

SERVICE BULLETIN

AT14-003b

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May 10, 2016

Date:

NISSAN; PROGRAMMING BLANK TCM

This bulletin has been amended. The Applied Vehicles have been updated and information/steps for obtaining a TCM software part number have been changed. Please discard all previous versions of this bulletin.

APPLIED VEHICLES:	2004-2015 Titan (A60) 2004-2015 Armada (TA60) 2005-2016 Frontier (D40) 2005-2015 Xterra (N50)	2005-2012 Pathfinder (R51) 2012-2016 NV (F80) 2003-2008 350Z (Z33) 2004-2009 350Z Roadster (Z33)
APPLIED TRANSMISSION	RWD 5 speed A/T	

SERVICE INFORMATION

Replacement 5-speed rear wheel drive Automatic Transmission (A/T) assemblies and replacement control valves (valve bodies) now come with "blank" Transmission Control Modules (TCMs).

Blank TCMs come <u>without</u> software and must be programmed (not <u>reprogrammed</u>) and then configured after they are installed.

When ordering a replacement A/T or control valve, use the Nissan electronic parts information systems to obtain the correct software program part number

This bulletin contains details for:

- Saving and copying information from the old (current) TCM and applying it to the new (replacement) A/T assembly or valve body blank TCM
- Obtaining and installing program information into the new A/T assembly or valve body blank TCM when it cannot be copied from the old TCM

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.

Blank TCM Programming Procedure (summary)

Below is a summary of the steps for blank TCM programming. For details, go to page 3.

NOTE: Erase any stored DTCs and perform DTC related repairs before starting the programming procedure in this bulletin. Refer to ASIST and the ESM as needed.

For vehicles where the old/current TCM <u>can</u> be accessed (TCM P/N can be read) with C-III plus:

- a. Connect and launch C-III plus:
 - > From the C-III plus home page, Select **Re/Programming, Configuration**.
 - Proceed to Re/programming.
 - > Select **Programming** (not reprogramming).
- b. Select Before Replace ECU.
- c. Save the current TCM P/N and Vehicle Identification Number (VIN).
- d. Replace the 5-speed rear wheel drive A/T assembly or control valve with a new one that contains a blank TCM.
- e. Select vehicle model and year, and then select Confirm.
- f. Select After Replace ECU.
- g. Select Start (to begin programming).
- h. Once programming has completed, configure the new TCM and erase DTCs.
- i. Close C-III plus.

For vehicles where the old/current TCM <u>cannot</u> be accessed (TCM P/N cannot be read) with C-III plus:

- a. Replace the 5-speed rear wheel drive A/T assembly or control valve with a new one that contains a blank TCM.
- b. Use the Nissan electronic parts information systems to obtain the correct software program part number.
- c. Connect C-III plus, navigate to the screen that shows the selection **Programming**, and then select **Programming**.
- d. Select After Replace ECU.
- e. Select the P/N from the list that matches the one obtained from the electronic parts information systems.
 - > <u>Double-check and make sure</u> the correct P/N has been selected.
- f. Select Start (to begin programming).
- g. Once programming has completed, configure the new TCM and erase DTCs.
- h. Close C-III plus.

Blank TCM Programming Procedure (details)

NOTE:

- <u>Always</u> enter the VIN into the electronic parts catalog (FAST or equivalent), when ordering (looking up) a replacement A/T assembly or control valve.
- Do not replace/install the new A/T or control valve, with blank TCM, until told to do so in the SERVICE PROCEDURE.

Can the old TCM (the one that will be replaced) be accessed with C-III plus?

NOTE: To determine if the old TCM can be accessed with C-III plus: Select **Diagnosis (One System) > Transmission**, and then read the TCM P/N. Can the TCM P/N be accessed and read?

YES – go to **PROGRAM BLANK TCM** (when old TCM is accessible with C-III plus) on the **next page**.

If the vehicle's old/current TCM can be accessed with C-III plus, its current internal P/N can be saved and then applied to the new blank TCM.

NO – go to <u>PROGRAM BLANK TCM</u> (when old TCM is NOT accessible with C-III plus) on page 22.

If the old/current TCM <u>cannot</u> be accessed with C-III plus, the software program P/N to be programmed into the blank TCM will need to be determined by using the Nissan electronic parts information systems.

SERVICE PROCEDURE

PROGRAM BLANK TCM (when old TCM is accessible with C-III plus)

NOTE:

- Do not remove the old A/T or control valve until told to do so in the SERVICE PROCEDURE.
- Use this procedure if the vehicle's old/current TCM <u>can be</u> accessed with C-III plus.

IMPORTANT: Before starting the program procedure, make sure:

- ASIST on the CONSULT PC has been freshly synchronized (updated).
- All C-III plus software updates (if any) have been installed.

NOTE: The CONSULT PC automatically gets applicable TCM programming data during ASIST synchronization.

• A screen print for Warranty documentation can be done from the CONSULT PC during this process while still connected to the vehicle.

NOTE: After programming is complete, you will be required to perform write configuration and DTC erase.

- 1. Connect the C-III plus Vehicle Interface (plus VI) to the vehicle.
 - Make sure to use the correct VI for C-III plus (plus VI).

CAUTION: Make sure the plus VI is securely connected to the DLC. If the plus VI connection is loose during programming, the process will be interrupted and the **TCM may be damaged.**

2. Connect the AC Adapter to the CONSULT PC.

CAUTION: Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during programming, the process will be interrupted and the **TCM may be damaged**.

3. Connect a battery charger to the vehicle battery:

• GR-8 (Battery and Electrical Diagnostic Station) set to ECM power supply.

CAUTION: Be sure the battery charger is connected securely to the battery. Make sure the battery voltage stays between <u>12.0V and 15.5V</u> during programming. If the battery voltage goes out of this range during programming, the **TCM may be damaged**.

4. Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI.

CAUTION: Make sure to turn OFF all external Bluetooth[®] devices. If Bluetooth[®] signal waves are within range of the CONSULT PC and the plus VI during programming, programming may be interrupted and the **TCM may be damaged**.

- 5. Turn the ignition ON (engine OFF).
 - The engine must not start or run during the programming procedure.
- 6. Turn OFF all vehicle electrical loads such as exterior lights, interior lights, HVAC, blower fan, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc.

IMPORTANT: Make sure to turn OFF all vehicle electrical loads. Make sure the battery voltage stays between <u>12.0V and 15.5V</u> during programming. If the battery voltage goes out of this range during programming, the **TCM may be damaged**.

- 7. Open / start C-III plus.
 - You will be accessing the vehicle's old TCM.

NOTE: All C-III plus screens throughout this bulletin are examples. Actual C-III plus screens on your CONSULT PC may vary slightly.

- 8. Wait for the plus VI to be recognized.
 - The serial number will display when the plus VI is recognized.

	CONSU	LT-III plus ver.v12	.12.00 VIN:-	venicie : -	Country : U.S.A.
	Back	Home Print S	Screen Capture Mode	Recorded Help 11.8V VI N	K 💻 🥅 🔀
	Connec	ction Status -		Diagnosis Menu	
Stop 9:		Sorial No.	Statue	Diagnosis (One Sys	stem)
plus VI is	> vi	2300727			
recognized			Normal Mode/Wireless connection	Diagnosis (All Syste	ems)
	мі		\otimes		
			No connection	Re/programming, C	onfiguration
		Select VI/MI			
	MI - No connection No connection Select VI/MI Application Setting				
	SUB 9	Sub mode	Language Setting	Maintenance	
		VDR			

Figure 1

9. Select Re/programming, Configuration.

Back	Home Print	Screen Capture	Recorded Data
Connee	ction Status -		Diagnosis Menu
	Serial No.	Status	Diagnosis (One System)
VI	2300727	► >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Diagnosis (All Systems)
м	-	No connection	Re/programming, Configuration
8	Select VI/M	1	J Immobilizer
	tion Setting	Language Setting	Maintenance
	VDR		

Figure 2

- 10. Use arrows (if needed) to view and read all precautions.
- 11. Check the box confirming the precautions have been read.

NOTE: The box cannot be checked until all precautions in step 10 have been viewed and read.

12. Select Next.



13. Select Nissan, Vehicle Name, Model Year, and then Select.

• If the screen in Figure 4 does not display, skip to step 14.



14. Make sure VIN or Chassis # matches the vehicle's VIN.

15. If the correct VIN is displayed, select **Confirm**.



Figure 5

16. Select Confirm.



Figure 6

17. Select TRANSMISSION.

Back Print Screen Screen Configuration System Selection Touch "system". In case ECU you want to operate is not list	Input VIN	Operation Selection	
ENGINE	METER/M&A	HVAC	
MULTI AV	ВСМ	TRANSMISSION	Step 17
ABS	CAN GATEWAY		
IPDM E/R	EV/HEV		
HEAD LAMP LEVELIZER	AIR BAG		
		1/1	

Figure 7

NOTE: If the old TCM <u>cannot</u> be accessed with C-III plus, go to page 22, <u>Program Blank ECM</u> (When ECM is NOT Accessible With C-III plus).

18. Select **Programming**. <u>Do not</u> select **Reprogramming**.



Figure 8

• If the screen in Figure 9 appears, select Next.



Figure 9

19. Select Before Replace ECU.



20. Select Save.

Ver.CSP16.11		Common
Back Home Print Screen Capture	Measurement Recorded Help 12.5V VI MI	
Configuration	Ifirmation of Save ECU Data	9/9
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 CONSULT. n by selecting suitable operation log. Operation log is erased	
File Label	TA60	
Operation	Programming (Blank ECU)	
System	TRANSMISSION	
Part Number	31020-XXXXX	
Vehicle	TA60 ARMADA	
VIN	TA60	
Date	2014/01/13 19:05:20	Save
		Jave
L		

Figure 11

21. Select Next.

Ver.CSP16.11		Common
Back Home Print Screen	Messurement Mode Data Control Help 12.5V VI MI	
Configuration	firmation of place ECU	9/9
Save ECU Data		
Operation log and ECU data (Some of ECU r "Next" and replace ECU. After replacement of ECU, operation can st	need to be saved, not all) have been saved to CONSULT. Touch art from suitable operation by selecting this operation log.	
File Label	TA60	
Operation	Programming (Blank ECU)	
System	TRANSMISSION	
Part Number	31020-XXXXX	
Vehicle	TA60ARMADA(4WD)	
VIN	TA60	
Date	2014/01/13 19:05:35	Next Step

Figure 12

22. Make sure the VIN in the **Saved Data List** (Figure 13) matches the vehicle's VIN.

• If the VIN <u>is not</u> correct, select **Delete**, and then start over from the C-III plus Home screen.

23. If the VIN is correct, select **Confirm**.

• This step will save the vehicle's existing TCM information.

	Back Re/programming.	Screen Capture Vehicle Confirmation	Operation Log		
	Operation Log Selection		Selection		
	CONSULT has the saved data rela In case you want to write the save data list (left side), and confirm the want to do other operation, touch "	ited re/programming and co data from CONSULT to vehi detail (right side). If the det Other Operation''.	nfiguration. cle ECU, touch and select the data in Save all is OK, and touch "Confirm". In case you		
Stop	Saved Data List	Saved Data Detail			
22	5N1AA0NC9ANXXXXXX	Operation	Programming (Blank ECU)		
		System	TRANSMISSION		
		Part Number	31020-XXXXX		
		Vehicle	350Z	Delete	
		VIN	5N1AA0NC9AN XXXXXX	Other	
		Saved Date	13/1/2014 7:06 PM	Operation	
	1/1		1/1	Confirm	Step 23

Figure 13

24. After **Confirm** is selected in step 23, the screen in Figure 14 will display. Select **Home**.

	Re/pro omi	ng.	Syste	Mode Mode	Operati	on Selection	12.9V VI	мі	
ation uch " ase o	Step 24	rent ECU, to	ouch "Rep t an operat	rogramming" ion in REPLA	CE ECU cat	egory.			
PRO	GRAMMIN Reprog	ic Johnning	In	case you wa	nt to reprogr	amming ECU,	touch "Reprogr	amming"	
plac	ement OF mming (Blan)	ECU KECU)							
	Progr	amming	B	efore replace fter replace E	ECU, ECU (CU, CONSUI	e ECU, you sh data is saved t LT writes ECU	ould operate to o CONSULT. data and progra	inowings.	ata.
FUIAI	E CONFIGU	RATION			\frown		case you has a	lready re	placed ECU,

Figure 14

25. Replace the old A/T assembly or control valve with a new one (with blank TCM) now:

- Refer to the appropriate section in the ESM for A/T or control valve removal and installation.
- If the CONSULT PC is removed from the vehicle for any reason, make sure the saved data is not erased.

26. After the A/T or control valve has been replaced:

- a. Open / start C-III plus.
- b. Make sure the ignition is ON (engine OFF).
 - The engine must not start during the programming procedure.
- c. Make sure the GR8 / battery charger is connected.

NOTE: All C-III plus screens throughout this bulletin are examples. Actual C-III plus screens on your CONSULT PC may vary slightly.

27. Wait for the plus VI to be recognized.

• The serial number will display when the plus VI is recognized.

	CONSC	u⊑ i -ili pius i ver.v i∠.	12.00 VIN:-			venicie : -			6	ountry : U.S.A.
	Back	Home Print S	screen Capture	Measurement Mode	Recorded Data	d Pelp	11.8V	Yil vi	MI	•
	Image: Consider Supples Very 22,1200 Vite: Vite: Vite: Control of the second with the second withe second withe second with the second with the second with the sec									
		Serial No	Stat	116		📄 Diag	gnosis (O	ne S	(ystem))
plus VI is	vi	2300727	⊳							
recognized		2300727	Normal Mod conne	e/Wireless ction	J	👘 Diag	gnosis (A	ll Sy	stems)	
	мі	-	0)						
			No conr	ection		🎸 🖯 Re/p	orogramn	ning,	Config	guration
	8 14	Soloct V/I/MI						_	_	
	1 P	Select VI/IVII					obilizer			
	Applica	tion Setting								
	SUB	Sub mode		juage Setting		Mai	ntenance	•		
						<u> </u>				
	2	VDR								
					_					

Figure 15

28. Select Re/programming, Configuration.

H Back	Home Print	Screen Capture Mode	corded Help T1.SV VI MI
Connec	ction Status -		Diagnosis Menu
	Serial No.	Status	Diagnosis (One System)
VI	2300727	کرہ ک Normal Mode/Wireless connection	Diagnosis (All Systems)
м	-	No connection	Re/programming, Configuration
8 J	Select VI/M	I	Immobilizer
Applicat	t <mark>ion Setting</mark> Sub mode	Language Setting	Maintenance
	VDR		
1		F !	

Figure 16

- 29. Use arrows (if needed) to view and read all precautions.
- 30. Check the box confirming the precautions have been read.
- 31. Select Next.

	Image: Back Image: Back
	Re/programming, Configuration
	Precaution
	Operating suggestions for reprogramming, programming and C/U configration: Please review the all of precautions, and click the "Confirm" check box after confirming the its points. And touch "Next".
	Caution: 1. Follow the operation guide displayed on screen. 2. "Back" and "Home" button may not be used on this flow.
	1. Install the latest version of the CONSULT-III plus sortware, reprogramming/programming data to this CONSULT-III plus PC. 2. Preparation and read the service manual or reprogramming procedure sheet.
01.000	1. Need to write the configuration data to new ECU, after replace it. 2. If writing the wrong configuration data, ECU can not work. Please write the right data.
Step 30	Configuration using manual mode Confirm the vehicle's spec and its configuration spec, following the service manual. If writing the wrong Configuration data, ECU can not work. Please write the right data. Coperate the saving completely. Do not abort without saving data.
2	Confirmed instructions

Figure 17

32. Select Nissan, Vehicle Name, Model Year, and then Select.

• If the screen in Figure 18 does not display, skip to step 33.

	CONSULT-III plus	Ver.31.21 \	/IN:5N1AA0NC9ANXXX	XXX Vehicle : -		Country : United States	
	Back Home	Print Screen Captu	en Measurement Re	corded Help	7.3V VI MI		
This works, too	Re/programmi Configuratio	ng,	Precaution	Vehicle Selection	Vehicle Step 32		
Stop	Automatic S	election(VIN)	Manual Select	ion(Vehicle Name)			
	Vehicle Name :				Model Year :	Sales Channel	
32	^MURANO Camp:P8201	FRONTIER	PATHFINDER	VERSA Sedan	2013	NISSAN	
	350Z	JUKE	PATHFINDER ARMADA	XTERRA	2012	INFINITI	
	370Z	LEAF	PATHFINDER Hybrid	X-TRAIL	2011		
	370Z Convertible	MAXIMA	QUEST		2010		
	ALTIMA coupe	MURANO	ROGUE		2009		
	ALTIMA Hybrid	MURANO Cross Cabriolet	SENTRA		2008		
	ALTIMA sedan	NISSAN GT-R	TITAN		2007		
	ARMADA	NV	VERSA Hatchback		2006	CLEAR	
	CUBE	NV200	VERSA NOTE		2005	Salaat	Ste
			1				32
			E au				

Figure 18

- 33. Make sure VIN or Chassis # matches the vehicle's VIN.
- 34. If the correct VIN is displayed, select **Confirm**.

	Back Imme Print Screen Screen With Screen Configuration Vehi	Messerent Mode Wehicle Confirmation Wehicle Confirmation which "Confirm". In case you want to select another vehicle,	
Step	VIN or Chassis #	5N1AA0NC9ANXXXXXX	
	Vehicle Name :	ARMADA	
	Model Year	2010	
		1/1	
			Change
			Confirm Step 34

Figure 19

35. Select Confirm.

NOTE: If there is only one data file saved on C-III plus, it will automatically be selected. If there is more than one, select the data file for your vehicle, and then select **Confirm**.

3	Re/programming		Vehicle Confirmation	Operation Log Selection						
Ope	ration Log Selection	<u></u> ו								
CO In dat wa	NSULT has the sa case you want to w a list (left side), and nt to do other opera	ved data relat rite the save d d confirm the ation, touch "C	ted re/programming and c lata from CONSULT to veh detail (right side). If the det other Operation''.	onfiguration. icle ECU, touch and select the data in Save ail is OK, and touch "Confirm". In case you						
Sav	ed Data List		Saved Data Detail							
ге 📂	5N1AA0NC9AN	xxxxxx	Operation	Programming (Blank ECU)						
			System	TRANSMISSION						
			Part Number	32010-XXXXX						
			Vehicle	Delete						
			VIN	5N1AA0NC9ANXXXXX	Other					
			Saved Date	13/1/2014 7:06 PM	Operation					

36. Select After Replace ECU.



Figure 21

- 37. Use arrows to view and read all precautions.
- 38. Check the box confirming the precautions have been read.
- 39. Select Next.

	CONSOL 1-11 plus ver. v 13. 12.00	VIN. JIN IAZ4LI IXANIJO IZ04	Venicle : 3702 234 2010	Country . O.S.A.	
	Back Home Print Screen	Screen Capture	Image: Weight of the second	' 🗙 🖿 🔜 🔀	
ç	Re/programming, Configuration	Save ECU Data	Select Progra	m Data]
[Precaution]
	Operating suggestions: If the reprogramming/programmir usable. Please review the all of precautio	g is unsuccessful, ECU software m ns, and click the "Confirm" check b	ay be damaged and ECU is no	longer :s.	
	4. DO NOT set the A/C timer or A	/C remote control system.			
	<during reprogramming=""> Never touch the CONSULT-III plu Never depress the brake pedal o Never open each door or trunk rice</during>	is components to prevent cable di r turn the steering wheel.	sconnection.		
Step			St	ep 87	
38					
				Next	Step
	Confirmed instruction	5	2/2		39
<u>.</u>		Figure	22		-

40. Select Next.

CONSULT IN place Var 32:11		Alerty - North Parks Canwan
Name Barnet Barnet Barnet		- 🔀
So laganta	Tresadan Select Program Data Castles Unitale Condition	7.6
act Program Data		
elect the ROM Data ID lated below an interconding ID can be searched by a b is denady indicated in the box, error from corresponding ROM Data ID is no ata) may not exist in CONSLUT.	I fouch "Next". Itemp the ROM Data ID into the tox below. If a part of ROM Data the remaining part. Itelated, system may be selected incorrectly or ROM Data (program.	
Bank ECU Pat Number	31020-	after a
ECO Curu IS	Oter Microsofter	
21000-CL40A	SEL_MANY_ACTICE_ATA_AND	
		Cear Next Ste

Figure 23

41. Select Next.

💽 CONSULT-III plus Ver.31.21 V	IN:5N1AA0NC9AN607969	Vehicle : ARMAD	A TA60 2010		Country : United States				
Back Home Print Screen	Measurement Mode Recorded Data	() Help	11.7V VI	Х					
Re/programming, Configuration	Precaution Select I	Program Data	Confirm Vehi Condition	cle	10/12				
Select Program Data									
Confirm the detail listed below, and touch "Next" if OK. -In case the screen to select reprog/programming data is NOT displayed, only one data is available for this vehicle. -In case the part number after reprogramming is wrong, touch "Re-select", and confirm the vehicle selection, VIN and reprog/programming data in CONSULT.									
Part Number After Repro/programming	3	2010-XXXXX							
Current Part Number	3	2010-XXXXX							
Vehicle		ARMADA							
VIN	5N1	AA0NC9ANXXXX	хх						
System	т	RANSMISSION							
Expected time to finish re/programming		25min			Re-select				
					Next	St 4	er 1		

Figure 24

42. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).

43. Select Next.

IMPORTANT: Optimum battery voltage operating range for programming is 12.0-13.5V. Battery voltage must stay between **12.0 and 15.5 Volts** during programming or TCM programming may be interrupted and the <u>TCM may be damaged</u>.

Back Image Image	
Operate according to the following procedures.	Monitor battery voltage here
2 Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and 13.5V. The vehicle battery voltage is shown on the top-right of this screen	
3 Confirm the RESULT is OK, touch "Next".	
Result OK	Next Step 43
Figure 25	

NOTE: In the next step, the programming process will begin when Start is selected.

CAUTION: DO NOT stop programming after selecting "Start". Doing so may damage the TCM. Allow programming to complete.

44. Select Start.

Back Re/programming, Configuration	Screen Capture Select Progra	Aurement Recorde Recorde Data	ed Pelp Help Confirm Vehicle Condition	Isav Mi	
Confirm Vehicle Condition Confirm the vehicle condition as lit Then, confirm that judgment for all i out of range, reprogramming or prog	sted below, set items indicate gramming may	t the vehicle co OK, and touch ' stop.	ndition correctly. "Start". In case the veh	icle cond	nitor battery Itage here
Monitor Boon	Volue	-	kolamont	Condition	
BATTERY VOLTAGE	13.2	V	OK	Condition	
				1/1	Step 44 Start

Figure 26

45. Wait for both progress bars to complete.



Figure 27

46. When the screen in Figure 28 displays, programming is complete.

NOTE: If the screen in Figure 28 does <u>not</u> display (indicating that programming did <u>not</u> complete), refer to the information on the next page.

47. Disconnect the GR8 / battery charger from the vehicle.

48. Select Next.

	50ET-11 plus - ver. v 10.12.00		001204 4	emore . 0/02-20	- 2010		oounuy . 0.5.A.		
H Back	Home Print Screen	Screen Capture	Recorded Data	() Help	12.8V VI	X I MI			
\$ 0	Re/programming, Configuration	Transfer Data	Confirm F	Result			12/12		
Confirm I	Result								
Reprog	ramming or programmin 'Next'' to continue operat	ig is completed. ion.	6.0	0					
							Next		Step 48
								Ľ	
		Fi	gure 2	8					

NOTE: Completing write configuration and erasing DTCs are required before C-III plus will provide the final programming confirmation report:

Go to, "After Programming has Completed: Write Configuration and Erase DTCs" on page 34.

If programming does <u>not</u> complete and the "!?" symbol displays as shown in Figure 29:

- Check battery voltage (12.0 15.5V).
- The ignition is ON and the engine is OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>Retry</u> and follow the on screen instructions.

NOTE: Retry may not go through on the first attempt. It can be selected more than once.

Back Back Print Screen Screen Capture	Measurement Recorded Data	-							
Configuration	Insfer Data Confirm Result	9/9							
Confirm Result	Confirm Result								
Reprogramming or programming is not completed properly, but you can retry reprog/programming operation on this ECU. Touch "Retry" to retry reprogramming or programming.									
Part number after Reprog/programming	£36100 = = = = = = =								
Current Part Number	293BQ								
Vehicle	∎ZŒOL,₿/4F1								
VIN	ulini 14.20 G R _K G Texasaka								
System	TEL FALATICE								
Date	1/26/20 xx 4:34:55 PM	Retry							
Other Information	6.26=>6.27								
Error Code	RNDS_CAN_ALL_SC003-5=NR	Print							
L									

Figure 29

If programming does <u>not</u> complete and the "X" symbol displays as shown in Figure 30:

- Do not disconnect the plus VI or shut down C-III plus if reprogramming does not complete.
- Check battery voltage (12.0 15.5V).
- The CONSULT A/C adapter is plugged in.
- The ignition is ON and the engine is OFF.
- The transmission is in Park.
- All C-III plus / plus VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and then restart the program procedure from the beginning.

CONSULT-III plus Ver.V14.21.00 VIN:	· Vehicle : -	Country : U.S.A.						
Back Borne Print Screen Capture	Measurement Mode Data Data	× 🗭 📃 🔀						
Re/programming, Configuration	nsfer Data	2/2						
Confirm Result								
Reprogramming or programming is not completed properly. ECU has been broken, and impossible to reuse anymore. Touch "Home" to back to Home Screen, replace ECU with Service Manual.								
Part number after Reprog/programming	£262 BOn-= = = =							
Current Part Number)28B0======							
Vehicle	(CEO) IN EIA III							
VIN	JAN AZB OP 果日町 果x果x果 J							
System	XECHNOXICHCX							
Date								
Other Information	6.26=>6.27							
Error Code		Print						

Figure 30

PROGRAM BLANK TCM (When TCM is NOT Accessible With C-III plus)

NOTE: Use this procedure if the vehicle's old/current TCM <u>cannot be accessed</u> with CONSULT-III plus.

IMPORTANT: Before starting the program procedure, make sure:

- ASIST on the CONSULT PC has been freshly synchronized (updated to the current date).
- All C-III plus software updates (if any) have been installed.

NOTE: The CONSULT PC automatically gets applicable TCM programming data during ASIST synchronization.

• A screen print for Warranty documentation can be done from the CONSULT PC during this process while still connected to the vehicle.

NOTE: After programming is complete, you will be required to perform "write configuration" and "DTC erase".

1. Install the new A/T assembly or Control Valve Assembly (valve body) now.

- Refer to the appropriate Service Manual for Transmission or Valve Body replacement information.
- 2. Use Nissan electronic parts information systems to obtain the correct <u>software program</u> <u>part number</u>.
 - Write the software part number on the repair order.

NOTE: If needed, instructions for using the Nissan electronic parts information systems to obtain the correct software program part number can be found in ASIST under: TECH LINE Support > TECH LINE Method to identify blank TCM part number.

- 3. Connect the C-III plus Vehicle Interface (plus VI) to the vehicle.
 - Make sure to use the correct VI for C-III plus (plus VI).

CAUTION: Make sure the plus VI is securly connected to the DLC. If the plus VI connection is loose during programming, the process will be interrupted and the **TCM may be damaged.**

4. Connect the AC Adapter to the CONSULT PC.

CAUTION: Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during programming, the process will be interrupted and the **TCM may be damaged**.

- 5. Connect a battery charger to the vehicle battery:
 - GR-8 (Battery and Electrical Diagnostic Station) set to "ECM power supply" mode.

CAUTION: Be sure the battery charger is connected securely to the battery. Make sure the battery voltage stays between <u>12.0V and 15.5V</u> during programming. If the battery voltage goes out of this range during programming, the **TCM may be damaged**.

6. Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and plus VI.

CAUTION: Make sure to turn OFF all external Bluetooth[®] devices. If Bluetooth[®] signal waves are within range of the CONSULT PC and plus VI during programming, programming may be interrupted and the **TCM may be damaged**.

- 7. Turn the ignition ON (engine OFF).
 - The engine must not start or run during the programming procedure.
- 8. Turn OFF all vehicle electrical loads such as exterior lights, interior lights, HVAC, blower, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc.

IMPORTANT: Make sure to turn OFF all vehicle electrical loads. Make sure the battery voltage stays between <u>12.0V and 15.5V</u> during programming. If the battery voltage goes out of this range during programming, the **TCM may be damaged**.

9. Open / start C-III plus.

NOTE: All C-III plus screens throughout this bulletin are examples. Actual C-III plus screens on your CONSULT PC may vary slightly.

- 10. Wait for the plus VI to be recognized.
 - The serial number will display when the plus VI is recognized.

	CONSULT-III plus Ver.V12.12.00 VIN:-	Vehicle : -	Country : U.S.A.			
	Back Home Print Screen Capture Mode R	tecorded Data	× • • • •			
	Connection Status	Diagnosis Menu				
Step 10: plus VI is	VI 2300727 ▷)))	Diagnosis (One Sy	rstem)			
recognized	Normal Mode/Wireless connection	Diagnosis (All Sys	tems)			
	MI - No connection	Re/programming, 0	Configuration			
	Select VI/MI	Immobilizer				
	Application Setting Supplication Setting Supplication Setting	Maintenance				
	VDR]				
	<u> </u>					

Figure 1a

11. Select Re/programming, Configuration.

K	🚮 consu	LT-III plus	Ver.V12.12.00	D VIN:-		Vehicle : -			Country : U.S.A.		
	H Back	Home	Print Screen	Screen Capture	t Recorded Data	() Help	11.8V VI	× MI			
	Conneo	ction St	atus		Diag	gnosis Menu					
		Serial	No.	Status	F	Diagnos	sis (One S	Syste	em)		
						air.	•	-			
	VI	2300	/2/	Normal Mode/Wirele connection	s	🖒 Diagnos	sis (All Sy	/sten	ns)		
					Like						
	IVII	-		No connection		Bolprog	romming	Co	nfiguration		Step
				No connection		° Reprog	ranning	, co			11
	Select VI/MI					Immobilizer					
	Applicat	tion Sett	ting								
	SUB S	Sub mode		ABC Language Set	ing	🖳 Mainten	ance				
		VDR									

Figure 2a

24/35

- 12. Use arrows to view and read <u>all</u> precautions.
- 13. Check the box confirming the precautions have been read.

NOTE: The box cannot be checked until all precautions in step 12 have been viewed and read.

14. Select Next.



Figure 3a

- 15. Select Nissan, Vehicle Name, the correct Model Year, and then Select.
 - If the screen in Figure 4a does not display, skip to step 16.



Figure 4a

25/35

16. If the correct VIN is displayed, select **Confirm**.

	CONSULT-III plus Ver.31.21 VIN: Back Mome Print Screen Screen Configuration Vehi Please confirm selected information and to touch "Change".	SNIAAONCGANXXXXX Vehicle : - Messurement Mode Recorded Bate Vehicle Confirmation Uvehicle Confirmation uch "Confirm". In case you want to select a	7.3V VI MI	Country : United States	
16	VIN or Chassis #	5N1AA0NC9ANXXXX	(X		
	Vehicle Name :	ARMADA			
	Model Year	2010			
			1/1	Change	Step
		Figure 5a			16
		i iguio da			

17. Verify the correct VIN is displayed, and then select **Confirm** again.

• If the VIN is not correct, re-type the VIN and then select **Confirm.**

Ver.(CSP17.10	venicle.	VENSA Sedan INT 2010	country . o.o.a.
Back Borne Pr	rint Screen Capture Mode	Recorded Bata	12.2V VI MI	🗙
Configuration	Vehicle Confirma	tion Input VIN	System Selection	4/6
Input VIN				
Enter the VIN number, a According to this operat CONSULT, VIN number y	nd touch "Confirm". ion, in case of specified oper you input is saved as file nan Confirment (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Confirment) (Co	ation that requires to save E ne. Therefore, confirm VIN no confirm VIN no confirm vin the same confirm vin the sa	CU information into umber correctly.]
VIN (17 or 18 digits)	5N1AA0N9ANX	XXXXX]
			Step 17	Confirm

Figure 6a

18. Select Transmission.

		1111Moon1111012012 Obuntry . 0.5.A.	
Back Home Print Screen Capture	Measurement Mode	11.8V VI MI	
Configuration	Input VIN System Selection	Operation Selection 5/6	
System Selection			
Touch "system". In case ECU you want to operate is not list	ed below, the vehicle or model year might l	be selected wrong.	
ENGINE	METER/M&A	HVAC	
MULTI AV	ВСМ	TRANSMISSION	Step 18
ABS	CAN GATEWAY		
IPDM E/R	EV/HEV		
HEAD LAMP LEVELIZER	AIR BAG		
	~		
		1/1	

Figure 7a

19. Select **Programming**. <u>Do not</u> select **Reprogramming**.



Figure 8a

20. Select Next.



Figure 9a

21. Select After Replace ECU.



- 22. Use arrows (if needed) to view and read all precautions.
- 23. Check the box confirming the precautions have been read.

NOTE: The box cannot be checked until all precautions in step 23 have been viewed and read.

24. Select Next.

	Image: Back Image: Back
	Re/programming, Configuration
	Precaution
	Operating suggestions for reprogramming, programming and C/U configration: Please review the all of precautions, and click the "Confirm" check box after confirming the its points. And touch "Next".
	Caution: 1. Follow the operation guide displayed on screen. 2. "Back" and "Home" button may not be used on this flow. -For reprogramming and programming 1. Install the latest version of the CONSULT-III plus sortware, reprogramming/programming data to this CONSULT-III plus PC. 2. Preparation and read the service manual or reprogramming procedure sheet.
Step 23	-For ECU Configuration 1. Need to write the configuration data to new ECU, after replace it. 2. If writing the wrong configuration data, ECU can not work. Please write the right data. -For ECU Configuration using manual mode 1. Confirm the vehicle's spec and its configuration spec, following the service manual. If writing the wrong configuration data, ECU can not work. Please write the right data. 2. Operate the saving completely. Do not abort without saving data.
	Confirmed instructions
-	

Figure 11a

25. Select the TCM software P/N that matches the P/N written down in step 2 on page 22, and then select **Next**.

G CONSULT-III plus Ver.31.21	VIN:5N1AA0NC9ANXXXXX	Vehicle : AF MADA TA60 2010	Country : United States					
Back Home Print Screen	Screen Capture		M					
Re/programming, Configuration	Precaution	Pr gram Data Confirm Ver Condition	hicle n 10/12					
Select Program Data								
Example listed below and touch "Next". the searched by entering the ROM Data ID into the box below. If a part of ROM Data in the box, enter the remaining part. OM Data ID is not listed, system may be selected incorrectly or ROM Data (program DNSULT.								
Blank ECU Part Number	31020-7584	9						
ROM Data ID	Other Information							
31020-7XXXXX	TA60/A60/JA60_09/10N 3.357_Floor	1Y_VK56DE_FED_2WD	тоw					
31020-XXXXX	TA60/A60/JA60_09/10N 3.357Floor	1Y_VK56DE_FED_2WD	.тоw					
31000 XXXXX	TA60_09/10MY_VK56D time/STD2.937Floo	E_FED_4WDFull or	Step 25					
31000-XXXXX	TA60_09/10MY_VK56D time/STD_2.937Floo	E_FED_4WDFull \$7						
31000-XXXXX	TA60_09/10MY_VK56D time/STD2.937Floo	E_FED_4WDFull \$7						
		1/13	Next					

Figure 12a

26. Select Next.

CONSULT-III plus Ver.31.21 VIN:	5N1AA0NC9ANxxxxxx	Vehicle : ARMAD	A TA60 2010	(Country : United States
Back Home Print Screen Capture	Measurement Mode Recorded	() Help	11.7V VI	× I	
Configuration	recaution Select P	rogram Data	Confirm Ver Condition	icle	10/12
Select Program Data					
Confirm the detail listed below, and touch ' -In case the screen to select reprog/program vehicle. -In case the part number after reprogrammir selection, VIN and reprog/programming data	"Next" if OK. mming data is NOT displaye ng is wrong, touch "Re-sele in CONSULT.	ed, only one data ect'', and confirm	is available f the vehicle	or this	
Part Number After Repro/programming	3	31020-XXXXX			
Current Part Number	:	31020-XXXXX			
Vehicle	A	RMADA TA60			
VIN	5N1A	AONC9ANXXXXX	x		
System	IT	RANSMISSION			
Expected time to finish re/programming		25min			Re-select
					Next

Figure 13a

- 27. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).
- 28. Select Next.

۱

IMPORTANT: Optimum battery voltage operating range for programming is 12.0-13.5V. Battery voltage must stay between **12.0 and 15.5 Volts** during programming or TCM programming may be interrupted and the <u>TCM may be damaged</u>.

Image: Back Image: Print Screen Image: Screen	
Operate according to the following procedures.	Monitor battery voltage here
Remove the terminal caps of battery, and connect battery charger to battery.	
Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and	
13.5V. The vehicle battery voltage is shown on the top-right of this screen	

Figure 14a

NOTE: In the next step, the programming process will begin when Start is selected.

CAUTION: DO NOT stop programming after selecting "Start". This may damage the TCM. Allow programming to complete.

29. Select Start.

Back Bone Print Screen Back Configuration Confirm Vehicle Condition Confirm the vehicle condition as I	Select Progra	am Data	ed PHelp Confirm Vehicle Condition	Trans Cita	hitor battery
Then, confirm that judgment for all out of range, reprogramming or pro Montor tem BATTERY VOLTAGE	Items indicate ogramming may Value 13.2	OK, and touch 'stop.	"Start". In case the veh Judgment OK	Constition	
				1/1	Step 29 Start

Figure 15a

30. Wait for both progress bars to complete.



Figure 16a

31. When the screen in Figure 17a displays, programming is complete.

NOTE: If the screen in Figure 17a does <u>not</u> display (indicating that programming did not complete), refer to the information on the next page.

32. Disconnect the GR8 / battery charger from the vehicle.

33. Select Next.



Figure 17a

NOTE: Completing write configuration and erasing DTCs are required before C-III plus will provide the final programming confirmation report:

Go to, "After Programming has Completed: Write Configuration and Erase DTCs" on page 34.

If programming does <u>not</u> complete and the "!?" symbol displays as shown in Figure 18a:

- Check battery voltage (12.0 15.5V).
- The ignition is ON and the engine is OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>Retry</u> and follow the on screen instructions.

NOTE: Retry may not go through on the first attempt. It can be selected more than once.

Back Home Print Screen Capture	Measurement Recorded Data	•					
Configuration	ansfer Data Confirm Result	9/9					
Confirm Result							
Reprogramming or programming is not completed properly, but you can retry reprog/programming operation on this ECU. Touch "Retry" to retry reprogramming or programming.							
Part number after Reprog/programming	£3680 = = = = =						
Current Part Number	293BQ						
Vehicle	≡ZÆOL M∕4F1						
VIN	uJM141.20€aR _K GaTatxaxxaxxa						
System	System TELEBAATIOS						
Date	1/26/20 xx 4:34:55 PM	Retry					
Other Information	6.26=>6.27						
Error Code	RNDS_CAN_ALL_SC003-5=NR	Print					

Figure 18a

If programming does <u>not</u> complete and the "X" symbol displays as shown in Figure 19a:

- Do not disconnect the plus VI or shut down C-III plus if reprogramming does not complete.
- Check battery voltage (12.0 15.5V).
- The CONSULT A/C adapter is plugged in.
- The ignition is ON and the engine is OFF.
- The transmission is in Park.
- All C-III plus / plus VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and then restart the program procedure from the beginning.

CONSULT-III plus Ver.V14.21.00 VIN:	Vehicle : -	Country : U.S.A.						
Back Home Print Screen Capture	Measurement Mode Data Data	× = _ X						
Re/programming, Configuration	nsfer Data	2/2						
Confirm Result								
Reprogramming or programming is not completed properly. ECU has been broken, and impossible to reuse anymore. Touch "Home" to back to Home Screen, replace ECU with Service Manual.								
Part number after Reprog/programming	£3680							
Current Part Number	1288B0							
Vehicle	€B0 ∎BA≣							
VIN	회사회 AZ8 여주및日町東大東大大学							
System XECERINATIEDOX								
Date	1/26/20×× 4:29:18 PM							
Other Information	6.26=>6.27							
Error Code		Print						

Figure 19a

After Programming has Completed: Write Configuration and Erase DTCs

- 1. Follow the instructions as stated on the next few screens:
 - First screen: Turn the ignition OFF, and then ON,
 - (a window will then state System Call is being performed),
 - (the next window will then state C-III plus is communicating with the ECU).
 - Next screen: Turn the ignition OFF, and then ON.
 - When "Complete" appears in the box, select Next.-

CONSULT-III plus Ver.31.21	VIN:5N1AA0NC9ANXXXXXX	Vehicle : ARMADA TA60	010 Country : United States
Back Horne Print Screen	Screen Capture Measurement Mode Recorded Data	Help 12.8	Yi 🗙 🖿 🔜 🔀
Re/programming, Configuration	Transfer Data	īrm Result	13/13
Confirm Result			
Operate according to the following pr	ocedures.		
1 Turn ignition switch to the OFF nor	itian and wait for 9 cocondo or mor		
rum ignition switch to the orr pos	and wait for 2 seconds of more	e.	
Current status of ignition	a 11		
switch	UN		
Waiting Time			
2 Turn ignition switch from the OFF n	osition to the ON position		
	valuon to the Ort position.		
3			
Touch "Next" to go to next operation	on.		Next

Figure 20a

- 2. Perform write configuration of the TCM.
 - a. Highlight the **Part Number After Configuration** and **Other Information** sections by clicking on them.
 - b. Select Next.

CONSULT-III plus Ver.31	.21 VIN:5N1	AAONC9ANXXXXXX	Vehicle : ARM	1ADA TA60 2010	Counti States	y : United
Back Home Prin	t Screen Capture	Measurement Mode	C Help	12.8V VI	Х 🖿	
Re/programming, Configuration	Ignition Ope	Switch ration	Configuration			15/15
Write Configuration						
Touch and select the con In case no configration da CONSULT.	figuration data listec ta is listed below, co	below. nfirm the vehicle sele	ction, VIN and c	onfiguration data	ı in	
System	TRANSMISS	ON				
Part Number After	Configration		Other Informatio	n		Stens
31000-ZV5	52E	TA60_09/10MY time	TA60_09/10MY_VK56DEFED4WDFull time/STD2.937Floor			2a 2b
				1/1		Next

Figure 21a

- 3. Continue with write configuration and DTC erase by following the instructions on the next few screens:
 - Window in first screen: Writing data is being performed (it may have already past).
 - First screen (finishing write configuration): Turn the ignition OFF, then ON, and then select **Next.**
 - Next screen (Erase All DTCs): Turn the ignition OFF (a window will state ERASE).
 - When done, a screen similar to Figure 22a will appear.
- 4. Verify the before and after part numbers are different.
- 5. Select **Print** to print a copy of this screen (Figure 22a) and attach it to the repair order.
- 6. Select Confirm.

CONSULT-III plus Ver.31.21 VI	5N1AA0NC9ANXXXXXXX Vehicle : ARMADA TA60 2010		Country : United States			
Back Home Print Screen	Measurement Mode Recorded	Help 12.9V		-		
Re/programming, Configuration	rase All DTCs Operatio	t Result / on Complete		17/17		
Print Result / Operation Complete						
All tasks for programming have been completed. Confirm LAN access, touch "Print" to print out this page, or touch "Screen Capture" to storage of this page temporally. Touch "End" to back to Home Screen, and perform "Diagnosis (All Systems)" to confirm that no DTC is detected. Screen capture data is saved in "CIII plus Data Folder" on desk top, and open the folder named "Screenimages".						
Part number after Reprog/programming	Step	31000- XXXXX				
Part number before Reprog/programming	4	31020- XXXXX				
Vehicle	т	A60 ARMADA				
VIN	5N1AA0NC9ANXXXXXX					
System	TF	TRANSMISSION		Print		Step
Date	8/29/2013 2:46:08 PM					5
		1/1	<]▶	Confirm		Step 6

Figure 22a

NOTE: If you cannot print the above screen:

- a. Select Screen Capture.
- b. Name the file.
- c. Save the file in My Documents.
 - A copy of the screen is now saved in the CONSULT PC. It can be retrieved and printed at a later time.
- 7. Select Home to return to the C-III plus home screen.
- 8. Close C-III plus.
- 9. Turn the ignition OFF.
- 10 Disconnect the plus VI from the vehicle.
- 11. Test drive the vehicle to make sure it operates correctly.