

NTB20-079

November 11, 2020

Date:

2021 ROGUE; AV CONTROL UNIT **REPLACEMENT PROCESS**

APPLIED VEHICLE: 2021 Rogue (T33)

IF YOU CONFIRM

EL20-041

The AV control unit needs to be replaced on an **APPLIED VEHICLE**.

ACTION

IMPORTANT: The AV control unit for the applied vehicle is new, different from the previous model year, and requires a new procedure when replacing. If the following procedures are not followed completely, all features will not work as intended.

- 1. Replace the AV control unit
- 2. Reprogram the AV control unit
- 3. Configure the AV control unit
- 4. Write the VIN to the AV control unit (Manual Input)

IMPORTANT: Procedures 2-4 above **must** be performed in the order shown below.

ORDER OF COMPLETION



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 gualified 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

REPLACE THE AV CONTROL UNIT

- 1. Replace the AV control unit.
 - Refer to the ESM, section DRIVER INFORMATION & MULTIMEDIA > AUDIO, VISUAL & NAVIGATION SYSTEM > NissanConnect > REMOVAL AND INSTALLATION > AV CONTROL UNIT.

REPROGRAM THE AV CONTROL UNIT

IMPORTANT: If you are using a Windows 7 PC, please ensure you have applied <u>all</u> of the latest updates using the 'Windows Update' tool application. See page 21 for the instructions.

NOTICE

Perform the following before starting the reprogramming procedure to prevent damage to the control unit.

- Connect the AC Adapter to the CONSULT PC.
- Connect the CONSULT PC to the internet (Wi-Fi or cable).
- Ensure ASIST on the CONSULT PC has been synchronized (updated) to the current date and all C-III plus software updates (if any) have been installed.
- 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, the reprogramming may be interrupted.
- Turn OFF all vehicle electrical loads.
- Connect a battery maintainer or smart charger, set to reflash mode or a similar setting, to ensure the battery voltage stays between 12.0 V and 15.5 V.

2. Select Re/programming, Configuration.

daek	Enter State	Received Streen Mode		
Connection Status			Diagnosis Menu	
	Seriel No.	šiatus ⊂>>>)))	Diagnosis (One System)	
VI	2301334	Normal Mode/Wireless connection	Diagnosis (All Systems)	
м	-	\otimes	Them.	
		No connection	Configuration	
Select VI/MI			immobilizer	
(a	tion Setting Sub mode	ABC Language Setting	Maintenance	
ST VDR				

Figure 1

NOTE:

C-III plus screens for steps 3-7 are not shown.

- 3. Select **Confirmed instructions.**
- 4. Select Next.
- 5. Select **Confirm**.
- 6. Confirm the correct VIN is populated.
- 7. Select Confirm.

8. Select MULTI AV.

CONSULT-III plus	Vehicle : ROG	UE T33 2021 Country : United States					
Back Home Print Screen Capture	Measurement Mode						
	Selection System Selection	Operation Selection 6/7					
System Selection							
	Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong.						
ENGINE	IVC	IPDM E/R					
MULTI AV	8ch GW 2	AIR PRESSURE MONITOR					
HANDS FREE MODULE	WL CHG	METER/M&A					
6ch CAN GATEWAY	EPS/DAST 3	LASER/RADAR					
Audio amp.	ABS	AUTO DRIVE POS.					

Figure 2

9. Select After ECU Replacement from the Programming (Blank ECU) menu.

CONSULT-III plus	Ve	hicle : ROGUE T33 2021	Country : United States			
Back Home Print Screen	Measurement Mode					
Re/programming, Configuration	stem Selection Operation Se	lection	7/7			
Operation Selection						
Touch "Operation". In case over write current ECU, touch "R In case replacement of ECU, select an ope						
REPROGRAMMING						
Reprogramming	In case you want to reprogramm	ng ECU, touch "Reprogrammir	ng".			
Replacement OF ECU Programming (Blank ECU)						
Before ECU Replacement	After ECU Replacer	Touch "Before ECU Operation log with pa to CONSULT.				
VEHICLE CONFIGURATION						
Configuration		Touch "Before ECU Operation log with co saved to CONSULT.				

Figure 3

10. Select **Next** after reading the **Precaution**.

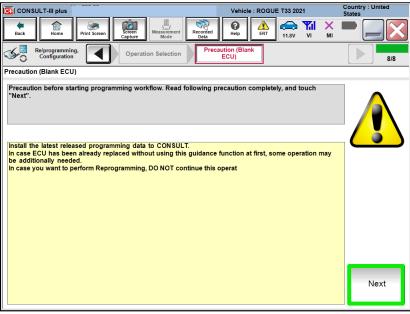


Figure 4

11. Select Manual selection.

		Country : United
	Vehicle : ROGUE T33 2021	States
Back Print Screen Capture Mode Rec	borded Jata ERT 41.8V VI	× 🖿 📃 🔀
Re/programming, Configuration (Blank ECU)	Confirmation of Replace ECU	9/9
Confirmation of Replace ECU		
Select an operation from the following list. Touch "EPC linked" or "Manual selection". In EPC linked	ct automatic selection for writing data us	ing the file generated
Manual selection	o select writing data manually.	

Figure 5

NOTE:

C-III plus screens for steps 12-13 are not shown.

12. Read the **Precautions**.

- Click on the arrows to read all of the precautions.
- 13. After reading all of the precautions, select **Confirmed instructions**, then select **Next**.
- 14. Review **Table A**, below, and find the applicable **ROM Data ID** for the vehicle you are working on.

Table A

Model	Manufacturing Plant	Navi/Non-Navi	Speaker count (1)	ROM Data ID
		Non Novi	4 speakers	283C2 6RR5C
	Kyushu (2)	Non-Navi 6 speakers	283C2 6RR5D	
2021 Doguo		Navi	N/A	283C2 6RR7B
2021 Rogue		Non-Navi	4 speakers	283C2 6RA5C
	Smyrna (3)		6 speakers	283C2 6RA5D
		Navi	N/A	283C2 6RA7B

(1) Excluding tweeters.

(2) The VIN for Kyushu manufactured Rogues will display as **JN8**AT(*****)**W**(******).

(3) The VIN for Smyrna manufactured Rogues will display as **5N1**AT(*****)**C**(******).

15. Select the applicable **ROM Data ID** and then select **Next**.

	Vehicle : ROGUE T33 2021	Country : United States				
Back Rome Print Screen Capture	Resaurcement Data Per	-				
Re/programming, Configuration Preca	ution Select Program Data Confirm Vehicle Condition	11/12				
Select Program Data						
Select the ROM Data ID listed below and touch "Next". Corresponding ID can be searched by entering the ROM Data ID into the box below. If a part of ROM Data ID is already indicated in the box, enter the remaining part. When corresponding ROM Data ID is not listed, system may be selected incorrectly or ROM Data (program data) may not exist in CONSULT.						
Blank ECU Part Number	283C26R	- And				
ROM Data ID	Other Information					
283Cxxxxxx	Premium					
283Cxxxxxx	Premium					
		Clear				
	1/1	Next				



16. Confirm the information matches the vehicle you are working on and select Next.

	Vehicle : ROGUE T33 2021 Country : United States
Back Image: Constraint of the second se	Messarement Mode
Re/programming, Configuration	ecaution Select Program Data Confirm Vehicle Condition 11/13
Select Program Data	
vehicle.	ming data is NOT displayed, only one data is available for this given by the select", and confirm the vehicle
Part Number After Repro/programming	****
Order Part number	XXXXXXXXXXXXX
Vehicle	ROGUE T33
VIN	****
System	MULTIAV
Other Information	XXXXXXXXXXXX Re-select
Expected time to finish re/programming	1min
	Next

Figure 7

17. Follow the on-screen instructions, and then select **Next**.

	Vehicle : ROGUE T33 2021	Country : United States
Back Print Screen Image: Contract of the screen contract	Help ALL ERT 13.6V VI MI	
	m Vehicle ndition	12/12
Confirm Vehicle Condition		
Operate according to the following procedures. Remove the terminal caps of battery, and connect battery charger to bat	tery.	
2		
Adjust the battery charger output so that the vehicle battery voltage is b 13.5V. The vehicle battery voltage is shown on the top-right of this scree	etween 12.0V and n	H
3 Confirm the RESULT is OK, touch "Next".		
Result OK		Next
	0	

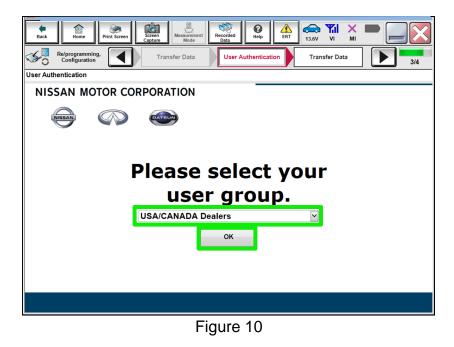
Figure 8

18. Confirm the battery voltage is within acceptable limits, and then select **Start**.

CONSULT-III plus			Vehicle : ROGUE	E T33 2021	Country : United States		
Back Back Print Screen	Screen Meas	Burement Mode	d RT	14.2V VI MI			
Configuration	Select Progra	im Data	Confirm Vehicle Condition		12/12		
Confirm Vehicle Condition							
Then, confirm that judgment for al	Confirm the vehicle condition as listed below, set the vehicle condition correctly. Then, confirm that judgment for all items indicate OK, and touch "Start". In case the vehicle condition is out of range, reprogramming or programming may stop.						
Monitor Item	Value	Unit	Judgment	Condition	_		
BATTERY VOLTAGE	14.3	v	ок				
				1/1	Start		
	Delfaire -						

Figure 9

19. Select your user group from the drop down menu, then select **OK**.



20. Enter your Username and Password, and then select Submit.

ver.cor4/.10		States
Back Home Print Screen S	creen ppture Mode Recorded Data	13.6V VI MI
Re/programming, Configuration	Transfer Data User Authentication	Transfer Data
User Authentication		
SECUREAUTH		
Daimler WS		
	Please enter your UserID below.	
	Username: Username Password: Password	
	Submit	
Restart Login		

Figure 11

21. Wait for the data transfer to complete.

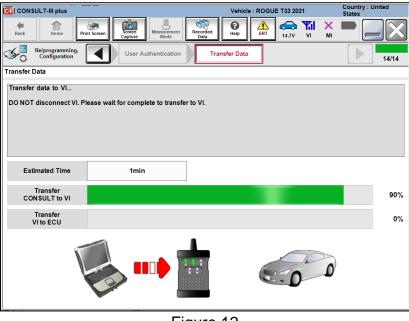


Figure 12

22. Once the data transfer is complete, select **Next**.

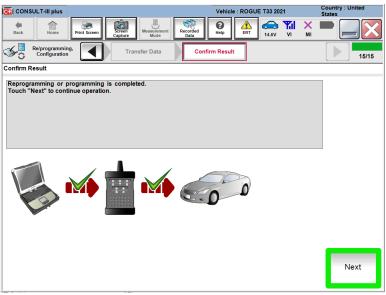


Figure 13

23. Erase All DTCs.

• Follow the on-screen instructions as shown in Figure 16, Figure 17 and Figure 18.

CONSULT-III plus		Vehicle : ROG	UE T33 2021	Country : United States
Back Home Print Screen	Screen Capture	orded Help	14.6V VI MI	
Re/programming, Configuration	Confirm Result	Erase All DTCs	Print Result / Operation Complete	16/17
Erase All DTCs				
According to the instruction below, e				
Current status of ignition switch	ON			

Figure 14

CONSULT-III plus		Vehicle : ROGL	IE T33 2021	Country : United States		
Back Back Print Screen	Screen Capture	ed Help	13.1V VI MI			
Re/programming, Configuration	Confirm Result	Erase All DTCs	Print Result / Operation Complete	16/17		
Erase All DTCs						
According to the instruction below,	erase All DTCs.					
1						
Turn ignition switch to the ON pos	ition, then All DTCs are automa	lically erased.	Cock			
			184 OFF	E ON		
Current status of ignition switch	OFF					
If the current status of ignition switch displayed on the screen differs from the status of the actual vehicle ignition switch, touch "NEXT" to go to the next screen.						
				Next		

Figure 15

Back Image: Configuration Image	\sim
Configuration Confirm Result Erase All DTCs Operation Complete	$\overline{\mathbf{N}}$
Erase All DTCs	6/17
According to the instruction below, erase All DTCs.	
1	
Turn ignition switch / power switch to the OFF position.	
1 Turn the ignition switch to the ON position, and then touch "Erase DTC". All	
DTCs are erased.	
Erase	
DTC	
Figure 16	

24. Verify the before and after part numbers are different, follow the screen prompts to print the results, then select **Confirm**.

CONSULT-III plus		Country : United States
Back Back Print Screen Capture	Messurement Mode	
Configuration Eras	e All DTCs Print Result / Operation Complete	17/17
Print Result / Operation Complete		
or touch "Screen Capture" to storage of this perform "Diagnosis (All Systems)" to confir	eted. Confirm LAN access, touch "Print" to print out this page, page temporally. Touch "End" to back to Home Screen, and m that no DTC is detected. ta Folder" on desk top, and open the folder named	
Part number after Reprog/programming	xxxxxxxxxxxxx	
Part number before Reprog/programming	*****	
Vehicle	T33 ROGUE	
VIN	XXXXXXXXXXXXX	Print
System	MULTIAV	
Date	****	Other Operation
	1/1	Confirm

Figure 17

25. Select Home.

	Vehicle : ROGUE T33 2021	Country : United States
Back Home Print Screen	Saman Massarant Described	K 💻 📃 🔀
Re/programming, Configuration	Erase All DTCs Print Result / Operation Complete	17/17
Print Result / Operation Complete		
All tasks for programming or touch "Screen Capture perform "Diagnosis (All S Screen capture data is sa "Screenimages".	"Complete Operation" Screen is no longer shown after backing Home once. In case "Complete Operation" Screen is necessary document, touch "Cancel" to back previous screen. Erasing process is not performed to "No support for All DTC" system. Erase it in Self-Diag Results screen of each system.	je,
Reprog/programming		
Part number before Reprog/programming Vehicle	in 1997 -	
VIN	Home	Print
System		Other
Date	*****	Operation
	1/1	Confirm

Figure 18

CONFIGURE THE AV CONTROL UNIT

26. Select Re/programming, Configuration.

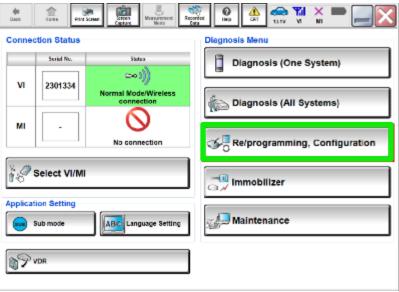


Figure 19

NOTE:

C-III plus screens for steps 27-31 are not shown.

- 27. Select Confirmed instructions.
- 28. Select Next.
- 29. Select Confirm.
- 30. Confirm the correct VIN is populated.
- 31. Select Confirm.

32. Select MULTI AV.

CONSULT-III plus	Vehicle : ROG	UE T33 2021 Country : United States		
Back Home Print Screen	Messurement Mode	12.5V VI MI		
Re/programming, Configuration	System Selection	Operation Selection 1/2		
System Selection				
	Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong.			
ENGINE	IVC	IPDM E/R		
MULTI AV	8ch GW 2	AIR PRESSURE MONITOR		
HANDS FREE MODULE	WL CHG	METER/M&A		
6ch CAN GATEWAY	EPS/DAST 3	LASER/RADAR		
Audio amp.	ABS	AUTO DRIVE POS.		
		1/2		

Figure 20

33. Select Configuration under VEHICLE CONFIGURATION.

CONSULT-III plus		Vehicle : ROGU	E T33 2021	Country : United States
Back Rome Print Screen Capture	Measurement Mode	Help	12.6V VI	× =
Sy:	stem Selection Operatio	n Selection		2
Operation Selection				
Touch "Operation". In case over write current ECU, touch "R In case replacement of ECU, select an ope		gory.		
REPROGRAMMING				
Reprogramming	In case you want to reprogra	mming ECU, tou	ch "Reprograi	mming".
Replacement OF ECU Programming (Blank ECU)				
Before ECU Replacement	After ECU Repla	0		ECU Replacement", ith part number is saved
VEHICLE CONFIGURATION				
Configuration		0		ECU Replacement'', ith configuration data is JLT.
	•			

Figure 21

34. On the **Automatic Configuration** screen, ensure the VIN is correct and select **START**.

CONSULT-III plus		Vehicle : ROGUE T33 2021	Country : United States
Rack Home Drint Somen SC	reen Measurement Mode		
Re/programming, Configuration		omatic guration	4/4
Automatic Configuration			
Replace ECU unit before performing o Configuration will be performed for th Touch "Start" to proceed with the Auto	e following VIN.		
VIN	JN8ATxxxxxxxxxxx		
DOWNLOAD			0%
CONFIGURATION			0%
		00	START
л Анн - в — ма-а —	and the		

Figure 22

35. Once Write Configuration has completed, select End.

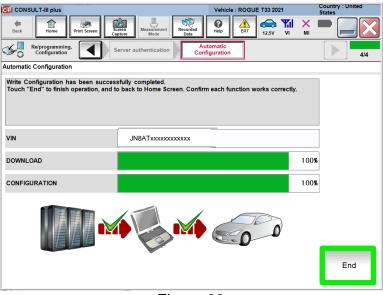


Figure 23

WRITE THE VIN TO THE AV CONTROL UNIT (Manual Input)

36. Select Diagnosis (One System).

GI CONSULT-	-III plus		Vehicle : -	Country : United States
æ Back	Home Print Screen	Screen Capture	orded ata	<mark>йі 🗙 🗭 🔚 🔀</mark>
Connectio	on Status		Diagnosis Menu	
	Serial No.	Status	Diagnosis (One	e System)
VI	2319984 N	الا الحمال lormal Mode/Wireless connection	Diagnosis (All	Systems)
мі	-	\bigotimes		
		No connection	🐝 🕄 Re/programmir	ng, Configuration
Se Se	elect VI/MI		Immobilizer	
Application	n Setting	ABC Language Setting	Maintenance	
VDF	R			

Figure 24

37. Select MULTI AV.

CONSULT-III plus	<u> </u>	Vehicle : -	Country : United States		
Back Home Print Screen	Screen Capture	ded Hole EDT	VI MI 🗭 🥅 🔀		
Diagnosis (One System) Sy	Diagnosis (One System Selection				
NISSAN/INFINITI/DATSU	И				
Priority	All system	s 🔻			
ENGINE	TRANSMISSION	AIR PRESSURE MONITOR	INTELLIGENT KEY		
ABS	MULTI AV	BAC	טוס		
METER/M&A	EHS/PKB	SUB METER	AUTO SLIDE DOOR		
ВСМ	DCDC	CONVERTIBLE ROOF	PRECRASH SEATBELT		
AIR BAG	MOTOR CONTROL	HEAD LAMP LEVELIZER	AUTO DRIVE POS.		
ICC/ADAS	EPS/DAST 3	e-4WD	ALL MODE AWD/4WD		
HVAC	IPDM E/R	LASER/RADAR	DIFF LOCK		
Sort : Default Setting	V		1/6		

Figure 25

38. Select **ERASE** if any DTCs exist.

G CONSULT-III plus		Vehicle : -	Country : United States
Back Reme Print Screen	Screen Capture	Image: Weight Help Image: Weight Help Image: Weight Help Image: Weight Help Help Image: Weight Help Image: Weight Help Image: Weight Help Image: Weight Help	× = _ ×
Diagnosis (One System)	Selection MULTI AV		
Self Diagnostic CGW Infor	nation 🔲 Data Monitor	Work support	cation
No DTC is detected. Further testing may be required	L		
	· · ·		
			Print
			Save
		1/1	ERASE
Allandar 16.6.	aotten	<u></u>	

Figure 26

39. Select the Work support tab.

	Vehicle : -		Country : United States
Back Rime Print Screen Screen Mode	ent Recorded Data	RT 12.4V VI MI	
Diagnosis (One System) System Selection	MULTIAV		
Self Diagnostic CGW Information	Monitor	rt ECU	
Test Item			
SAVE VIN DATA			
WRITE VIN (SAVED DATA)	-		
VIN REGISTRATION	-		
Network initial settings	-		
		1/1	Start
2000-cities the Con-			

Figure 27

40. Select VIN REGISTRATION.

	Vehicle : -	Country : United States
Back Home Print Screen Capture Mode	nt Recorded Help	KI 🗙 🖿 🥅 🔀
Diagnosis (One System) System Selection M	IULTI AV	
Self Diagnostic CGW Information	Nonitor	U ntification
Test Item		
SAVE VIN DATA		
WRITE VIN (SAVED DATA)		
VIN REGISTRATION		
Network initial settings		
	1/1	Start
Martin Andrew Martin		

Figure 28

- 41. Type the VIN into the fields shown below.
 - The VIN must be entered two times.

CONSULT-III plus		Vehicle : -		Country : United States
Back Home Print Screen St	reen Measurement Mode Data		12.4V VI MI	
Diagnosis (One System) System Se	lection MULTI AV			
Work support : VIN REGISTRATION				
Input VIN of the vehicle. Refer to Service Manual for location of	identification plate.			Start
월 치 []]	(R51U0123456) 編 し 1- 2- 30500/TML 30500/TML 30500/TML 30500/TML	UJ3220123456 炭焼焼吉 炭水肥 愛たりま 愛たりま していた 単すれた時 年 月 日 一 () () () () () () () () () ()		
VIN		O	000000000000000000000000000000000000000	0
VIN (1ST TIME)	****	(XX		
VIN (2ND TIME)	*****	xxx		
				End
an a 16 a				

42. Select Start.

		Vehicle : -	Country : United States					
Back Home Print Screen Sc	reen Measurement Mode Data	Image: Berney						
Diagnosis (One System) System Selection MULTI AV								
Work support : VIN REGISTRATION								
Input VIN of the vehicle. Refer to Service Manual for location of identification plate. Start								
NSSAM MOTOR COLID JAPAN 東本語 NSSAM NOTOR COLID JAPAN NSSAM NOTOR IDENICA & A NSSAM NOTOR IDE								
VIN		00000	0000000000					
VIN (1ST TIME)	****							
VIN (2ND TIME) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX								
			End					
Figure 30								

5

- 43. Select **READ VIN** to verify the VIN was written successfully.
 - The VIN should now populate in the field shown below.
- 44. Select End.

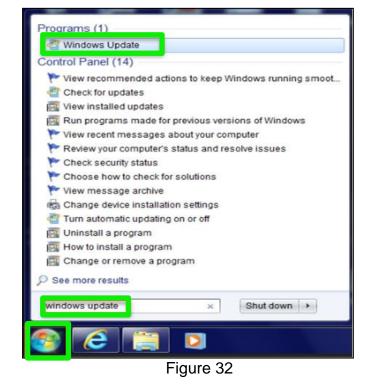
CONSULT-III plus	Vehicle : -	Country : United States		
Back Home Print Screen		🚗 🎢 🗙 🖿 🔜 🔀		
Diagnosis (One System) System	election MULTI AV			
Work support : VIN REGISTRATION				
VIN written successfully.				
Touch "End" and turn OFF ignition	witch (or power switch).	Retry		
Wait for 10 seconds or more. Check that VIN is written to ECU. Then, perform self-diagnosis and check that no DTC is detected.				
Then, perform self-diagnosis and che	:K that no D I C is detected.			
W of 1776	JN1BAUJ32Z0123456	READ VIN		
1- 01.0 Ter 3	WR51U0123456 WR51U0123456			
1 - 500 - 50 - 50 - 50 - 50 - 50 - 50 -	1- 2- 約 前近日期 年 月 日			
1704 Table 工場 Table Ta	GBDRT 特伦市 东风汽车有限公司制造	Salles -		
VIN	(
VIN	****			
		End		
		⊏riQ		
a Mitta a Marcel Marcelon	2031927			

Figure 31

WINDOWS 7 UPDATE (if needed)

NOTE: If using a Windows 7 PC, follow these steps <u>before reprogramming the AV</u> <u>control unit</u> to ensure all of the latest Windows updates have been applied.

1. From your Windows 7 desktop, click the Start button and type in 'windows update' to launch the **Windows Update** application.



2. Select Check for updates.

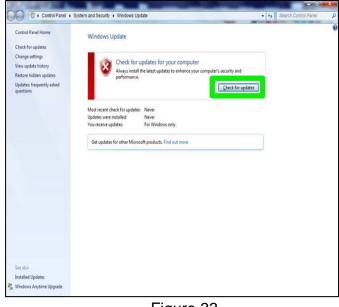


Figure 33

3. Follow the on screen instructions to install all of the latest updates.

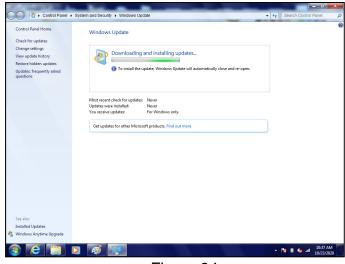


Figure 34

• You may need to select **Restart now** for some updates.

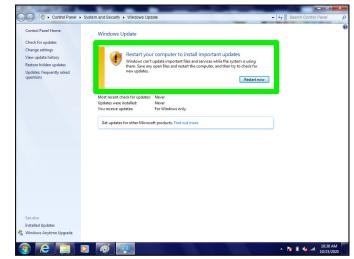


Figure 35

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace AV Control Unit	(1)	RR26AA	ZE	32	(2)

(1) Reference the electronic parts catalog and use the AV Control Unit as the Primary Failed Part (PFP).

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

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
November 11, 2020 NTB20-079		Original bulletin published