

Reference:

Classification:

AT14-014b

NTB15-014b

Date: April 5, 2016

ENHANCED DIAGNOSTIC LOGIC FOR CVT JUDDER

This bulletin has been amended. Table A on page 5 and the APPLIED VEHICLES and APPLIED VIN & DATE sections have been revised. Please discard previous versions of this bulletin.

APPLIED	2013-2015 Pathfinder (R52) with V6 engine only
VEHICLES:	2013-2015 Altima Sedan (L33) with V6 engine only 2015 Quest (E52) 2015 Murano (Z52) 2016 Maxima (A36)
APPLIED VIN & DATE:	2013-2014 Pathfinder: All VINs and Dates 2015 Pathfinder: AWD - Built <u>before</u> 5N1AR2 M (**)FC 663 6 17 / April 14, 2015 2WD - Built <u>before</u> 5N1AR2 N (**)FC 663 7 17 / April 14, 2015 2013-2015 Altima: All VINs and Dates 2015 Quest: Built <u>before</u> JN8AE2K(**)F9 132672 / July 9, 2015 2015 Murano: Built <u>before</u> 5N1AZ2M(**)FN 229612 / April 10, 2015 2016 Maxima: Built <u>before</u> 1N4AA6AP(*)GC 380445 / May 28, 2015

IF YOU CONFIRM

The customer reports a transmission judder (shake, shudder, single or multiple bumps or vibration).

NOTE: A new diagnostic logic has been established to enhance the diagnostic process by storing diagnostic trouble codes (DTCs) on Applied Vehicles.

The new DTCs are:

P17F1 (CVT_JUDDER [C/U INSPECTION]) P17F0 (CVT_JUDDER [T/M INSPECTION])

ACTION

1. Refer to page 4, step 6 in the SERVICE PROCEDURE to confirm this bulletin applies to the vehicle you are working on.

NOTE: The current TCM Part Numbers in this bulletin have been updated. The vehicle you are working on may require reprogramming per this bulletin again.

2. If this bulletin applies, reprogram the **TCM** (Transmission Control Module).

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

NOTE:

- Most 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 Reprogramming" general procedure.

CAUTION:

- Connect the GR8 to the vehicle battery set to "power supply" mode. If the vehicle battery voltage drops below <u>12.0V or rises above 15.5V</u> during reprogramming, <u>the TCM may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads.
 If a vehicle electrical load remains ON, <u>the TCM 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 TCM may be damaged</u>.
- Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth[®] signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and <u>the TCM may be damaged</u>.

- 1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
- 2. Start C-III plus.
- 3. Wait for the plus VI to be recognized.
 - The serial number will display when the plus VI is recognized.

4. Select Re/programming, Configuration.

	Back Home Print Screen Capture Mode		
	Connection Status	Diagnosis Menu	
	Serial No. Status	Diagnosis (One System)	
VI is recognized	VI 2300727 Normal Mode/Wireless connection	Diagnosis (All Systems)	
	No connection	Re/programming, Configuration	∍p
	Select VI/MI	Immobilizer	
	Application Setting		
	Sub mode	Maintenance	
	VDR		

Figure 1

5. Follow the on-screen instructions and navigate the 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 TCM **Part Number** and write it on the repair order.

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

CONSULT-III plus Ver VIN	Vehicle :	Country : U.S.A.
Back Rome Print Screen Capture	Messurement Mode	
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 operation after operation has completely finished.	e current part number as listed below to CONSUI n by selecting suitable operation log. Operation lo	T. g is erased
File Label	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Operation	REPROGRAMMING	
System 6A: <u>Current</u> TCN	TRANSMISSION	
Part Number	31036 -	
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 TCM Part Number** column in **Table A** on the next page.
 - If there is a <u>match</u>, this reprogramming <u>applies</u>. Continue with the reprogramming procedure.
 - If there is <u>not a match</u>, this bulletin does not apply.

Table A

Model	Model Year	Current TCM Part Number Before Reprogramming: 31036 -		
Pathfinder with V6 engine	2013	3KD2A 3KD4A, 3KD4B, 3KD4C, 3KD4D, 3KD4E 3KD5A, 3KD5B 3KA2A 3KA4A, 3KA4B, 3KA4C, 3KA4D, 3KA4E 3KA5A, 3KA5B 3KA6A, 3KA6B		
engine	2014	9PA3A, 9PA3B, 9PA3C, 9PA3D 9PA5D, 9PA5E 9PA7A, 9PA7B, 9PA7C, 9PA7D		
	2015	9PB0A, 9PB0B, 9PB0E		
Altima with V6	2013	3NT0A 3TA6A, 3TA6B 3TA9E 3TM0A, 3TM0D, 3TM0E 3TM1A, 3TM1D, 3TM1E		
engine	2014	9HM2A, 9HM5A 9HM5B, 9HM5C		
	2015	9HP0A, 9HP0B		
Murano	2015	5AA0A, 5AA0D, 5AA0E 5AA2A		
Quest	2015	4AY0A		
Maxima	2016	4RA0A		

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

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. This bulletin does not apply.

💽 CONSULT-III plus Ver.	VIN:	Vehicle :		Country : U.S.A.
Back Home Prin	t Screen Capture Mode	t 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/progran reprog/programming data	rog/programming data listed nming data is listed below, co in CONSULT.	below. Infirm the vehicle selection, VIN	and	
System	TRANSMISSION			
Current Part Number	Part Number After R	epro/programming	Other Information	
xxxxxxxxxxxxxxx	xxxxxxx-xxxxxxx	0000000	000000000000000000000000000000000000000	
XXXXXXX-XXXXXXX	XXXXXX-XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	000000000000000000000000000000000000000	
				Next
			010	

Figure 3

IMPORTANT: If C-III plus locks up or freezes at this point or displays "cannot complete reprogramming, the CONSULT PC is set up with User Rights. Reprogramming can be completed with Administrator log in", the TOUGHBOOK settings need to be changed so that Users have full access rights. See your Dealership's IT System Administrator for details.

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

NOTE: If the screen in Figure 4 does <u>not</u> display (indicating that reprogramming did not complete), refer to the information on the next page.

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



Figure 4

NOTE:

- In the next step (page 9), you will perform **Erase All DTCs**.
- DTC erase is required before C-III plus will provide the final reprogramming confirmation report.

TCM Recovery:

Do not disconnect 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</u> on first attempt and can be selected more than once.

CONSULT-II plus Ver	VN	Unticle		Ecurity : Jecen
Back Bane Print Screen	treat	Securities Data	12.3V VI	× = _ X
resprograming, (Transfer Data	Confirm Resul		1313
confirm Result				
Reprogramming or progamming is not operation on this ECU. Touch "Retry" to retry reprogramming o	completed propertly, bi ir programming.	ut you can retry reprog	/programming	
Part number after			-	
Reprogramming			-	
Reprog/programming Part number before Reprog/programming			(H	
Reprog/programming Part number before Reprog/programming Vehicle		nzakat-akat	•	
Reproprogramming Part number before Beproprogramming Vehicle VIN		READE NOT	01 00000	
Reprog/programming Part number before Reprog/programming Vehicle VIN System		EURODAN EURODAN SUNFONJ10UM		
Reprogregamming Part number before Reprogregamming Vehicle VIN System Date Vehicle Date System		20468-400 0,46100 SJNFDNJ10U3 0,07201116/3 26/07/201116/3	00000 00000	Betry
Repropipsonamming Part number Sebre Beyrogipsonamming Vehicle VIN System Dete Error Code		26/07/2011 16/	0 00000 0000	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 DUS VIE	VIN	Vehicle : QASHQAI		County : Japan
Back Hone Print Screer	Esseen Esseen	Reported Help ex	N VI M	🔀
Belprogramisg.	Transfer Data	Confirm Result		9/9
Confirm Result				
Reprogramming is not completed pr -Print this screen as needed. Confin with precedure. -Restart CONSULT with disconnect	operly. n CONSULT version, IG ng VI onse, and start the	WPower switch position, shift por a reprogramming again.	silion and etc	
Part number after Reprog/programming		20402-00000		
Current part number		204020C000R		
Vehicle		II 6/6HD/II I		
VIN		SJNFDNJ10U100000		
System				
Date		25/07/2011 16:30:00		
Information				
Error Code				Print

Figure 6

- 11. Follow the on-screen instructions to **Erase All 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.

CONSULT-III plus Ver VIN:	Vehicle :	Country : U.S.A.
Back Home Print Screen Capture	Messurement Mode Recorded Data	🕞 🤐 🗙 🖿 🔜 🔀
Re/programming, Configuration	se All DTCs Print Result / Operation Complete	18/18
Print Result / Operation Complete		
All tasks are completed. Confirm LAN acce In case CONSULT can NOT immediately ac temporally storage of this page. Touch "Sci Data Folder" on desk top, and open the fold	ss, touch "Print" to print out this page. cess to LAN or printer, Screen Capture function een Capture", and save it. Screen capture data er named "ScreenImages".	h is available for is in "CIII plus
Part number after Reprog/programming	tep 31036	
Reprog/programming	31036	
Vehicle	*****	
VIN	******	
System	TRANSMISSION	Step Print
Date	11/3/201× 2:10:21 AM	
	1/	Step 1 15 Confirm

Figure 7

- 16. Close C-III plus.
- 17. Turn the ignition OFF.
- 18. Disconnect the plus VI from the vehicle.

NOTE: The Information below is provided as Service Information and is not part of the Service Procedure in this bulletin.

DTC detection drive pattern for P17F0 / P17F1

- This new diagnostic logic will monitor conditions in the CVT while the customer is operating their vehicle in their usual daily drive patterns.
- Figure 8, on the next page, illustrate conditions under which judder can be reproduced.
- Specific drive conditions that can be used to test for judder (shake, shudder, single or multiple bumps or vibration) are:
- 1. Slowly accelerate from a stop (zero mph), applying only slight accelerator pedal **(0% 10% throttle opening)** until 40 mph is reached.
 - During acceleration, torque converter engagement (full lock up) can occur between 20-35 mph.
- 2. Prior to torque converter lock up, slowly modulate accelerator pedal:
 - A. Decrease accelerator pedal pressure slowly, approaching a closed throttle position.
 - B. Smoothly and slowly reapply accelerator pedal pressure back to approximately 10% throttle opening.

IMPORTANT:

- Slight grade (climbing hill) may aid in performing the above drive conditions.
- DTC detection logic will require three events before storing a DTC.

Figure 8 below illustrates conditions under which judder can be reproduced.



Figure 8

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Transmission Control Module	(1)	JE99AA	ZE	32	(2)

(1) Refer to FAST and use the Transmission Control Module part number (31036-XXXXX) as the PFP.

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated Flat Rate Time.