

Reference: NTB16-051

May 16, 2016

Date:

2016 TITAN XD; MIL ON WITH HESITATION ON ACCEL IN COLD TEMPERATURE

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

IF YOU CONFIRM

EC16-017

Classification:

The vehicle is operated as follows:

- After being parked indoors overnight and started for the first time (cold start),
- and then before reaching operating temperature is driven outside in an ambient temperature below 0°F (-18°C).

Then

A hesitation is present while accelerating that improves as engine temperature • increases, and subsides when the engine reaches normal operating temperature.

And/or

- The vehicle is operated in ambient temperatures at or below 32°F (0°C) and one of • these codes are stored.
 - P202E Reductant Injection Valve Circuit 1/1
 - P218F Reductant No Flow Detected
 - P22CE TC Outlet Switching Valve Stuck Closed

ACTION

- 1. Save Computer Data with CONSULT-III plus (C-III plus).
- 2. At step 6 of the reprogramming procedure, 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 gualified 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	Screen Capture Mode	tecorded Bata	
	Connection Status		Diagnosis Menu	
Stop 4:	Serial No.	Status	Diagnosis (One System)	Step 5
plus VI is recognized	VI 2300727	Normal Mode/Wireless	Diagnosis (All Systems)	
	MI	\bigotimes		
		No connection		
	Select VI/M		Immobilizer	
	Application Setting	Language Setting	Maintenance	
	VDR]	
ļ				

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	Help	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	Stop			
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 Print Screen	reen Mode Recorded Data	Help LERT 12.3V	
Diagnosis (One System) System Sel	lection 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	en replacing or reprogrammin the injector calibrations) so a ocedure.	ng the computer. Is to load it automatically i	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[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth[®] 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).

Back Reme Remember Reme Remember Remember Rem Remember Remember Reme	Messarement Mode	11.8V VI	× = _ ×
Re/programming, Configuration	tion Selection Save ECU Data		7/7
Save ECU Data			
Touch "Save" to save operation log and th Operation log helps to restart next operatio after operation has completely finished.	e current part number as listed below to n by selecting suitable operation log. Op	o CONSULT. peration log is era	ised
File Label	M BOX X DORK X SECUR	00##XX	
Operation	REPROGRAMMI	NG	
System Step 6 Current EC			
Part Number	23710- XDKOXOA9	<u> </u>	
Vehicle	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	âxxx	
VIN	DERIKS KHORK SZIKIK	0X4XX	
Date	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXX	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>, continue with the reprogramming procedure.
 - If there is <u>not a match</u>, this bulletin does not apply. Refer to the ESM or further diagnostic information.

Table A

Model	Current ECM Part Number: 23710-
2016 Titan XD Cummins Diesel	EZ42A, EZ41C, EZ41D, EZ41E

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.
 - > If more than one new P/N is available, the screen in Figure 3 displays.
 - Select and use the reprogramming option that <u>does not</u> 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 Prin	nt Screen Capture Mode	Recorded Data	(11.8V VI MI	-
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition	9/11
Select Program Data				
Touch and select the rep In case no reprog/program reprog/programming data	prog/programming data listed be mming data is listed below, confi in CONSULT.	low. rm the vehicle selection, '	VIN and	
System	ENGINE			
Current Part Number	Part Number After Repr	o/programming	Other Information	1
xxxxx-xxxxx xxxxx-xxxxx	xxxxx-xxxxx xxxxx xxxxx	XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxxxx xxxxxxxxx	
			0/0	Next

Figure 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[®] 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>.

CONSULTATIBUE Ve	VN	Usticle		Country : Japan
Back Home Print So	ver Catkan Made	Necoribed Data	12.3V VI	× = _ X
reprograming.	Transfer Data	Corfirm Resul		1313
onfirm Result				
Reprogramming or programmi operation on this ECU. Touch "Retry" to retry reprogr	ing is not completed propertly, amming or programming.	but you can retry reprog/	programming	R
Dant number after				
Reprog/programming		284B2-XXXX	ĸ	
Reprog/programming Part number before Reprog/programming		254B2-XXXX 254B2-XXXX	K.	
Reprogramming Part number before Reprogramming Vehicle		28482-XXXX 28482-XXXX QASHQAI	ĸ	
VIN		28482-XXXX 28482-XXXX QASHQAI SJNFDNJ10U10	x x	
Vehicle VIN System		284B2-XXXX 284B2-XXXX QASHQAI SJNFONJ10U100 BCM	K K 1000	
Part number sehre Reprogragsamming Vehicle VIN System Date		28482-XXXX 28482-XXXX QASHQAI SJNFDNJ10U100 BCM 26/07/20111630	x x 2000	Retry
An internet serving Reprogramming Vehicle VIN System Date Error Code		28482-XXXX 28482-XXXX QASHQAI SJNFDNJ10U100 BCM 26/07/2011 16.30	K K 10000 2000	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.

CONSULT-IL BUS Ver.	MIN	Vehicle : QASHQAI	County : Japan
Bark Hone Print Screen	Streen Capture Moasurement	Reported Help	🗟 💵 💥 🖿 🥅 🔀
Relprograming.	Transfer Data	Confirm Result	9/9
Confirm Result			
Reprogramming is not completed p -Print this screen as needed. Confi with procedure. -Restart CONSULT with disconnee	roperly. m CONSULT version, K Ing VI once, and start th	SWPower switch position, shift po te reprogramming again.	sition and etc
Part number after Reprog/programming		284E2-30XXXX	
Current part number		284E2-XXXXX	
Vehicle		QASHQAI	
VIN		SJNFDNJ10U100000	
System		BCM	
Date		25/07/2011 16:30:00	
Information			
Error Code			Print

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	Messurement Mode Recorded Help	🔊 🚚 🗙 🖿 🦲 🔀						
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".								
Part number after Reprog/programming S Part number before Reprog/programming	tep 23710- XEX2E X 13 23710- XEX2E X							
Vehicle	23403002							
VIN	XMX AXX EXMANISO 12044							
System	ENGINE	Step Print						
Date	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							
1/1 Step 1/1 15 Confirm								

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).

	H Back	Home	Print Screen	Screen Capture	Measurement. Mode	Recorded Data	P Help	(11.8V	Yil Vi	X P]
	Conne	ction Sta	tus				Diagnosis	Menu				
Stop 3:		Serial N	0.	Sta	tus		Dia	gnosis (C	ne Sy	/stem)		Step 4
plus VI is recognized	VI	23007	27 N	ormal Moc conne))) le/Wireless ection	· [Dia	gnosis (A	II Sys	tems)		
	мі	-		No con	nection		K	programr	ning, I	Configu	ration	
	P.S	Select V	/I/MI				Timn	nobilizer				
	Applica	tion Settin Sub mode	ng	ABC	guage Settir	ng (de Ma	intenance	9			
	1	VDR										

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 Rome Print Screen Capture	Easurement Mode Recorded Data
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	Work support
Test Item	
Reset fuel consumption short term log	Step 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
RTCV actuator calibrate	
	Start
	1/1
	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 Reme Print Screen	Creen ppture Mode	Recorded Data	ERT 12.3V	VI MI	-
Diagnosis (One System) System Se	election ENG	INE			
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	nen replacing or rep data so that it can a tering the data varie omputer.	rogramming the co utomatically be relo s. Never interrupt th	nputer. aded into the com e procedure.Valida	puter. Ite in	Confirm
Current status					Sten
	`			09	9
					End

Figure 3A

10. Wait for the procedure to complete.

Image: Second control Image: Second control <th< th=""><th>MI X</th><th></th></th<>	MI X	
Diagnosis (One System) 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 comp IMPORTANT: The time required for entering the data varies. Never interrupt the procedure.Validate order to write the saved data into the computer.	uter. Ə in	Confirm
Current status COMMAND IN P	ROGRESS]
	25%	
		End

Figure 4A

11. Select End.

		/er.CSP31.10					•				States	
Back	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	P Help	ERT	12.3V	Yil VI	× ^{MI}		
	Diagnosis (One System)	Syste	em Selection		SINE							
Work s	upport : WRITE	SAVED DAT	A									
Data t	transfer done.											
										Ste 11	р	
												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.