessment Questions

Q1.1 *When logging into GTS+ for the first time on a device, is an internet connection required?*

(Choose the best answer, then select submit)

(True/False, 1 points, 1 attempt permitted)

ASSESSMENT

When logging into GTS+ for the first time on a device, is an internet connection required?
(Choose the best answer, then select submit)

True
 False

TEC100E – GTS+ Overview Level 1

Correct	Choice
X	True
	False

Q1.2 *The GTS+ software version number and subscription expiration can be located at the _____ of the screen.*

(Choose the best answer, then select submit)

(Multiple Choice, 1 points, 1 attempt permitted)

ASSESSMENT

The GTS+ software version number and subscription expiration can be located at the _____ of the screen.
(Choose the best answer, then select submit)

Upper Left

Upper Right

Lower Left

Lower Right

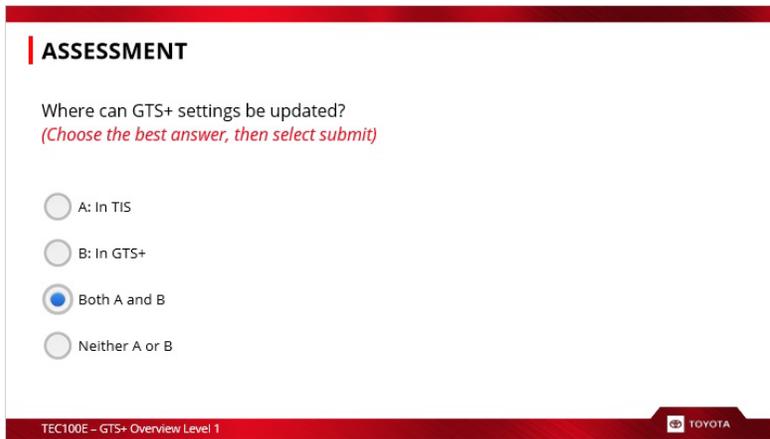
TEC100E – GTS+ Overview Level 1 

Correct	Choice
	Upper Left
	Upper Right
X	Lower Left
	Lower Right

Q1.3 Where can GTS+ settings be updated?

(Choose the best answer, then select submit)

(Multiple Choice, 1 points, 1 attempt permitted)



Correct	Choice
	A: In TIS
	B: In GTS+
X	Both A and B
	Neither A or B

Q1.4 At any point during the health check, you can select the cancel button or access an ECU that has be scanned already by selecting the desired ECU?

(Choose the best answer, then select submit)

(True/False, 1 points, 1 attempt permitted)

ASSESSMENT

At any point during the health check, you can select the cancel button or access an ECU that has been scanned already by selecting the desired ECU?
(Choose the best answer, then select submit)

True
 False

TEC100E – GTS+ Overview Level 1 

Correct	Choice
X	True
	False

Q1.5 What is the default screen when accessing an ECU through System Select?

(Choose the best answer, then select submit)

(Multiple Choice, 1 points, 1 attempt permitted)

ASSESSMENT

What is the default screen when accessing an ECU through System Select?
(Choose the best answer, then select submit)

DTC
 Data list
 Active Test
 Utility

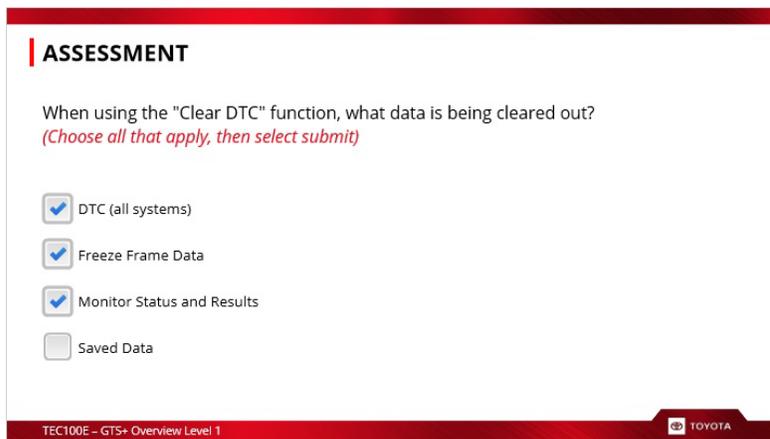
TEC100E – GTS+ Overview Level 1 

Correct	Choice
X	DTC
	Data list
	Active Test
	Utility

Q1.6 When using the "Clear DTC" function, what data is being cleared out?

(Choose all that apply, then select submit)

(Multiple Response, 1 points, 1 attempt permitted)



Correct	Choice
X	DTC (all systems)
X	Freeze Frame Data
X	Monitor Status and Results

Saved Data

Q1.7 Where can the previously made Error Reports be accessed from?

(Choose the best answer, then select submit)

(Multiple Choice, 1 points, 1 attempt permitted)

ASSESSMENT

Where can the previously made Error Reports be accessed from?
(Choose the best answer, then select submit)

Main Menu

Home Screen

Stored Data

System Select

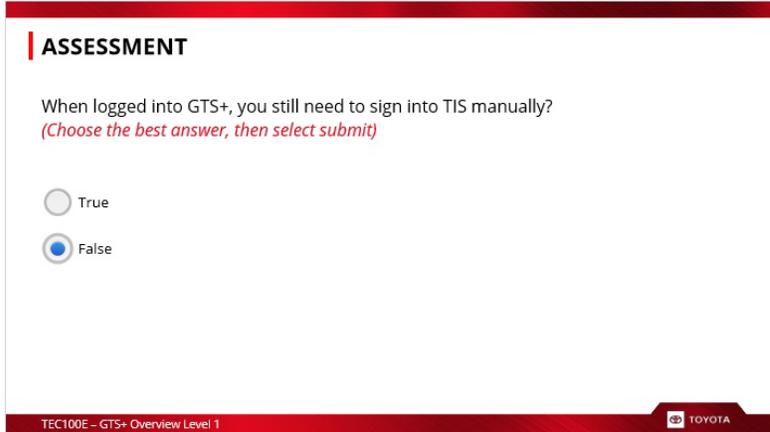
TEC100E - GTS+ Overview Level 1

Correct	Choice
	Main Menu
X	Home Screen
	Stored Data
	System Select

Q1.8 When logged into GTS+, you still need to sign into TIS manually?

(Choose the best answer, then select submit)

(True/False, 1 points, 1 attempt permitted)

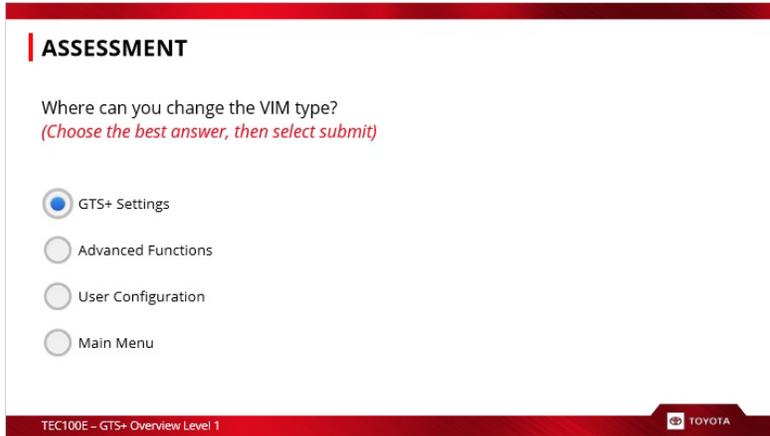


Correct	Choice
	True
X	False

Q1.9 Where can you change the VIM type?

(Choose the best answer, then select submit)

(Multiple Choice, 1 points, 1 attempt permitted)



Correct	Choice
X	GTS+ Settings
	Advanced Functions
	User Configuration
	Main Menu

Q1.10 When viewing a Data List, what sorting options are available?

(Choose all that apply, then select submit)

(Multiple Response, 1 points, 1 attempt permitted)

ASSESSMENT

When viewing a Data List, what sorting options are available?
(Choose all that apply, then select submit)

- Sort by default
- Sort by name
- Sort by selection
- Sort by unit

TEC100E – GTS+ Overview Level 1 

Correct	Choice
X	Sort by default
X	Sort by name
X	Sort by selection
X	Sort by unit