

◄ IMPORTANT UPDATE ►

The attached Technical Instructions have been updated. Refer to the details below.

DATE		TOPIC
November 8, 2019	•	The background description has been updated.

The most recent update in the attached Technical Instructions will be highlighted with a red box.

Please review this notification with your staff to assure that all relevant personnel have been briefed regarding this subject.

Thank you for your cooperation.

TECHNICAL INSTRUCTIONS

Safety (Noncompliance) Recall 19TA19 Certain 2020 Model Year Supra Vehicles Back Up Camera Display - Brightness and Contrast Settings

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently hold <u>at least one</u> of the following certification levels:

- Certified (any specialty)
- Expert (any specialty)
- Master
- Master Diagnostic Technician

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this recall repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.



II. IDENTIFICATION OF AFFECTED VEHICLES

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were completed by another dealer.

III. PREPERATION

A. TOOLS, SUPPLIES & EQUIPMENT

- Techstream ADVi (TSADVUNIT)
- Battery Diagnostic Tool (DCA-8000P)
- Toyota Supra Diagnostic Cable (01018-00118)

IV. BACKGROUND

If the rearview camera's brightness is set at/near its lowest setting, and the contrast is set at/near its highest setting then, under certain lighting conditions, at the "next backing event", the display may not meet a Federal requirement. In these settings/conditions, if a driver relied on the displayed image, this could increase the risk of a crash when reversing.

V. OVERVIEW OF REMEDY PROCEDURE (REPROGRAMMING USING ISTA)

Software inside the vehicle's computers are reprogrammed using Toyota ISTA. Reprogramming of ECUs via Toyota ISTA requires that the software version status of the ECUs on the vehicle is unified, so reprogramming is always carried out for <u>all</u> ECUs.

It is not possible to select a target ECU and then reprogram it individually. Always follow the directions of this document when carrying out reprogramming work in order to prevent any potential damage to the ECUs due to by communication errors, voltage drops, or other problems.

I. INSTALL THE LATEST VERSION OF TOYOTA ISTA

1. It is <u>CRITICAL</u> to install the <u>latest</u> version of Toyota ISTA on the Techstream ADVi. Your current ISTA version may not be sufficient for this campaign.

Minimum* ISTA Version Required for this Campaign: 4.19.40.18949.

*Versions of ISTA higher than 4.19.40.18949 are also acceptable. As a best practice you should <u>always</u> download the <u>latest</u> version of ISTA when performing this campaign.

2. Access this URL for instructions on how to download the latest version of ISTA: <u>Toyota ISTA Installation Instructions</u>

II. CHECK ISTA VERSION OF ADVi

1. Its <u>CRITICAL</u> to confirm that the ISTA version installed on your Techstream ADVi meets or exceeds version 4.19.40.18949 before proceeding.

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III. ENSURE THAT VEHICLE HAS COMPLETED PRE-DELIVERY SERVICE

Make sure that Pre-delivery Service has been completed before this reprogramming. If Pre-delivery service has not been completed before this reprogramming, the reprogramming may not be completed correctly. Refer to T-SB-0083-19 for Pre-delivery technical instructions.

IV. PREPARE THE TECHSTREAM AVDi



- **1.** Boot-up the ADVi.
- 2. Complete all pending Windows updates.
- 3. Disable any automatic Windows updates and configure antivirus software so that it doesn't automatically run.
- 4. Disable all automatic screen savers.
- 5. Disable "sleep mode" within windows power settings.
- 6. Close all other applications.
- 7. Attach the Techstream ADVi directly to an AC Power Supply.
- 8. Do not perform any other functions while Toyota ISTA is reprogramming.

V. PREPARE THE VEHICLE

NOTICE: During reprogramming, each system (lights, mirrors, seats, windows, etc.) will be operated automatically for initialization. If operation is obstructed, a fault code is recorded, and the initialization may not finish normally. To prevent this, follow each instruction displayed on the screen while carrying out work.



PREPARE THE VEHICLE (Continued.....)

NG 019776401013e	3. DO NOT place anything on the windshield so that the wiper can work normally, because the wiper may move automatically during reprogramming for initialization.
NG O O D D D D D D D D D D D D D D D D D	 Remove all the inserted and connected data carriers from the vehicle. Unpair (disconnect) all Bluetooth devices/cell phones from the vehicle.
NG OI9776401012e	 DO NOT place any on, in front of, or behind the front seats because the front seats move automatically during reprograming for initialization.
NG Do not cover	 DO NOT cover the headlights with protective covers because temperature may rise and the headlights may be deformed or damaged.

- 7. Set the shift lever to "P" and then engage the parking brake.
- 8. Turn off the engine and then set all of the switches of the electrical components to off. Make sure the climate control and radio are turned off.
- 9. Close all doors and the back door, the hood must remain open as the battery charger will need to be connected to the charging terminal during the reprogramming process.

VI. CONNECT THE BATTERY CHARGER

Before starting the reprogramming procedure, please make sure you have connected the DCA-8000 battery charger. The usage of a charger during the ECU Software update process is mandatory.

During this reprogramming the headlights will turn on, and the seats and other electrical components will function. To prevent damage to the ECU's, due to flat battery or voltage drop, ALWAYS connect the specified battery charger.

Unlike other Toyota vehicles, the new Toyota Supra is capable of drawing high amperage (a peak of 70 Amps flows at maximum) during diagnosis and repair. The Toyota Supra is equipped with an AGM type battery, discharges will affect the life span of the battery. AGM batteries must not have a charging voltage that exceeds 14.6 volts.

- Always connect the power supply of the battery charger to an outlet directly. If a power strip or other device is used, and multiple electrical components are connected, the battery charger may detect a power supply error due to insufficient current, and it may not be possible to charge the battery.
- Make sure that the battery charger is off before connecting it.
- Make sure you respect the correct polarity when connecting the battery charger cables like displayed in the illustration below.
- DO NOT disconnect the battery charger during reprogramming work.



VII. CONNECT THE TECHSTREAM ADVI TO THE VEHICLE

NOTICE: In the case of reprogramming, it is an absolute necessity that the vehicle is connected to the Techstream ADVi via the Toyota Supra Diagnostic Cable which has a LAN ethernet connection.

In order to maintain successful communication between the Techstream ADVi and the vehicle, the Toyota Supra Diagnostic cable must be used. Other interfaces that connect to the Techstream ADVi via USB are not allowed. Attempting to use such other devices may cause permanent ECU damage due to the slower communication speed.



1. Connect the Cable (connection sequence):

<u>Always</u> connect the SUPRA diagnostic cable **first** to your **PC LAN port (1)** and only after that to the OBD port of the vehicle **(2)**.

If this order of operations is not respected, possible vehicle communication issues may occur when using Toyota ISTA software.



CONNECT THE TECHSTREAM ADVi TO VEHICLE (Continued...)

2. Position the cable.

Position the SUPRA diagnostic cable out of the vehicle as shown in the illustration. Otherwise the **SUPRA diagnostic cable may be pinched, communication disconnected, and ECU's permanently damaged.**

The Toyota Supra Diagnostic cable should always be passed through the position shown in the figure below. If it passes through any other position it is possible that the cable will be damaged.

Using the gap between the rear fender and the side garnish, pull the Supra Diagnostic cable to the outside of the vehicle. Please use protective tape for fixation and protection of the cable.





Do not attempt to pass the Supra Diagnostic cable thought the window opening. The window glass may move during reprogramming or initialization.

Ensure the cable is out of the path of the front Driver's seat. During initialization the driver's seat moves and could damage cable or disconnect the OBDII connector during movement.

Additionally, do not attempt to pass the Supra Diagnostic cable through any other position of the door opening as it may cause damage to the cable.

VIII. CHECK THE "I-LEVEL" ACTUAL OF THE VEHICLE

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- **3.** Double click the operations bar to maximize the screen and make the tool bar visible. Integrated Service Technical Application **Toyota Service** Double-click **Operations** bar Workshop system TOYOTA Cases Date ions for the wiring diagram in the diagno 11/8/2018 Notes on the ISTA Service Case report 7/26/2018 es on vehicle test - Reading the vehicle data 7/26/2018 3/23/2018 ISTA mileage notes S A 90 P 2 **Toyota Service** Toolbar Workshop system TOYOTA Date 11/8/2018 ns for the wiring diagram in the diagnosis Notes on the ISTA Service Case report 7/26/2018 Notes on vehicle test - Reading the vehicle data 7/26/2018 ISTA mileage notes 3/23/2018 019776401033e
 - 4. Activate to PAD Mode.

PAD mode can be activated by pressing the start button 3 times in under 0.8 seconds (very fast) or by directly connecting the Toyota ISTA software and initiating the vehicle connection.

In order to have communication between the tester and the on-board ECUs the vehicle must be put into an energy mode similar to IG-ON with engine OFF. For the Toyota Supra this mode is called PAD mode and it ensures that all ECUs receive energy in order to reply to requests of Toyota-ISTA.

CRITICAL NOTICE: While the vehicle is in PAD mode all energy monitoring logic will be disabled. The technician must utilize a battery charger to maintain sufficient current during all diagnosis and programming activities. If the battery charger is not connected battery life will be affected and ECU damage could occur

NOTICE: Ensure the pre-delivery service has already been completed on the vehicle. Part of pre-delivery service involves switching of "transportation mode", which is required before proceeding with this remedy procedure.

5. Do not open or close the driver's door during the programming routine.

Do not Open and Close

CHECK THE "I-LEVEL" ACTUAL O	F THE VEHICLE (Continued)
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6. (Comp	lete vel	nicle	identifica	ation.											
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8. The identification of all ECU's will start as shown below.

Cases	Vehicle information	Vehicle management	Service plan		
Vehicle details	Control unit tree	Control unit list	Service Case report		
SMFA FZD	CON ASD	Background process Complete vehicle	is being carried out test (determine scope)	R.E.	
АМРТ					

NOTICE: If the dialog box in the image below appears, click "OK" to close the dialog box, and then continue work. Toyota ISTA will attempt to establish a data exchange with the central server. In the absence of an available connection route (because of no Internet connection is available or the PC connection isn't setup). Please verify your connection and click "OK".

VIN W009049	Vehicle TOYOT	AJ29/Coupe/SPX 40i/	/B58/AUT/ECE/left-hand drive/2019/03			к	1 15: -	KL 30 -	
Cases	Vehicle information	Vehicle management	Service plan						
Vehicle details	Control unit tree	Control unit list	Service Case report						
5M/A 720	TCB BHCA CON ASC	I I I I I I I I I I I I I I I I I I I	Warning The BITs transmission service ha tances, neither an application up Service Case reports are possible istrator.	Is an error. In some circums- tate nor the transmission of the e. Contact ISPI Next admin-					
AMPT	Present		Control unit responsive	e D Control unit unresconsive	Control cust will	programming a	ibort 🗐 Co	ntrol unit not	Titled

9. The control unit screen will appear after the identification has ended.

NOTICE: When Fault memory "Present" or "Existing" is displayed at the bottom left of the screen, check for DTCs. Note that this campaign does not cover the diagnostic fees and/or repairs for any DTC's/



		24/09	/2019 13:03:28 👔 🖳	₽? 🔽
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W023317 Vehicle TOYOTA/J29/0	1 358/AUTO/US/LL/2019/03			KL 15: KL 30: -
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hicle details	2 ist Operations report			
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Z1DB4C08LW	-	J29		
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	B58	-	AUTO	
	Engine label	E-Engine label		
	Construction date:	-	L I evel actual:	
5/06/2019	2019 / 03	S18T-19-03-546	S18T-19-07-555	
ody	Steering	Model code	Last used program ersion:	
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104 19* light alloy wheels Double-spoke style 7	62 Bicolour with mixed tyres			
02BQ Brake callipers, painted		C10T 1	0 07 555	
274 M sport differential		3101-	19-07-000	
2VC Tyre repair kit				
2VF Adaptive M suspension				
0302 Alarm system				
J319 Integrated universal remote control				
03AG Rear view camera				
			Display measures	
			show ve	hicle test Information se

11.Confirm if the vehicle requires reprogramming based upon the "I-Level actual" of the vehicle. Use the superiority decoder below.

"I-Level" Actual of Vehicle	Required Action
Lower than \$18T-10-07-538	REPROGRAMMING REQUIRED. Continue with this
Lower than 5181-19-07-558	procedure.
	WORK IS COMPLETE. Reprogramming is not required.
Equal to or Greater than S18T-19-07-538	Refer to page 30 for instructions on closing out of ISTA and
	disconnecting the diagnostic cable.

I-Level Superiority Decoder



- 1: Series (vehicle model)
- 2: Year Released
- 3: Month Released
- 4: Serial Number

EXAMPLE:

Lower: S18T-19-03-585 Higher: S18T-19-07-555

S18T-19-07-555 is higher than S18T-19-03-585 because it was released in a later month.

IX. PERFORM THE REPROGRAMMING

3. Select service plan as shown below. ************************************		the repro	ogrammi	na if the veh	nicle's curre	ent I-Level is l	ower thar	S18T-19-0	07-538.
<image/>	2. Select se	ervice pla	an as sh	own below.					
		<u> </u>					manual . Instant	ment band broad	Pressed and and a
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Person intermediation of measures plan closess" and the screeen changes, click execute measures plan. 3. After the "calculation of measures plan closes" and the screeen changes, click execute measures plan. Image: the	Type Planned ac	tions		Software version Integr. iev	vel (actual): S18T-19-07-55	5 integr. level (target): S18T-19	-07-555	Origin Sta	ate 🔅
A fore the "calculation of measures plan closes" and the screen changes, click execute cases plan.		Please wait The calculation The full scope o	of the measures plar of the work required v	n is still in progress. Will become available only after	completion of the calculati	on.			
View View <th< th=""><th>3. After the measure</th><th>"calculat s plan.</th><th>tion of m</th><th>neasures pla</th><th>n closes" a</th><th>24/09/2019 18:44:48</th><th>n changes</th><th>s, click exec</th><th>cute</th></th<>	3. After the measure	"calculat s plan.	tion of m	neasures pla	n closes" a	24/09/2019 18:44:48	n changes	s, click exec	cute
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5. Check the warnings listed prior to proceeding.



6. WARNINGS:

NG Other and the second	 DO NOT put your head or hand in the window of the vehicle you are reprogramming. Since the window may close automatically at the time of initialization, there is the risk of being pinched and injured.
NG Do not Open and Close	 DO NOT open or close the driver's door and other door during the programming routine.
	 The Programming could take 30 minutes, ensure that the vehicle is not accidentally disturbed by other team members during the reprogramming.

7. The reprogramming progress status of each ECU is displayed in the 'Status' column. The overall progress status is indicated at the top of the screen.

NOTICE:

- Even when the "Status" column is filled with checkmarks (✓), always check the display at the top center of the screen (header line) for the progress status, because initialization and other work is being carried out in addition to reprogramming.
- Wait until the reprograming in finished before manipulating the ISTA software to avoid interfering with the reprogramming.

IN W009049 Executing software actions Remaining time; 8 minutes								KL 15: - KL 30: -			-
Cases	Vehicle information	Vehicle management	Service plan								
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NOTICE: After reprogramming has completed Toyota-ISTA may request additional functions to complete. These additional functions may include initialization of seats, windows, mirrors or headlights. Toyota-ISTA may provide instructions such as ensuring there are no obstructions of the object that requires initialization. Please follow all necessary on-screen prompts and ensure that the vehicle is parked in a safe manner to complete each initialization. If these directions are not followed properly, the vehicle could produce additional DTCs.

In the example shown below, the "ride height sensors: start-up" service function" needs to be performed.

If ride height is required, you will need to insert the ride height for both the front and rear wheels. This will require you to measure this height in millimeters. The repair manual procedure can be found in this location:

Vehicle Exterior > LIGHTING (EXT) > HEIGHT CONTROL SENSOR > INSTALLATION 5.ADJUST HEIGHT CONTROL SENSOR

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W022919	Vehicle TOYOTA	J29/Coupe/ - /B58/AU	TO/US/LL/2019/03				KL 15: –	KL 30:
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12. Confirm that the I-Level actual of the vehicle meets or exceeds S18T-19-07-538.

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"I-Level" Actual of Vehicle	Required Action
Lower than S18T-19-07-538	REPROGRAMMING REQUIRED. Refer to page to page 5 to check that your version of ISTA is the minimum required version.
Equal to or Greater than S18T-19-07-538	WORK IS COMPLETE. Placing the vehicle in "Sleep mode" is required. Proceed with the procedure to place the vehicle in "Sleep mode".

I-Level Superiority Decoder



- 1: Series (vehicle model)
- 2: Year Released
- **3:** Month Released
- 4: Serial Number

EXAMPLE:

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Lower: S18T-19-03-585 Higher: S18T-19-07-555

S18T-19-07-555 is higher than S18T-19-03-585 because it was released in a later month.

Χ.	CLOSE OUT OF TOYOTA ISTA
1.	Finish the reprogramming by clicking the close operation button.
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2	Click ok when the "Close operation" dialog box appears
2.	

CLOSE OUT OF TOYOTA ISTA (Continued...)

	Icon	Color and Status	Meaning
	1	Gray	Job Completed; Click \boxtimes at the Right on the Toolbar.
	[1	Rotating Animation	Work in Progress; Wait Until Color is Grey.
	1	Flashing Animation	There is a warning message; a response is required. Click the icon, and then follow the on-screen instructions to carry out the work.
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	Integrated Service Techn	nical	▲ ■ ₽ ?
	VIN	Vehicle Vehicle Ser	vice plan
	New	Closed Active	
	Vehicle identi- fication number	Read out vehicle data	
			Enter vehicle identification number.
			De .
	Keyboard		0197764

5. Disconnect the SUPRA diagnostic cable.

XI. Place the vehicle in sleep mode for 15 MINUTES.

It is necessary to place the vehicle in sleep mode for 15 minutes to allow the KOMBI and fuel tank ECU to establish the correct size of fuel tank.

1. Sleep mode can be activated by shutting all the doors, hood, trunk and parking the vehicle for 15 minutes with keys away from the vehicle.



Campaign Designation / Phase Decoder