



# SERVICE BULLETIN

Classification:

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# VERSA AND SENTRA; CVT VALVE BODY REPLACEMENT WITH CONFIRMED DTC

This bulletin has been amended throughout. Discard all previous versions of this bulletin.

APPLIED VEHICLES:

2012 and 2017 Versa Sedan (N17) 2017 Versa NOTE (E12) 2014 - 2017 Sentra (B17)

APPLIED TRANSMISSION: CVT (RE0F11A)

**NOTE:** Does not apply to 2017 Sentra equipped with MR16DDT turbo engine.

### IF YOU CONFIRM

• If one or more of the DTCs listed in the DTC Chart on page 2 are present in the Transmission Control Module (TCM).

And

• No other DTCs are present other than what are listed in the DTC Chart.

## ACTION

1. Go to Repair Overview on page 3 to determine which repairs to perform to the applied vehicle being worked on.

**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 the repair.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

# **DTC Chart**

DTC CODE	DTC/CIRCUIT DIAGNOSIS
P0711	TRANSMISSION FLUID TEMPERATURE SENSOR A
P0712	TRANSMISSION FLUID TEMPERATURE SENSOR A
P0713	TRANSMISSION FLUID TEMPERATURE SENSOR A
P0740	TORQUE CONVERTER
P0743	TORQUE CONVERTER
P0846	TRANSMISSION FLUID PRESSURE SEN/SW B
P0847	TRANSMISSION FLUID PRESSURE SEN/SW B
P0848	TRANSMISSION FLUID PRESSURE SEN/SW B
P0962	PRESSURE CONTROL SOLENOID A
P0963	PRESSURE CONTROL SOLENOID A
P0998	SHIFT SOLENOID F
P0999	SHIFT SOLENOID F
P0966	PRESSURE CONTROL SOLENOID B
P0967	PRESSURE CONTROL SOLENOID B
P099B	SHIFT SOLENOID G
P099C	SHIFT SOLENOID G



# SERVICE PROCEDURE

# OIL PAN, CONTROL VALVE (Valve Body)

**Exploded View** 



# Valve Body: Removal and Installation

#### REMOVAL

- 1. Disconnect battery negative terminal.
- 2. Remove engine under cover.

- 3. Disconnect the CVT unit harness connector.
- 4. Remove the drain plug and overflow tube, and then drain the CVT fluid. **CAUTION:**

Use caution when looking into the drain hole as there is the risk of fluid entering the eye.

- 5. Remove the drain plug gasket from the drain plug.
- 6. Remove the oil pan mounting bolts (-), and then remove the oil pan and oil pan gasket.
  - ✤ : Vehicle front
- 7. Remove the magnets from the oil pan.
  - Clean magnets.
  - Clean CVT oil pan.
  - Reinstall magnets to the oil pan.
- Remove the strainer bolts 

   and then remove the strainer
   from the control valve.
  - Discard the strainer. A new one will be used during assembly.









Remove the nut @ and washer @, and then remove manual plate ①.
 CAUTION:

To remove nut, fix manual plate with flat-blade screwdriver (B).

10. Press the CVT unit harness connector into the transaxle case.

#### CAUTION:

# Never damage the CVT unit harness connector. NOTE:

Clean around the CVT unit harness connector to prevent foreign materials from entering into the transaxle case.

- Remove the control valve bolts 

   and then remove the control valve from the transaxle case.
   CAUTION:
  - Never drop the control valve and manual valve.

#### INSTALLATION

- Install the control valve, and then tighten control valve bolts

   to the specified torque.
   CAUTION:
  - Never pinch the harness between the control valve and the transaxle case.
  - Never drop the control valve and manual valve.



- Install the manual plate ① and washer ②, and then tighten nut ③ to the specified torque.
   CAUTION: To tighten nut, fix manual plate with flat-blade screwdriver.
  - Reassembly Torque: 22.1 N•m (2.3 kg-m, 16 ft-lb)



 Install oil pan (with oil pan gasket) to transaxle case and temporarily tighten oil pan bolts (←).

#### CAUTION:

Never reuse oil pan gasket.

C : Vehicle front

5. Tighten the oil pan bolts to specification in the order shown.

6. Tighten the overflow tube to the specified torque. CAUTION:

# If it is not tightened to the specified torque, the tube may be damaged.

- 7. Connect the CVT unit harness connector.
- 8. Connect battery negative terminal.
- 9. Fill with CVT fluid from overflow tube to the specified level. Refer to ESM for further information.
- 10. Install the drain plug and drain plug gasket to oil pan. CAUTION:
  - Never reuse drain plug gasket.
- 11. Reinstall engine under cover.





<sup>:</sup> Vehicle front

## TCM Reprogramming

**IMPORTANT:** Before starting the TCM reprogram procedure, make sure:

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

**NOTE:** TCM reprogramming applies to 2014-2016 Sentra only. For more information, see Repair Overview on page 3.

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

**CAUTION:** Make sure the plus VI is securly 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<sup>®</sup> 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<sup>®</sup> devices. If Bluetooth<sup>®</sup> signal waves are within range of the CONSULT PC and the 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/open C-III plus.

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

	Back	Home Print	Screen Capture Mode	
Step 9: plus VI is recognized	Connect VI MI	Kome Print Etion Status Serial No. 2300727 - Select VI/M ion Setting	Status Normal Mode/Wireless connection No connection	Precedent     Precedent
		Sub mode VDR	Language Setting	Maintenance

Figure 1

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

Back Bin Print Screen Screen Mode Recorded Data									
Connec	tion Status -		Diagnosis Menu						
	Serial No.	Status	Diagnosis (One System)						
<sub>м</sub>	2200727	∞)))							
	2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)						
м	-	$\otimes$							
		No connection	Re/programming, Configuration						
800	Select VI/M	I	Immobilizer						
Applicat	ion Setting Sub mode	Language Setting	Maintenance						
	VDR								
1									

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.

	Image: Back         Image: Back	
	Re/programming, Configuration Vehicle Selection	
	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.     -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.	
Step 12	-For ECU Configuration using manual mode 1. Confirm the vehicle's spec and its configuration spec, following the service manual. If writing the wrong 11 2. Operate the saving completely. Do not abort without saving data.	tep
	Confirmed instructions	13
	E: 0	

Figure 3

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.

	Back Home	Print Screen	Measurement R	Vehicle Selection	12.2V VI MI	
Step 14	Automatic S	n election(VIN)	Manual Selec	tion(Vehicle Name)		
	Vehicle Name : *MURANO Camp:P8201	JUKE	QUEST		Model Year :	NISSAN
	350Z	LEAF	ROGUE			INFINITI
	370Z	MAXIMA	SENTRA			
	370Z Convertible			_		
	ALTIMA			_		
	ALTIMA Hybrid	NISSAN GT-R	VERSA Hatchback	_		
	ARMADA	NV	VERSA Sedan	_		
	CUBE	PATHFINDER	XTERRA	_		CLEAR
	FRONTIER	PATHFINDER ARMADA	X-TRAIL			Select
				1/1	0/0	

Figure 4

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

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

	Back         Back         Print Screen         Screen Capture           Configuration         Vehic	Messerenert Mode Wehicle Confirmation Uehicle Confirmation uch "Confirm". In case you want to select another vehicle,	
Step 15: Verify here	VIN or Chassis # Vehicle Name :	<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Model Year	<b>B</b> 0 <b>1</b>	
		1/1	
		Step 16	Change Confirm

Figure 5

17. Select Confirm.



Figure 6

# 18. Select TRANSMISSION.

Image: Print Screen       Image: S							
ENGINE METER/M&A HVAC							
MULTI AV ABS	BCM CAN GATEWAY						
IPDM E/R	EV/HEV	Step					
HEAD LAMP LEVELIZER	AIR BAG						

Figure 7

# 19. Select Reprogramming.

	Image: Back     Imag
	Re/programming, Configuration System Selection Operation Selection 6/6
	Operation Selection
	Touch "Operation". In case over write current ECU, touch "Reprogramming". In case replacement of ECU, select an operation in REPLACE ECU category.
Step 19	Reprogramming
	Replacement OF ECU
	Programming (Blank ECU)
	Before ECU Replacement After 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 Home Print Screen Screen Masurement Capture Made Pelp Cat Screen Masurement Mode Pelp Cat Screen Masurement Mode Pelp Cat Screen Masurement Mode Pelp Cat Screen Screen Masurement Mode Pelp Cat Screen Screen Screen Capture Made Pelp Cat Screen Screen Screen Masurement Mode Pelp Cat Screen Screen Screen Made Pelp Cat Screen Screen Screen Made Pelp Cat Screen Screen Screen Screen Made Pelp Cat Screen Screen Screen Screen Screen Made Pelp Cat Screen	
Erase calibration data Erase calibration data. Maintain the following conditions and touch "Start". -Turn the ignition switch On. -The combustion engine is at a standstill. -Press brake pedal. -Press accelerator pedal between half (1/2) and quarter (1/4). -Shift selector lever to the R position.	Step 21
Current status Waiting for your operation	

Figure 9

22. When **COMPLETED** is displayed, select **Next**.

Ver.CSP43.20			States
Back Rime Print Screen	reen bture Measurement Mode Recorded Data	Image: Weight Help         Image: Weight Help	
Configuration	Operation Selection	alibration ata era	ration data sing 7/9
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 "Sta :till. (1/2) and quarter (1/4).	art".	Retry
Current status		(	OMPLETED
		Ste 22	p Next

Figure 10

23. Operate the ignition per the on screen instructions.



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



Figure 12

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

Back	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	<b>O</b> Help	A RT	12.9V	<b>Yil</b> Vi	X MI		
50	Re/programmin Configuration	g,	Save ca	libration data trasing	Write ca	libration da	ata					9/9
Write cal	ibration data											
Operate 1 Set	e according to	the followin; <sup>2°</sup> position.	g procedure	25.								
								Sto 2	ер 5		Ne	×t
				F	igure	13						

- 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.



Figure 14

28. Find the TCM Part Number (see Figure 15) and write it on the repair order.

NOTE: This is the current Part Number (P/N).



Figure 15

29 Compare the P/N you wrote down to the numbers in the **Current TCM Part Number** column in **Table A** below.

#### 30. Comparison results:

- If there is a <u>match</u>, continue with the reprogramming procedure.
- If there is <u>not a match</u>, reprogramming is not needed. Skip to **ERASE MEMORY DATA** on page 27.

Table A

MODEL	MODEL YEAR	CURRENT TCM PART NUMBER: 31036 -
Sentra	2014	9AM2A, 9AM2B, 9AM2C, 9AM9E, 9AM9D
	2015	4AT0A, 4AT0B, 4AT0C, 4AT0D, 4AT9D, 4AT9E
	2016	4AF6A, 4AF6B

31. Select Save.

- 32. Use arrows (if needed) to view and read all precautions.
- 33. Check the box confirming the precautions have been read.
- 34. Select Next.

	OLI-III plus V	er.v15.12.00	VII4.51	TALLET AND	01204	venicie.	5702 254 2010		00	unuy. 0.5.A.	
Back	Home	Print Screen	Screen Capture	Measurement. Mode	Recorded Data	<b>P</b> Help	12.1V	i 🛄 🗍	<u>м</u> і		
<b>\$</b> 0	Re/programmin Configuration	g,	Save	ECU Data	Pr	ecaution	Select	Program D	ata	8/11	
Precautio	n										
Operatin	g suggestion	าร:								_	
If the rep usable.	programming	programming	is unsucc	essful, ECU	software m	ay be damag	ged and ECU	is no lon	ger	$\wedge$	
Please r	eview the all	of precautions	s, and clici	k the ''Confir	m'' check b	ox after con	firming the its	s points.			
4. DO N	OT set the A/	C timer or A/C	c remote o	ontrol syste	m.						
<during< th=""><td>reprogramm</td><td>ing&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></during<>	reprogramm	ing>									
Never to	epress the br	ake pedal or f	compone turn the st	nts to preve eering whee	nt cable dis I.	connection					
Never op	oen each doo	r or trunk rid.									
									Ston		
p									Step		
									32		
2 7									5		
							ſ			Next	
C	onfirmed ir	nstructions					2/2				
				F	iaure	16					
					iguio	10					

**NOTE:** If you get the screen in Figure 17 and it is <u>blank</u> (no reprogramming listed), it means there is no reprogramming available for this vehicle. Close C-III plus and refer back to ASIST for further diagnosis.

Back Imme Print Screen Home Configuration Select Program Data	Screen Copure Precaution Precaution Measurement Mode Precaution Select Program	Data Confirm Vehicle Condition	9/11
Touch and select the reprog/pro In case no reprog/programming u reprog/programming data in CON	gramming data listed below. lata is listed below, confirm the vehicle seld SULT. EV/HEV TRANSMISSION	ection, VIN and	
Current Part Number	Part Number After Repro/programming	Other Information	
XXXXX-XXXXX XXXXX-XXXXX	XXXXX-XXXXX XXXXX-XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
		010	Next

Figure 17

- 35. Read the **Current Part Number** and **Part Number After Reprogramming**. They should be different.
- 36. Select Next.

Home Print Screen Screen	Messurement Recorded Data	
Configuration	Precaution Select Program Data	Condition 12/14
Select Program Data		
Confirm the detail listed below, and touch -In case the screen to select reprog/progra vehicle. -In case the part number after reprogrammi selection, VIN and reprog/programming dat	"Next" if OK. minig data is NOT displayed, only one da ng is wrong, touch "Re-select", and confir in CONSULT.	ata is available for this rm the vehicle
Part Number After Repro/programming	31030-4AF 55	Step 35
Current Part Number	3 <b>1</b> 03 <b>0</b> 4 <b>4</b> 76 <b>4</b>	These numbers
VIN		different
System	TRANSMISSION	
Other Information	B17_16MY_MR18DE_USA_SERVICE_TC NID:00F8	DSOK_CV_CALIBRATIO Re-select
Expected time to finish re/programming	10min	Step 36

Figure 17a

- 37. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).
- 38. 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.



Figure 18

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

#### 39. Select Start.

Back       Image: Back       Image: Back         Home       Print Screen         Configuration       Image: Back         Confirm Vehicle Condition         Confirm the vehicle condition as Then, confirm that judgment for al out of range, reprogramming or pro-	Select Progra	surement Mode Recorde Data am Data t the vehicle co OK, and touch ' stop.	ed Provide Condition Correctly.	13.0V MI Transferra icle cond VO	hitor battery
Monitor Item BATTERY VOLTAGE ENG SPEED SIG	Value 13.0 0	Unit V rpm	Judgment OK OK	Condiãon	
VEHICLE SPEED	0	km/h	ок		Step 39
			1	1/1	Start

Figure 19

40. Wait for both progress bars to complete.



Figure 20

41. When the screen in Figure 21 displays, the reprogramming is complete.

**NOTE:** If the screen in Figure 21 does <u>not</u> display (which indicates reprogramming did <u>not</u> complete), refer to the information on the next page.

- 42. Disconnect the battery charger (GR8) from the vehicle.
- 43. Select Next.

	042010 0001111y . 0.0.n.
Image: Back         Image: Back	12.8V VI MI
Re/programming, Configuration	12/12
Confirm Result	
Reprogramming or programming is completed. Touch "Next" to continue operation.	
	Step 43

Figure 21

**NOTE:** Additional steps/operations are required before C-III plus will provide the final reprogramming confirmation report. Continue with the reprogramming procedure on page 21.

# If reprogramming does not complete and the "!?" symbol displays as shown in Figure 22:

- Check battery voltage (12.0 15.5V).
- Ignition ON, engine OFF.
- External Bluetooth<sup>®</sup> 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.

Image       Image <th< th=""><th>A</th><th>ountry : U.S.A.</th><th>С</th><th></th><th></th><th>2011</th><th>AF ZEC</th><th>: LE</th><th>Vehicle</th><th></th><th></th><th></th><th>VIN:</th><th>4.21.00</th><th>Ver.V</th><th>.T-III plus</th><th>CONS</th></th<>	A	ountry : U.S.A.	С			2011	AF ZEC	: LE	Vehicle				VIN:	4.21.00	Ver.V	.T-III plus	CONS
Reiningeramming.       Transfer Data       Confirm Result         Confirm Result       Confirm Result         Reprogramming or programming is not completed properly, but you can retry reproglprogramming operation on this ECU.       Image: Confirm Result         Part number after       Reproglamming or programming or programming.       Image: Confirm Result         Part number after       28380       Confirm Result         Current Part Number       28380       Confirm Result         Vehicle       ZEOLEAF       VIN         JN1AZ0CPxBTxxxxxx       System       TeleEMATICS         Date       1/26/20xx4.34:55 PM       Retr			(	>	vi	12.4V	4		() Help	Recorded Data	z rement ode	Mea	Screen Capture	💓 t Screen	Pri	Home	<b>H</b> Back
Confirm Result         Reprogramming or programming is not completed properly, but you can retry reprog/programming or programming.         Touch "Retry" to retry reprogramming or programming.         Part number after Reprog/programming         Reprog/programming         283B0         Current Part Number         Vehicle         ZEOLEAF         VIN         JIN1AZ0CPxBTxxxxxx         System         TelkEMATKXS         Date       1//26/20xx4.34:56 PM	9/9	9							irm Result	Con	ita	nsfer l	Tra	◀	ing, on	/programm Configurati	0
Reprogramming or programming is not completed properly, but you can retry reprog/programming operation on this ECU.     Image: Completed properly, but you can retry reprog/programming operation on this ECU.       Touch "Retry" to retry reprogramming or programming.     Image: Completed properly, but you can retry reprog/programming operation on this ECU.       Part number after Reprog/programming     28380       Current Part Number     28380       Vehicle     ZEOLEAF       VIN     JIN1AZ0CPxBTxxxxxx       System     TREKEMATKCS       Date     1/26/20xx4.34:55 PM		_														sult	nfirm R
Part number after Reprog/programming     283B0       Current Part Number     283B0       Vehicle     ZEOLEAF       ViN     JN1AZ0CP_xBTXXXXX       System     TRIKEMATICIS       Date     1/26/20xx4/34:55 PM		R				gramr	og/pro	epro	an retry r	ly, but you	proper ing.	pleteo gram	is not con ning or pro	mming rogramn	progra CU. try rep	nming or on this E try" to re	eprogra peration ouch "f
Current Part Number         283B0           Vehicle         ZE0LEAF           VIN         JN14Z0CPxBTxxxxxx           System         YBLEXMATICIS           Date         11/26/20xx4:34:56 PM				283B0						g	er after ogrammir	art num eprog/p					
Vehicle         ZEOLEAF           VIN         JN1AZ0CPxBTxxxxxx           System         TRIXEMATIONS           Date         11/26/20xx4.34:56 PM				283B0						r	rt Numbe	urrent l					
VIN JN1A20CP <sub>X</sub> BTxxxxx System RitherMath.Cls Date 11/26/20xx4:34:56 PM Retr				ZEOLEAF								ehicle					
System TREKEMATICES Date 1/26/20xx4:34:55 PM Retry				JN1AZ0CP <sub>x</sub> BTxxxxx								IN					
Date 1/26/20 xx 4:34:55 PM Retr				FRE PMATKIS								ystem					
	У	Retry					5 PM	4:55	6/20 xx 4:3	1/2		-					ate
Other Information 6.26=>6.27								27	6.26=>6.			-				mation	ther Inf
Error Code RNDS_CAN_ALL_SC003-5=NR Prin	ıt	Print				NR	003-5=	SC0	AN_ALL_	RNDS_						•	rror Co

Figure 22

If reprogramming does <u>not</u> complete and the "X" symbol displays as shown in Figure 23:

- 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.

CONSULT-III plus Ver.V14.21.00	VIN:- Vehicle : -	Country : U.S.A.
Back Home Print Screen	Recorded Data	-
Configuration	Transfer Data Confirm Result	2/2
Confirm Result		
Reprogramming or programming is not reuse anymore. Touch "Home" to back to Home Screen	completed property. ECU has been broken, and impossible to , replace ECU with Service Manual.	
Part number after Reprog/programming	283B0	
Current Part Number	28380	
Vehicle	ZEOLEAF	
VIN	JN1AZ0CPxBTxxxxxx	
System	XECENDER	
Date	1/26/20XX 4:29:18 PM	
Other Information	6.26=>6.27	
Error Code		Print

Figure 23

44. 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.

ver.c.3P43.20					States
Back Eme Print Screen	Screen Capture Meas	Burement Mode	d Help	12.4V VI MI	-
Re/programming, Configuration	Confirm R	esult	Check Fluid Temperature	rase TCM EEPROM	16/19
Check Fluid Temperature					
Confirm the vehicle condition as I Then, confirm that judgment for all out of range, reprogramming or pro	isted below, se items indicate gramming may	t the vehicle co OK, and touch ' stop.	ndition correctly. 'Start". In case the vehi	icle condition is	
Monitor Item	Value	Unit	Judgment	Condition	
FLUID TEMP	53	°C	ок		
			1	Step 44	Next

Figure 24

- 45. 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 ¼ and ½.
  - e. Put shift selector in R.
- 46. Select Erase DTC.

Image: Second		VEI.G 3F 40.20					JIALES	
Check Fluid Temperature       Erase TCM EEPROM       Confirmation TCM EEPROM       17/19         Trase TCM EEPROM         Operate according to the following procedures.         1       Stop Engine. Turn Power switch / ignition SW to the ON position, and set shift lever to "R" position.         2       Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".         Erase DTC".	Back Back	Print Screen	en ure	Recorded Data	ERT 12.9V			
Erase TCM EEPROM Operate according to the following procedures.  Stop Engine. Turn Power switch / ignition SW to the ON position, and set shift lever to "R" position.  Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Erase DTC	Re/programm Configuration	ing,	Check Fluid Temperature	Erase TCM EEF	ROM	rmation TCM EPROM		17/19
Operate according to the following procedures.  1 Stop Engine. Turn Power switch / ignition SW to the ON position, and set shift lever to "R" position.  2 Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Erase DTC	Erase TCM EEPROM							
1       Stop Engine. Turn Power switch / ignition SW to the ON position, and set shift lever to "R" position.         2       Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".         Step	Operate according t	o the following proce	edures.					
Stop Engine. Turn Power switch / ignition SW to the ON position, and set shift lever to "R" position. Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC". Erase DTC".								
2 Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Erase 46 Erase DTC	1 Stop Engine, Tur	n Power switch / igniti	ion SW to the ON po	sition, and set shift	lever to "R" positio	on.		
2 Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Step 46  TC								
2 Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Step 46 TC								
2 Press brake pedal, and press accelerator pedal between half (1/2) and quarter (1/4). With this condition, touch "Erase DTC".  Step 46  TC								
"Erase DTC".	2	1		16 (4(0) and an entry		-list-re Arresh		
Step 46	"Erase DTC".	ii, and press accelerat	or pedal between na	if (1/2) and quarter (	1/4). With this con	dition, touch		
Step 46								
Step 46								
					Ste	ep 卢	Eras	se l
					4	6 7		0
Figure 25	,		Fic	gure 25				

- 47. 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.
- 48. Select Start.

Ver.CSP43.20		States
Back Home Print Screen	reen Mode Recorded Help ER	
Re/programming, Configuration	Check Fluid Temperature	Confirmation TCM EEPROM 17/19
Erase TCM EEPROM		
PERFORM ERASE CALIBRATION DAT MAIN TAIN THE FOLLOWING CONDITIO AND TOUCH "START": -VEHICLE: STOP -ENGINE: STOP -SELECTOR LEVER: R POSITION	A, DNS	Start
-ACCELERATOR PEDAL: DEPRESSEE	)	
Current status	Wai	ting for your operation
		Step
		40

Figure 26

49. When **COMPLETED** is displayed, select **Next**.

		States
Back Binne Print Screen	Screen Capture Mode Recorded Data	
Re/programming, Configuration	Check Fluid Temperature	Confirmation TCM EEPROM 17/19
Erase TCM EEPROM		
		Retry
Current status		COMPLETED
		Step 49 Next

Figure 27

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

Back Home Print Screen Screen Capture Measurement Recorded Help ERT 13.0V VI MI
Re/programming, Configuration Operation Selection
Erase calibration data
Operate according to the following procedures. 1. Ignition Switch : OFF (Hold it more than 10sec) 2. Ignition Switch : OFF (Hold it more than 10sec) 3. Ignition Switch : OFF (Hold it more than 10sec) 4. Ignition Switch : ON
Current status of ignition ON
Time (sec) 9 Timer
IGN SW ON IO Sec
IGN SW OFF 10 sec 10 sec

Figure 28

51. When **OK** is displayed, select **Next**.

		/er.CSP43.20					e. oenn			S	tates	
Back	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	<b>P</b> Help	ERT	12.8V	VI VI	× I		
<b>\$</b> 0 '	Re/programmin Configuration	<sup>g,</sup>	Erase 1	ICM EEPROM	Confii E	mation TC EPROM	M	Confirm Positio	Shift Le	ever ay		18/19
Confirmati	ion TCM EEP	ROM										
Confirm OK : Tou NG : Tou	the result wi Jch "Next" to Ich "Retry" to	hether EEPI o go to the i o repeat the	ROM has so next operati operation.	uccessfully be	een erased	•						
	Result			ок								
											R	etry
								Ste 51	р		N	ext
1						20						

Figure 29

52. 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.
- 53. Select Next.



54. Erase all DTCs as follows:

- a. Turn the ignition OFF.
- b. Turn the Ignition ON.
- c. Wait for DTC erase to complete.

# 55. Select Next.

	ver.cs	P43.20						State	15
Back	Home	Screen Sc Ca	reen poture	Recorded Data	<b>P</b> Help	ERT 1	(12.9V VI	<u>м</u> і	
<b>%</b> 0	Re/programming, Configuration		Confirm Shift Lever Position Display	Erase	All DTCs	Op	Print Result peration Comp	/ plete	20/21
Erase All	DTCs								
Accord	ing to the instruction	n below, eras	se All DTCs.						
1 Tui	n ignition switch to th	ne ON positio n igniti	n, then All DTCs are	automatically $FF > O$	erased. N				ON ON
	Current status of ig switch	nition	ON						
lf ti the	ne current status of actual vehicle igniti	ignition swi ion switch, t	itch displayed on t ouch "NEXT" to g	he screen di o to the next	ffers from screen.	the status	s of		
							Step 55		Next

Figure 31

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

57. Print a copy of this screen (Figure 32) and attach it to the repair order.

#### 58. Select Confirm.

Back Rome Print Screen Capture	Measurement Mode	Image: Weight of the second	VI MI	•		
Re/programming, Configuration	se All DTCs Operation	Result / Complete		18/18		
Print Result / Operation Complete						
All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Touch "Screen Capture", and save it. Screen capture data is in "CIII plus Data Folder" on desk top, and open the folder named "ScreenImages".						
Part number after Reprog/programming	Step	8 <b>719-17E</b> 52E				
Part number before Reprog/programming	56	3 <b>110-11EJ2</b>				
Vehicle		<b>2</b> 84 <b>3</b> 702				
VIN	JIN WA	4 BH HI (AN 190 19269) I				
System			Step	Print		
Date	<b>1</b> 月1 <b>月</b> 2	<b>₽1 ₽2</b> ₽10 <b>9.2</b> ₽ <i>A</i> <b>R</b> M ■ ■	57			
1/1 Step 58 Confirm						
	=:					

Figure 32

**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.

# ERASE MEMORY DATA

**NOTE:** This procedure is for all Applied Vehicles.

59. Navigate C-III plus to the screen shown in Figure 33.

• Diagnosis (All Systems) > TRANSMISSION > Work support

60. Select ERASE MEMORY DATA.

61. Select Start.

	States
Back Home Print Screen Capture Mode	ent Recorded Help
Diagnosis (All Systems) Select Vehicle	firm Vehicle Diagnosis (All Systems) TRANSMISSION
Self Diagnostic Data Monitor	support ECU CALIB DATA
Test Item	
ENGINE BRAKE ADJ.	
CONFORM CVTF DETERIOR TN	
G SENSOR CALIBRATION	
ERASE CALIBRATION DATA	
ERASE LEARNING VALUE	
ERASE MEMORY DATA	Step 60 Step
Retrieving logging data	
	Ĩ   <mark>4</mark>
	1/1 Start

Figure 33

- 62. 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.

64. When the Current status

COMPLETED, select

changes to

End.

63. Select Start.



Figure 34

- .C SP43.2 5 0 × ۲ Ô **Y**il 12.20 VI Diagnosis (All Systems) Diagnosis (All Systems) Confirm Vehicle TRANSMISSION ▶ Select Vehicle Work support : ERASE MEMORY DATA Retry Current status COMPLETED Step End 64 Figure 35
- 65. Move the shift selector to P, and then turn the ignition OFF.
- 66. Turn the ignition ON, and then confirm P and N display by moving the shift selector in those positions.

### CONFORM CVTF DETERIORTN

**NOTE:** This procedure is for all Applied Vehicles.

67. Navigate C-III plus to the screen shown in Figure 36.

# • Diagnosis (All Systems) > TRANSMISSION > Work support

# 68. Select CONFORM CVTF DETERIORTN.

69. Select Start.

VELUSTADZU		
Diagnosis (All Select Vehicle Co	firm Vehicle Diagnosis (All Systems) TRANSMISSION	
Self Diagnostic Data Monitor	support	
Test Item		
ENGINE BRAKE ADJ.		
CONFORM CVTF DETERIORTN	Step 68	
G SENSOR CALIBRATION		
ERASE CALIBRATION DATA		
ERASE LEARNING VALUE		
ERASE MEMORY DATA		Step
Auxiliary gearbox clutch point learning		
Retrieving logging data		$\checkmark$
		<b>C</b> (1)
	1/1	Start

Figure 36

70. Select Start.

Ver.CSP43.20		Venicle . SERTIA DTI 2010	States
Back Print Screen	Creen Ipture Mode Recorded Data	Image: Weight of the second	× • • • •
Diagnosis (All Systems) Select V	ehicle Confirm Vehicle	Diagnosis (All Systems) TRANSMI	SSION
Work support : CONFORM CVTF DETER	RIORTN		
			Clear
			Start
CVTF DETERIORATION DATE			Step 70
			ि हnd

Figure 37

#### 71. Select Clear.



#### 72. Select Yes.



# Figure 39

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



Figure 40

74. Start the engine.

75. Set the parking brake.

76. Turn OFF the A/C.

77. Bring the engine to normal operating temperature range.

78. Confirm the CVT fluid temperature is over 122°F (50°C).

## Auxiliary gearbox clutch point learning

**NOTE:** This procedure is for all Applied Vehicles.

79. Navigate C-III plus to the screen shown in Figure 41.

- Diagnosis (All Systems) > TRANSMISSION > Work support
- 80. Select Auxiliary gearbox clutch point learning.
- 81. Select Start.

VIN:SNTAB/AP	GT200003 VENICIE : SENTRA	States
Back Rome Print Screen Capture Mode	nt Recorded Data	
Diagnosis (All Select Vehicle Cor	firm Vehicle Diagnosis (All Systems)	► TRANSMISSION
Self Diagnostic Data Monitor	support ECU	
Test Item	_	
ENGINE BRAKE ADJ.		
CONFORM CVTF DETERIORTN		
G SENSOR CALIBRATION		
ERASE CALIBRATION DATA		
ERASE LEARNING VALUE		Step
ERASE MEMORY DATA		81
Auxiliary gearbox clutch point learning	Step	
Retrieving logging data	۲ <u></u> 00	
		Ctart
	1.	

Figure 41

82. Follow the on-screen instructions in Figure 42, and then select Start.

Ver.0.3F43.20			-	States
Back Eine Print Screen	reen Measurement Mode	ecorded Data	14.1V VI	× • 📄 🔛 🔀
Diagnosis (All Systems) Select Ve	hicle Confirm Veh	nicle Diagnosis (All Systems)		SION
Work support : Auxiliary gearbox clutch	point learning			
For safety purpose, securely apply the Satisfy the following conditions: VEHICLE SPEED: 0 km/h (0 mph), ENG N POSITION SW: ON, IDLE SW: ON, BI FLUID TEMP: 50 - 100°C (122 - 212°F), Self-diagnosis results: OK	a parking brake. ≩ SPEED: 400 rpm - 11 RAKESW: ON, Air conditioner operat	00 rpm, ting cndtn: OFF,		Start
Current status				
MONITOR				Ston
BRAKESW		On		Jiep
IDLE SW		On		82
N POSITION SW		On		
Air conditioner operating cndtn		Off		
Self-diagnosis results		ок		
VEHICLE SPEED		0	km/h	
ENG SPEED		704	rpm	
FLUID TEMP		71	°C	
				End

Figure 42

83. With the brake pedal still applied, shift the CVT selector lever into the D position.

• Figure 44 (located further below) will be displayed after shifting into D position.

**NOTE:** The Current status will show EXECUTING (Figure 43), but until the vehicle is shifted into the D position Auxiliary gearbox clutch point learning will not begin.

		Ver.CSP43.20		G 1 200303	Venicle . SLIVIP	CA D17 2010		States
		Back Home Print Screen	Creen Ipture Mode	nt Recorded Data	Help	14.1V V	i X Mi	-
		Diagnosis (All Select Vo	ehicle 🕨 Con	firm Vehicle	Diagnosis (All Systems)		MISSION	
		Work support : Auxiliary gearbox clutch	n point learning					
Step 83	>	Driving force is generated during lear Continue applying the foot brake unti To start learning, set the selector lever To stop learning, set the selector lever	ning. I learning is con r in D position. in P position.	npleted to mainta	in the stationar	y state of th	ne vehicle.	Start
		Current status				EX	ECUTING	
							0%	
		MONITOR						
		BRAKESW			On			
		IDLE SW			On			
		N POSITION SW			On			
		Air conditioner operating cndtn			Off			
		Self-diagnosis results			ок			
					0	km/h		
		ENG SPEED			704	rpm		End
		FLUID TEMP			72	°C		

Figure 43

84. Continue to depress the brake pedal until the **Current status** shows "Completed" as shown in Figure 45 on the next page.

**NOTE:** This may take several minutes to complete.

Ver.CSP43.20	101200000 101000.02111		States		
Back Bin Print Screen Capture	ent Recorded Data	14.1V VI MI	-		
Diagnosis (All Select Vehicle Con Systems)	firm Vehicle Diagnosis (All Systems)	TRANSMISSION			
Work support : Auxiliary gearbox clutch point learning					
Driving force is generated during learning. Continue applying the foot brake until learning is completed to maintain the stationary state of the vehicle. To start learning, set the selector lever in D position. To stop learning, set the selector lever in P position.					
Current status					
		15%			
MONITOR					
BRAKESW	On				
IDLE SW	On				
N POSITION SW	Off				
Air conditioner operating cndtn	Off				
Self-diagnosis results	ок				
VEHICLE SPEED	0	km/h			
ENG SPEED	576	rpm	End		
FLUID TEMP	73	°C			

Figure 44

85. When **Completed** is displayed, select **End**.

			States
Back Home Print Screen	Screen apture Measurement Mode Recorded Help	ERT 14.0V VI MI	
Diagnosis (All Systems)	Vehicle Confirm Vehicle S	nosis (All TRANSMISSION ystems)	
Work support : Auxiliary gearbox clutc	h point learning		
Learning has been completed. Set selector lever in P position and tu	rn off the ignition switch.		
Current status		Complete	d
		Step 85	End
	Figure 45		

86. Shift the vehicle into "P", turn ignition OFF and release the brake pedal.

87. Perform **Auxiliary Gearbox Clutch Point Learning** (steps 74 to 86) one additional time (a total of two times).

#### Erase DTCs

**NOTE:** This procedure is for all Applied Vehicles.

- 88. Use C-III plus to erase any transmission DTCs that may have stored.
- 89. Turn OFF C-III plus.
- 90. Disconnect C-III plus and the plus VI from the vehicle.
- 91. Verify the CVT operates normally and no abnormal noises are heard during a test drive.

#### PARTS INFORMATION

#### All Vehicles

DESCRIPTION	PART #	QUANTITY
GASKET (CVT drain plug)	11026-JA00A	1
NS-3 CVT Fluid		
(All vehicles listed below except	999MP-NS300P (1)	as needed
2012 MY Versa Sedan)		
NS-2 CVT Fluid (2012 MY Versa Sedan only)	999MP - NS200P (1)	as needed

(1) NS-2 and NS-3 CVT Fluids can be ordered through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621). Website order via link on dealer portal <u>www.NNAnet.com</u> and click on the "Maintenance Advantage" link.

#### Versa Sedan/ Versa NOTE MY 2017

DESCRIPTION	PART #	QUANTITY	
KIT-CONTROL VALVE	3170E-X428B	1	
Kit Includes			
VALVE ASSY - CONTROL		1	
GASKET-OIL PAN		1	
STRAINER ASSY-OIL		1	

## Versa Sedan MY 2012

DESCRIPTION	PART #	QUANTITY
VALVE ASSY - CONTROL	31705-3JX8A	1
STRAINER ASSY-OIL	31728-3JX0B	1
GASKET-OIL PAN	31397-3JX0A	1

#### Sentra MY 2014-2017

DESCRIPTION	PART #	QUANTITY	
KIT-CONTROL VALVE	3170E-X428C	1	
Kit Includes			
VALVE ASSY - CONTROL		1	
GASKET-OIL PAN		1	
STRAINER ASSY-OIL		1	

## **CLAIMS INFORMATION**

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

OPERATION	PFP	OP CODE	SYM	DIAG	FRT
Replace Control Valve	(1)	JD48AA	HC	32	(2)

(1) Refer to the Electronic Parts Catalog (FAST) and use the applicable Control Valve Assembly Part Number (31705-\*\*\*\*) as the Primary Failed Part.

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.

### And if needed on the same line

OPERATION	OP CODE	FRT
Reprogram TCM	JE99AA	(1)

(1) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.