

SERVICE BULLETIN

EC19-005a

NISSA

NTB19-011a

February 5, 2020

Date:

2016 – 2019 TITAN XD; MIL ON WITH DTC P2048 STORED

This bulletin has been amended. See AMENDMENT HISTORY on the last page. Please discard previous versions of this bulletin.

APPLIED VEHICLES: APPLIED ENGINE: 2016 – 2019 Titan XD (A61) Cummins 5.0L Diesel

IF YOU CONFIRM

The MIL is ON and DTC P2048 (REDUCTANT INJECTION VALVE CIRCUIT LOW 1/1) is stored.

ACTION

Reprogram the ECM per the **SERVICE PROCEDURE** in this bulletin.

- Refer to **SERVICE PROCEDURE** on the next page to confirm if reprogramming is needed.
- Save Computer Data with CONSULT-III plus (C-III plus).
- If this bulletin applies, continue with the ECM Reprogramming procedure.
- Write Saved Data with CONSULT-III plus.

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

- 1. 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, below, proceed to step 2 on the next page.
 - If there is no match, this bulletin does not apply. Close C-III plus and refer to ASIST for further diagnostic information.

Table A

MODEL	CURRENT ECM PART NUMBER: 23710-
	EZ41C, EZ41D, EZ41E
2016 Titan XD	EZ42A, EZ42B, EZ42C, EZ42D, EZ42E
	EZ43A, EZ43B
	EZ45D, EZ45E
2017 Titon VD	EZ44D, EZ44E
2017 Hitan XD	EZ45A, EZ45B, EZ45C, EZ45D, EZ45E
2019 Titon VD	9FT9A
2018 Hian XD	EZ47C, EZ47D, EZ47E
2019 Titan XD	9FU5C

SAVE COMPUTER DATA

- 2. Connect the CONSULT PC to the vehicle.
- 3. Open / start C-III plus.
- 4. Turn the ignition ON, with engine OFF (engine not running).
- 5. Wait for the plus VI to be recognized.
 - The Serial No. will display when the plus VI is recognized.
- 6. Select Diagnosis (One System).

Back	Home Print S	Screen Screen Mode	Coorded Help Til X III X
Connee	ction Status -		Diagnosis Menu
	Serial No.	Status	Diagnosis (One System)
VI	2300727	►>>)))) Normal Mode/Wireless connection	Diagnosis (All Systems)
мі	-	No connection	Re/programming, Configuration
8.0	Select VI/MI		
	tion Setting	Language Setting	Maintenance
	VDR		

Figure 1

- 7. Navigate C-III plus to ENGINE > Work support (see Figure 2).
- 8. Select SAVE COMPUTER DATA.
- 9. Select Start.

Back Ver.CSP31.10	rement de Recorded Data
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	Cork support
Test Item	
Reset fuel consumption short term log	Engine serial number
AFT maintenance	
Reset fuel and timing learn tables	
VIN REGISTRATION	
ENTER INJECTOR CODES	
SAVE COMPUTER DATA	
WRITE SAVED DATA	
RTCV actuator calibrate	
·	1/1
	E: 0

Figure 2

NOTE:

• After selecting Start, a screen message may appear that says:

Latest diagnostic tool update must be used before saving the data, otherwise there is a risk that the data entry will not work.

> If the above message appears, select Continue.

- 10. Make sure the ignition is ON and the engine is OFF (engine not running).
- 11. Select Confirm.

Ver.CSP31.10				States
Back Rome Print Screen	reen ture Mode Recorded	Help ERT 12.3V		
Diagnosis (One System) System Sel	ection ENGINE			
Work support : SAVE COMPUTER DATA				
Ignition on, engine stopped. This command must be used only whe It is used to save some data (including computer.Confirm to run the backup pro	en replacing or reprogrammi the injector calibrations) so a ocedure.	ng the computer. as to load it automatically i	nto the new	Confirm
				End

Figure 3

12. Select End.



Figure 4

REPROGRAM THE ECM

IMPORTANT: Before starting the reprogramming procedure, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All CONSULT-III plus (C-III plus) software updates (if any) have been installed.
- The CONSULT PC is connected to the Internet (Wi-Fi or cable).

NOTE:

• If you are not familiar with the reprogramming procedure, *click here*. This will link you to the "CONSULT- III plus (C-III plus) ECM Reprogramming" general procedure.

CAUTION:

- Connect a battery maintainer or smart charger to the 12V battery. If the vehicle battery voltage drops below <u>12.0V or above 15.5V</u> during reprogramming, <u>the ECM may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, <u>the ECM may be damaged</u>.
- Be sure to connect the AC Adapter.
 If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and <u>the ECM may be damaged</u>.
- 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 during reprogramming, reprogramming may be interrupted and <u>the ECM may be damaged</u>.

13. Reprogram the ECM.

14. After completing Erase ALL DTCs, print a copy of the C-III plus screen showing the before and after part numbers of the control unit and attach it to the repair order.

ECM Recovery

Do not disconnect the plus VI or shut down C-III plus if reprogramming does not complete.

If reprogramming does <u>not</u> complete and the "!?" icon displays as shown in Figure 5:

- Check battery voltage (12.0 15.5 V).
- Ignition is ON, engine OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>retry</u> and follow the on screen instructions.
- <u>"Retry" may not go through on</u> <u>first attempt and can be</u> <u>selected more than once</u>.

	VN	Vaticle		Country : Japan	
Back Hone Print Screen	Schemen Mode	Negorithed Data	12.TV VI MI		
resprograming, 💽	Transfer Data	Confirm Resul		1313	
onfirm Result					
Reprogramming or progamming is no operation on this ECU. Touch "Reby" to retry reprogramming	ot completed propertly, g or programming.	but you can retry reprogr	programming		
Part number after Reproc/programming		26482-XXXXX			
Part number before Reprog/programming		284B2-XXXX	х		
Part number sofare Reprog/programming Vehicle		25482-XXXX XXXXXXX	x		
Part number beføre Reprog/programming Vehicle VIN		254B2-XXXX XXXXXXXX XXXXXXXXXX	x		
Part number before Reprog/programming Vehicle VIN System		28482-XXXX XXXXXXXX XXXXXXXXXX BCM	x xxx		
Part number before Reprog/programming Vehicle VIN System Date		28482-3000 XXXXXXX XXXXXXXX BCM XXXXXXXXXX	× *** ***	Retry	
Part number settire Reprogragismming Vehicle VIN System Dete Error Code		28482-3000 XXXXXXX XXXXXXXX BCM XXXXXXXXXXX	x xxx xx	Retry	

Figure 5

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 6:

- Check battery voltage (12.0 15.5 V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine OFF.
- Transmission is in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and restart the reprogram procedure from the beginning.

	VIN Vehicle : QASHQAI	County : Japan
Bark Hone Print Screer	Liter Measrenert Recorded Help	🚔 🧶 💥 🐂 🥅 🏹
Reforgramiag, configiation	Transfer Data	999
anfirm Result		
Reprogramming is not completed prop Print this screen as needed. Confirm (with procedure. -Restart CONSULT with disconrecting	arly. CONSULT version, IGN/Power switch position, shift pr VI onse, and start the reprogramming again.	osition and etc
Part number after	06400 VVVVV	
Reprog/programming	28462-33333	
Reprog/programming Current part number	28482-XXXX	
Reprogramming Current part number Vehicle	28482-XXXXX 28482-XXXXX XXXXXXXX	
Reprog/programming Current part number Vahicle VIN	28482-XXXX 28482-XXXX XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX	
Reprograpping mining Current part number Valifiele ViliN System	28482-XXXX 28482-XXXXX XXXXXXXX XXXXXXXXX BCM	
Reprog/programming Current part number Vehicle VIN System Date	28482-XXXX 28482-XXXXX XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Reprog/programming Current part number Vehicle VIN System Date Information	28482-XXXX 28482-XXXXX XXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	

Figure 6

WRITE SAVED DATA

- 15. Return to the C-III plus Home screen (see Figure 7).
- 16. Confirm the ignition is ON, with engine OFF.
- 17. Confirm the plus VI is recognized.
 - The Serial No. will display when the plus VI is recognized.
- 18. Select Diagnosis (One System).

	Serial No.	Status	
VI	2300727	کی ک	Diagnosis (All Systems)
МІ	-	No connection	Re/programming, Configuration
	Select VI/MI		Immobilizer
Applicat	ion Setting	Language Setting	Maintenance

Figure 7

- 19. Navigate C-III plus to **ENGINE > Work support** (see Figure 8).
- 20. Select WRITE SAVED DATA.
- 21. Select Start.

ver.CSP31.10	States
Back Print Screen Capture Measurement Mode	Recorded Later Lat
Diagnosis (One System) System Selection ENGI	NE
Self Diagnostic Data Monitor	ort CU Gentification
Test Item	
Reset fuel consumption short term log	Engine serial number
AFT maintenance	
Reset fuel and timing learn tables	
VIN REGISTRATION	
ENTER INJECTOR CODES	
SAVE COMPUTER DATA	
WRITE SAVED DATA	
RTCV actuator calibrate	
	1/1 Start
F	igure 8

- 22. Make sure the ignition is ON and the engine is OFF (engine not running).
- 23. Select **Confirm**.

	er.c.sP31.10	and the second						states
Back Home	Print Screen	creen pture	nt Recorded Data	Help 4	RT 12.3V	Yil VI	× I	•
Diagnosis (One System)	System Se	election	ENGINE					
Work support : WRITE	SAVED DATA							
Ignition on, engine si This command must It serves to rewrite pr IMPORTANT: The tim order to write the save	topped. only be used wh eviously saved of e required for en ed data into the co	ten replacing or l lata so that it ca tering the data va omputer.	reprogrammin n automaticali aries. Never inf	g the compu y be reloade errupt the pr	ter. d into the co ocedure.Valio	mputer. late in		Confirm
Current status								
							0%	
								End

Figure 9

24. Wait for the procedure to complete.

Back Reme Print Screen	reen hure Mode Recorded Data		
Diagnosis (One System) System Se	lection ENGINE		
Work support : WRITE SAVED DATA			
Ignition on, engine stopped. This command must only be used wh It serves to rewrite previously saved of IMPORTANT: The time required for en order to write the saved data into the co	en replacing or reprogramming the computer. lata so that it can automatically be reloaded into the comp tering the data varies. Never interrupt the procedure.Valida omputer.	outer. te in	Confirm
Current status	COMMAND IN I	PROGRESS	
		25%	
			End

Figure 10

25. Select End.



Figure 11

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	(1)	DE97AA	ZE	32	(2) (3)

(1) Refer to the electronic parts catalog and use the Blank ECM assembly part number as the Primary Failed Part (PFP).

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

(3) FRT allows adequate time to access DTC codes and reprogram ECM. No other diagnostic procedures subsequently required. Do NOT claim any Diagnostic Op Codes with this claim.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
February 28, 2019	NTB19-011	Original bulletin published
February 5, 2020	NTB19-011a	APPLIED VEHICLES and Table A revised