



SERVICE BULLETIN

Classification:

Reference:

Date:

AT17-004b

NTB17-041b

December 18, 2018

ADDITIONAL SERVICE WHEN REPLACING CONTROL VALVE OR TRANSAXLE ASSEMBLY

This bulletin has been amended. See AMENDMENT HISTORY on the last page. Please discard previous versions of this bulletin.

APPLIED TRANSMISSION:	2013-2019 Versa Sedan (N17) CVT
	2013-2019 Versa Sedan (N17)
	2014-2019 Versa Note (E12)
APPLIED VEHICLES:	2013-2019 Sentra (B17)

SERVICE INFORMATION

After CVT assembly or control valve replacement, additional service must be completed with CONSULT-III plus (C-III plus).

• If all additional services are not performed, the vehicle can experience drivability concerns which may result in a CVT issue.

Additional Service when Replacing Control Valve or Transaxle Assembly

- The following procedures, starting on the next page, <u>must be</u> performed in this order.
- > Check off each procedure as they are performed in the order listed below.

CHECK OFF	PROCEDURE	PAGE
	TCM REPROGRAMMING	2
	CONTROL VALVE REPLACEMENT (CONSULT-III plus Work Support)	22
	ERASE LEARNING VALUE	27
	CONFORM CVTF DETERIORTN	29
	AUXILIARY GEARBOX CLUTCH POINT LEARNING	32
	Erase DTCs	34

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

IMPORTANT: Repairs performed for this bulletin require CONSULT-III plus <u>Diagnostic</u> <u>result reporting function-Setting</u> be turned ON and <u>Diagnosis (All Systems)</u> be performed. If not done, it may result in a repair being non-warrantable.

TCM REPROGRAMMING

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).
- 1. Connect the plus Vehicle Interface (plus VI) to the vehicle.

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

3. Connect the GR8, set to "Power Supply" mode, to the vehicle battery.

CAUTION: Be sure the GR8 is connected securely to the battery. Make sure the battery voltage stays between <u>12.0V and 15.5V</u> during reprogramming. If the battery voltage goes out of this range during reprogramming, 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 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 reprogramming, reprogramming may be interrupted and the TCM may be damaged.

- 5. Turn the ignition ON with the engine OFF.
 - The engine must not start or run during the reprogramming procedure.
- 6. 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 reprogramming. If the battery voltage goes out of this range during reprogramming, the TCM may be damaged.

- 7. Turn ON the CONSULT PC.
- 8. Select CONSULT-III plus (open C-III plus).

- 9. Wait for the plus VI to be recognized.
 - Serial number will display when the plus VI is recognized.

	Connec	tion Status		Diagnosis Menu
	-	Serial No.	Status	Diagnosis (One System)
plus VI is recognized	VI	2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)
	м		No connection	Re/programming, Configuration
	80	Select VI/M	le .	Immobilizer
	Applicat	tion Setting Bub mode	ABC Language Setting	Maintenance
	69	VDR		

10. Select **Re/programming, Configuration**.

onneo	ction Status	Status	Diagnosis Menu
vi	2300727	Normal Mode/Wireless	Diagnosis (One System)
МІ	•	No connection	Re/programming, Configuration
8	Select VI/MI		Immobilizer
	Sub mode	ABC Language Setting	Maintenance

Figure 2

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

13. Select Next.



- 14. If the screen in Figure 4 displays, select Automatic Selection(VIN).
 - If the screen in Figure 4 does not display, skip to step 15.

50	Re/programmin Configuration	, 1	Precaution	Vehicle Selection	Vehicle Confirmation	
	Automatic Se	ection(VIN)	Manual Select	ion(Vehicle Name)		
Vehicle	Name :		- O-		Model Year :	Sales Char
c	MURANO amp:P8201	JUKE	QUEST			NIS
	350Z	LEAF	ROGUE			INF
	370Z	MAXIMA	SENTRA			
370	Z Convertible	hindrice	TITAL			
112	ALTIMA	Mu Exar	nple			
AL	TIMA Hybrid	NISSAN GT-R	VERSA Hatchback			
	ARMADA	NV	VERSA Sedan			-
1.2	CUBE	PATHFINDER	XTERRA			CLI
	RONTIER	PATHFINDER	X-TRAIL			-

Figure 4

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

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

	Back Borne Print Screen Screen Print Screen Configuration Vur) Please confirm selected information and to touch "Change". Vur)	Image: Second	
Step 15	VIN or Chassis #		
	Vehicle Name :	aro a	
	Model Year		-
		1/1	
			Change
		Step 16	Confirm
		Figure 5	L

17. Select Confirm.

Iter the VIN number, and bouch "Confirm". Cording to this operation, in case of specified operation that requires to save ECU information into DNSULT, VIN number you input is saved as file name. Therefore, confirm VIN number correctly. Image: Cordination of the Confirm". Image: Cordination of the Confirm of the	4/			tion	Select	System		nput VIN		noue	Veincle C		ogramming, figuration	Re/
VIN (17 or 18 digits)		1		i	n into	formatio	e ECU ir	ires to sa	that requ	operation	"Confirm". e of specifie	and touch ation, in ca	I number, this open	r the V
With digits) Image: Constraint and the second s					y.	correct	unupei	onfirm VI	herefore,	e name. Il	s saved as	r you inpu	IN numbe	SULT
						100	1 and	Und Und	1011 AU 200	1000CA 1A.	VSKIWWR9	NOTON DOLTO LANAN	91244 9 × 4	
						/	C	Al and a second			3 100 100	14 S • • • • • • • •	1000	
Stan									014	CM21	YAD	JH1	18 digits)	N (17 a
Stan														
Sten														
Otep			/		tep	S								

Figure 6

18. Select **TRANSMISSION**.

Re/programming, Configuration	TOE VIN System Selection	Operation Selection
stem Selection		
case ECU you want to operate is not listed	below, the vehicle or model year might be	e selected wrong.
ENGINE	METER/M&A	HVAC
ENGINE	METER/MRA Step 18	HVAC TRANSMISSION
ENGINE MULTI AV ABS	METER/MAA Step 18 CAN GATEWAY	HVAC TRANSMISSION
ENGINE MULTI AV ABS IPDM E/R	METERIMAA Step 18 CAN GATEWAY EV/HEV	HVAC

Figure 7

19. Select Reprogramming.

	Image: State of the state o
	Touch "Operation". In case over write current ECU, touch "Reprogramming". In case replacement of ECU, select an operation in REPLACE ECU category. REPROGRAMMING
Step 19	Reprogramming Replacement OF ECU
	Programming (Blank ECU) Before ECU Replacement After ECU Replacement Touch "Before ECU Replacement", Operation log with part number is saved to CONSULT.
	VEHICLE CONFIGURATION Before ECU Replacement After ECU Replacement Touch "Before ECU Replacement", Operation log with configuration data is saved to CONSULT.

Figure 8

20. Follow the on-screen instructions; maintain the following conditions:

- a. Ignition ON, with the engine OFF.
- b. Press the Brake.
- c. Press accelerator between $\frac{1}{4}$ and $\frac{1}{2}$.
- d. Put shift selector in **R**.
- 21. Select Start.

Back Relycogramming, Configuration	een Maskumment Recorded Data Recorded Data Page Annual State Control Data Page Annual State Control Co	
Erase calibration data		
Erase calibration data. Maintain the folk -Turn the ignition switch On. -The combustion engine is at a stands -Press brake pedal. -Press accelerator pedal between half -Shift selector lever to the R position.	owing conditions and touch "Start". bill. (1/2) and quarter (1/4).	Start Step 21
Current status	Waiting for your operatio	n

Figure 9

22. When <u>COMPLETED</u> is displayed, select **Next**.

Back	Home Print S	43.20	Monsurement	Recorded Data	P ERT			ates
50	Re/programming, Configuration	Operat	tion Selection	Erase o d	alibration	Save calibration	on data	7/9
Erase calib	bration data			-				
Erase ca -Turn th -The cor -Press b -Press a -Shift se	libration data. Main e ignition switch Or mbustion engine is rake pedal. iccelerator pedal be lector lever to the R	tain the following n. at a standstill. tween half (1/2) position.	g conditions an and quarter (1/4	d touch "St	art".			Retry
Current s	status					COM		
						Step 22		Next

Figure 10

23. Operate the ignition per the on screen instructions.

V0F.U.SP43.20			Sta	tes.
Dack Itome Print Screen	Screen Made Recon	ded Help ERT	13.0V VI MI	
Configuration	Operation Selection	Erase calibration data	Save calibration data erasing	7/9
Erase calibration data				
Operate according to the following 1. Ignition Switch : OFF (Hold it mor 2. Ignition Switch : OK (Hold it mor 3. Ignition Switch : ON 4. Ignition Switch : ON	procedures. e than 10sec) e than 10sec) e than 10sec)	on status]	
Current status of ignition switch	ON]		
Time (sec)	9 _	Tim	er	
IGN SW ON	10 sec	Pro	ogress disp	lay
IGN SW OFF	10 sec			
	Figu	re 11		

24. When \underline{OK} is displayed, select **Next**.

	Vort in bran V	er.CSP43.20								1	States	-
din Daca	iname	Print Screen	Screen Capture	Measurement	Recorded Data	() Help	ERT	13.0V	Yil Vi	× I MI		\mathbf{X}
50	Re/programming Configuration		Erase	callbration data	Save ca	libration d. trasing	ata	Write cali	bration	data		8/9
lave call	bration data er	asing			_				_			
Touch	unt or calibrati	on data era	sing saved	1 successfully	<i>.</i>							
	Result			ок								
								Ste 24	əp 4		Ne	xt
				Fi	gure	12						

25. Move the shift selector to P, then select Next.



26. Operate the shift selector per the on-screen instructions.

- a. Move the shift selector: P > R > N > D > P.
- b. Confirm the center display meter indicates the correct selector position.
- 27. Select Next.

	conci in losse	Ver.CSP43.2	0		1.00000						States	
dit Back	Home	Phot Screen	Screen	Mid surément Mode	Recorded Data	0 Help	LRT	13.0V	Yil vi	×	•	
50	Re/programm Configuration	ning, on	Save	erasing	Write c	alibration da	ita				1	9/9
Vrite ca	libration data		-				_					
1 Tr po in all	avel the shift l sition. After c case the shift of reprogram	ever P -> R -> onfirmation of indicator in m ming operatio	N -> D -> F findicator, i neter panel n once. An	, confirm the sh touch "Next". does NOT show d perform nece:	hift indicator ir vs correct shif ssary diagnosi	n meter pane t position, to is and repair.	I shows ouch "Ne	correct : ext", and	shift	ate the		
		Step 26)									
								S	ten	1		

Figure 14

28. Select Save.

Ver.CSP43.20	Stat	85
Back Hume Print Screen	Screen Alexandreen Mode Recorded Data	
Re/programming, Configuration	Write calibration data Save ECU Data	10/10
Save ECU Data		
Touch "Save" to save operation Operation log helps to restart nex after operation has completely fini	log and the current part number as listed below to CONSULT. t operation by selecting suitable operation log. Operation log is erased ished.	
File Label	■ 3₩1/₩7/₩7@/2₩6@ ■	
Operation	REPROGRAMMING	
System	TRANSMISSION	
Part Number	B 1 6 6 4 4 54	
Vehicle	B17SENTRA	
VIN	■3/■A/■7/■7/■2/■66	
Date	■ ■/1■20₩/ ₩1927■/ Step 28	Save

Figure 15

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



IMPORTANT: For step 32 to be accurate:

- ASIST on the CONSULT PC must be synchronized (updated) to the current date.
- All C-III plus software updates (if any) must be installed.

32. Confirm reprogramming is required for this vehicle:

- Read / compare the **Current Part Number** and **Part Number After Reprogramming** (see Figure 17).
- They should be different.

33. Comparison results:

- If they are **<u>different</u>**, continue with the reprogramming procedure.
- If they <u>are the same</u>, reprogramming is <u>not needed</u>. Skip to CONTROL VALVE REPLACEMENT on page 22.

34. Select Next.

Home Print Screen Copyr	Meiserstmith Mode Bala	
Configuration	Precaution Select Program Data Confirm Ve Condition	277 12/14
elect Program Data		
Confirm the detail listed below, and touc -In case the screen to select reprog/progr vehicle. -In case the part number after reprogramming selection, VIN and reprog/programming data -In case the part number after reprogramming data -In case the part numbe	h "Next" if OK. amming data is NOT displayed, only one data is available ning is wrong, touch "Re-select", and confirm the vehicle ta in CONSULT.	for this
Part Number After Repro/programming		Step 32
Current Part Number		These numbers
Vehicle	SENTRADIT	should be
VIN		<u>different</u>
System	TRANSMISSION	
Other Information	B17_16MY_MR18DE_USA_SERVICE_TOSOK_CV_CAL NID:00F8	IBRATIO Re-select
Expected time to finish re/programming	10min Ste	p Nevt
	34	1 INCAL

Figure 17

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

IMPORTANT: Battery voltage must stay between **12.0 and 15.5 Volts** during reprogramming or TCM reprogramming may be interrupted and TCM may be damaged.

Back	fieme	Prim Screen	Screen Gapture	Mossilement	Recorded Data	O tteip	12.8V	v X	-	
So	Re/programming Configuration		Selent Pr	ouram Date	Confi	rm Vehicle Indition		Data		10/11
Confirm V	/ehicle Conditi	on		_	-					-
Operate	according to t	ne following	procedures	f				Moni volt	tor ba age h	ttery ere
1 Dam	ove the termin	I cans of has	tery and con	nact harron	charger to ha	Mani				
2 Adju 13.51	ist the battery of V. The vehicle b	arger outpu attery voltag	t so that the v e is shown o	vehicle batter n the top-righ	ry voltage is I nt of this scre	between 12.0V ; en	and	1	Si I	
2 Adju 13.51 3 Cent	ust the battery of V. The vehicle b firm the RESUL	narger outpu attery voltag T is OK, touc	t so that the e is shown of the "Next".	vehicle batter n the top-righ	ry voltage is i at of this scre Step 35	between 12.0V : en	and	ep -	я •	Jext

Figure 18

37. Select Start.



Figure 19

- If a screen displays asking for "Please select your user group"; select USA/CANADA Dealers.
- Before reprogramming will start, you will 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.CSP44.21	TH. 114/1.0/1 110242100	Venicle . AL III	A SEMAIL 249 2011	States
Back Banne Print Screen	Screen Capture Mode Recorder Data	d Help A	12.6V VI MI	
Configuration	Confirm Vehicle Condition	er Authentication	Transfer Data	11/12
User Authentication				
ATUA SERVICE C				
Daimler WS				
	Please enter your UsenD below. Username: Password Submit			
Résiani Login				Recommendary
1.	Comprised State Secure Autor D	tana Alingang terremest		2.7

Figure 20

38. Wait for both progress bars to complete.

Cons	or in plus	Ver.CSP43.20	910.4			Ventucie	. JLIT	AND IT A	010	-	States		
data Data	Home	Print Screen	Screen Capture	Messurement Mode	Recorded Data	() Help		12.9V	Yil vi	×	-	-	$ \times$
50	Re/programmin Configuration	^{19.}	Cont	irm Vehicle ondition	Tra	nsfer Data							14/14
Transfer D	Data												
est	inated Time	orgother VI. 1 (JMI selection ogramming" o	" to select on Home so 10 none so	want to use cother VI. In o creen.	CONSULT-i case you wa	ill plus wit	h other to this	VI, touch screen,	n "Horr select	this V	back to	Home buch	
CO	Transfer NSULT to VI				_								100%
1	Transfer VI to ECU	1											20%
	Step 38			4			6		16	0			

Figure 21

39. When the screen in Figure 22 displays, the reprogramming is complete.

NOTE: If the screen in Figure 22 does <u>not</u> display (which indicates reprogramming did <u>not</u> complete), refer to the information on the next page.

- 40. Disconnect the battery charger (GR8) from the vehicle.
- 41. Select Next.



Figure 22

NOTE: Additional steps/operations are required before C-III plus will provide the final reprogramming confirmation report. Continue with the reprogramming procedure on page 16.

If reprogramming does not complete and the "!?" symbol displays as shown in Figure 23:

- Check battery voltage (12.0 15.5V).
- Ignition ON, engine 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 first attempt and can be selected more than once.

Hame Prus Screen	Servern Capture	Tuscarded Deta		🔀		
Configuration	(11 10/011 Riter)	Confirm Result		9/9		
Confirm Result						
Reprogramming or programming is r operation on this ECU. Touch "Reby" to retry reprogrammin	tot completed properly g or programming.	, but you can retry repro	g/programming	R		
Part number after Reproglprogramming		28380				
Current Part Number		28380+				
Vehicle		ZEOLEAF				
VIN		JN1AZ0CPxBTxxx	xxx			
System		TREEMATION				
Date		1/26/20 xx 4:34:55 PM				
Other Information		626-5627 RNDS_CAN_ALL_SC003-5=NR				
Error Code						
1						

Figure 23

If reprogramming does <u>not</u> complete and the "X" symbol displays as shown in Figure 24:

- Do not disconnect the plus VI or shut down C-III plus if reprogramming does not complete.
- Check battery voltage (12.0 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition ON, engine OFF.
- Transmission 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 reprogram procedure from the beginning.

Hanta Prin Scrie	Screen Muser	Recorded Help	12.3V VI MI			
S Reiprogramming.	Thermiter Date	Confirm Result	2/2			
Confirm Result						
reuse anymore. Touch "Home" to back to Hom	e Screen, replace ECU with	i Service Manual.	<u> </u>			
Part number after Reprogiprogramming		28380				
Current Part Number		28380.				
Vehicle		ZEOLEAF				
Vehicle VIN		ZEOLEAF	CXXX			
Vehicle VIN System		ZEOLEAF JN1AZOCPxBTxx:				
Vehicle VIN System Date		2EOLEAF JN1AZ0CPxBTxx x5XX4002E 1/26/20xx 4:29:18	cccx noc			
Vehicle VIN System Date Other Information		ZEOLEAF JN1AZOCPxBTxxx XEUMONAEL 1/26/20xx 4:29:18 6.26~>6.27	cccc			

Figure 24

42. Confirm the Transmission Fluid temperature judgment is **OK**, then select **Next**.

• If the judgment is NG, drive the vehicle to warm the transmission until the judgment changes to OK.

			States
Recorded Data		12.4V VI MI	-
Ci	heck Fluid emperature	Erase TCM EEPROM	16/1
and touch "St	lart". In case the v	ehicle condition is	
,Unit	Judgment	Condition	
°C	ок		
		Step	Next
			Step 42

Figure 25

- 43. Follow the on-screen instructions; maintain the following conditions:
 - a. Parking brake set.
 - b. Ignition ON, with the engine OFF.
 - c. Press the Brake.
 - d. Press accelerator between $\frac{1}{4}$ and $\frac{1}{2}$.
 - e. Put shift selector in R.
- 44. Select Erase DTC.
- 12.9V VI 5 0 Ô 50 Re/programm Configurati 4 Check Fluid Temperature Erase TCM EEPRON Confirmation TCM EEPROM 17/19 Erase TCM EEPROM Operate according to the following procedures 1 Stop Engine. Turn F ON er to "R" 2 tween half (1/2) and quarter (1/4). tion. Press brake pedal, and press "Erase DTC". Step Erase DTC 44



- 45. Follow the on-screen instructions: maintain the following conditions:
 - a. Parking brake set.
 - b. Ignition ON, with the engine OFF.
 - c. Fully depress the accelerator.
 - d. Put shift selector in R.

46. Select Start.



Figure 27

47. When <u>COMPLETED</u> is displayed, select **Next**.

	Ver.CSP43.20				States
Back Home	Print Screen	Screen Capture	Recorded Data	A 12.9V VI	× 🖿 📃 🔀
Configuration	ng,	Check Fluid Temperature	Erase TCM EEPR	Confirmation TO EEPROM	CM 17/19
Erase TCM EEPROM					
					Retry
Current status				COMPL	ETED
				Step 47	Next
		F	igure 28		

48. Operate the ignition per the on-screen instructions.

Ver.USP43.20			and the second second	States
Back Isome Print Screen	Screen Muse Recorde Data	d Help ERT	(13.0V VI	X 🖿 📃 🔀
Re/programming, Configuration	Operation Selection	rase calibration data	Save calibration erasing	data
rase calibration data				
Operate according to the following 1. Ignition Switch : OFF (Hold It mu 2. Ignition Switch : ON (Hold It mu 3. Ignition Switch : OFF (Hold It mu 4. Ignition Switch : ON	procedures. re than 10sec) re than 10sec) re than 10sec)	on status		
Current status of ignition switch	ON			
Time (sec)	9	Time	r	
IGN SW ON	10 sec	Ρ	rogress	s display
IGN SW OFF	10 sec			
		2.2		
	Figur	e 29		

49. When <u>OK</u> is displayed, select **Next**.

Ver.CSP43.20		Tenide / OLITIN	511 2010	States
Back Home Print Screen	Screen Capture Massurament Massurament	Help		
Re/programming, Configuration	Erase TCM EEPROM	EPROM	onfirm Shift Lever Position Display	18/19
Confirmation TCM EEPROM				
Common the result whether EEP OK : Touch "Next" to go to the NG : Touch "Retry" to repeat the Result	ROW has successfully been erased next operation. operation.	•		
				Retry
			Step 49	Next
	Figure	30		

50. Operate the shift selector per the on-screen instructions.

- a. Move the shift selector to **P**, then move **P** > **R** > **N** > **D** > **P**.
- b. Confirm the center display meter indicates the correct selector position.
- 51. Select Next.

Back Ilome Print Screen	Screen Capture Monsurement Mode	Recorded Help	ERT 12.8V		
Configuration	EEPROM	Confirm Shift Li Position Displ	ay		19/19
onfirm Shift Lever Position Displa	ıy				
Operate according to the followin	g procedures.				
Set shift lever to "P" position.					
Travel the shift lever P -> R -> N	I -> D -> P, confirm the shift	t indicator in meter pa	anel shows correct s	hift	
In case the shift indicator in me	ter panel does NOT shows	correct shift position	, touch "Next", and	complete the	
all of reprogramming operation	once. And perform necess	ary diagnosis and rep	ar.		
\bigwedge					
	7		s	ten	
Step	٦		S	tep	Next

Figure 31

- 52. Erase all DTCs as follows:
 - a. Turn the ignition OFF.
 - b. Turn the ignition ON.
 - c. Wait for DTC erase to complete.

53. Select Next.

Ver.0 5P43.20					States
Back Fine Print Screen	creen apture	Recorded Data	ERT 12.9V	VI MI	-
Re/programming, Configuration	Confirm Shift Lever Position Display	Erase All DTC:	s Prin Operati	it Result / on Complete	20/2
rase All DTCs					
according to the instruction below, era	se All DTCs.				
1					
Turn ignition switch to the ON position	on, then All DTCs are aut	comatically erased.		JOCK .	N LOCK
Turn ignitie				(n)	
	$rac{1}{2}$			TRATE	TRATO
				OFF	ON
Current status of ignition	ON				
switch					
If the current status of ignition sw	vitch displayed on the	screen differs fro	m the status of		
the actual vehicle ignition switch,	touch "NEXT" to go to	the next screen.			
			6	24.0.10	1
				step	Next
				53	7

Figure 32

54. Verify the before and after part numbers are different.

55. Print a copy of this screen (Figure 33) and attach it to the repair order.

56. Select **Confirm**.

Back Home Print Screen	Sereen Capture Mode	Recorded Data	() Help	14.3V VI	× I MI	[]
Configuration	Errse AU DTCs	Print Operation	Result / n Complete			18/18
rint Result / Operation Complete						
All tasks are completed. Confirm LA in case CONSULT can NOT immedia temporally storage of this page. Tou Data Folder" on desk top, and open t Part number after Reprog/programming Part number before	N access, touch "Pr tely access to LAN of ch "Screen Capture" the folder named "Sc Step	rint" to print o or printer, Scre ", and save it. S creenimages",	ut this page. en Capture funct Screen capture di R740-46.46E	ion is availab ata is in "Cill j	le for plus	
Reprog/programming	- 34					10 B
Vehicle		_	84 70		-	
VIN		UNIA	E KA 50 26			
System			EGEE	Step		Print
Date		11/3/2011 2:10:21 AM				1
				Step	\mathbf{P}	Confirm
				56		

Figure 33

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.

CONTROL VALVE REPLACEMENT (CONSULT-III plus Work Support)

57. Navigate C-III plus to the screen shown in Figure 34.

• Diagnosis (All Systems) > TRANSMISSION > Work support

58. Select CONTROL VALVE REPLACEMENT.

59. Select Start.



Figure 34

60. Follow the on-screen instructions; maintain the following conditions:

- a. Ignition ON, with the engine OFF.
- b. Press the Brake.
- c. Press accelerator between $\frac{1}{4}$ and $\frac{1}{2}$.
- d. Put shift selector in **R**.
- 61. Select Start.

	Ver.USP46.20	-	1			-	Stat	62
Back Home	Print Screen	Screen Capture	Acasurement Mode	Recorded Data		14.5V VI	× 🔳	
Diagnosis (All Systems)	► Sel	ect Vehicle	Confirm Ve	ehicle 🕨	Diagnosis (Al Systems)	TRANSM	55ION	
Vork support : CONT	ROL VALVE R	EPLACEMEN	т					
Erase calibration da -Turn the ignition s -The combustion e -Press brake pedal -Press accelerator -Shift selector lever	ita. Maintain t witch On. ngine is at a s pedal between to the R positi	he following o standstill. h half (1/2) an on.	conditions an d quarter (1/	nd touch "S 4).	itart".	Step 61		Start
Current status					W	aiting for your o	peration	
unent status					v	raturig for your o	perauon	
							٢	-
								End
				_	_		-	

Figure 35

62. Release the accelerator and brake (shift selector remains in **R**).

63. Turn the ignition **OFF**, then wait 10 seconds.

res. Osec) Isec) Dsec)					
		1			
		Off			
			Off	Off	Off

Figure 36

64. Turn the ignition **ON**, then wait 10 seconds.

(e).03740.20	â 📃 🕅	0 🔺 🥌) 🏹 🗙 🔳	
Back Home Print Screen Ca	pture Mode Data	Help ERT 12.5	V VI MI	
Diagnosis (All Select Vo	ehicle Confirm Vehicle	Diagnosis (All Systems)	TRANSMISSION	
Work support : CONTROL VALVE REPL	ACEMENT			
Operate according to the following pr 1. Ignition Switch : OFF (Hold it more 2. Ignition Switch : ON (Hold it more 3. Ignition Switch : OFF (Hold it more 4. Ignition Switch : ON	ocedures. than 10sec) han 10sec) than 10sec)			
Time		2		
Current status of ignition switch		On		
,				

Figure 37

65. Turn the ignition **OFF**, then wait 10 seconds.

-	Ver.C	SP46.20								-	States	
Back	Home Pr	int Screen	Screen Capture	Measurement Mode	Recorded Data	() Help	ERT	12.2V	Yil Vi	×	-	\times
Dia Sys	ignosis (All stems)	> Sala	ct Vehicle	Confin	m Vehicie 🕨	Diagno Syst	osis (All tems)	В ТВ	ANSMI	SSION		
Nork supp	ort : CONTROL	VALVE R	EPLACEM	ENT								
Operate a 1. Ignition 2. Ignition 3. Ignition 4. Ignition	Switch : OFF Switch : OFF Switch : ON (Switch : OFF Switch : ON	e following (Hold it m Hold it m (Hold it m	g procedu ore than to ore than 1 ore than 1	ures. 10sec) 0sec) 10sec)								
Time	1						1					
Current st	tatus of ignition	switch		Off								
			1									

Figure 38

- 66. Turn the ignition **ON**.
- 67. Move shift selector to P.

_		F.USP46.20		_				_	States	
Back	Home	Print Screen	Streen Capture	Measurement Mode	Recorded Data	C Help	ERT 12.4		× =	
Die Sy	agnosis (All rstems)	> Sele	st Vehicle	Contim	Venicie 🕨	Diagnosis Systems		TRANSMIS	SION	
Work supp	ort : CONTRO	OL VALVE RE	PLACEMEN	IT						
Please sh	nift the selecto	or lever from I	R range to P	range.						
RANGE									R	

Figure 39

68. When <u>COMPLETED</u> is displayed, select **End**.



Figure 40

69. If the pop-up notification shown in Figure 41 displays, <u>TCM Programming is not correct</u> for the installed Control Valve.

Select **OK**, then perform **TCM Reprogramming**, starting on page 2, <u>ONLY</u> if the notification shown below is displayed.

Consort - in plus	Ver.CSP46.20 This of Information Control of
Back Home	Print Screen Advertised Advertise
Diagnosis (All Systems)	Select Vehicle Confirm Vehicle Diagnosis (All Systems) TRANSMISSION
Work support : CONT	ROL VALVE REPLACEMENT
Current status	This part needs to perform reprogramming. Return to Home screen, and perform reprogramming function in Re/programming, Configuration menu.
	End
	Figure 41

ERASE LEARNING VALUE

70. Navigate C-III plus to the screen shown in Figure 42.

• Diagnosis (All Systems) > TRANSMISSION > Work support

71. Select ERASE LEARNING VALUE.

72. Select Start.



Figure 42

73. Follow the on-screen instructions; maintain the following conditions:

- a. Parking brake set.
- b. Ignition ON, with the engine OFF.c. Fully depress the accelerator.
- d. Put shift selector in **R**.

74. Select Start.

Diagnosis (Ali Systems)	Select Ve	hicle Confirm	Vehicle Diagr	tosis (All TR	ANSMISSION		
OFK SUPPORT: ERAS PERFORM ERASE I MAINTAIN THE FOL AND TOUCH "STAR VEHICLE: STOP ENGINE: STOP SELECTOR LEVER ACCELERATOR PI	E LEARNING VALUE, LOWING CONDITIC T": LR POSITION EDAL; DEPRESSED	e NS				Start	Step 74
urrent status				Waiting for you	r operation		

Figure 43

75. When <u>COMPLETED</u> is displayed, select **End**.

-	Ver.USP43.20		-			-	States	1
Back forme	Print Screen	Screen Capture	Burement Bode Data	ed Help			× •••	
Diagnosis (All Systems)	Deleo	ct Vehicle 🕨	Confirm Vehicle	Diagno 5ys	tems)	TRANSMISS	ION	
Vork support : ERAS	E LEARNING V	ALUE						_
								Retry
Current status						COMPL	ETED	
						4	1	
					Γ	Step		
						75		End
								_

Figure 44

CONFORM CVTF DETERIORTN

76. Navigate C-III plus to the screen shown in Figure 45.

• Diagnosis (All Systems) > TRANSMISSION > Work support

77. Select CONFORM CVTF DETERIORTN.

78. Select Start.

V#1.0 3F43.20	314182
Back Back Print Screen Capture Mont	Recorded De Ler 12.0V VI MI
Diagnosis (All Systems) Select Vehicle	onfirm Vehicle Diagnosis (All Systems) TRANSMISSION
Self Diagnostic Data Monitor	rk support
Test Item	
ENGINE BRAKE ADJ.	
CONFORM CVTF DETERIOR TN	Step
G SENSOR CALIBRATION	77
ERASE CALIBRATION DATA	
ERASE LEARNING VALUE	
ERASE MEMORY DATA	
Auxiliary gearbox clutch point learning	Sten
Retrieving logging data	78
	1/1 Start

Figure 45

79. Select Start.

Back Home Print Screen	kroen Megaurement Recorded		× ¥ C	States	
Diagnosis (Ali Systems) Select (/ehicle Confirm Vehicle	Diagnosis (All Systems)	TRANSMISSION		
rk support : CONFORM CVTF DETE	RIORTN				
				Clear	
				Start	Step
VTF DETERIORATION DATE					
				4	

Figure 46

80. Select Clear.

Back Diagnosis (All Salast V	Arter Port 20000 Arte	Diagnosis (All]
Work support : CONFORM CVTF DETER		Systems)	mission	
			Clear	Step 80
			Start	
CVTF DETERIORATION DATE			2864	
			End	

Figure 47

81. Select Yes.

CONSC	r i -in pius	Ver.CSP43.20	VIIV.3	MIADIAFIG	1200008	venici	e. acivi	AA 017 201	0	States	
Back	Home	Print Screen	Scieen Capture	Messarement	Recorded Data	O Help	ERT	12.0V	VI MI	-	
Dia Sy	ignosis (All stems)	Sei	ect Vehicle	Contin	m Venicle	Diagno Syst	osis (All tems)		NSMISSION		
Work supp	ort : CONFC	ORM CVTF DE	TERIORT					-		_	
			The data Is it OK	a of CVTF d ?	leterioratior	date wil	l be era	sed.			Glear
											Start
CVTF DE	TERIORATI										
	Ste	ep 🚽	Ye	s			No				
				_	_	-	_	_	_		
										1	
											End

Figure 48

82. When **CVFT DETERIORATION DATE** changes to "0", select **End**.

CONSOL 1-III plus	Ver.CSP43.20	VIN. IN INDIAL	31200008	venicie . ac	NIRA 817 2018	5	tates
Back Bank	Print Screen	Screen Capture	Recorded Data	Belp		M	•
Diagnosis (All Systems)	Selec	t Vehicle 🕨 Cont	irm Vehicle 🕨	Diagnosis (A Systems)	II TRANS	MISSION	
Work support : CON	FORM CVTF DET	ERIORTN					
							Clear
							Start
CVTF DETERIORA	TION DATE					0	
					Step 82		
					82		End

Figure 49

AUXILIARY GEARBOX CLUTCH POINT LEARNING

NOTE: Auxiliary gearbox clutch point learning will need to be completed twice.

83. Start the engine.

- 84. Set the parking brake, turn OFF the A/C, and then bring the engine to normal operating temperature range with CVT fluid temperature over 122°F (50°C).
- 85. Select Auxiliary gearbox clutch point learning, and then Start.

Or

• If this feature is not available in the vehicle that is being repaired, skip to **Manual Auxiliary gearbox clutch point learning on** page 35.

Back CSP43.20 Print Screen Cepters Mozarity	Recorded Dep ERT 12.2V VI MI
Diagnosis (All Select Vehicle Con	firm Vehicle Diagnosis (All Systems) TRANSMISSION
Self Diagnostic Data Monitor	support CCU CALIB DATA
Test Item	
ENGINE BRAKE ADJ.	
CONFORM CVTF DETERIOR TN	-
G SENSOR CALIBRATION	
ERASE CALIBRATION DATA	-
ERASE LEARNING VALUE	
ERASE MEMORY DATA	
Auxiliary gearbox clutch point learning	Step
Retrieving logging data	
1	1/1 Start

Figure 50

86. Follow the on screen instructions to meet all parameters displayed in Figure 51, and then select **Start**.

Ver.usr	43.20			otates
Back Home Print S	creen Screen Measurem Mode	eni Recorded Data	14.1V VI MI	
Diagnosis (All Systems)	Select Vehicle 🍺 Cor	nfirm Vehicle Diagnosis (All Systems)	TRANSMISSION	
ork support : Auxillary gear	box clutch point learning			
For safety purpose, securel Satisfy the following condi VEHICLE SPEED: 0 km/h (0 N POSITION SW: ON, IDLE FLUID TEMP: 50 - 100°C (1 Self-diagnosis results: OK	y apply the parking brake tions: mph), ENG SPEED: 400 r SW: ON, BRAKESW: ON, 22 - 212°F), Air conditione	pm - 1100 rpm, r operating cndtn: OFF,		Start
Current status				
MONITOR				
BRAKESW		On		Step
DLE SW		On		86
POSITION SW		On		
Air conditioner operating cn	dtn	Off		
Self-diagnosis results		ОК		
VEHICLE SPEED		0	km/h	
ENG SPEED		704	rpm	
FLUID TEMP		71	°C	
				End
		/	and the second s	

Figure 51

87. With the brake pedal still applied, move the shift selector to **D**.

• Figure 53 on the next page will display after moving the shift selector to **D**.

NOTE: The Current status will show EXECUTING, but until the shift selector is moved to **D**, Auxiliary gearbox clutch point learning will not complete.

		nfirm Vehicle Diagnosis (All Systems)	TRANSMISSION	
ork support : Auxiliary gearbo	x clutch point learning			
Driving force is generated dui Continue applying the foot br To start learning, set the select To stop learning, set the select	ing learning. ake until learning is co tor lever in D position or lever in P position.	mpleted to maintain the stationar	y state of the vehicle	Step 87
Current status			EXECUTING	3
			01	6
MONITOR			0	6
MONITOR		On	09	6
MONITOR BRAKESW IDLE SW		On	01	6
MONITOR BRAKESW IDLE SW N POSITION SW		On On On	01	6
MONITOR BRAKESW IDLE SW N POSITION SW Air conditioner operating cndtr		On On On Off	01	
MONITOR BRAKESW IDLE SW N POSITION SW Air conditioner operating cndtr Self-diagnosis results		On On On Off Off	01	
MONITOR BRAKESW IDLE SW N POSITION SW Air conditioner operating cndtr Self-diagnosis results VEHICLE SPEED		0n 0n 0n 0ff 0ff 0K	01 km/h	
MONITOR BRAKESW IDLE SW N POSITION SW Air conditioner operating cndtr Self-diagnosis results VEHICLE SPEED ENG SPEED		Оп Оп Оп Оп Об ОК О О 704	01 km/h rpm	End

Figure 52

88. Continue to depress the brake pedal until the Current status shows "Completed" as shown in Figure 54.

NOTE: This may take several minutes to complete.

	a mpias	Ver.CSP43.20								States				
Back	Home	Print Screen	Screen Capture	Measureman	t Recorded Data	() Help	ERT	14.1V						
Di Sy	agnosis (All stems)	▶ Se	elect Vehicle	Conf	irm Vehicle 🕨	Diagn Sys	osis (All tems)	TRA	NSMISSION					
ork supp	ort : Auxilla	ary gearbox	clutch point	learning										
Driving fo Continue To start I To stop le	applying ti earning, se earning, set	erated during the foot brake t the selector the selector	g learning. e until learn r lever in D lever in P po	ing is composition.	pleted to mair	ntain the	stationa	y state o	f the vehicle.	•	Start			
Current s	tatus								EXECUTING					
									15%					
MONITOR									_	1				
BRAKES	w				On]				
IDLE SW							On			1				
N POSITI	ON SW						Of			1				
Air conditioner operating cndtn Off							1							
Self-diagr	nosis result	5			ок					1				
VEHICLE	SPEED						0	km/h		1				
ENG SPE	ED						576	rpm			End			
FLUID TE	MP				73 °C									

Figure 53

- 89. Select End.
- 90. Move shift selector to **P**, turn ignition OFF, and release the brake pedal.

Ver.usra			States
Back Rome Print Sc	Screen Capture Mode Recorded		× 🖿 🔜 🔀
Diagnosis (All Systems)	Select Vehicle 🕨 Contirm Vehicle	Diagnosis (All Systems) TRANSMIS	SION
Nork support : Auxillary geart	clutch point learning		
Learning has been complete	and the second state of the state of the second state of		
Set selector lever in P positio	ind turn off the ignition switch.		
			Step
Current status		Con	lipieted 88
			Step
			89

Figure 54

- 91. Perform step 83 to step 90 one additional time (Total: Two times).
- 92. Turn OFF C-III plus.
- 93. Disconnect C-III plus from the vehicle.
- 94. Verify the CVT operates normally and no abnormal noises are heard during a test drive.
- 95. Erase DTCs (this is in addition to erasing the DTCs during TCM reprogramming).

Procedure complete.

MANUAL AUXILIARY GEARBOX CLUTCH POINT LEARNING

CAUTION: If clutch touch point learning is not performed, you may feel shift shock when the auxiliary transmission shifts.

NOTE: This manual procedure is only needed if the auto procedure is not available in C-III plus.

a. Start the engine and warm up the CVT fluid to 50°C (122°F).

NOTE: Confirm the CVT fluid temperature by "FLUID TEMP" in "Data Monitor".

- b. Turn the air conditioner OFF.
- c. Move the shift selector to **P**, turn the ignition OFF, and then wait 5 seconds.
- d. Start the engine and allow it to idle for 5 seconds.
- e. Turn the ignition OFF and then wait 30 seconds.
- f. Perform Step "e" to Step "f" two more times (Total: Three times).
- g. Start the engine.
- h. Allow engine to idle for 30 seconds.
- i. Move the shift selector to **D**.
- j. Accelerate the vehicle from 0 km/h (0 MPH) to 65 km/h (40 MPH) at low throttle (0.5/8 1/8).
- k. Decelerate the vehicle to 30 km/h (18 MPH) or less without using brakes.
- I. Stop the vehicle and move the shift selector to **P**.
- m. Turn the ignition OFF and wait 5 seconds or more.
- n. Restart the engine.
- o. Perform Step "j" to Step "o" four times (Total: Five times).
- p. Move the shift selector to **D**.
- q. Accelerate the vehicle from 0 km/h (0 MPH) to 45 km/h (28 MPH) at low throttle (0.5/8 1/8).
- r. Stop the vehicle and move the shift selector to **P**.
- s. Turn the ignition OFF for 5 seconds or more and then restart the engine.
- t. Perform Steps "q" to Step "t" four times (Total: Five times).
- u. Drive the vehicle and check that no shock occurs while shifting gears.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
April 13, 2017 NTB17-041		Original bulletin published.
January 5, 2018	NTB17-041a	Changes made throughout.
December 18, 2018	NTB17-041b	APPLIED VEHICLES and SERVICE INFORMATION sections revised. CONTROL VALVE REPLACEMENT and ERASE LEARNING VALUE procedures added. ERASE MEMORY DATA procedure removed. Statement added to page 2.