

SERVICE BULLETIN

Classification:

EC16-017a

Reference:

Date: June 8, 2017

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

NTB16-051a

This bulletin has been amended. A DTC has been removed from the IF YOU CONFIRM section. No other changes have been made. Please discard previous versions of this bulletin.

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

IF YOU CONFIRM

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 DTCs are stored.
 - P202E Reductant Injection Valve Circuit 1/1
 - 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 (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 <u>entire</u> **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	Screen Capture Mode	scorded Data	
	Connection Status		Diagnosis Menu	<u>Ctan</u>
Step 4:	Serial No.	Status	Diagnosis (One System)	Step 5
plus VI is recognized	VI 2300727	لک کی Normal Mode/Wireless connection	Diagnosis (All Systems)	
	MI	\bigcirc		
		No connection	Re/programming, Configuration	
	Select VI/MI		Immobilizer	
	Application Setting	ABC Language Setting	Maintenance	
	VDR			
		Fie		

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				Stat	es
Back Print Screen Capture Mode	t Recorded Data	Help	12.3V VI	MI	
Diagnosis (One System) System Selection E	NGINE				
Self Diagnostic Data Monitor	upport	Active Test	ECU Identif	ication	
Test Item					
Reset fuel consumption short term log	Step 6	Engine serial num	ıber		
AFT maintenance					
Reset fuel and timing learn tables					
VIN REGISTRATION					
ENTER INJECTOR CODES	Step				
SAVE COMPUTER DATA	7				
WRITE SAVED DATA			Г	Ctar	
RTCV actuator calibrate				Step 8	4
					Start
		1	1/1		Otart

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 Sci	Measurement Mode Recorded	Help	
Diagnosis (One System) System Sel	ection ENGINE		
Work support : SAVE COMPUTER DATA			
Ignition on, engine stopped. This command must be used only who It is used to save some data (including computer.Confirm to run the backup pro	the injector calibrations) so a	ng the computer. Is to load it automatically i	nto the new
Current status			Step 10
			End

Figure C

11. Select End.

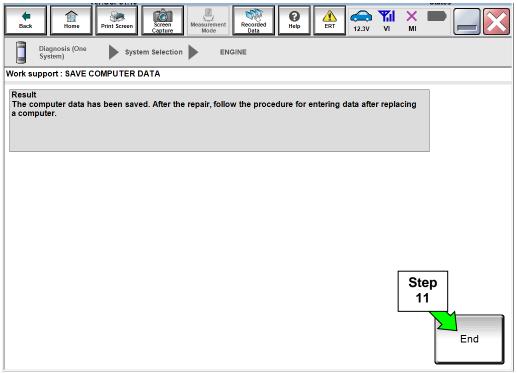


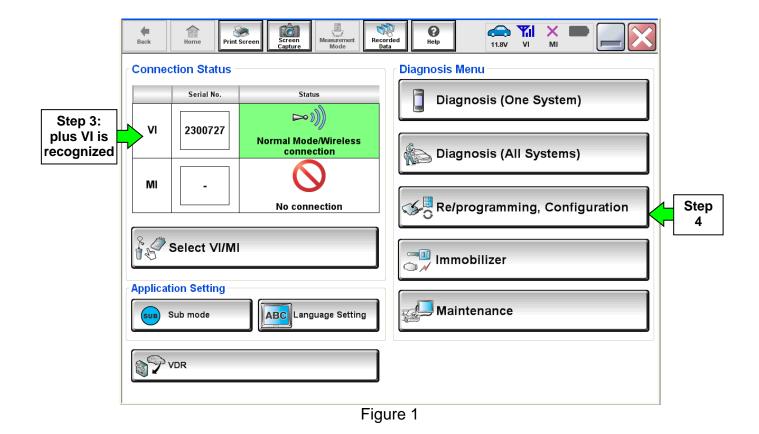
Figure D

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).

Image: Back Image: Back	Messurement Mode Mode	11.8V VI MI	-
Re/programming, Configuration	ation Selection Save ECU Data		717
Save ECU Data			
Touch "Save" to save operation log and th Operation log helps to restart next operation after operation has completely finished.			
File Label	KARKER KRAKE	жжхх	
Operation	REPROGRAMMING	3	
System Step 6 Current EC			_
Part Number	23710-3096000		_
Vehicle	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxx	
VIN	DOLEMA KHAXAKK	XXXX	
Date	X MMRONX X PER NR A	XXXX	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 ASIST and the ESM for 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 Home Pri	nt Screen Screen Mode	Recorded Data	11.8V VI MI	
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition	9/11
Select Program Data				
	prog/programming data listed be mming data is listed below, confi i in CONSULT.		VIN and	
System	ENGINE			
Current Part Number	Part Number After Repr	o/programming	Other Information	-
xxxxx-xxxxx xxxxx-xxxxx			*****	
			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.

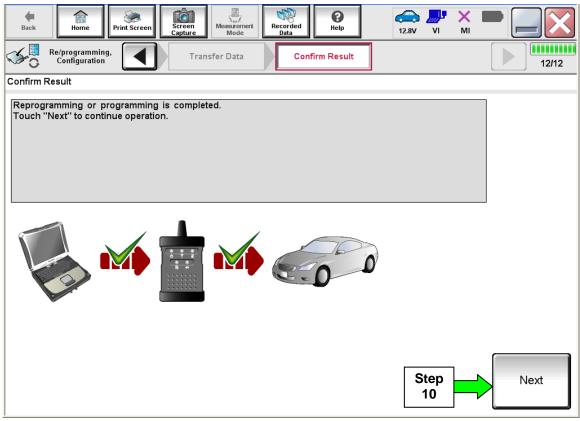


Figure 4

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>.

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 کی					
Vehicle	23403002					
VIN	XMX AXA EXHAMMBOLLOOK					
System	ENGINE	Step Print				
Date	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
	17	Step 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	Help	(11.8V	Yil Vi	× 🗭		
	Conne	ction Sta	tus				Diagnosis	Menu				
Stop 2:		Serial N	o.	Sta	0		Dia	gnosis (C	ne Sy	/stem)		Step 4
Step 3: plus VI is recognized	VI	23007		ormal Moo conne	e/Wireless	;		gnosis (A	II Sys	tems)		
	МІ	-		No con	nection		Correction Re/	program	ning,	Configu	ration	
	F.S.	Select V	/I/MI				Imn	nobilizer				
		tion Settin Sub mode	1	ABC	guage Settir	ng	a a Mai	intenance				
		VDR										
1							4.4					

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
	Image: Recorded Data Image: Re
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	Nork 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
RTCV actuator calibrate	
	Start
	Figure 2A

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

		States
Image: Back Image: Back	X MI	
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 or IMPORTANT: The time required for entering the data varies. Never interrupt the procedure.Va order to write the saved data into the computer.		Confirm
Current status		Step
	0%	
		End

Figure 3A

10. Wait for the procedure to complete.

		een Measur Mo	ement Recorde	d Help	ERT	12.3V	VI MI		
Work support : WRITE SA	VED DATA								
Ignition on, engine stop This command must or It serves to rewrite prev IMPORTANT: The time order to write the saved	nly be used whe viously saved d required for ent	ata so that it ering the dat	can automati	cally be rele	oaded into				Confirm
Current status					COM	MAND IN	PROGRE	SS	
							2	ō %	
									End

Figure 4A

11. Select End.

	Ver.CSP31.10	P31.10 SI				States	;		
Back Hor		Screen Capture	Measurement Mode	Recorded Data	() Help	12.3V		MI	
Diagnosis System)	One Syst	em Selection	ENGI	NE					
Work support : W	RITE SAVED DAT	Α							
Data transfer do	ne.								
							Ş	Step 11	
									End
<u> </u>					•				

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.