#### **TECHNICAL INSTRUCTIONS**

#### FOR

#### 23TA14

# Loss of Motive Power

# CERTAIN 2023 MODEL YEAR GR SUPRA

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 have completed the following course:

• TIN519B - 2020 GR Supra New Model Technical Introduction

It is the dealership's responsibility to select technicians who have completed the above course 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.

# I. OPERATION FLOW CHART

The flow chart is for reference only. *DO NOT* use it in place of the full technical instructions. Follow ALL steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



# **II. IDENTIFICATION OF AFFECTED VEHICLES**

#### 1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- a. Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
- b. Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.
   HINT:

TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

#### **III. PREPARATION**

#### A. PARTS

Part Number	Part Name	Quantity	Remarks
35410-WAA02	TRANSMISSION VALVE BODY ASSEMBLY W/ TRANSMISSION ECU	1	<ul> <li>The part is integrated with the transmission ECU.</li> <li>This part number contains all replacement parts including non-reusable components. For the component parts (replacement parts), refer to the COMPONENTS page, and the replaced parts are indicated by a red dot (●) on the page.</li> <li>The valve body is referred to as the mechatronics in the repair procedures</li> </ul>

\* The German/English parts recovery instructions document is included in the package of the **NEW** valve body assembly, but the removed parts **DO NOT** need to be sent back in this campaign.

#### **B. TOOLS & EQUIPMENT**

- Standard Hand Tools
  - ISTA CableTorque Wrench
- DCA-8000P Battery Diagnostic Tool
  "TORX" Socket Wrench T-type T40 \*

Techstream ADVi
Socket Hexagon 10mm

\*"TORX ®" is a trademark of Acument ® Intellectual Properties, LLC / CAMCAR Innovations ®.

SST: These are essential special service tools that will be required for this repair.

Part Number	Part Name	Quantity	Remarks
09300-WA080	Driver	1	For removing/installing the valve body
09300-WA100	Сар	1	For protecting sealing sleeves
09700-WA050	Releasing Tool	1	For retaining a clearance between the journal and housing
09900-WA010	Torque Angle Measuring Dial	1	For controlling bolt tightening torque angles
09300-WA070	Handle Wrench	1	For loosening/tightening filler plugs

#### C. MATERIALS

- Protective Tape
- Fluid Gun
- Tray
- Automatic Gearbox Oil ATF 3+ (83222-28972-0) or Equivalent
- Marker Pen

# IV. WORK PROCEDURE TABLE OF CONTENTS

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REPLACE TRANSMISSION VALVE BODY ASSEMBLY	
W/ TRANSMISSION ECU	···· SECTION VIII
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ENSURE THAT VEHICLE HAS COMPLETED PRE-DELIVERY SERVICE ····	······ SECTION XI
PREPARATION OF PC	····· SECTION XII
PREPARATION OF VEHICLE	···· SECTION XIII
CONNECT A BATTERY CHARGER ······	···· SECTION XIV
CONNECT THE TOYOTA ISTA ······	····· SECTION XV
REPROGRAMMING	···· SECTION XVI
REFILL AUTOMATIC TRANSMISSION FLUID	···· SECTION XVII
DISCONNECT TOYOTA ISTA ······	·· SECTION XVIII
	···· SECTION XIX

# V. BACKGROUND



#### VI. OVERVIEW OF REPROGRAMMING USING ISTA

ECU software versions of this vehicle model need to be the same with each other, so all the ECUs have to be reprogrammed through use of the TOYOTA ISTA if any one of the ECUs is replaced. Reprogramming cannot be performed separately for only applicable ECUs because reprogramming will be performed for all the ECUs inclusively. In order to prevent ECUs from being damaged due to a communication error or voltage drop during reprogramming, be sure to follow the instructions of this document when reprogramming the ECUs.

# **VII. COMPONENTS**



# VIII. REPLACE TRANSMISSION VALVE BODY ASSEMBLY W/ TRANSMISSION ECU

# 1. CHECK FOR DTCS

#### HINT:

This campaign covers only the replacement of Transmission Valve Body Assembly w/ Transmission ECU and associated parts. It does not cover the diagnosis or replacement of any other parts on the vehicle.

#### 2. REPLACE TRANSMISSION VALVE BODY ASSEMBLY W/ TRANSMISSION ECU

a. Referring to the repair manual, replace the transmission valve body assembly w/ transmission ECU with the *NEW* one.

#### **NOTICE:**

- Keep in mind that the transmission valve body assembly w/ transmission ECU is referred to as the mechatronics in the repair procedures of the repair manual.
- Basically, the part replacement can be done by following the repair manual instructions, however, there are some changes and notices that are not included in the repair manual, so carefully read the following points and perform repair correctly.

#### 1) Removal:

Refer to TIS for instructions on Drivetrain / 8HP51 (AUTOMATIC TRANSMISSION/TRANSAXLE) / TRANSMISSION VALVE BODY / REMOVAL

- i) Use a 10-mm hex socket wrench when removing the drain plug.
- ii) Unlock the slider by pulling it toward the vehicle bottom when removing the mechatronics.

2) Installation:

<u>Refer to TIS for instructions on Drivetrain / 8HP51 (AUTOMATIC</u> TRANSMISSION/TRANSAXLE) / TRANSMISSION VALVE BODY / INSTALLATION





- i) Lock the slider by pushing it toward the vehicle top when installing the mechatronics.
- ii) Replace the valve body components that are shown in the illustration with the *NEW* ones.
- iii) Replace the hydraulic impulse storage with the *NEW* one.

iv) When installing the sealing sleeve to the transmission case, securely install it by pushing it until it reaches the beginning of the tapered portion.

If the sealing sleeve is not securely installed as shown in the **NG** illustration, improper connector connection may result, leading to an ECU communication error.



- v) The following operations are to be performed after ECU rewriting.
  - ADJUST AUTOMATIC TRANSMISSION FLUID LEVEL
  - INSTALL FRONT FLOOR COVER

#### HINT:

The fluid refilling operation is performed using ISTA, but the fluid adjustment function cannot be used without ECU rewriting, so the fluid replenishment operation is performed after the rewriting.

# IX. INSTALL THE LATEST VERSION OF TOYOTA ISTA

#### 1. INSTALL TOYOTA ISTA

a. It is <u>CRITICAL</u> to install the latest 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: 4.42

\*Versions of ISTA higher than 4.42 are also acceptable. As a best practice you should always installed the latest version of ISTA when performing this campaign.

# X. CHECK ISTA VERSION OF TECHSTREAM

#### 1. CHECK TOYOTA ISTA VERSION

a. Its <u>CRITICAL</u> to confirm that the ISTA version installed on your Techstream ADVi meets or exceeds version 4.42 before proceeding.



b. Double-click the icon to start TOYOTA ISTA.
NOTICE:
I After double-clicking, it takes about 15 seconds for TOYOTA ISTA to start. Please wait without double-clicking again.

c. The following screen appears. Click "Accept".

Integrated Service Technical Application		×
Toucto Comico		
Information about using Toyota ISTA		$\times$
Information about using Toyota ISTA		
The information contained in the Toyota ISTA application is to be used for the correct execution of diagno repair on standard, unmodified BMW Group products. To be able to carry out the aforementioned work, it question has completed his/her vocational training as a motor mechanic/litter and has undergone regular system-specific training.	ostic, maintenance work and is essential that the worker in further training as well as	
Use of Toyota ISTA is permitted exclusively in the context of job-related issues. The use of ISTA for prival Information obtained through Toyota ISTA may not be made available to unauthorized third parties.	te purposes is prohibited.	
Access will be logged.		
Important notes:		
1. Battery charger		
It is recommended to connect a compatible battery charger before starting diagnostic work or repair	r work.	
When programming the control units, it is necessary to use a compatible battery charger for the tota programming abort due to battery discharge.	I programming time to avoid a	
Contact the competent National Sales Company for detailed information about the technical data of	f the compatible battery charger.	
2. Access to the internet		
The Toyota ISTA application requires unimpaired access to the internet (set by firewall or proxy set information available in the manufacturer database. Should you have any questions, contact the To	tings) to call up and update byota dealer hotline.	•
	Reject Accept	
	R2	10610

- d. Click on the Configuration Button as indicated in the illustration.
- e. Click on the Version status tub as indicated in the illustration.
- f. Compare the installed verison to the minium reuqired version: 4.42. If the version is less than version 4.42, install the latest version.

Integrated Service Technic Application	cal		27/2021 10:38	12 AM		F	? ¥ ×	
VIN Ve Cases Ve	Administration					×		
New Cl	Client Dealer data	Version status Case Hindal settings Vehi	icle interface	_		_		
Read out	Package designation	Subsystem	Version	Date	Size		(1)	
vehicle data	ISTA	System	XXXXXXXXXXXXXXX					
- Connect vehicle interfa	ISTA	Data	R4.29.14	17.06.2021				
- Switch on ignition or a	ISTA	Service Data	0.00.00	17.06.2021				
	ISTA	Global Data	4.29.14	17.06.2021				
	ISTA	Language Data	4.29.14	17.06.2021				
	ISTA	ISTA Database	4.29.14	20.05.2021				
	ISTA	ISTA DB StreamDataPrimitive DEDE	4.29.14	20.05.2021				
	ISTA	ISTA DB StreamDataPrimitive ENGB	4.29.14	20.05.2021				
	ISTA	ISTA DB StreamDataPrimitive ENUS	4.29.14	20.05.2021				
	ISTA	ISTA DB StreamDataPrimitive ES	4.29.14	20.05.2021				
	ISTA	ISTA DB StreamDataPrimitive FR	4.29.14	20.05.2021				
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	Cancel				ок	ıt	Full identification	
	L						A110148J	01

# XI. ENSURE THAT VEHICLE HAS COMPLETED PRE-DELIVERY SERVICE

#### 1. ENSURE VEHICLE COMPLETED PRE-DELIVERY SERVICE

a. Make sure that Pre-delivery Service has been completed before this reprogramming. If Predelivery 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.

# **XII. PREPARATION OF PC**



- a. Boot-up the ADVi.
- b. Complete all pending Windows updates.
- c. Disable any automatic Windows updates and configure antivirus software so that it doesn't automatically run.
- d. Disable all automatic screen savers.
- e. Disable "sleep mode" within windows power settings.
- f. Close all other applications.
- g. Attach the Techstream ADVi directly to an AC Power Supply.
- h. **DO NOT** perform any other functions while TOYOTA ISTA is reprogramming.

# XIII. PREPARATION OF VEHICLE

# 1. PREPARATION OF 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.



a. Before starting to work, please make sure that vehicle is parked in a flat location that is not subject to direct sunlight.



Steering Wheel/Tires Straight Ahead

- b. Please remember that ambient temperature has to be superior to 15 °C.
- c. Allow the temperatures of the engine, transmission, and brake system to fall to the ambient temperature.
- d. Set the steering wheel and tires straight ahead position.



e. **DO NOT** place anything on the windshield so that the wiper can work normally, because the wiper may move automatically during reprogramming for initialization.



- f. Remove all the inserted and connected data carriers from the drives and disconnect the data connections (e.g. paired mobile phones), so they *DO NOT* interrupt programming by communication or connection.
- g. **DO NOT** place anything on, in front of, or behind the front seats because the front seats move automatically during reprogramming for initialization.

- h. **DO NOT** cover the headlights with protective covers, because temperatures may rise, and the headlights may be deformed or damaged.
- i. Set the shift lever to "P", and then engage the parking brake.
- j. Turn off the engine, and then set all of the switches of the electrical components to off.
- k. Close all doors and the back door, the hood must remain open as the battery charger will need to be connected to the charging terminals during the reprogramming process.

# XIV. CONNECT A BATTERY CHARGER

#### 1. CONNECT A BATTERY CHARGER

a. Connect the specified battery charger at the locations in the illustration.

#### **Required specification:**

#### Charging current: 80A (80 A continuous charging, AGM battery compatible.)

#### **NOTICE:**

- 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.
- Observe the instructions of the battery charger manual, and check the dealership electrical system to ensure the circuit of the outlet to be used can operate the battery charger.
- 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.



# **XV. CONNECT THE TOYOTA ISTA**



- 1. CAUTION ON THE CONNECTION ORDER OF THE ISTA DIAGNOSTIC CABLE
  - Always connect the ISTA 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.
- b. The ISTA diagnostic cable always passes through the position shown the illustration. If it passes through a place other than the instruction, there is a possibility that the sheet is automatically operated and the ISTA diagnostic cable is pinched and broken by the initializing operation during reprogramming.
- c. Using the gap between the rear fender and the side garnish, pull out the ISTA diagnostic cable to the outside of the vehicle. Please use protective tape for hold and protection of the ISTA diagnostic cable.

#### **NOTICE:**

If the ISTA diagnostic cable is not passed through the indicated location, the ISTA diagnostic cable may be pinched, communication may be disconnected, and the ECUs may be damaged after the seat moves automatically due to initialization during reprogramming.





#### **NOTICE:**

- **DO NOT** attempt to pass the ISTA 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 ISTA diagnostic cable through any other position of the door opening as it may cause damage to the cable.



- START THE TOYOTA ISTA

   a. Double-click the icon to start TOYOTA ISTA.
   NOTICE:
   After double-clicking, it takes about 15 seconds for TOYOTA ISTA to start.
   Please wait without double-clicking again.
- b. The following screen appears. Click "Accept".



- Integrated Service Technica Application Toyota Service SP Double-click **Operations Bar** Workshop system TOYOTA Cases ISTA version 4.16 - Contents and notes, diagno New functions for the wiring diagram in the diagnosis 11/8/2018 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 Am ? rh. Application **Toyota Service** Toolbar (#P Workshop system TOYOTA Cases Date ISTA version 4.16 - Contents and notes, diagnosis New functions for the wiring diagram in the diagnosis! 11/8/2018 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 A110148J01092aS
- c. Double-click the operations bar to maximize screen and make the toolbar visible.



# 3. ACTIVATE TO PAD MODE

a. 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.

#### 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.

#### HINT:

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.

#### NOTICE:

**DO NOT** open or close the driver's door during the programming routine. Perform only the vehicle operations indicated on the TOYOTA ISTA screen.



- b. From TOYOTA ISTA home screen, click "Cases" (or "Operations" in British English) -> "New"
   -> "Read out vehicle data".
- c. At the bottom right of the screen, click "Full identification".

1 Integra Appi VIN Case	rated Service Technical cation Vehice Vehice Vehice Vehice Vehice Vehice	Service plan	6/17/2021 10:57:11 AM		
New	d out				
- Co - Sw	nnect vehicle interface. Atch on ignition or activate PAD on the vehicle.			Identification without	
				vehicle test	
					R2106100025

d. At the "Connection manager" screen, select the vehicle identification number, and then click "Establish connection".



e. "Background process is being carried out" is started automatically.

1 Integrated Service Technical Application		6/17/2021 10:57:3	13 AM 🝙 💷 🗾 🎤 ? - 🗆 🗙
VIN W020547 Vehicle Cases Vehicle	Vehicle Service plan		KL 15: - KL 30: -
Vehicle details Vehicle equipment	Control unit tree Control unit list	Service Case report	
Vehicle ID no. WZ1DB4C002.W020547 Odometer reading: -	Model series - Engine -	Development code: - Electrical drive unit -	Sales designation 3
Drive type - Production date	Engine identification - Model Year: - I- Vehicle ident Vehicle ident	E-drive unit designation	HMI Version - Current Hevel: -
- First registration	- Engine number	-	Programming data – Type approval no.:
Basic version - <u>Technical Campaigns:</u> Status Special defect code Tif		- mit code	Hoad-Map/Abo -
Roadsid	<u>le assistance case:</u> Yes O No		
			Display action plan Start vehicle test Search information
			R2106'

# HINT:

If the following "Information" dialog box is displayed, click "**OK**" to continue.

IN W020547     Vehicle TOYOTA/J29/Coupe/-/B58,-/JU/LS/left-hand drive/2019/03     KL 15: -     KL 30: -       Cases     Vehicle management     Service plan        Vehicle datails     Vehicle equip- ment     Control unit list     Service Case report
Cases     Vehicle information     Vehicle management     Service plan       Vehicle details     Vehicle equip- ment     Control unit tree     Control unit tist
Vehicle dutails Vehicle equipment Control unit tree Control unit list Service Case report
Vericle ID no. Model services   V2DB4COXLW20507 -   Commer reading: Equine identification   166 56   Dive hype Engine identification   REAMWIFEL 508300M1   Variation adae Model Years:   Variation adae 2019 / 0.5   Variation adae 3084 / 0.5   Variation adae Model Years:   Variation adae Steering:   Variation adae Steering:   Picer tegistration adae Engine interview of the approved battery charger and use for the attrive vehicle may be damaged.   Picer tegistration adae Steering:   Variation adae Engine mainterview of the approved battery charger and use for the attrive vehicle may be damaged.   Picer tegistration adae Engine mainterview of the approved battery charger and use for the attrive vehicle may be damaged.   Variation adae Engine mainterview of the approved battery charger and use for the attrive vehicle may be damaged.   Variation adae Engine mainterview of the approved the approved the attrive vehicle may be damaged.   Variation adae Engine mainterview of the approved the attrive vehicle may be damaged.   Variation adae Engine mainterview of the approved the approved the attrive of the approved the attrive of the approved the attrive of the attrive of the approved the attrive of the

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Integrated Service Tech Application	nnical							🌣 🖂 🗙
VIN W020547	Vehicle TOYOTAJ29/Co	oupe/ - /B58,-/AUT/L	S/left-hand drive/2019	9/03			KL 15: -	KL 30: -
Cases	Vehicle Vehi information man	cle Se agement	rvice plan					
Vehicle details	Vehicle equip- ment Cont	rol unit tree Co	ntrol unit list rep	rvice Case ort	^	- 22		
Vehicle ID no.		Model series		Development code:		Sales designat	ion 🚯	
WZ1DB4C0XLW020547		-		J29		-		
Odometer reading:		Engine		Electrical drive unit		Transmission		
1000		Boo		·		AUT		
REAR WHEEL		Engine identificatio		E-drive unit designation		ID5 2003		
Production date		Model Year	Deplement strengt in	balan appled and	N 1	Current Llevel		
3/1/2019		2019/03	background process is	Denig canled out		S18T-20-11-53	0	
Body		Steering	Vehicle test (Read f	ault memory)		Last programm	ed with:	
Coupe		left-hand drive				Programming o	lata —	
First registration 🚯		Engine number				Type approval	no.:	
-		-		-		-		
Basic version		Upholstery code 👌		Paint code 🚯		Road-Map/Abo	6	
US		MARS		0A96		-		
Technical Campaigns:	b							
Status Speci	ai dereci code Tille							
	Roadside assistance	case.		Go .				
	O Yes	O No						
					Display	action plan	itart vehicle test	Search information
								R21061

f. After clicking "**OK**", "Background process is being carried out" continues.

g. After "Background process is being carried out" has ended, the "Control unit tree" screen appears.

#### HINT:

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.



#### HINT:

If the dialog box in the image appears when the screen changes to "Control unit tree" screen, 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**".



# XVI. REPROGRAMMING

#### 1. **REPROGRAMMING**

- a. Select "Service plan" > "Programming plan".
- b. The screen changes to the "Action plan" screen and "Please wait" message appears.

1 Integrated Service Technical Application		6/17/2021 10:49:39 AM			? <u>- • ×</u>
VIN W020547	Calculating measures plan			KL 15: -	KL 30: -
Cases Vehicle informat	ion Vehicle Service plan				
Hit list Test plan	n Programming plan				
Action plan Final rep	kort				
Type Planned actio	ins		5	Source	Status 🧕
	Please wait The calculation of the action plan is ongoing. The action items are only available when calculation is completed.				
Back Displa	y Service Perform service e report function	Discard action plan	c	alculate action plan	Perform action star

c. After the "please wait" message closes and the screen changes, click "Perform action plan". **NOTICE:** 

After clicking "Perform action plan", carry out the on-screen instructions of TOYOTA ISTA reliably.

1					6/17/20	21 10:50:43 AM	A		P	? -	D X
Integrated Serv Application	ice Technical								°P	\$	×
VIN W020547	Vehicle TOYOTA	J29/Coupe/ - /B58,-/Al	JT/US/left-hand drive	2019/03					KL 15: -	KL 30:	-
Cases	Vehicle information	Vehicle management	Service plan								
Hit list	Test plan	Programming plan									
Action plan	FinaDeport										
Туре	Planned actions							Source		Status 🤳	
IDS	Save individual data HU-F	l.						Logistics		0	
IDR	Restore individual data HI	J-H						Logistics			
PRG	Program BDC							Logistics		0	
PRG	Program DME							Logistics			
PRG	Program DSC							Logistics		0	
PRG	Program EGS							Logistics			
PRG	Program EPS							Logistics			
PRG	Program FRS							Logistics			
PRG	Program HRSNL							Logistics			-
Back	Display Service Case report	Perform service function		Dis	card action plan			Calcu	ilate action plan	Perform activ	on plan
										F	21061

d. "Executing measures plan" appears the top middle of the screen (header line). Check the content that is displayed in the "Information" dialog box, and then click "**OK**".

1				6/17/202	21 11:03:55 AM		* ? 🖬 🗙
Integrated Service	rice Technical						
VIN W020547			Executing measures plan			KL 1	5: - KL 30: -
Cases	Vehicle information	Vehicle management	Service plan				
Hit list	Test plan	Programming plan					
Action plan	Final report		Information		X		
Туре	Planned actions		Ignition turned on?			Source	Status 🤳
			Sc		8T-21-03-550		<b>^</b>
							=
IDS	Save individual data HU-H	1				Logistics	0
IDR	Restore individual data HU	-H				Logistics	
PRG	Program BDC					Logistics	0
PRG	Program DME					Logistics	
PRG	Program DSC					Logistics	0
PRG	Program EGS			ок	<b>b</b>	Logistics	
PRG	Program EPS					Logistics	0
PRG	Program FRS				$\sim$	Logistics	
PRG	Program HRSNL					Logistics	
Back	Display Service Case report	Perform service function		Discard action plan		Calculate a plan	Ction Perform action plan

e. "Warning!" and "Notice!" will be displayed in the "Attention!" dialog box. Check the content in the dialog box, and then click "Continue" to continue the "Action plan".

1	6/17/2021 11:04:07 AM		? 主 🛛
Integrated Service Technical Application			¢ 🖂 🗙
VIN W020547	Executing measures plan	KL 15: -	KL 30: -
Cases Vehicle Ve information ma	Attention!		
Hit list Test plan Pr	Warning!		
Action plan Final report	The determination of connected/existing data media was not clear.		
Type Planned actions	译 Notice!	Source	Status 🚺
	In general, all data media (CD, DVD, USB, iPod®, etc.) must be removed before vehicle programming! If ignored, this will lead to programming abortions and the data on the data media will be deleted.		
Software actions	Procedure as follows:		
IDS Save individual data HU-H	Manually check all the drives specified above.	Logistics	
IDR Restore individual data HU-H	<ul> <li>Any inserted or connected data media must be removed.</li> <li>Then, continue with the execution of action plan using the 'Next' button. With the button "Cancel", the execu-</li> </ul>	Logistics	
PRG Program BDC	tion of the action plan is canceled.	Logistics	
PRG Program DME		Logistics	
PRG Program DSC		Logistics	0
PRG Program EGS		Logistics	
PRG Program EPS		Logistics	
PRG Program FRS		Logistics	
PRG Program HRSNL	Cancel Continue	Logistics	
Back Display Service Case report	Perform service Trunction Discard action plan	Calculate action plan	Perform action plan

f. Please check carefully the content displayed in the "Preparation for the vehicle programming" dialog box, and then click "Continue".





#### NOTICE:

**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.

# Do NOT Open and Close

#### **NOTICE:**

**DO NOT** open or close the driver's door during the programming routine.

#### NOTICE:

Ensure that the vehicle is not accidentally disturbed by other team members during the reprogramming.

g. The top middle of the screen (header line) switches to "Saving individual data". "Save individual data HU-H" is executed first. If it completes normally, a checkmark (✓) is displayed in the "Status" column.

Integrated Serv Application	ice Technical				<b>\$</b> 🖂 ×
VIN W020547		Saving individual data	Remaining time: One minute	KL 15:	– KL 30: –
Cases	Vehicle Vehicle information manageme	nt Service plan			
Hit list	Test plan Programmi	ng plan			
Action plan	Final report				
Туре	Planned actions			Source	Status 🕕
		Software version I level (cu	rrent): S18T-20-11-530   level (target): S18T-21-03-	550	<b>_</b>
	Software actions				=
IDS	Save individual data HU-H			Logistics	~
IDR	Restore individual data HU-H			Logistics	
PRG	Program BDC			Logistics	
PRG	Program DME			Logistics	
PRG	Program DSC			Logistics	0
PRG	Program EGS			Logistics	
PRG	Program EPS			Logistics	0
PRG	Program FRS			Logistics	
PRG	Program HRSNL			Logistics	
Back	Display Service Perform	ervice	Discard action plan	Calculate actio	n Perform action plan



# HINT:

The icons in the diagram indicate the state values.

h. The top middle of the screen (header line) switches to "Executing Software actions". When "Warning" dialog box appears, click "**OK**".

1		6/17/2021 11:05:41 AM	A 🙂 🖪 🗡	? 🗴 🗙
Integrated Service Technical Application				
VIN W020547	Executing software actions	Remaining time: 48 minutes	KL 15: -	- KL 30: -
Cases Vehicle information	Vehicle Service plan			
Hit list Test plan	Programming plan			
Action plan Final report	Warning			
Type Planned actions	Be aware:		Source	Status 🧯
	Sc A case with programmi	BT-21-03-550		<b>^</b>
Software actions	Check I AN cable and y	initiane sumply and secure if necessary		
IDS Save individual data HU-	H	elloued a programming short will coult	Logistics	~
IDR Restore individual data H	U-H	bilowed, a programming abort will result.	Logistics	
PRG Program BDC			Logistics	
PRG Program DME			Logistics	
PRG Program DSC			Logistics	
PRG Program EGS	Details	ок	Logistics	
PRG Program EPS			Logistics	O
PRG Program FRS			Logistics	
PRG Program HRSNL			Logistics	
Back Display Service Case report	Perform service function	Discard action plan	Calculate action	Perform action plan R2106180

i. The reprogramming progress status of each ECU is displayed in the "Status" column. The overall progress status of reprogramming is indicated by "Executing software actions" at the top center of the screen (header line), which shows the reprogramming progress status and approximate "Remaining time".

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 reprogramming in finished before manipulating the ISTA software to avoid interfering with the reprogramming.

Integrated Serv	ice Technical			6/17/2021 11:28:21 AM				X
VIN W020547		Executing software a	ctions Remaining	time: 30 minutes		KL 15: -	KL 30: -	
Cases	Vehicle V information n	/ehicle Service plan						
Hit list	Test plan P	rogramming plan						
Action plan	Final report					_		
Туре	Planned actions				Sourc	e	Status 🚺	
PRG	Program EPS				Logisti	cs	~	
PRG	Program FRS				Logisti	cs	~	
PRG	Program HRSNL				Logisti	cs	~	
PRG	Program HRSNR				Logisti	cs	~	
PRG	Program HU-H				Logisti	cs	~	
PRG	Program IHKA				Logisti	cs	~	
PRG	Program KAFAS				Logisti	cs	~	
PRG	Program KOMBI				Logisti	cs	~	
PRG	Program VDP				Logisti	cs	~	
PRG	Program VIP				Logisti	cs	~	
PRG	Program ZGM				Logisti	cs	~	-
Back	Display Service Case report	Perform service	Discard activ	m plan	Cojisti	alculate action plan	Perform action p	

1	ce Technical		6/17/2021 11:38:52 AM		? 🖬 🗙				
Application	- Tourindai								
VIN W020547	Vehicle Vehicle	Executing follow-up operations		KL 15	6: – KL 30: –				
Cases	information management Ser	vice plan							
Hit list	Test plan Programming plan								
Action plan	Final report								
Туре	Planned actions			Source	Status 🚺				
					<b></b>				
ABL	CBS Service Inclusive selection	CBS Service Inclusive selection System							
ABL	CBS data recovery follow-up operation	CBS data recovery follow-up operation System							
ABL	CBS data recovery preparer			System	~				
ABL	Check EPS initialization			System	O				
ABL	Control units reset DSC			System					
ABL	Delete fault memory			System	Ō				
ABL	FAS control unit reset System								
ABL	Heating and air conditioning functions: Calibration run fo	System							
ABL	Lock airbag			System					
ABL	MOST: Storing the desired configuration			System					
Back	Display Service Perform service Case report function	Disc	card action plan	Calculate act	tion Perform action plan				

# j. "Executing follow-up operations" is displayed in the center of the screen (header line).

# HINT:

If the following "Information" dialog box is displayed during "Executing follow-up operation", click "**OK**" to continue the follow-up operation. After reprogramming is complete, follow the on-screen instructions and carry out initialization and other work.

Application			Error A								×
VIN W009049	Mahiele	Vahiela	Executing fo	blow-up operations		_		•	CL 15: -	KL 30:	-
Cases	information	management	Service plan								
Hit list	Test plan	Programming plan									
Action plan	Final report		Information		[B]						
Туре	Planned actions				land			Source		Status 🕕	
			There are sti	ill fault code entries.	It handling to work throw	b 8T-19-03	3-537				
			the faults pre	asent therein.	r namoning to work throug						
IDS	Save individual data HU-H							Logistics		~	1
IDR	Restore individual data HU	J-H						Logistics		$\checkmark$	
PRG	Program DSC							Logistics		~	
PRG	Program HRSNL							Logistics		~	
PRG	Program HRSNR					_		Logistics		~	
PRG	Program VIP				ок			Logistics		~	
COD	Code BDC							Logistics		~	
COD	Code DSC						5	Logistics		~	
COD	Code HRSNL						$\overline{}$	Logistics		~	-
Dack	Display Service							Calvuta			

# **HINT:** If the following dialog box appears, click "**OK**".

Африсации		102	ala lana
VIN W010013	Executing follow-up operations	KL 15: -	KL 30: -
Cases	Information		
Hit list	The driver's seat is standardized in the following step.		
Action plan	Information on seat standardization:		
	Only carry out seat standardization on a trouble-free system     Make sure that the vehicle voltage access 10.5 V	1	
Type	The seat must not be occupied as it will Move to both end positions		Status 🕛
ABL C	The adjustment travel path must be free of obstructions		
ABL F	As • Do not operate the switch for fore-and-aft seat adjustment during the standardization		~
ABL L	oc		1
ABL M	lo 🛦 Warning!		
ABL F	The crush guard is not active during seat standardization.	1	4
ABL S	ea		
ABL L	pc		۸
UPD U	pc		~
UPD V	drit		~
UPD V	4rit		~
UPD V	Writ	ок	✓ -

k. "Calculating final context" appears at the center of the screen (header line). At the same time, a "Please wait...." message appears to allow for the completion of the action plan.

1 Integrated Servi Application	ice Technical			_				6/17/202	21 11:43:18 A	M				?	×
VIN W020547				Ca	alculating	ng final context						K	L 15: -	KL 30:	-
Cases	informa	ition	vehicle management	Service plan	1										
Hit list	Test pla	an	Programming pla	n											
Action plan	Final re	eport													
Туре	Planned acti	ons									So	urce		Status 🧧	
ABL	CBS Service	Inclusive sele	ection								Sys	tem		~	•
ABL	CBS data rec	BS data recovery follow-up operation System									~				
ABL	CBS data rec									~					
ABL	Check EPS in	The calcu	ulation of the action p	lan is ongoing.										~	
ABL	Control units	The action	n items are only avai	lable when calcula	ation is o	completed.								~	
ABL	Delete fault n													~	
ABL	FAS control u													~	
ABL	Heating and a													~	
ABL	Lock airbag	L									<del>Gya</del>	tem	4	~	
ABL	MOST: Storin	g the desired	configuration								Sys	tem		1	
ABL	Plausibility ch	eck of the od	ometer								Sys	tem		~	•
Back	Displ	ay Service se report	Perform service function				Discard action	plan				Calculati	e action an	Perform act	ion plan

Integrated Serv Application	ice Technical Vehicle TOYOTA	J29/Coupe/ - /B58,-/AU	//US/left-hand drive/2019/03	6/17/2021 11:45:30 AM		KL 15: -	?
Cases Hit list	Vehicle information Test plan	Vehicle management Programming plan	Service plan				
Action plan	Final report		Status of action plan implementation				
Туре	Planned actions		The implementation of the action plan is complete The check for subsequent work is required.	в. – S18T-21-03-5 -	550	Source	Status 🚺
ABL	Update online services		Details	ок	k}	Diagnosis	۵
Back	Display Service Case report	Perform service function	Discard action	ptan		Calculate action plan	Perform action plan

I. After the "Status of action plan implementation" dialog box appears, click "OK".

m. On "Action plan" screen, check the I-Level. Make sure that the "(current)" and "(target)" I-Levels are equal.

#### HINT:

If the data level is different, select "Perform action plan" again to rewrite the data because there are still items that need to be rewritten.

	1					6/17/2021	11:45:45 AM		9	¥	? 😨 🗙	
	Integrated Service Application	Technical								P	Ø 🖂 🗙	
	VIN W020547	Vehicle TOYOTA	J29/Coupe/ - /B58,-/AL	T/US/left-hand drive	/2019/03				F	CL 15: -	KL 30: -	_
	Cases	Vehicle information	Vehicle management	Service plan								
	Hit list	Test plan	Programming plan									
	Action plan	Final report										_
	Type F	Planned actions							Source	í.	Status 🚺	
				Software version	i I level (current): XXX	-XX-XX-XXX I level (ta	rget): XXXX-XX-XX	XXX				
	Se	ervice functions				1						
C	ABL U	Jpdate online services			/				Diagnos	sis	•	
									Sour	ce		
	Software version I level (current): XXXXXXXXXX I level (target): XXXXXXXXXXX											
	I-Level of "(current)" and "(target)" are equal.											
	Back	Display Service Case report	Perform service function		Ð	scard action plan			Calculat	te action an	Perform action plan	48 10109129

# XVII. REFILL AUTOMATIC TRANSMISSION FLUID

# 1. REFILL AUTOMATIC TRANSMISSION FLUID

a. Refer to the repair manual for detailed procedures and perform the work. General>MAINTENANCE>8HP51 AUTOMATIC TRANSMISSION FLUID>ADJUSTMENT

#### HINT:

If the "Transmission Control Unit" item does not appear in the service function of the ISTA, connect the vehicle again.

# XVIII. DISCONNECT TOYOTA ISTA

#### 1. CLOSING OUT OF TOYOTA ISTA

- a. Select "Cases" -> "Active" to display the "Case list".
- b. Confirm the vehicle information is correct, and then click "Close case".



Integrated Service Application VIN W020547 Cases New	Technical           Vehicle         TOYOTA/J29/Coupe/ - /B58, -/AUT/US/left-hand drive/2019/03           Vehicle         Vehicle           Information         management         Service plan           Closed         Active         Service plan	6/17/2021 11:46:13 AM
Case list No. Color	Basic features       Open actions in the action plan         TOYOTAJ.29/Coupe/ - /B58,-/AUT/US/left-hand dra       There are still open actions present in These actions must be completed before         Do you want to close the case anyway       Do you want to close the case anyway         No       No	the action plan. re closing the case. Yes Ves Close case Open operation

c. When the "Open actions in action plan" dialog box appears, click "Yes".

d. Make sure that the frame of the icon at the left end of the toolbar at the top left of the screen has turned gray, and then click "×".





e. Click "OK" when the "Close program" dialog box appears.

f. Open the driver-side door, press the Start/Stop button once, and then close the door. **HINT:** 

PAD mode is turned off, and the headlights are turned off by opening the driver-side door, pressing the Start/Stop button once, and then closing the door.

g. Disconnect the ISTA diagnostic cable and battery charger.

# ◄ VERIFY REPAIR QUALITY ►

- Confirm AT Fluid level is correct
- Confirm no DTC's are present
- Ensure the transmission operability.
- Complete the proof of correction form (if applicable California dealers only)
- If you have any questions regarding this recall, please contact your regional representative.

#### XIX.

#### A. PARTS DISPOSAL

In accordance with Federal law, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, **unless** *requested for parts recovery return.* 

#### **B. CAMPAIGN DESIGNATION DECODER**



Launched in 2021