

Classification:

EC18-002

Reference:

Date: January 26, 2018

2016-2017 TITAN XD WITH CUMMINS 5.0L; **IDLE FLUCTUATION DURING LOW TEMPERATURE WARM-UP**

NTB18-005

APPLIED VEHICLES: 2016-2017 Titan XD (A61) APPLIED ENGINE: Cummins 5.0L V8 Diesel

IF YOU CONFIRM

An applied vehicle's idle fluctuates after starting when:

The coolant temperature is between 68°F (20°C) and 104°F (40°C) •

and

The vehicle is not moving (0 MPH).

NOTE: This incident may continue until the coolant temperature reaches 104°F (40°C).

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 procedure.
- 4. 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

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).

	Connection Status		Diagnosis Menu	Step
Step 4:	Serial No.	Status	Diagnosis (One System)	5
plus VI is recognized	VI 2300727	► I))) Normal Mode/Wireless connection	Diagnosis (All Systems)	
	MI -	No connection	Re/programming, Configuration	
	Select VI/M	1	Immobilizer	
	Application Setting	Language Setting	Maintenance	

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	tent Recorded Data
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	support Active Test
Test Item	
Reset fuel consumption short term log	Step Engine serial number
AFT maintenance	6
Reset fuel and timing learn tables	-
VIN REGISTRATION	
ENTER INJECTOR CODES	
SAVE COMPUTER DATA	Step 7 Step
WRITE SAVED DATA	
RTCV actuator calibrate	1
	1/1 Start

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 Rome Print Screen	Screen Capture Mode Recorded Data	Peip ERT 12.3V VI	× = _ X	
Diagnosis (One System)	n Selection ENGINE			
ork support : SAVE COMPUTER DA	TA			3
gnition on, engine stopped.	when replacing or reprogramming th	he computer	1	Step
is used to save some data (includ omputer.Confirm to run the backup	ling the injector calibrations) so as to	load it automatically into the	new Confirm	
				빙 느 ㅡ
urrent status				
				i i
			End	

Figure C

11. Select End.

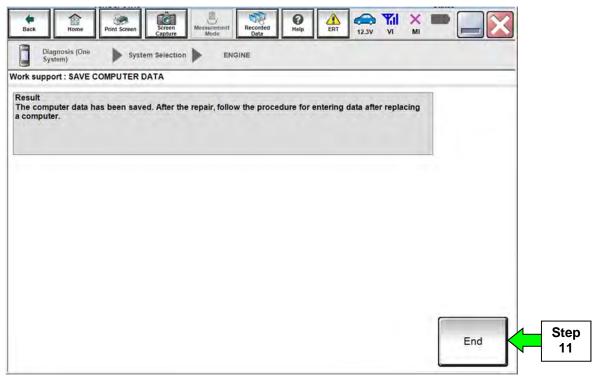


Figure D

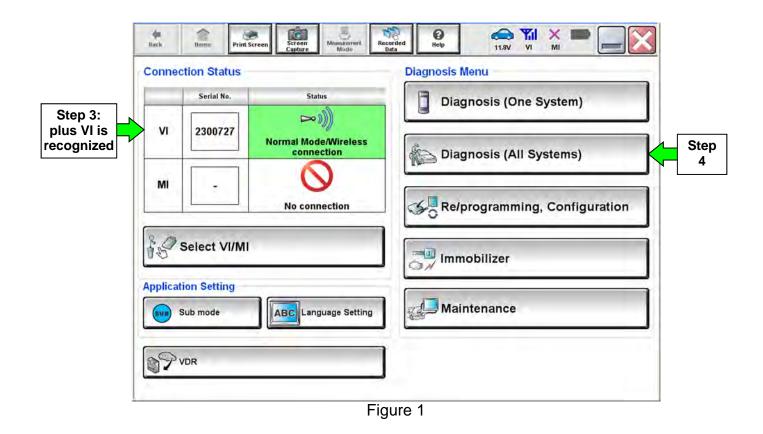
NOTE:

- 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 one of the 12V batteries 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 the ECM may be damaged.
- 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 or plus VI during reprogramming,
 reprogramming may be interrupted and <u>the ECM may be damaged</u>.

- 1. Return to the C-III- plus Home screen (see Figure 1).
- 2 Confirm the ignition is ON and the engine is 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 Home Print Screen Capture	Mode Recorded Help	11.8V VI MI	7/7			
ave ECU Data		-	- 1 300			
Touch "Save" to save operation log and the Operation log helps to restart next operation to after operation has completely finished.		eration log is erased				
Operation	REPROGRAMMIN					
System Step 6A: Current ECM	ENCINE	ENCINE				
Part Number	23710-XXXX	x				
Vehicle	хххжжжжжж	xxxx				
VIN	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	91#XXX				
Date	X XXXXXXX XXXX	MXXXX	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 match, this bulletin applies. Continue with the reprogramming procedure.
 - If there is <u>no match</u>, this bulletin <u>does not apply</u>. Close C-III plus and refer to ASIST for further diagnostic information.

I ADIE A	
Model	Current ECM Part Number: 23710-
2016 Titan XD with Cummins 5.0L	EZ41C, EZ41D, EZ41E
	EZ42A, EZ42B, EZ42C, EZ42D, EZ42E
Guinning 3.0E	EZ43A, EZ43B
2017 Titan XD with	EZ44D, EZ44E
Cummins 5.0L	EZ45A, EZ45B, EZ45C

Table A

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 Print Scr	en Streen Manuarentert Recorded Data	Image: Weight Heip Image:	· 💥 🖿 🔚 🔀
Configuration	Precaution	t Program Data Confirm Ve Condition	
Select Program Data			
	programming data listed below. ng data is listed below, confirm the vel ONSULT. ENGINE	hicle selection, VIN and	
Current Part Number	Part Number After Repro/programm	ing Other Informatio	n
XXXXX-XXXXX XXXX-XXXXX		xxxxxxxxxxxxxxx xxxxxxxxxxxxxxxx	
		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.

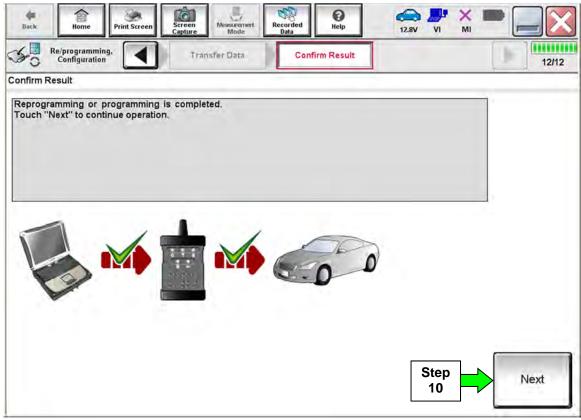


Figure 4

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-IL plus Ner		Uncicles	Doumin-Japan.
Stars Hone Print Scorer	Enter Colum	Name Hoto 13.3V	🐙 💥 📟 🥅 🔀
senigiller) Fall	Continu General	13/13
Confirm Result			
Reprogramming or programming is operation on this ECU. Touch "Remy" to retry reprogramm		but you can retry reprogriprogrammin	→ 🔊
Part number after Reprogramming		28482-XXXXX	
Part number before Reprog/programming		28482-XXXXXX	
	1 A 1 A 1		
Vehicle		XXXXX	
		XXXXX XXXXXXXXX	
VIN			
Vehicle VIN System Dete		XXXXXXXXXX	Retry
VIN System		XXXXXXXXX XXX	Rety

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 WY	VIN Volide (CABHDAI	County Haban
	And Mension Market And	
Belgragraming.	Control General	9/9
confirm Rosult		_
with procedure. -Restart CONSULT with disconnecting	enty ICONSULT version, IGW/Fower switch position, shift position : Vionse, and start the reprogramming again	ard at:
Part number after Reprogramming	28482-XXXXX	
the second se		
	28482-VXXXX	
Cunent part number	28482-3XXXX XXXXXX	
Current part number Vehicle VIN	The rest of the second	
Cunent part number Vehicle	хжжж	
Current part number Verbote	XXXXXX XXXXXXXXXXXX	
Cumon part number Velsele VIN System	XXXXX XXXXXXXXX XXX XXX	

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 Hom	e Print Screen	Screen Capture	Mesens ernert Mode	Recorded Data	0 Help	🧀 🔑 🗙 14.3V VI M	: 🖿 📃 🔀
S Re/program		Erase	All DTCs		nt Result / ion Complete		18/18
Print Result / Operation	ation Complete		_				
All tasks are con In case CONSUL temporally storag Data Folder'' on c	T can NOT immed ge of this page. To	diately acce buch "Scree	ss to LAN o en Capture"	r printer, Sci , and save it	reen Capture Screen capt	function is available fo ure data is in "CIII plus	
Part number after Reprog/program		Ste	ep 📃		23710-105	ix	
Part number befo Reprog/program		13	-		23710-10	ŧx	
Vehicle					2000002		
VIN				XMX	AXXEXXXXXX	K1204K	
System					ENGINE	Step	Print
Date				xbdx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
						Step 1/1	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 the engine OFF (engine not running).
- 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	Missateriert	Recorded Data	0 Help	11.8V			×	
	Conne	ction Stat	us			D	iagnosis N	lenu		_		
		Serial No	».	Statu	0		Diag	nosis (On	e System	1)		Step 4
Step 3: plus VI is recognized	VI	230072		ormal Mode connec	e/Wireless	_ [Diag	nosis (All	Systems	i)	וו	
	MI			No conn	ection		So Re/p	orogrammi	ing, Conf	iguration		
	00	Select V					nm	obilizer				
		tion Settin Sub mode	16	ABC	uage Setting		J Mair	ntenance				
	97	VDR										
											-	

Figure 1A

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

Ver.USP31.10	States
Back Home Print Screen Capture	
Diagnosis (One System) System Selection	ENGINE
Self Diagnostic Data Monitor	k 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 7
WRITE SAVED DATA	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.Corol.iu	-	17				1	-		States
Back Home	Print Screen	Screen Capture	Messurement	Recorded Data	0 Help	ERT	12.3V	Yil vi	×	
Diagnosis (On System)	e 🕨 syst	em Selection	► EN	GINE						
rk support : WRIT	E SAVED DAT	A								
nition on, engine	stopped.									1
his command mu serves to rewrite	st only be use previously say	ved data so	that it can	automaticall	y be reloa	aded into				Confirm
PORTANT: The der to write the s				es. Never int	terrupt the	e proced	ure.Valid	ate in		
irrent status										
		1							0.0	Step
									0%	9
										End

Figure 3A

10. Wait for the procedure to complete.

Back E	Print Screen	Screen Capture	Measurement Mode	Recorded Data	O Help	ERT	12.3V		× •	
Diagnosis (One System)	Syste	em Selection) EN	IGINE						
/ork support : WRITE	SAVED DAT	A								
Ignition on, engine This command mus It serves to rewrite p IMPORTANT: The tin order to write the say	t only be use previously say me required for	ed data so or entering t	that it can he data var	automatica	lly be rela	aded int				Confirm
command in PROGRESS								ESS		
									25%	
									ſ	End
										End
									_	

Figure 4A

11. Select End.

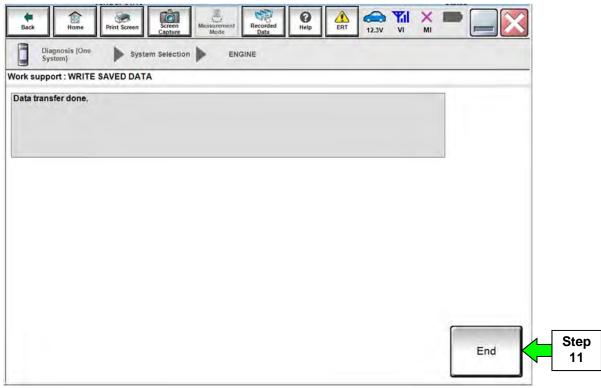


Figure 5A

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 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.