



# TECHNICAL SERVICE BULLETIN

Classification: AT22-001	Reference: NTB22-074	Date: August 22, 2022
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## TRANSMISSION SHIFT QUALITY IMPROVEMENTS

**APPLIED VEHICLES:** 2021 Titan/Titan XD (A61)  
**APPLIED TRANSMISSIONS:** 9 Speed A/T (GE9R01A)

### IF YOU CONFIRM

The customer has dissatisfaction with shifting during deceleration, when coming to a stop, during re-acceleration, or during acceleration from a complete stop,

### AND

No TCM related DTCs are stored.

### ACTION

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

1. Confirm the current ECM part number.
2. If applicable, reprogram the ECM.
3. Confirm the current TCM part number.
4. If applicable, reprogram the TCM.

**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.

Nissan 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

**IMPORTANT:** Before starting, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All C-III plus software updates (if any) have been installed.
- During the reprogramming process, you will receive some errors. These errors are expected. Please follow all of the steps in this procedure to successfully complete the reprogramming process.

### **NOTICE**

- Connect a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle battery voltage drops below 12.0V or rises above 15.5V during reprogramming, **the ECM or TCM may be damaged.**
- Be sure to turn OFF all vehicle electrical loads.  
If a vehicle electrical load remains ON, **the ECM or TCM may be damaged.**
- Be sure to connect the AC Adapter.  
If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and **the ECM or TCM may be damaged.**
- 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, reprogramming may be interrupted and **the ECM or TCM may be damaged.**
- Turn ON the hazard warning lamps.

**HINT:**

- Take the vehicle for a 10 minute drive in order to meet the following Idle Air Volume Learning conditions:
  - Engine coolant temperature: 70 - 100°C (**158 - 212°F**)
  - Battery voltage: More than 12.9 V (At idle)
  - Transmission: Warmed up
- When reprogramming is complete, you may be required to perform:
  - Throttle Valve Closed Position Learning
  - Idle Air Volume Learning
  - Accelerator Closed Position
  - Calibration of Park Position Sensor
  - Calibration of Decel G Sensor
  - DTC Erase

## Confirm the current ECM part number and, if applicable, reprogram the ECM

- Using C-III plus, confirm the current ECM part number and write it on the repair order.
  - If it matches one of the part numbers in **Table A**, continue to step 2 to reprogram the ECM.
  - If there is not a match, skip to step 4 on page 4 to confirm the current TCM part number.

**Table A**

MODEL	CURRENT ECM PART NUMBER: 23710-
2021 Titan/Titan XD	9FW1B, 9FW2B, 9FW3B, 9FW4B, 9FW5B, 9FW6B
	9FW1C, 9FW2C, 9FW3C, 9FW4C, 9FW5C, 9FW6C
	9FW1D, 9FW2D, 9FW3D, 9FW4D, 9FW5D, 9FW6D
	9FW1E, 9FW2E, 9FW3E, 9FW4E, 9FW5E, 9FW6E

- Reprogram the ECM.

**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.

- 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.

**Confirm the current TCM part number and, if applicable, reprogram the TCM**

4. Using C-III plus, confirm the current TCM part number and write it on the repair order.
  - If it matches one of the part numbers in **Table B**, continue to step 5 to reprogram the TCM.
  - If there is not a match, TCM reprogramming is not required. If neither ECM nor TCM reprogramming were available, refer to the ESM for further diagnostic information.

**Table B**

MODEL	CURRENT TCM PART NUMBER: 31039-
2021 Titan/Titan XD	9FV5A
	9FV4B, 9FV5B, 9FV8B
	9FV4C
	9FV1D, 9FV3D, 9FV7D, 9FV8C
	9FV1E, 9FV3E, 9FV7E
	9FW3A, 9FW4A, 9FW5A
	9FW3B, 9FW4B, 9FW5B, 9FW6B, 9FW7B, 9FW8B
	9FW6C, 9FW7C, 9FW8C

5. 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.
6. 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.

## CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Engine Control Module (ECM)	(1)	DE97AA	ZE	32	(2)
Reprogram A/T Control Unit (TCM)		JX97AA			0.6

- (1) Reference the electronic parts catalog and use the Automatic Transmission Assembly (31020-\*\*\*\*\*) as the Primary Failed Part (PFP).
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated Flat Rate Time (FRT).

## AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
August 22, 2022	NTB22-074	Original bulletin published