

SERVICE BULLETIN

Classification:

AT17-004

Reference:

NTB17-041

Date: April 13, 2017

ADDITIONAL SERVICE WHEN REPLACING CONTROL VALVE OR TRANSAXLE ASSEMBLY

 APPLIED VEHICLES:
 2013-2017 Sentra (B17)

 2014-2017 Versa Note (E12)
 2013-2017 Versa (N17)

APPLIED TRANSMISSION: CVT

SERVICE INFORMATION

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

- The original calibration data must first be erased from the TCM and then new calibration data written.
- If the calibration data is not erased, 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 procedure as they are performed in the order listed below.

CHECK OFF	PROCEDURE	PAGE
	ERASE CALILBRATION DATA	2
	ERASE LEARNING VALUE	4
	CONFORM CVTF DETERIORTN	5
	Auxiliary gearbox clutch point learning	8

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

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

ERASE CALILBRATION DATA

- 4. Navigate C-III plus to the screen shown in Figure 1 below.
 - Diagnosis (All Systems) / TRANSMISSION / Work support
- 5. Select ERASE CALILBRATION DATA.
- 6. Select Start.

CONSULT-III plus Ver.64.50 VIN:3N1AB7AP7GY208589 Vehicle : SENTRA B17 2016 Country : United States
Ver.CSP45.20 States Back Mome Streen Measurement Measurement Print Screen Measurement Print Screen Measurement Print Screen Measurement Print Screen Print Screen Measurement Print Screen Measurement Print Screen Print Screen Measurement Print Screen Print Screen Measurement Print Screen P
Diagnosis (All Systems) Confirm Vehicle Confirm Vehicle TRANSMISSION
Self Diagnostic Data Monitor
est Item
ENGINE BRAKE ADJ.
CONFORM CVTF DETERIORTN
G SENSOR CALIBRATION
ERASE CALIBRATION DATA Step 5
ERASE MEMORY DATA
Auxiliary gearbox clutch point learning
Retrieving logging data
1/1 Start

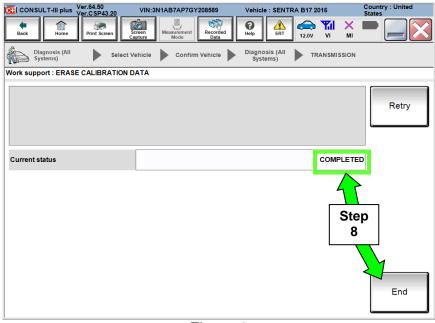
Figure 1

7. Select Start.

强 CONSULT-III plus	Ver.64.50 Ver.CSP43.20	VIN:3N1AB7AP4	FY212677	Vehicle : SENTR	A B17 2015	C d St	ountry : United	
Back Home	Print Screen	Screen Capture	t Recorded Data	Pelp ERT	11.6V VI	MI		
Diagnosis (All Systems)	Select	Vehicle 🕨 Conf	irm Vehicle 🕨	Diagnosis (All Systems)	TRANSMI	SSION		
Work support : ERAS	E CALIBRATION	DATA						
PERFORM ERASE (MAINTAIN THE FOL AND TOUCH "STAR -VEHICLE: STOP -ENGINE: STOP -SELECTOR LEVER -ACCELERATOR PE	LOWING CONDIT	'ION S					Start	Step 7
-ACCELERATOR PE	EDAL. DEFRESSE							
Current status				Waiting	ı for your ope	ration		
							End	
				<u>^</u>				

Figure 2

8. When the **Current status** changes to **COMPLETED**, select **End**.



ERASE LEARNING VALUE

9. With the C-III plus still connected, select ERASE LEARNING VALUE.

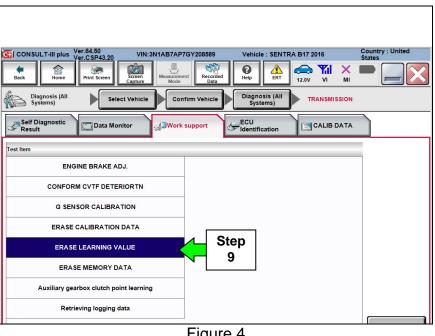


Figure 4

10. Select Start.

CONSULT-III plus Ver.64.50 Ver.CSP43.20	VIN:3N1AB7AP4FY212677	Vehicle : SENTRA B17 2015	Country : United States	
Back Home Print Screen SC	reen pture Measurement Mode	Image: Weight Heip Image:	× • • • •	
Diagnosis (All Select Ve	ehicle Confirm Vehicle	Diagnosis (All Systems) TRANSMIS	SION	
Work support : ERASE LEARNING VALU	E			
PERFORM ERASE LEARNING VALUE. MAINTAIN THE FOLLOWING CONDITIC AND TOUCH "START": -VEHICLE: STOP -ENGINE: STOP -SELECTOR LEVER: R POSITION -ACCELERATOR PEDAL: DEPRESSED			Start	Step 10
Current status		Waiting for your operation	ation	
			End	

Figure 5

11. When the **Current status** changes to **COMPLETED** select **End**.

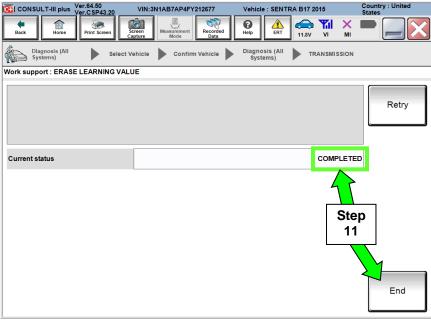


Figure 6

CONFORM CVTF DETERIORTN

- 12. With the C-III plus still connected, select **CONFORM CVTF DETERIORTN**.
- 13. Select Start.

CONSULT-III plus Ver.64.50 VIN:3N1AB7AP7	GY208589 Vehicle : SENTRA B17 2010	6 Country : United States
Back Rome Print Screen Capture Measureme Mode	Becovered to the second s	VI MI
Diagnosis (All Select Vehicle Con	irm Vehicle Diagnosis (All Systems) TRAM	NSMISSION
Self Diagnostic Data Monitor	support Jentification	LIB DATA
Test Item		
ENGINE BRAKE ADJ.		
	Step 12	
G SENSOR CALIBRATION		
ERASE CALIBRATION DATA		
ERASE LEARNING VALUE		
ERASE MEMORY DATA		
Auxiliary gearbox clutch point learning		
Retrieving logging data		
		Start Ste
	1/1	Start 13

Figure 7

14. Select Start.

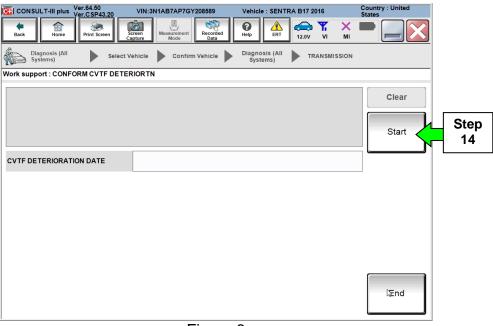


Figure 8

15. Select Clear.

CONSULT-III plus Ver.64.50 Ver.CSP43.20	VIN:3N1AB7AP7GY208589	Vehicle : SENTRA B17 2016	Country : United States	
Rack Home Print Screen	creen apture Measurement Mode Recorded Data	Image: Weight Help Image:	× • • • •	
Diagnosis (All Systems) Select V	Confirm Vehicle	Diagnosis (All TRANSMIS Systems)	SSION	
Work support : CONFORM CVTF DETER	RIORTN			
			Clear	Step 15
			Start	
	r			
CVTF DETERIORATION DATE			2864	
			End	

Figure 9

16. Select Yes.

CONSULT-III plus Ver.64.50 Ver.CSP43.20	VIN:3N1AB7AP7GY208589	Vehicle : SENTRA B17 2016	Country : United States
Back Rime Print Screen	Screen Capture		
Diagnosis (All Systems) Select	Vehicle Confirm Vehicle	Diagnosis (All Systems) TRANSMISSI	ION
	Consult r-in prus Ver.CSP43.20 Vinsort Kol / R/101 20000 Venice - SELTIKK B / 2010 States Back Image: Section Mode Image: Section Mode Image: Section Mode Image: Section Mode Diagnosis (All Select Vabicia Confirm Vabicia Diagnosis (All TRANSMISSION		
Information			
		date will be erased.	ପ୍ଟୁear
			Start
CVTF DETERIORATION			
	Yes	No	
			End

Figure 10

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

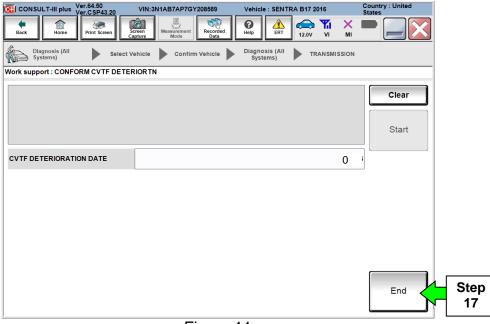


Figure 11

Auxiliary gearbox clutch point learning

NOTE: Please complete Auxiliary gearbox clutch point learning twice.

- 18. Start the engine.
- 19. 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).

20. 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 11.

CONSULT-III plus Ver.65.20 VIN:3N1AB7AP7	7GY208589 Vehicle : SENTRA B17 2016 Country : United States
Back Resurrence Resurrence Mode	ent Recorded Help RT 12.2V VI MI - CONTRACTOR
Systems)	nfirm Vehicle Diagnosis (All Systems) TRANSMISSION
Self Diagnostic Data Monitor	support
Test Item	
ENGINE BRAKE ADJ.	
CONFORM CVTF DETERIORTN	
G SENSOR CALIBRATION	-
ERASE CALIBRATION DATA	
ERASE LEARNING VALUE	
ERASE MEMORY DATA	
Auxiliary gearbox clutch point learning	Step 20
Retrieving logging data	
L	1/1 Start
	Figuro 12

Figure 12

21. Follow the on screen instructions to meet all parameters displayed in Figure 13 and then select **Start**.

CONSULT-III plus	Ver.65.20 Ver.C SP43.20	VIN:3N1AB7AP	7GY208589	Vehicle : SENT	RA B17 2016		Country : United States
Back Home	Print Screen Sc	reen pture Mode	ent Recorded Data	Help	14.1V VI		
Diagnosis (All Systems)	Select Ve	ehicle 🕨 Con	firm Vehicle 🕨	Diagnosis (All Systems)	TRANS	MISSION	
Vork support : Auxilia	ry gearbox clutch	point learning					
For safety purpose, s Satisfy the following VEHICLE SPEED: 0 I N POSITION SW: ON FLUID TEMP: 50 - 10 Self-diagnosis results	conditions: km/h (0 mph), EN0 I, IDLE SW: ON, B 00°C (122 - 212°F),	G SPEED: 400 r RAKESW: ON,	pm - 1100 rpm,	n: OFF,			Start
Current status						h	
MONITOR							N Step
BRAKESW				On			21
IDLE SW				On			
N POSITION SW				On			
Air conditioner opera	ting cndtn			Off			
Self-diagnosis results	5			OK			
VEHICLE SPEED				0	km/h		
ENG SPEED				704	rpm		
FLUID TEMP				71	°C		
					1		End

Figure 13

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

• Figure 15 on the next page will be displayed after shifting into D position.

NOTE: The Current status will show EXECUTING, but until the vehicle is shifted into the D position Auxiliary gearbox clutch point learning will not complete.

CONSULT-III plus Ver.65.20 Ver.CSP43.20	VIN:3N1AB7AP7GY208589	Vehicle : SENTRA E	17 2016	Country : United States
Back Home Print Screen Sc	reen pture Mode Recorded Data	Help	E.1V VI MI	
Diagnosis (All Select Ve	confirm Vehicle	Diagnosis (All Systems)	TRANSMISSION	
Work support : Auxiliary gearbox clutch	point learning			
Driving force is generated during lear Continue applying the foot brake until To start learning, set the selector leve To stop learning, set the selector lever	learning is completed to ma r in D position.	aintain the stationary si	ate of the vehicle	Step 22
Current status			EXECUTING	
			0%	
MONITOR				
BRAKESW		On		
IDLE SW		On		
N POSITION SW		On		
Air conditioner operating cndtn		Off		
Self-diagnosis results		ок		
VEHICLE SPEED		0 km	/h	
ENG SPEED		704 rpn	ı	End
FLUID TEMP		72 °C		

Figure 14

23. Continue to depress the brake pedal until the Current status shows "Completed" as shown in Figure 16.

NOTE: This may take several minutes to complete.

CONSULT-III plus Ver.65.20 Ver.CSP43.20	VIN:3N1AB7AP7G	Y208589	Vehicle : SENTR	A B17 2016		Country : United States
Back Home Print Screen Sc	reen Measurement	Recorded Data	Pelp ERT	14.1V VI	× I	
Image: Consult Filling User CSP43.20 Virtual PAPE / 200000 Venicle : SENTRA B1/2010 States Image: Back Image: Consult Screen Image: Consult A B1/2010 States Image: Consult A B1/2010 States Image: Back Image: Consult A B1/2010 Image: Cons						
Work support : Auxiliary gearbox clutch	point learning					
Continue applying the foot brake until To start learning, set the selector level	learning is comp r in D position.	leted to mainta	ain the stationar	y state of the	vehicle.	Start
Current status				EXE	CUTING	
					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 15

24. Select End.

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

Back Home	Print Screen	Screen Capture	Measurement Mode	ecorded Data	Vehicle : SENT	TRA B17 20	Yil >	States	r : United	
Diagnosis (All Systems) Work support : Auxill Learning has been Set selector lever in	iary gearbox		-		Diagnosis (All Systems)	TR.	ANSMISSIC	ИС	_	
Current status							Comple	eted	Step 23]
									End	S

Figure 16

- 26. Perform step 20 to step 25 one additional time (Total: Two times).
- 27. Turn OFF C-III plus.
- 28. Disconnect C-III plus from the vehicle.
- 29. Verify the CVT operates normally and no abnormal noises are heard during a test drive.
- 30. 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. Shift the CVT selector lever to the P position, turn the ignition OFF and then wait for 5 seconds.
- d. Start the engine and allow it to idle for 5 seconds.
- e. Turn the ignition OFF and then wait for 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. Shift the CVT selector lever to D position.
- 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 shift the selector lever to P position.
- m. Turn the ignition OFF and wait for 5 seconds or more.
- n. Restart the engine.
- o. Perform Step "j" to Step "o" four times (Total: Five times).
- p. Shift the selector lever to D position.
- 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 shift the selector lever to P position.
- 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.