

AT22-014

NTB22-093

October 27, 2022

DTC P0780 STORED IN THE TCM

APPLIED VEHICLES: APPLIED ENGINES: 2021 Rogue (T33) PR25DD

IF YOU CONFIRM

DTC P0780 (SHIFT ERROR) is stored in the TCM. This DTC may be in PAST or CURRENT status.

ACTION

Follow the **SERVICE PROCEDURE** in this bulletin to:

- 1. Confirm the current TCM part number.
- 2. Reprogram the TCM, if applicable.
- 3. Confirm the current Shift Control Module (SCM) part number.
- 4. Reprogram the SCM, if applicable.

IMPORTANT: The purpose of **ACTION** (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire **SERVICE PROCEDURE** as it contains information that is essential to successfully completing this repair.

Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. **NOTE:** If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

Confirm the Current TCM Part Number

- 1. Using CONSULT-III, confirm the current TCM part number and write it on the repair order.
 - If it matches one of the part numbers in **Table 1**, continue to step 2 below.
 - If it does not match one of the part numbers in **Table 1**, skip to step 4 to confirm the SCM part number.

Table 1

MODEL	CURRENT TCM PART NUMBER: 31039 -
Rogue	6RA8B, 6RA8C, 6RA8D, 6RA8E 6RA9E

NOTICE

Perform the following before starting the reprogramming procedure to prevent damage to the control unit.

- Connect the AC Adapter to the CONSULT PC.
- Connect the CONSULT PC to the Internet via Wi-Fi or a network cable.
- Ensure ASIST on the CONSULT PC has been synchronized (updated) to the current date and all CONSULT software updates (if any) have been installed.
- Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within
 range of the CONSULT PC and the VI. If Bluetooth[®] signal waves are within range
 of the CONSULT PC or VI during reprogramming, the reprogramming may be
 interrupted.
- Turn the hazard warning lamps ON.
 - o Turn OFF all other vehicle electrical loads such as exterior lights, interior lights, HVAC, blower, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc. If electrical loads remain ON, the TCM may be damaged.
- Connect a battery maintainer or smart charger, set to reflash mode or a similar setting, to ensure the battery voltage stays between 12.0 V and 15.5 V.
- 2. Reprogram the TCM.

HINT: If you are not familiar with the reprogramming procedure, *click here*. This will link you to the "CONSULT REPROGRAMMING FOR ENGINE OR TRANSMISSION CONTROL MODULE (ECM OR TCM)" general procedure.

- 3. After completing **Erase All DTCs**, print a copy of the CONSULT screen showing the before and after part numbers of the control unit and attach it to the repair order.
- 4. Select **Home** to return to the main screen.

Confirm the Current Shift Control Module (SCM) Part Number

5. Select **Re/programming, Configuration**.

II IOC	Serial No.	Status	Diagnosis (One System)
VI	2300727	Normal Mode/Wireless	Diagnosis (All Systems)
MI	•	No connection	Re/programming, Configuration
8	Select VI/MI		Immobilizer
plicat	Sub mode	ABC Language Setting	Maintenance

Figure 1

6. Check the box to confirm the precaution instructions have been read, and then select **Next**.

HINT: Use the arrows (if needed) to view and read all precautions.

Configura	tion		Precaution	Vehicle	Selection	
recaution						
Operating sugg Please review t points. And tou	estions for rep he all of preca ch "Next".	programming, prograutions, and click the	amming and C/U confi e "Confirm" check bo	gration: x after confi	ming the its	
Precautions						/ ă \
	I B L					1
2. "Back" and " -For reprogram 1. Install the late data to this COI 2. Preparation a	ming and progra est version of t ISULT-III plus and read the se	may not be used on amming the CONSULT-III pl PC. ervice manual or rep	ı this flow. us sortware, reprogra programming procedu	imming/prog re sheet.	ramming	
2. "Back" and " -For reprogram 1. Install the late data to this COI 2. Preparation -For ECU Confi	Home" Dutton ming and progr est version of t NSULT-III plus and read the se guration	may not be used on amming the CONSULT-III pl PC. ervice manual or rep	i this flow. us sortware, reprogra programming procedu	imming/prog re sheet.	ramming	
2. "Back" and " -For reprogram 1. Install the lat data to this COI 2. Preparation a -For ECU Confit 1. Need to write 2. If writing the v	Home" button ming and progra est version of t ISULT-III plus and read the se guration the configurat vrong configurat	may not be used on amming the CONSULT-III pl PC. ervice manual or rep tion data to new EC ration data, ECU ca	ı this flow. us sortware, reprogra programming procedu U, after replace it. n not work. Please w	imming/prog re sheet. rite the right	ramming data.	
2. "Back" and " -For reprogram 1. Install the lat data to this COI 2. Preparation a -For ECU Confi 1. Need to write 2. If writing the w -For ECU Confi 1. Confirm the w writing the wron	Home " button ming and progra est version of t ISULT-III plus und read the se guration the configurat vrong configurat guration using ehicle's spec g configuratio	may not be used on amming the CONSULT-III pl PC. ervice manual or rep tion data to new EC ration data, ECU ca manual mode and its configuratio in data, ECU can no	us sortware, reprogra programming procedu U, after replace it. In not work. Please w on spec, following the pt work. Please write th	mming/prog re sheet. rite the right service man re right data	ramming data. ual. If	Net

Figure 2

7. Select Automatic Selection(VIN).

Configuratio	"	Precaution	Vehicle Selection	Vehicle Confirmatio	
Automatic S	election(VIN)	Manual Select	ion(Vehicle Name)		
Vehicle Name :	_	0~		Model Year :	Sales Cha
*MURANO Camp:P8201	JUKE	QUEST			NIS
-350Z	LEAF	ROGUE			INF
370Z	MAXIMA	SENTRA			
370Z Convertible	MURANO	TITAN			
ALTIMA	MURANO Cross Cabriolet	TITAN			
ALTIMA Hybrid	NISSAN GT-R	VERSA Hatchback			
ARMADA	NV	VERSA Sedan			
CUBE	PATHFINDER	XTERRA			CL
FRONTIER	PATHFINDER	X-TRAIL			

Figure 3

8. Confirm the **VIN or Chassis #** is correct, and then select **Confirm**.

Please confirm selected information and t ouch "Change".	ouch "Confirm". In case you want to select another vehicle,	
/IN or Chassis #	****	
/ehicle Name :	ROGUE	
Model Year	2021MY	
	1/1	
		Change

Figure 4

9. Confirm the VIN is correct for the vehicle, and then select **Confirm**.

Back Back Pr	vint Screen Capture Mode Recorded Mode VI MI	•
Re/programming, Configuration	Vehicle Confirmation Input VIN System Selection	4/6
Input VIN		
Enter the VIN number, an According to this operati CONSULT, VIN number y	Ind touch "Confirm". ion, in case of specified operation that requires to save ECU information into you input is saved as file name. Therefore, confirm VIN number correctly.	
VIN (17 or 18 digits)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
		Confirm

Figure 5

10. Select SHIFT.

Configuration	nput VIN System Selection	Operation Selection
tem Selection		
ouch "system". case ECU you want to operate is not liste	d below the vehicle or model year might	be selected wrong.
case 200 you want to operate is not isa	a below, are remole of model year might	be selected mong.
LASER/RADAR	LANE CAMERA	Side radar (Rear left)
		· · ·
AUTO DRIVE POS.	CAN GATEWAY	Side radar (Rear right)
ALL MODE AWD/4WD	SHIFT	TELEMATICS
the second se		HVAC
всм	AIR BAG	
BCM	AUTO BACK DOOR	AVM

Figure 6

11. Select Reprogramming.

Operation Selection		
Touch "Operation". In case over write current ECU, touch In case replacement of ECU, select an	"Reprogramming". operation in REPLACE ECU category.	
REPROGRAMMING		Autor "Danas harmatica."
Reprogramming	In case you want to reprogramming ECO	, touch Reprogramming .
Reprogramming	in case you want to reprogramming ECO	, touch reprogramming .
Reprogramming Replacement OF ECU Programming (Blank ECU)		, touch reprogramming .
Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU		Touch "Before ECU Replacement", Operation log with part number is sav
Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sav to CON SULT.
Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement VEHICLE CONFIGURATION	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sav to CON SULT.

Figure 7

12. Find the SCM Part Number and write it on the repair order, and then select Save.HINT: This is the current Part Number (P/N).

Back Home Print Screen	creen Mode Recorded Data	Image: Weight Heip Image:	
Configuration	Operation Selection	ECU Data	3/3
Save ECU Data			
Touch "Save" to save operation log a Operation log helps to restart next operation has completely finished	nd the current part number as eration by selecting suitable op	listed below to CONSULT. eration log. Operation log is erased	
File Label	xx	****	
Operation	RI	EPROGRAMMING	
System		SHIFT	
Part Number	x	xxxxxxxx	1
Vehicle		T33ROGUE	
VIN	xxxx	****	
Date	хххх	****	Save

Figure 8

- 13. Compare the Part Number you wrote down in step 12 on page 6 to the numbers in the **CURRENT SCM PART NUMBER** column in **Table 2** below.
 - If it matches one of the part numbers in **Table 2**, continue to step 14 below.
 - If it does not match one of the part numbers in **Table 2**, SCM reprogramming is not required, skip to step 31 on page 16.

Table 2

MODEL	CURRENT SCM PART NUMBER: 31038-
Poque	6RA0B, 6RA0C
Rogue	6RF0A

Reprogram the SCM

14. Check the box to confirm the precaution instructions have been read, and then select **Next**.

HINT: Use the arrows (if needed) to view and read all precautions.



Figure 9

15. Confirm the battery charger is ON and the battery voltage is between 12.0V-15.5V, and then select **Next**.

Image: Back Image: Back	
Re/programming, Configuration Select Program Data Confirm Vehicle Condition	10/10
Confirm Vehicle Condition	
Operate according to the following procedures.	
1 Remove the terminal caps of battery, and connect battery charger to battery.	
remore the terminal support sectory, and connect sectory of angle to sectory.	
2 Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and	
13.5V. The vehicle battery voltage is snown on the top-right of this screen	
3 Confirm the RESULT is OK, touch "Next".	
	12
Result	Next
Figure 10	

Ū

16. Confirm the **Judgement** for all the **Monitor Items** are "OK", and then select **Start**.

m the vehicle condition as confirm that judgment for a	listed below, set all items indicate (the vehicle cor K, and touch "	dition correctly. Start". In case the veh	icle condition is	
range, reprogramming or p	rogramming may	stop.			
Monitor tem	Value	Unit	Judgmeni	Condition	
BATTERY VOLTAGE	14.4	v	ок		
Ignition switch	On		ок		
Vehicle state	State 3		ок		
Main power voltage	13	v	ок		
				-	

Figure 11

17. Select **USA/CANADA Dealers** from the drop down menu, and then select **OK**.



Figure 12

18. Login using your NNAnet credentials, and then select **Submit**.

	Please enter your UserID below.	
-	Username: Password: Submit	
Restart Login		S Powered by SECUPEAUTH

Figure 13

19. Allow Transfer Data to complete.



Figure 14

20. Once the reprogramming completes, select Next.

HINT:

- If the screen in Figure 15 does not display (indicating that reprogramming did not complete), refer to the information on the next page.
- Additional steps/operations are required before CONSULT will provide the final reprogramming confirmation report. Continue with the reprogramming procedure on page 12.



Figure 15

SCM Recovery:

If reprogramming does <u>not</u> complete and the "!?" symbol displays as shown in Figure 16:

- Check battery voltage (12.0 15.5V).
- Ignition is ON, Engine is OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select **Retry** and follow the on screen instructions.

HINT: **Retry** may not go through on first attempt and can be selected more than once.

So Angeneration S	randher Data	3 1414
Confirm Result		1 40
Reprogramming or programming is not co operation on this ECU. Touch "Rety" to retry reprogramming or p	mpleted property, but you can rely reprogramming regressing	R
Part number after Reprog/programming	хххххх	
Current Part Number	XXXXXX	
Vehicle	BISSENTRA	
VIN	*****	
System	BCM	Error details
Dete	xxxxxxxx	Retry
Other information	BIEBCM	
		Print

Figure 16

If reprogramming does <u>not</u> complete and the "X" symbol displays as shown in Figure 17:

- Do not disconnect the VI or shut down C-III plus if reprogramming does not complete.
- Check battery voltage (12.0 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, Engine is OFF.
- Transmission in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select **Home**, and then restart the reprogram procedure from the beginning.



Figure 17

21. Perform Erase All DTCs.

a. Follow the on-screen instructions as shown in Figure 18 and Figure 19.



Figure 18

b. Select Next.



Figure 19

22. Allow Erase All DTCs to complete.

Back Home Prin	t Screen Capture	Measurement Mode	Erase All DTCs	ERT 12.6V	VI MI	
Frase All DTCs		E.				14/15
Liuse Al Dies	Please Wait					
According to the instruction						
1 Turn ignition switch to					A STATE	
Current status of i switch						
If the current status c the actual vehicle igni	tion switch, touch	"NEXT" to go to t	he next screen.			
						Next

Figure 20

23. Verify the **Part number after Reprog/programming** and **Part number before Reprog/programming** are different, select **Print** and attach the reprogramming results to the repair order, and then select **Confirm**.

Back Home Print Screen Capture	Measurement Recorded Ha	elp AL ERT 14.5V VI	× = _ X
Configuration	ase All DTCs Operation C	sult / complete	11/11
Print Result / Operation Complete			
All tasks are completed. Confirm LAN acc In case CONSULT can NOT immediately a temporally storage of this page. Touch "S Data Folder" on desk top, and open the fol	ess, touch "Print" to print out ccess to LAN or printer, Screen creen Capture", and save it. Scr der named "ScreenImages".	this page. Capture function is available een capture data is in "Cili pl	for us
Part number after Reprog/programming	310	³⁸ XXXX	
Part number before Reprog/programming	31038 <mark>XXXX</mark> X		
Vehicle	T33 ROGUE		
VIN			Print
System		SHIFT	
Date	ххххх	ххххххх	Other Operation
		1/1	Confirm

Figure 21

24. Select Home.

Back Home Prin	Screen Capture Measurement Mode Recorded Data	ERT 14.5V VI MI
Re/programming, Configuration	Erase All DTCs Print Res	ult / mplete 15/15
rint Result / Operation Con	plete	
All tasks are completed. (In case CONSULT can NC temporally storage of this Data Folder" on desk top,	"Complete Operation" Screen is no lo backing Home once. In case "Complet necessary document, touch "Cancel" Erasing process is not performed to " system. Erase it in Self-Diag Results s	nger shown after te Operation" Screen is " to back previous screen. No support for All DTC" screen of each system.
Part number after Reprog/programming		
Part number before Reprog/programming		
Vehicle		
VIN	Home	Cancel
System		
Date	1/13/202	1 1:19:55 PM
		1/1 Confirm

Figure 22

25. Select Diagnosis (All Systems).

VI 2300727 Normal Mode/Wireless connection VI - No connection No connection No connection	
MI - No connection	
	ration
Select VI/MI	
plication Setting Sub mode Maintenance Maintenance	

Figure 23

26. Select **TRANSMISSION**.

HINT: If a DTC is present, turn the ignition OFF for 10 seconds. After the 10 second wait, turn the ignition ON, and then erase the DTCs.

All DTC	CAN Dia	G CAN DIAG SUPPORT MNTR	
Result		Detailed Information	
TRANSMISSION	. *	U0101-00 Lost communication (TCM) 1t - DTC	
ENGINE	NO DTC	Expla	
ABS	NO DTC		
METER/M&A	NO DTC		
ВСМ	NO DTC		P
AIR BAG	NO DTC		for CL
			-

Figure 24

- 27. Select Work support, ERASE LEARNING VALUE, and then select Start.
 - Follow the on-screen instructions to erase the learning values, and then select **End** to return to the **Work support** menu.

Self Diagnostic CGW Information Dat	Work support	-
est Item		
ERASE LEARNING VALUE	WRITE IP CHARA - REPLACEMENT AT/CVT	
FORWARD CLUTCH POINT LEARNING	READ IP CHARA - REPLACEMENT TCM	
TORQUE CONVETER CLUTCH POINT LEARNING	WRITE IP CHARA - REPLACEMENT TCM	
G SENSOR CALIBRATION	CANCEL AUTOMATIC PARK FUNCTION	
MAC key writing		
ShBw_N range calibration		
ENGINE BRAKE ADJ.		
CONFORM CVTF DETERIORTN		

Figure 25

28. Select **FORWARD CLUTCH POINT LEARNING**, and then select **Start** (Figure 25 on page 15).

IMPORTANT: The following conditions <u>must</u> be met before proceeding with **FORWARD CLUTCH POINT LEARNING**:

- o Accelerator Pedal: Not Depressed
- o Brake Pedal: Depressed
- o Selector Level: N Position
- o Vehicle Speed: 0 mph
- o A/C Switch: OFF
- o CVT Fluid Temperature: 60-100°C (**140-212°F**)
- o Engine Coolant Temperature: 70-110°C (158-230°F)
- o No DTCs Detected

29. Perform FORWARD CLUTCH POINT LEARNING following the steps below:

- a. After meeting the conditions shown in step 28, select Start.
- b. Place the gear selector into Drive and allow the learning to complete.
- c. After learning has completed, select **End** to return to the **Work support** menu.
- d. Select FORWARD CLUTCH POINT LEARNING, and then select Start.
- e. Place the gear selector into Neutral, and then select Start.
- f. Place the gear selector into Reverse and allow the learning to complete.
- g. Place the gear selector into Park.
- h. Select End to return to the Work support menu.

30. Perform **SELECT LEARNING**.

- Refer to the ESM: TRANSMISSION & DRIVELINE > TRANSAXLE & TRANSMISSION > CVT: GE0F10C > BASIC INSPECTION > SELECT LEARNING > Work Procedure
- 31. Remove the battery maintainer/smart charger.
- 32. Close the C-III plus application.
- 33. Remove the VI from the vehicle.

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram TCM and Shift Control Module	(1)	JX1GAA	ZE	32	0.8

(1) Reference the electronic parts catalog and use the Transmission Control Unit (310F6-****) as the Primary Failed Part (**PFP**).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
October 27, 2022	NTB22-093	Original bulletin published