

SERVICE BULLETIN

Classification:

Reference:

Date:

HA16-002b

NTB16-056b

February 1, 2018

2016-2018 TITAN XD; EXHAUST SMELL INSIDE VEHICLE WHEN HVAC IS ON FRESH AIR

This bulletin has been amended to update Applied Vehicles, remove the installation of a micro filter and to add a reprogramming procedure. No other changes have been made. Please discard previous versions of this bulletin.

APPLIED VEHICLES:	2016-2018 Titan XD (A61)
APPLIED VIN AND DATE:	2016 Titan XD All
	2017 Titan XD All
	2018 Titan XD built before 1N6BA1(*)(*)(*)JN 517668 /
	January 8, 2018
APPLIED ENGINE:	Cummins Diesel

IF YOU CONFIRM

A diesel exhaust smell is present inside the vehicle:

• While the vehicle is stopped.

And

• The HVAC system is ON with mode set to fresh air.

ACTION

Refer to the Procedure Overview on page 2 for the vehicle specific service procedure.

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.

Procedure Overview



4. Write Saved Data with C-III plus.

SERVICE PROCEDURE

Cowl Cover Assembly Removal Instructions



Figure 1



Figure 2

1. Remove both wiper arm caps.

3. Remove both wiper arms.

2. Remove both wiper arm nuts.



Figure 3

4. Remove both left and right cowl cover assembly side finishers.

NOTE: Passenger side shown. Driver's side is similar



Figure 4



5. Disconnect the washer tank hose at plastic fitting.

Figure 5

6. Remove the nine (9) push pins that hold the front edge of the cowl cover assembly (Figure 6).





- 7. Remove the cowl cover assembly as follows:
 - a. Lift the cowl cover assembly at the end.

NOTE: This can be lifted at either the passenger side or driver's side.

- b. Starting at lifted end, slide hand between the windshield and cowl cover assembly.
- c. Detach the seven (7) clips that attach the cowl cover assembly to the vehicle.

NOTE: Cowl cover assembly will be replaced.



Figure 7

- 8. Remove the hood seal from cowl cover assembly (Figure 8).
 - Detach Ten (10) clips.

IMPORTANT: The seal has a leading and trailing (front and back) edge. Note the seal orientation (Figure 8) before removal.



Cowl Cover Assembly Installation Instructions

- 1. Add foam block (size: 20x20x50 mm) to the vehicle as follows:
 - a. Clean the area directly below the passenger side corner of the windshield with 50% isopropyl alcohol (Figure 9).



Figure 9

 b. Find the centerline of the farthest left "cowl cover assembly grommet" (grommet) shown in Figure 10.

NOTE: The centerline will be parallel to the edge of the windshield.

- c. Measure 8.5 mm from the grommet centerline to the left (Figure 10).
- d. Remove foam block adhesive backing strip.
- e. Align foam block against the lower edge of the windshield and left hand edge within the 8.5 mm area (Figure 10).
- f. Press foam block firmly into place.
- 2. Attach the hood seal from old cowl assembly to the new cowl assembly.

IMPORTANT: The seal has a leading and trailing (front and back) edge. Note the seal orientation (Figure 11) before installing.



Figure 10



Figure 11

3. Assemble the new cowl cover extension to the new cowl cover assembly, from Part Information, by inserting the molded tabs into the side of the cowl cover assembly (Figure 12).

NOTE: Tabs can be pulled through to seat them with an appropriate tool.



Figure 12

- 4. Clean the wiper arm mount (Figure 13).
 - This will reduce the possibility of wiper looseness.



Figure 13

- 5. Install the new cowl cover assembly to the vehicle as follows:
 - a. Align the center guide of the cowl cover assembly to the center slot of the cowl (Figure 14).
 - b. Snap the seven (7) clips that attach the cowl cover assembly to the vehicle at the base of the windshield, starting from the center guide and working toward the left and right.





- c. Confirm that the seal fits correctly to the windshield.
 - No gaps between seal and glass are allowed.
- d. Install the nine (9) push pins (Figure 15).
- e. Connect washer tank tube to the plastic fitting.





- 6. Assemble the baffle to the new cowl extension.
 - Insert clip A and clip B on baffle into the two holes present in the new cowl extension (Figure 16).

NOTE: Clips A, B, and C are pre-assembled to baffle.



7. Insert rearward baffle clip C to the cowl cover.





Figure 18

8. Install left and right side finishers for the cowl cover assembly.

- 9. Re-install the wiper arms.
 - Torque nuts to: 23.6 N•m (2.406 kg-m, 17 ft-lb.)

10. Re-install wiper arm caps.

IMPORTANT: Before starting, make sure:

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

NOTE:

• 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 goes 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 during reprogramming, reprogramming may be interrupted and <u>the ECM may be damaged</u>.

Save Computer Data

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

	Connection Status		Diagnosis Menu	
	Serial No.	Status	Diagnosis (One System)	Step
Step 14: lus VI is cognized	VI 2300727	►)))) Normal Mode/Wireless connection	Diagnosis (All Systems)	15
	MI -	No connection	Re/programming, Configuration	
	Select VI/MI		Immobilizer	
	Application Setting Sub mode	ABC Language Setting	Maintenance	
	VDR			

Figure 19

- 16. Navigate C-III plus to ENGINE, and then to Work support (see Figure 20).
- 17. Select SAVE COMPUTER DATA.
- 18. Select Start.

Ver.CSP31.10	S	tates
Back Home Print Screen Capture Mode	hent Recorded Data	•
Diagnosis (One System) System Selection	ENGINE Step	
Self Diagnostic Data Monitor	k support 16	
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	Step 17	Step
WRITE SAVED DATA		18
RTCV actuator calibrate		
	1/1	Start

Figure 20

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.

19. Make sure the ignition is ON and the engine is OFF (engine not running).

20. Select Confirm.

Ver.CSP31.10			States
Back Reme Print Screen	reen oture Mode Recorded Data	Image: Weight Help Image:	
Diagnosis (One 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.	g the computer. s to load it automatically ir	nto the new Confirm
Current status			Step 20
			End

Figure 21

21. Select End.



Figure 22

NOTE:

- For the following steps, most of the instructions for reprogramming with 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.

22. Return to the C-III plus Home screen (see Figure 23).

23. Confirm the ignition is ON, with engine OFF.

24. Confirm the plus VI is recognized.

• The Serial No. will display when the plus VI is recognized.

25. Select Re/programming, Configuration.

	Connection Status		Diagnosis Menu	
	Serial No.	Status	Diagnosis (One System)	
Step 24: plus VI is recognized	VI 2300727	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Diagnosis (All Systems)	
	MI -	No connection	Re/programming, Configuration	Step 25
	Application Setting		Immobilizer	
	Sub mode	Language Setting	Maintenance	
	VDR			

Figure 23

26. Follow the on-screen instructions and navigate C-III plus to the screen shown in Figure 24 on the next page.

- 27. When you get to the screen shown in Figure 24, confirm if a reprogram is available 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).

Re/programming,	Operation Selection Save ECU Da	ta	77
ave ECU Data			
ouch "Save" to save operation log a peration log helps to restart next op fter operation has completely finishe	and the current part number as listed b eration by selecting suitable operation i d.	elow to CONSULT. og. Operation log is era	sed
ile Label	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX0000	
peration	REPROGR	AMMING	
ystem Ste	p 27A: t ECM P/N	AMMING	
ystem Ste Curren art Number	P 27A: t ECM P/N	Amming NE MKKAX	
Vperation System Part Number Vehicle		AMMING NE MSRA XXXXXXXX	
System Ste Curren Part Number /ehicle		AMMING NE NKRAKX KXMARKXXX KXMARKXXX	

Figure 24

- 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, continue with the reprogramming procedure.
 - If there is not a match, close C-III plus, turn the ignition OFF and disconnect the plus VI from the vehicle.

Model	Current ECM Part Number: 23710-
	EZ41C, EZ41D, EZ41E
2016 Litan XD	EZ42A, EZ42B, EZ42C, EZ42D, EZ42E
	EZ43A, EZ43B
2017 Titan XD	EZ44D, EZ44E
(Cummins Diesel)	EZ45A, EZ45B, EZ45C
2018 Titan XD (Cummins Diesel)	EZ47C

28. 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 25 displays.
 - Select and use the reprogramming option that does <u>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.

CONSULTHI plus Ver.	VINL	Vehicle :	Country: U.S.A.
Horner Privil Sco	cen Serien Menastreit Beco		
Re/programming.	Pretautor	Select Program Data Genfirm Condition	ion 90
ct Program Data	_		
case no reprog/programmi prog/programming data in (Svstem	ng data is listed below, confirm the ONSULT.	e vehicle selection. VIN and	
Concept Dard Number	Dag Kumbar Altar Desta Jarea	committee Different Information	_
Content Part Humber	Pari Hammer Aster Reproprog	amming Other mormat	
Contraction of the second second			202020
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2000000-2000000	000000000000000000000000000000000000000	
x000000-x000000x x000000-x000000x	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	200000000000000000000000000000000000000	000000
X00000-X00000X	2000000-000000X	200000000000000000000000000000000000000	accocc

Figure 25

- Before reprogramming will start, you may be required to enter your User Name and Password.
 - > The CONSULT PC must be connected to the Internet (Wi-Fi or cable).
 - If you do not know your User Name and Password, contact your Service Manager.

Ver.CSP44.2	1 111. 1140 LOOF 1110242100	Venicie . AL IMA	500001 600 2017	States
Back Back Print Screen	Screen Capture Measurement Mode Data	Help AL	12.6V VI MI	-
Configuration	Confirm Vehicle User	Authentication	Transfer Data	11/12
ser Authentication				
(S) SECUREAUTH				
Daimler WS				
	Please enter your UserID below.			
	Itemane I			
	Password			
	Submit			
Résian Login				Secure

Figure 26

29. When the screen in Figure 27 displays, reprogramming is complete.

NOTE: If the screen in Figure 27 does not display (indicating that reprogramming did not complete), refer to ECM recovery on the next page.

30. Disconnect the GR8 (battery charger) from the vehicle.

31. Select Next.



Figure 27

NOTE:

- In the next step, (page 20), 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 28:

- 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>the first attempt and can be</u> <u>selected more than once</u>.

CONSULT-II pue Ver	UN UND	in .	Comin Jacan
Bas Hone Print Scorer	Annen Marte Arte		× = = X
So responsariling.	Contin	Been	13/3
Confirm Result			
Reprogramming or programming is no operation on this ECU Touch "Reny" to retry reprogramming	t completed propertly, but you can n or programming.	ntry reprog/programming	R
Part number after Replog/programming	28	482-XXXXX	
Part number before Reprog/programming	25	482-XXXXX	
Vehicle	2	CXXXX	1
VIN	SJNF	DNJ10U100000	
System		эси	
	XXX	XXXXXXX	Reby
Dete			
Error Code			

Figure 28

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 29:

- 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.

CONSUL DIDIE W	VIN	Votisle (CLASHQA)	County Huden
B Cane Phit Scree	Schafe Ments required A		? X - 🗔 🔀
C Relargraming.	10.00	Cor/IIII Theeut	9/9
onfirm Rosult			
Recognizing a rel completed prop Print this screen as needed. Confirm with procedure. Rectart CONSULT with disconnecting	erty CONSULT version, IGN VI once, and start the r	Power swich position, shift position oprogramming again	ard etc
Part member after Reprog/programming		28482-XXXXX	
Cunent part number		284E2-3XXXX	
Current part number Vehicle		284E2-3XXXX 04\$HQAI	
Current part number Veliscle VIIN		284E2-JXXXX OASHQAI SUNFDINJ10U100000	
Current part number Verliscle VIN System		24482-3XXXX QASHQAI SANFDN 150/100000 BCM	_
Current part number Velscle VIN System Deste		2848233XXXX DASHDAI SUNFDNJ100100000 BCM 25407/2911116/30.00	
Current part number Vehicle VIN System Date Intornation		2948233XXX 04584044 53846044 53846044 5604 25407/2011 16:30.00	

Figure 29

- 32. Follow the on-screen instructions to Erase DTCs.
- 33. When the entire reprogramming process is complete, the screen in Figure 30 will display.
- 34. Verify the before and after part numbers are different.
- 35. Print a copy of this screen (Figure 30) and attach it to the repair order for warranty documentation.
- 36. Select **Confirm**.

Back Home Print Screen	Screen Capture Mode	t Recorded Help	← ₩ × 14.3V VI MI	-
Re/programming, Configuration	Erase All DTCs	Print Result / Operation Complete		18/18
Print Result / Operation Complete				
All tasks are completed. Confirr In case CONSULT can NOT imm temporally storage of this page. Data Folder" on desk top, and op	n LAN access, touch "f lediately access to LAN Touch "Screen Capture cen the folder named "S	Print" to print out this page. or printer, Screen Capture func e", and save it. Screen capture icreenImages".	ction is available for data is in "CIII plus	
Part number after Reprog/programming	Step	23710-1 HEX LE SEX X		
Part number before Reprog/programming	34	23710- 14502E XX		
Vehicle		XXXXXXXX		- I
VIN		X X M XAZADKKAMAGO X 20	KOX X	
System		ENGINE	Step	Print
Date		XXXXXXXXXXXXXXXXXX	axxx 35	
			1/1 Step	Confirm

Figure 30

Write Saved Data

37. Return to the C-III plus Home screen (see Figure 31).

38. Confirm the ignition is ON, with engine OFF.

39. Confirm the plus VI is recognized.

• The Serial No. will display when the plus VI is recognized.

40. Select Diagnosis (One System).

	Back Horrie Prin	tt Screen Capture Mode	Recorded Reip 11.8V VI MI	
Step 39: plus VI is recognized	Serial No. VI 2300727 MI -	Status	Diagnosis (One System)	Step 40
	Select VI/N	No connection	Re/programming, Configuration	
	Application Setting Sub mode	Language Setting	Maintenance	
		Fig	gure 31	

41. Navigate C-III plus to ENGINE, and then to Work support (see Figure 32).

42. Select WRITE SAVED DATA.

43. Select Start.

Ver.USP31.10	States
Back Home Print Screen Capture Mode	Rep ERT 12.3V VI MI
Diagnosis (One System) System Selection E	NGINE Step
Self Diagnostic Data Monitor	upport 41 ECU Identification
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	Step
WRITE SAVED DATA	43 43
RTCV actuator calibrate	
	1/1 Start
	Figure 32

44. Make sure the ignition is ON and the engine is OFF (engine not running).

45. Select Confirm.

Ver.CSP31.10			Sta	tes
Back Reme Print Screen	reen pture Mode Recorded Data	Help ERT 12.3V	VI MI	
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 reprogrammin lata so that it can automatical tering the data varies. Never in omputer.	ig the computer. ly be reloaded into the co terrupt the procedure.Valio	mputer. date in	Confirm
			0%	45
				End

Figure 33

46. Wait for the procedure to complete.

		States
Image: Back Image: Back <th>il × I 11 MI</th> <th></th>	il × I 11 MI	
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. e in	Confirm
Current status COMMAND IN P	ROGRESS	
	25%	
		End

Figure 34

47. Select End.



Figure 35

48. Close C-III plus.

49. Turn the ignition OFF.

50. Disconnect the plus VI from the vehicle.

51. 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.

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
GRILLE ASSY-COWL TOP (Cowl Cover Assembly)	66810-EZ10B	1
GRILLE-COWL TOP (Cowl Cover Extension)	66812-EZ01B	1
EXTENSION-COWL TOP SIDE RH (Baffle)	66316-EZ00A	1
Foam Block	27288-EZ00A	1

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Install Cowl Assembly MY16 Only Built Before January 9, 2016	66810-EZ10B	UE24AA	ZE	32	(1)

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

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.