

ERVICE BULLETIN Classification:

Reference:

Date:

EC16-033a

NTB16-095a

June 7, 2017

### 2016 TITAN XD; MIL ON WITH DTC P226C OR P0471 WHEN **OPERATED AT OR BELOW 32°F (0°C)**

This bulletin has been amended. IF YOU CONFIRM section was updated. No other changes were made. Please discard all previous versions of this bulletin.

**APPLIED VEHICLES:** 2016 Titan XD (A61) Cummins 5.0L V8 Diesel **APPLIED ENGINE:** 

### IF YOU CONFIRM

The vehicle is operated in ambient temperatures at or below 32°F (0°C)

### and

one or both of the following DTCs are stored:

- P226C (Turbocharger Boost Control Slow Response)
- P0471 (Exhaust Pressure Sensor "A" Circuit Range/Performance)

### and

There are no drivability issues.

### ACTION

- 1. Save Computer Data with CONSULT-III plus (C-III plus).
- 2. At step 6 of the reprogramming procedure (page 7), confirm this bulletin applies to the vehicle you are working on.
- 3. If this bulletin applies, continue with reprogramming.
- 4. Write Saved Data with C-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

### **Save Computer Data**

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

	Back Home Print S	Screen Capture Measurement Mode	scorded Help 11.8V VI MI	
	Connection Status -		Diagnosis Menu	
Step 4:	Serial No.	Status	📋 Diagnosis (One System)	Step 5
plus VI is recognized	VI 2300727	►>>)))) Normal Mode/Wireless connection	Diagnosis (All Systems)	
	мі -			
		No connection	Re/programming, Configuration	
	Select VI/MI		Immobilizer	
	Application Setting           Sub mode             ABC   Language Setting		Maintenance	
	VDR			
<u> </u>		F		

Figure A

- 6. Navigate C-III plus to **Engine** > **Work Support** (see Figure B).
- 7. Select SAVE COMPUTER DATA.
- 8. Select Start.

Ver.CSP31.10				States
Back Home Print Screen Capture Mode	Recorded Data		12.3V VI	× • • • •
Diagnosis (One System)	NGINE			
Self Diagnostic Data Monitor	upport	Active Test	ECU Identific	eation
Test Item				
Reset fuel consumption short term log	Step 6	Engine serial numb	ber	
AFT maintenance				
Reset fuel and timing learn tables				
VIN REGISTRATION				
ENTER INJECTOR CODES	Step			
SAVE COMPUTER DATA	7			
WRITE SAVED DATA			F	
RTCV actuator calibrate				Step 8
				Start
		1	/1	

Figure B

### 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.

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

Ver.CSP31.10	·····		States
Back Home Drint Screen SC	Measurement Mode Recorded	Help	
Diagnosis (One System) System Sel	ENGINE		
Work support : SAVE COMPUTER DATA			
Ignition on, engine stopped. This command must be used only wh It is used to save some data (including computer.Confirm to run the backup pr	the injector calibrations) so a		nto the new
Current status			Step 10
			End

Figure C

### 11. Select End.

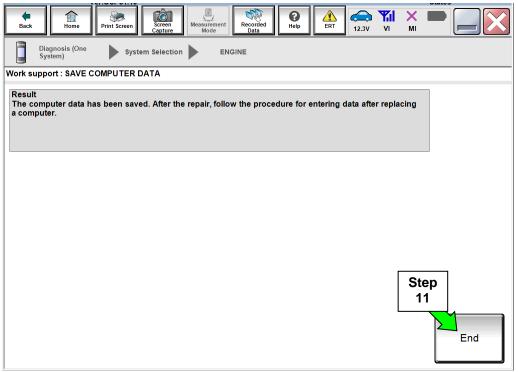


Figure D

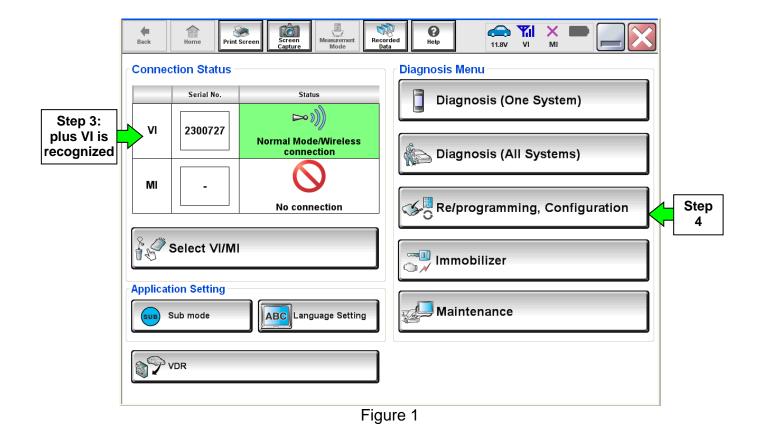
### NOTE:

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- If you are not familiar with the reprogramming procedure, click here. This will link you to the "CONSULT- III plus (C-III plus) Reprogramming" general procedure.
- For the Titan XD Diesel, the GR8 set to ECM power supply mode can be attached to either 12 volt battery.

# CAUTION: Connect the GR8 to the 12V battery and set to ECM power supply mode. 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<sup>®</sup> devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth<sup>®</sup> signal waves are within range of the CONSULT PC during reprogramming, reprogramming may

be interrupted and the ECM may be damaged.

- 1. Return to the C-III- plus Home screen (see Figure 1).
- 2 Confirm the ignition is ON, with engine OFF.
- 3. Confirm the plus VI is recognized.
  - The Serial No. will display when the plus VI is recognized.
- 4. Select Re/programming, Configuration.



5. Follow the on-screen instructions and navigate C-III plus to the screen shown in Figure 2 on the next page.

- 6. When you get to the screen shown in Figure 2, confirm this bulletin applies as follows.
  - A. Find the ECM **Part Number** and write it on the repair order.

**NOTE:** This is the <u>current</u> ECM Part Number (P/N).

CONSULT-III plus Ver VIN	Vehicle :	Country : U.S.A.						
Back Rome Print Screen	Measurement Mode	← Y × ■ [] ×						
Re/programming, Configuration	tion Selection Save ECU Data	7/7						
Save ECU Data								
Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.								
File Label	******							
Operation	REPROGRAMMING							
6A: <u>Current</u> EC								
Part Number	23710							
Vehicle	**********							
VIN	*****							
Date	11/1/201× 1:22:16 AM	Save						

Figure 2

- B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** below.
  - If there is a <u>match</u>, this bulletin <u>applies</u>. Continue with the reprogramming procedure.
  - If there is <u>not a match</u>, this bulletin <u>does not apply</u>. Close C-III plus and refer to ASIST for further diagnostic information.

Table A	
MODEL	CURRENT ECM PART NUMBER: 23710-
2016 Titan XD	EZ41C, EZ41D, EZ41E, EZ42A, EZ42B, EZ42C

7. Follow the on-screen instructions to navigate C-III plus and reprogram the ECM.

### NOTE:

- In some cases, more than one new P/N for reprogramming is available. •
  - 1. If more than one new P/N is available, the screen in Figure 3 displays.
  - 2. Select and use the reprogramming option that does not have the message "Caution! Use ONLY with NTBXX-XXX".
- If you get this screen and it is <u>blank</u> (no reprogramming listed), it means there is no • reprogramming available for this vehicle. Close C-III plus and refer back to ASIST for further diagnosis.

Back Home Prin	t Screen Screen Measurement Mode	Recorded Data	Confirm Vehicle Condition	9/11
Select Program Data				
	rog/programming data listed be nming data is listed below, confi in CONSULT.		VIN and	
System	ENGINE			
Current Part Number	Part Number After Repr	o/programming	Other Information	
xxxxx-xxxxx xxxxx-xxxxx				
			0/0	Next
		Eiguro 3		

8. When the screen in Figure 4 displays, reprogramming is complete.

**NOTE:** If the screen in Figure 4 does not display (indicating that reprogramming did not complete), refer to ECM recovery on the next page.

- 9. Disconnect the GR8 (battery charger) from the vehicle.
- 10. Select Next.

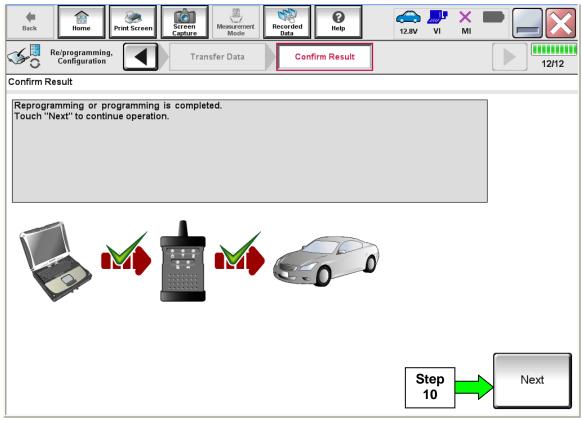


Figure 4

### NOTE:

- In the next step, (page 11), you will perform DTC erase.
- This operation is required before C-III plus will provide the final reprogramming confirmation report.

### 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<sup>®</sup> 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>.

CONSULT-II plue Ver	VN	Vanida	Country : Japan
Back Barne Print Screen	Schemen Cechum	Necordad Data	🚓 🍠 🗙 🖿 👝 🔀
S considiation	Transfer Data	Confirm Resul	1313
confirm Result			
Reprogramming or progamming is n operation on this ECU. Touch "Retry" to retry reprogramming		but you can retry reprogr	
Part number after		284B2-XXXX	
Reprog/programming		20402-4444	×
Part number before		284B2-XXXX	
Reproglphogramming Part number before Reproglphogramming Vehicle			
Part number before Reprog/programming Vehicle		284B2-XXXX	×
Part number before Reprog/programming Vehicle		284B2-XXXX QASHQAI	×
Part number sefore Reprog/programming		28482-XXXX QASHQAI SJNFDNJ10U10	x
Part number before Reprog/programming Vehicle VIN System		284B2-XXXX QASHQAI SJNFDNJ10U100 BCM	x

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.

CONSULT-ILBUS Ver.	MN	Vehicle : QASHQAI	County : Japan
Back Hone Print Screek	Anna Measurement R	econded Data	🗟 🍠 💥 🖿 🥅 🏹
Re/programing, Configition	Transfer Esta	Confirm Reput	► 999
onfirm Result			
Reprogramming is not completed prop Print this screen as needed. Confirm O with procedure. Restart CONSULT with disconnecting	ONSULT version, IGN		ssition and etc
Part number after			
Reprog/programming		284E2-XXXXX	
		284E2-XXXXX 284E2-XXXXX	
Reprog/programming			
Reprog/programming Current part number		284E2-XXXXX	
Reprog/programming Current part number Vahicle		284E2-XXXXX QASHQAI	
Reprogiprogramming Current part number Valscle VIN		284E2-3XXXX QASHQAI SJINFDNJ10U100000	
Reprogrprogramming Current part number Vahiele VIN System		28482-3X3XX QASHQAI SJNFDNJ10U100000 BCM	

Figure 6

- 11. Follow the on-screen instructions to **Erase DTCs**.
- 12. When the entire reprogramming process is complete, the screen in Figure 7 will display.
- 13. Verify the before and after part numbers are different.
- 14. Print a copy of this screen (Figure 7) and attach it to the repair order for warranty documentation.
- 15. Select Confirm.

Back Back Print Screen	Measurement Mode	🕞 🤐 🗙 🖿 🔜 🔀						
Re/programming, Configuration	se All DTCs Print Result / Operation Complete	18/18						
Print Result / Operation Complete								
All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Touch "Screen Capture", and save it. Screen capture data is in "CIII plus Data Folder" on desk top, and open the folder named "ScreenImages".								
	دون کې د کې							
Vehicle	23403002							
VIN	XMX AXA EXHAMMBOLIZOKK							
System	ENGINE	Step Print						
Date	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							
1/1 Step 1/1								

Figure 7

Continue to the next page.

### Write Saved Data

- 1. Return to the C-III- plus Home screen (see Figure 1A).
- 2 Confirm the ignition is ON, with engine OFF.
- 3. Confirm the plus VI is recognized.
  - The Serial No. will display when the plus VI is recognized.
- 4. Select Diagnosis (One System).

Connection Status  Serial No.  Status  Diagnosis Menu  Step  4		11.8V VI MI	led Help	Record	Measurement Mode	Screen Capture	Print Screen	Home	<b>H</b> Back	
Serial No. Status Diagnosis (One System)		Menu	Diagnosis				tus	ction Sta	Conne	
Stop 3:	Step 4	gnosis (One System)	Dia		0		o.	Serial N		Step 3:
Step 3:     plus VI is     vi     2300727       Plus VI is     vi     2300727       Normal Mode/Wireless     connection       Diagnosis (All Systems)		gnosis (All Systems)		;	de/Wireless	lormal Mod		230072	VI	plus VI is
MI - No connection Re/programming, Configuration		programming, Configuration			<b>)</b> nection	No con		-	МІ	
Select VI/MI		nobilizer					/I/MI	Select V	800	
Application Setting           Sub mode         Image Setting   Maintenance		intenance	Ma	ıg	guage Settin	ABC				
VDR								VDR	7	

Figure 1A

- 5. Navigate C-III plus to **ENGINE** > **Work support** (see Figure 2A).
- 6. Select WRITE SAVED DATA.
- 7. Select Start.

Ver.CSP31.10	States
Back Reme Print Screen Capture Mode	nent Recorded Data
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	k support
Test Item	
Reset fuel consumption short term log	Engine serial number
AFT maintenance	5
Reset fuel and timing learn tables	
VIN REGISTRATION	
ENTER INJECTOR CODES	
SAVE COMPUTER DATA	Step
WRITE SAVED DATA	6 Step 7
RTCV actuator calibrate	
	Start
	Figure 2A

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

ver.CSP31.10					States
Back Home Print Screen S	creen apture Mode	Recorded Help	ERT 12.3V V		
Diagnosis (One System) System Se	election ENGINI	E			
Work support : WRITE SAVED DATA					
Ignition on, engine stopped. This command must only be used wi It serves to rewrite previously saved IMPORTANT: The time required for en order to write the saved data into the c	data so that it can auto tering the data varies.	omatically be reloa	aded into the comp		Confirm
Current status					Step
				0%	9
					End
I					

Figure 3A

10. Wait for the procedure to complete.

		Julies
Image: Back         Image: Back		
Diagnosis (One System Selection ENGINE		
Work support : WRITE SAVED DATA		
Ignition on, engine stopped. This command must only be used when replacing or reprogramming the computer. It serves to rewrite previously saved data so that it can automatically be reloaded into the compu- IMPORTANT: The time required for entering the data varies. Never interrupt the procedure.Validate order to write the saved data into the computer.		Confirm
Current status COMMAND IN PR	ROGRESS	
	25%	
		End

Figure 4A

### 11. Select End.

,	Ver.CSP31.10			States
Back Home	Print Screen Capture Met	asurement Mode	Image: Weight Help         Image:	
Diagnosis (One System)	System Selection	ENGINE		
Work support : WRIT	E SAVED DATA			
Data transfer done.				
				Step
				11
				End

Figure 5A

12. Close C-III plus.

13. Turn the ignition OFF.

14. Disconnect the plus VI from the vehicle.

15. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.

- If the MIL comes ON, go back to ASIST for further diagnostic information.
- Diagnosis and repairs beyond ECM reprogramming are not covered by this bulletin.

### **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 (FAST or equivalent) 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.