



SERVICE BULLETIN

Classification:	Reference:	Date:
AT15-005b	NTB15-015b	September 10, 2015

PATHFINDER, QUEST, MURANO, MAXIMA, ALTIMA V6 CVT JUDDER AND DTC P17F0 OR P17F1 STORED

This bulletin has been amended to update the Applied Vehicles, If You Confirm, Actions and Service Procedure Overview. Please discard the previous versions of this bulletin.

- | | |
|--------------------------------|---|
| APPLIED VEHICLE: | 2013-2015 Pathfinder (R52) with V-6 engine only
2015 Altima Sedan (L33) with V-6 engine only
2015 Quest (E52)
2015 Murano (Z52)
2016 Maxima (A36) |
| APPLIED VINS AND DATES: | 2013-2014 Pathfinder (R52) All
2015 Pathfinder (R52) built after 5N1AR2MN(*)FC663717/April 14, 2015
built after 5N1AR2MM(*)FC663617/April 14, 2015
2015 Altima (L33) built after 1N4BL3AP(*)FC494180/August 19, 2015
2015 Quest (E52) built after JN8AE2KP(*)F9132672/July 09, 2015
2015 Murano (Z52) built after 5N1AZ2M(*)FN229612/April 10, 2015
2016 Maxima (A36) All |

APPLIED TRANSMISSION: CVT

IF YOU CONFIRM:

The customer reports a transmission judder (shake, shudder, single or multiple bumps or vibration)

AND

One of these DTCs is stored.

- **P17F1** (CVT_JUDDER (C/U INSPECTION))
- **P17F0** (CVT_JUDDER (T/M INSPECTION))

NOTE:

- **If a transmission judder (as described above) is not reported, this bulletin does not apply.**
- **If either **P17F1** or **P17F0** are not stored, this bulletin does not apply.**

See Actions on the next page

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.

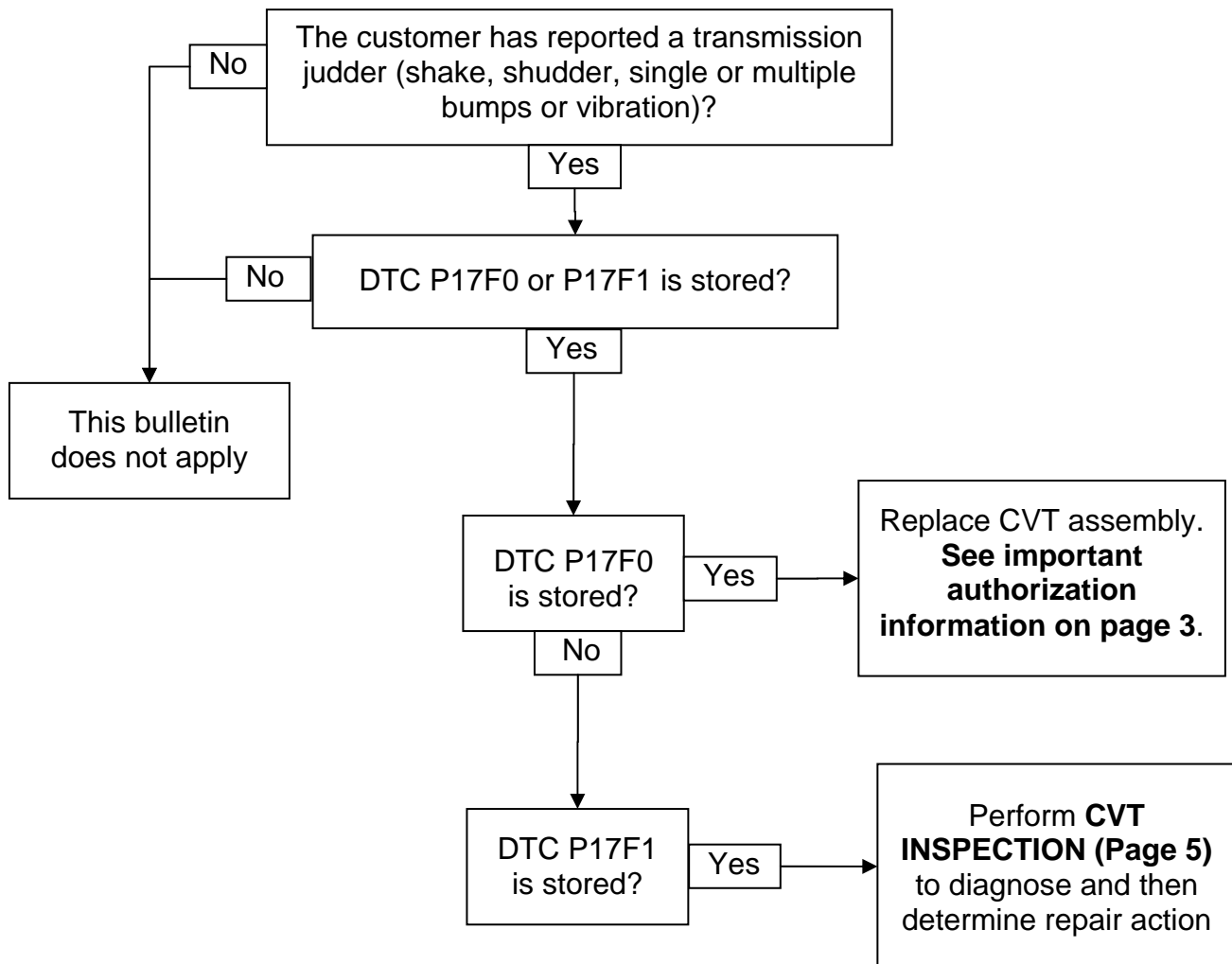
ACTIONS:

Perform the SERVICE PROCEDURE in this bulletin, starting on page 4.

- Review the flow chart below.
- Follow the repair recommendation given by C-III plus in the CVT INSPECTION section of this bulletin.
- Make sure to follow the component replacement approval procedures.

IMPORTANT: Before starting, make sure ASIST on the CONSULT PC has been synchronized (updated) to the current date, and all software updates have been installed.

Service Procedure Overview



Component Replacement Approval Procedures

- If P17F0 is stored for CVT replacement:
 - a. Complete the Powertrain Call Center (PCC) CVT Preauthorization Form in ASIST.
 - b. Attach the C-III plus screen printouts showing the VIN and DTC to the Preauthorization Form.
 - c. Call the PCC for authorization at **800-973-9992 (opt 2)**.

- If the **CVT INSPECTION** in the Service Procedure indicates:
 - A **Control Valve** replacement is required:
 - a. Email the C-III plus screen printouts showing the VIN and DTC, VIN, dealer code, and dealer contact name to the Dealer Parts Information Center (DPIC) for authorization at: CVTControlValve@nissan-usa.com

 - **CVT assembly** replacement is required:
 - a. Complete the PCC CVT Preauthorization Form in ASIST.
 - b. Attach the C-III plus screen printouts showing the VIN and DTC to the Preauthorization Form.
 - c. Call the PCC for authorization at **800-973-9992 (opt 2)**.

SERVICE PROCEDURE

IMPORTANT: Before starting, make sure ASIST on the CONSULT PC has been synchronized (updated) to the current date, and all software updates have been installed.

1. Connect the CONSULT PC to the vehicle.
2. Start C-III plus.
3. Wait for the plus VI to be recognized.
4. Select **Diagnosis (All Systems)**.

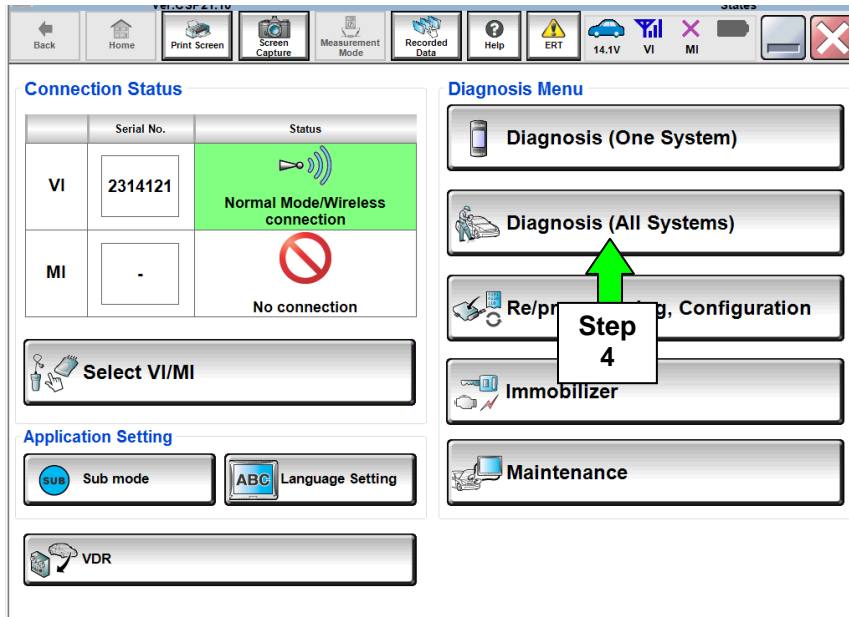


Figure 1

5. Select **TRANSMISSION**.

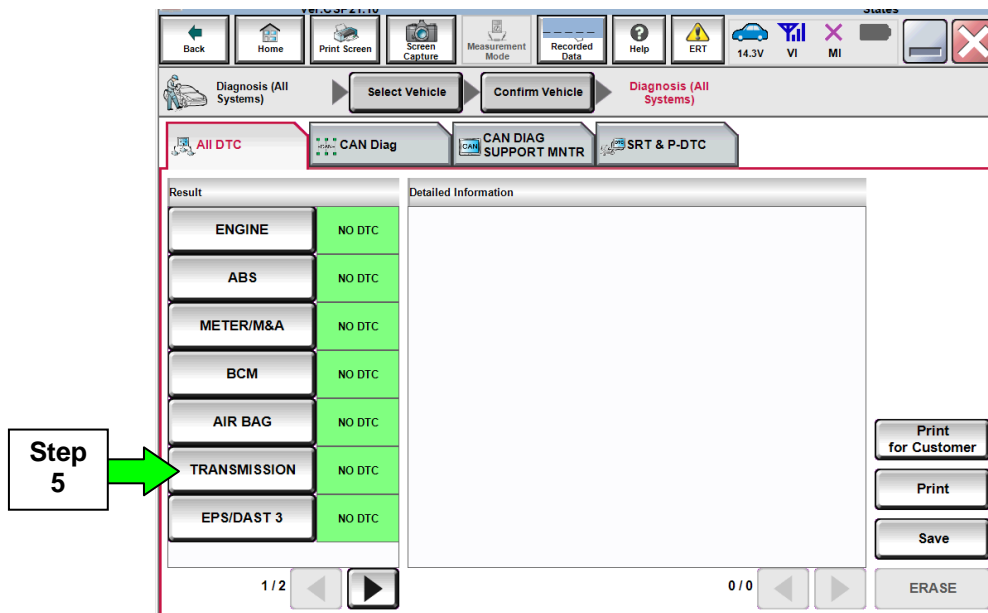


Figure 2

Confirm Which Code is Stored (P17F0 or P17F1)

6. Select Self Diagnostic Result, print a copy of the screen (Figure 3) showing the DTC and attach it to the repair order.

IMPORTANT: The screen shot MUST show the vehicle's VIN and CONSULT-III plus version at the top.

- If P17F0 is stored:
 - a. First complete the Powertrain Call Center (PCC) CVT Preauthorization Form in ASIST.
 - b. Attach the C-III plus screen printouts showing the VIN and DTC to the Preauthorization Form.
 - c. Call the PCC for authorization at **800-973-9992 (opt 2)**.
 - d. After authorization has been received proceed to step 23.
- If P17F1 is stored; proceed to **CVT INSPECTION** below.

NOTE: P17F0 and P17F1 are permanent DTCs. Do not attempt to ERASE them at this time.

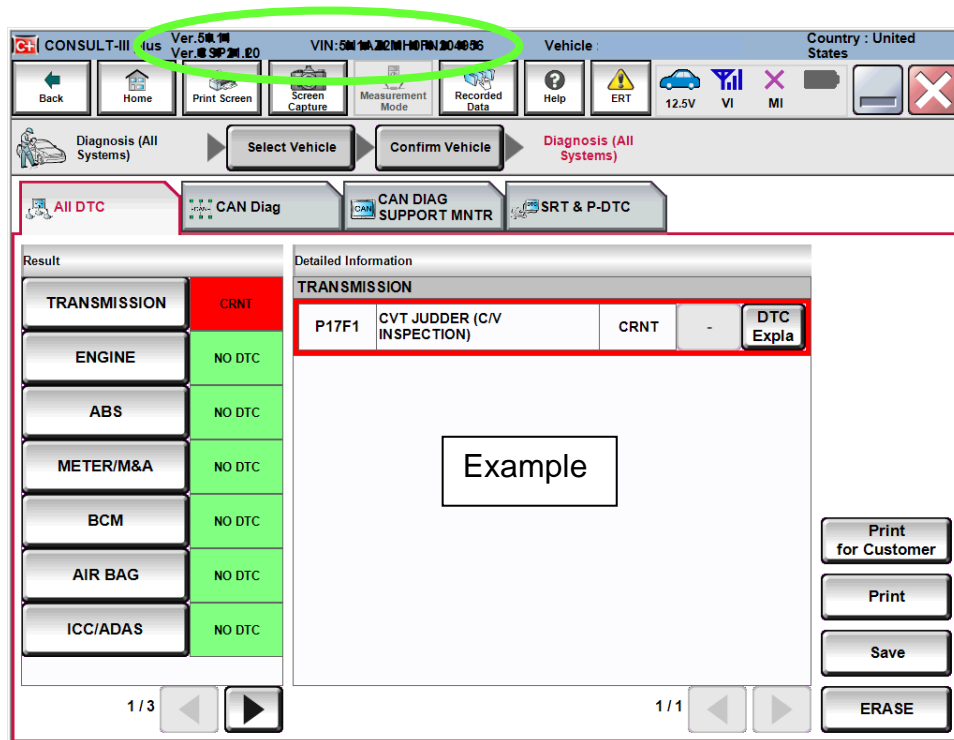


Figure 3

CVT INSPECTION (Do not perform this test unless DTC P17F1 is stored)

7. Place the vehicle on a lift and raise just high enough to lift the tires off the ground.

NOTE: Clear any loose objects from around the wheels. During this test they will rotate at simulated road speeds of up to 30 mph.

- Once the vehicle is on the lift, confirm that the wheels are pointed straight ahead.

8. Start the engine.

9. Select **Work support**.

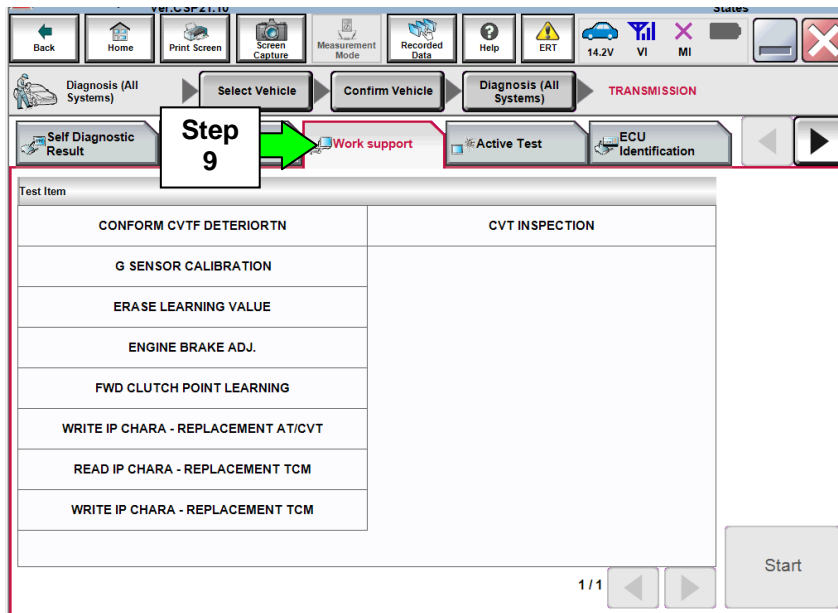


Figure 4

10. Select **CVT INSPECTION**.

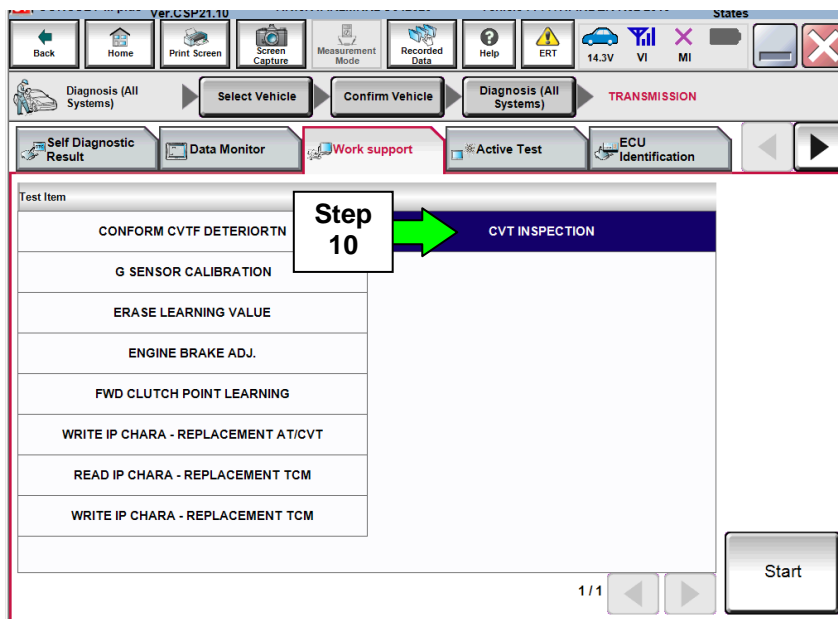


Figure 5

- The CVT inspection screen is displayed starting on screen 1 of 4 (Figure 6).

IMPORTANT: Read the cautionary statements (red box in Figure 6) and verify that the battery voltage is above 12V.

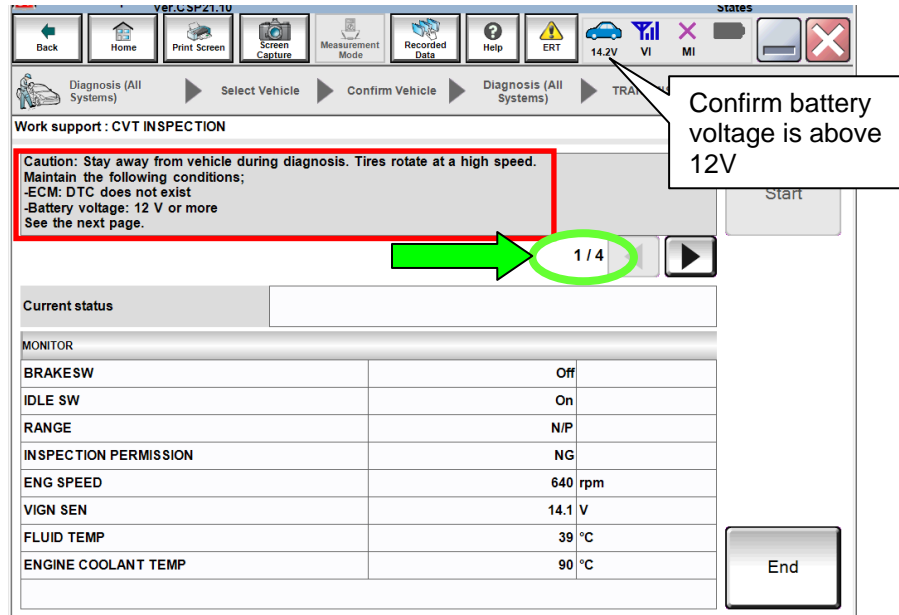


Figure 6

11. Select the arrow to page through to screen 2 of 4.

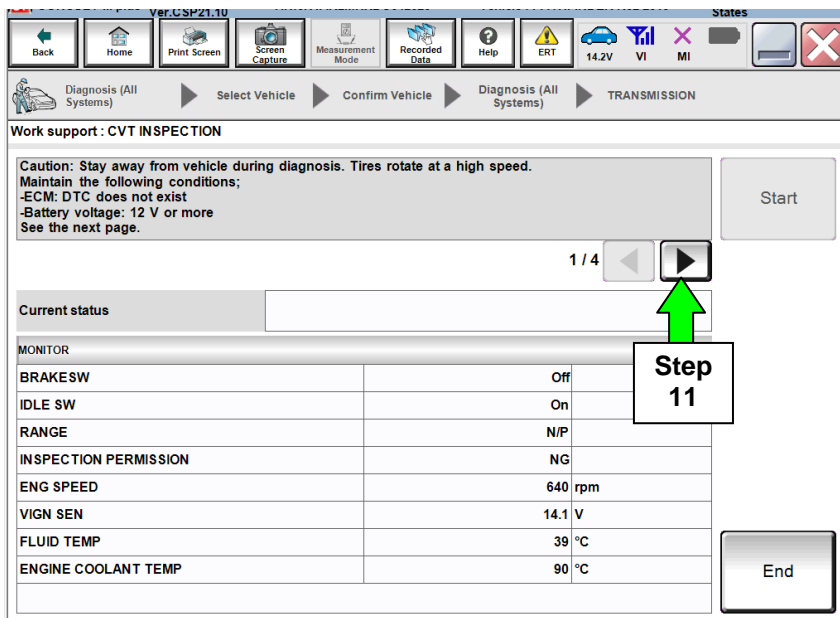


Figure 7

12. With the engine running and the wheels off the ground:

- a. Depress the brake pedal and then move the shift lever to the “D” position.
- b. Release the brake pedal.

CAUTION: Do not leave the vehicle unattended while the vehicle’s wheels are turning or during the following self-test.

13. Select the arrow to proceed to screen 3 of 4.

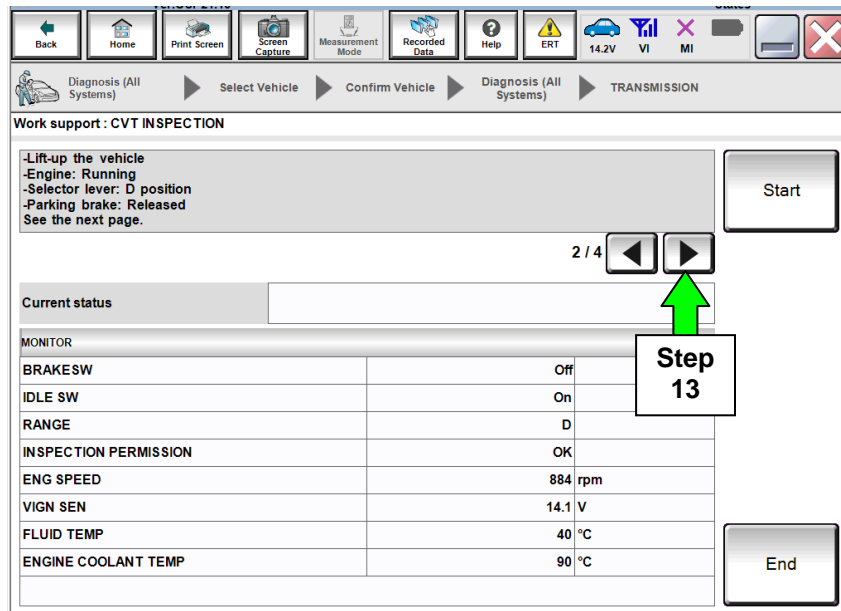


Figure 8

14. Confirm that the following systems are **OFF**:

- **Auto All Wheel Drive (if equipped)**
- **Air Conditioning**
- **Head Lights**

15. Select the arrow button to proceed to screen 4 of 4.

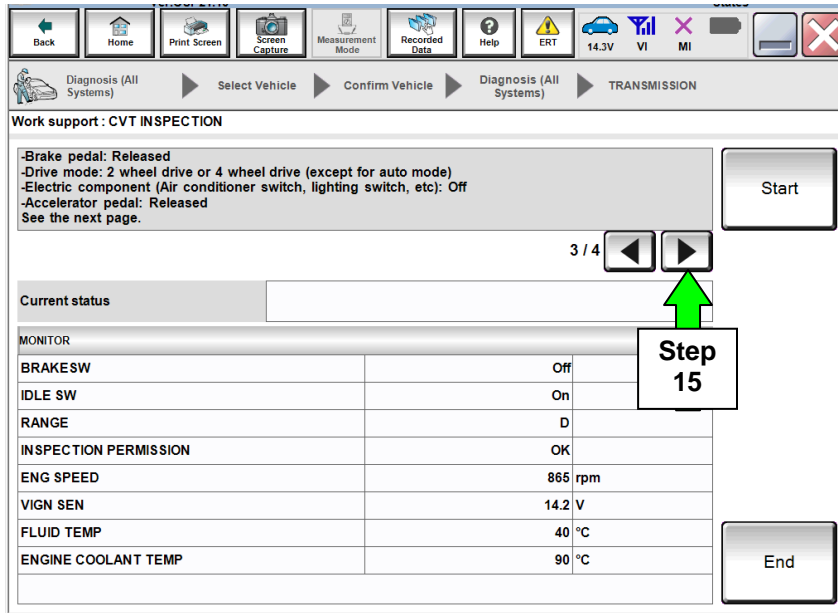


Figure 9

16. Confirm that the **ENGINE COOLANT TEMP** and [CVT] **FLUID TEMP** are at least:

- **ENGINE COOLANT TEMP** - 140°F (60°C)
- [CVT] **FLUID TEMP** - 86°F (30°C)

17. Select the **Start** button to begin the CVT Inspection.

- A “Current status” screen will display the progress as the inspection is performed.

NOTE: The inspection will run for approximately 30 minutes.

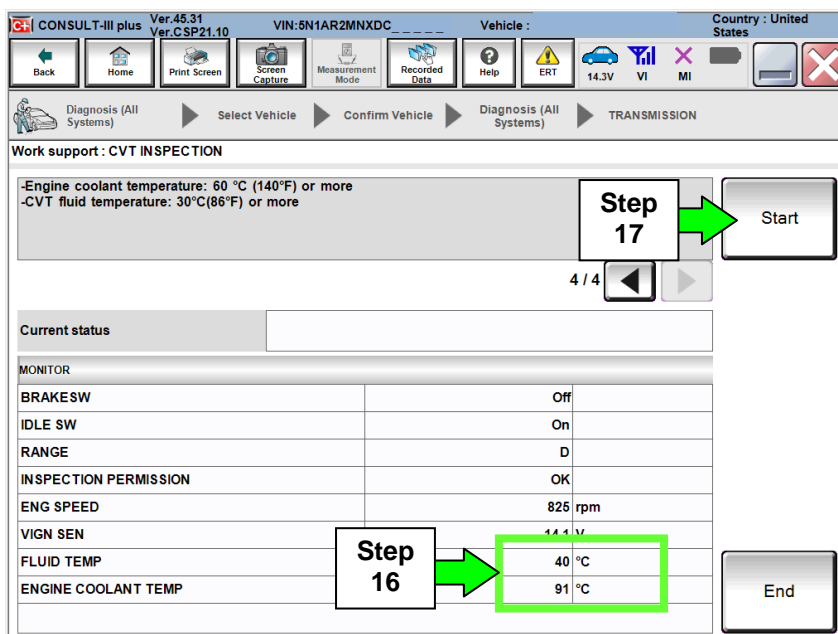


Figure 10

18. When the inspection is complete:

- a. If “**Error detected**” is displayed (Figure 11), CVT assembly replacement is indicated.
 - Print the C-III plus screen (Figure 11) and attach it to the repair order.
 - Press the brake pedal and move the shifter lever into the “P” position, select **End** on C-III plus and then proceed to Step 19.

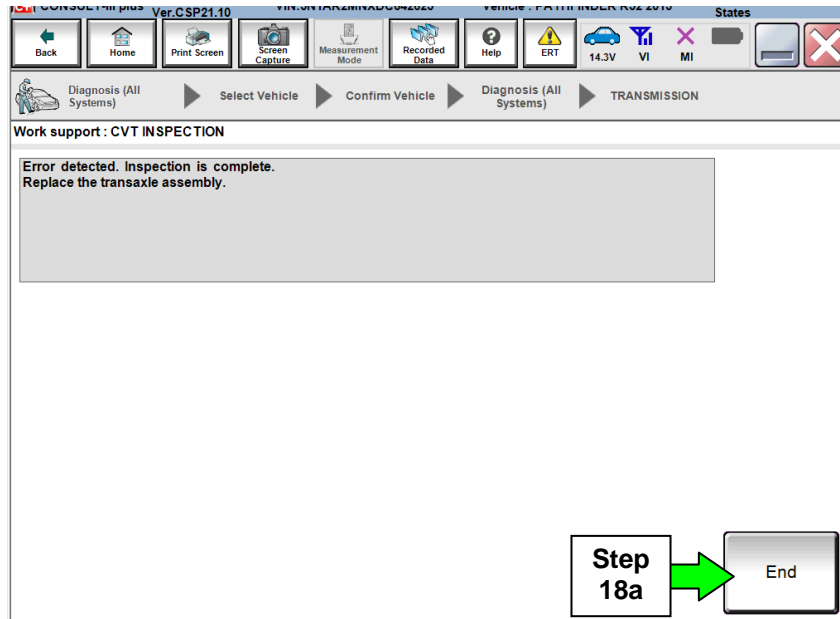


Figure 11

- b. If Figure 12 is displayed press the brake pedal and move the shifter lever into the “P” position, and then select **Next**.

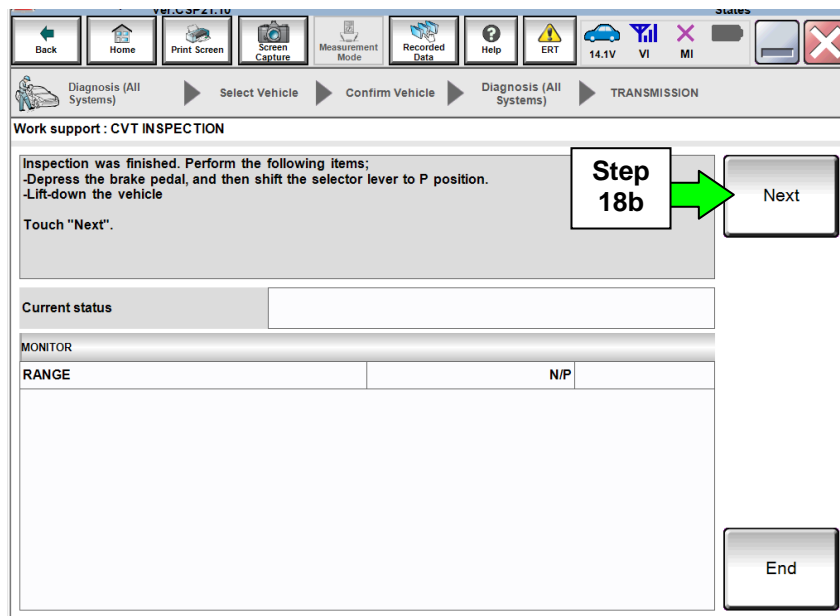


Figure 12

- c. If Figure 13 is now displayed only the Control Valve assembly replacement is required.
- Print C-III plus screen (Figure 13) and attach it to the repair order.
 - Select **End**.

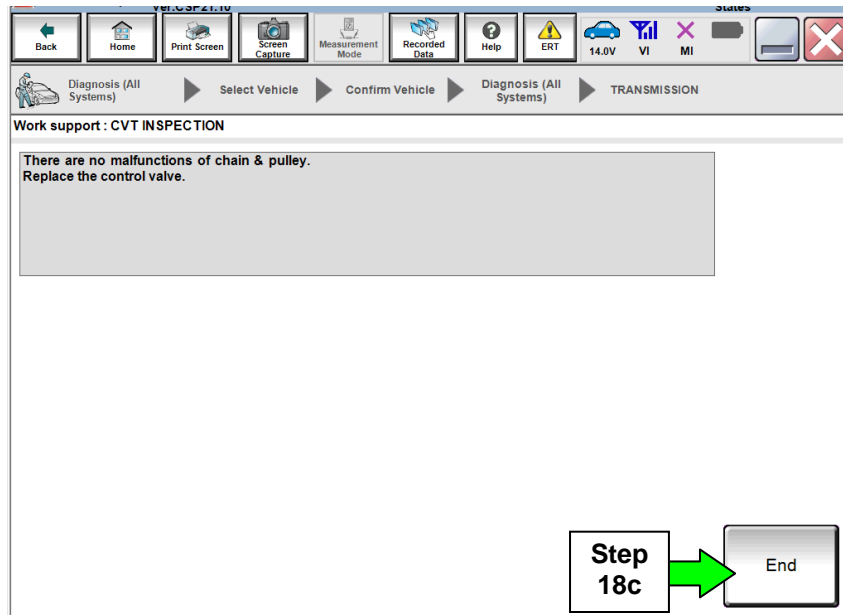


Figure 13

19. Close C-III plus.

20. Turn the ignition OFF.

21. Disconnect the plus VI from the vehicle.

22. If the **CVT INSPECTION** indicates:

- A **Control Valve** replacement is required:
 - a. Email the C-III plus screen printouts showing the VIN and DTC, VIN, dealer code, and dealer contact name to the Dealer Parts Information Center (DPIC) for authorization at: CVTControlValve@nissan-usa.com
- **CVT assembly** replacement is required:
 - a. Complete the PCC CVT Preauthorization Form in ASIST.
 - b. Attach the C-III plus screen printouts showing the VIN and DTC to the Preauthorization Form.
 - c. Call the PCC for authorization at **800-973-9992 (opt 2)**.

23. After authorization, perform component replacement.

For CVT assembly replacement; refer to the appropriate Electronic Service Manual (ESM), section TM-Transmission.

For Control Valve replacement:

- Altima, Maxima, and Quest; refer to the appropriate Electronic Service Manual (ESM), section TM-Transmission.
- Pathfinder; refer to the 2013 Pathfinder Electronic Service Manual (ESM), section TM-Transmission.
- Murano; refer to the 2015 Quest Electronic Service Manual (ESM), section TM-Transmission.

IMPORTANT: After a Control Valve or CVT assembly replacement, a CVT Cooler flush is required. Refer to bulletin **NTB15-013** to perform CVT Cooler flush.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
CONTROL VALVE ASSEMBLY	31705-29X1A (1)	1
CVT ASSEMBLY	(2)	1
NS-3 CVT Fluid	999MP-NS300P (3) (4)	as needed
Pan Gasket	31397-1XF0D	1
Strainer O-Ring	31526-1XG0A	1
Seal, Lip	31528-1XZ0A	1
Washer Oil pan drain	11026-JA00A	1
O-Ring External oil cooler O-ring (Pathfinder only)	22180-9NB0A	2

(1) Includes QR Label, CD-R and Valve Assembly.

(2) Refer to the electronic parts catalog (FAST or equivalent) for the correct part.

(3) For warranty repairs, Nissan NS-3 CVT Fluid **must** be used. For customer pay repairs, Nissan NS-3 CVT Fluid or an equivalent must be used.

(4) Order this item through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621). Website order via link on dealer portal www.NNAnet.com and click on the "Maintenance Advantage" link.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
CVT INSPECTION test (5)	31705-29X1A	JX35AA	ZE	32	0.6

(5) Use this operation code only if needed for the diagnosis and actual repair performed.

Or

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace Control Valve Assembly	31705-29X1A	JD48AA	ZE	32	(6)

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

Or

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
R&I Automatic CVT Transaxle Assembly	31705-29X1A	JD01AA	ZE	32	(7)
Replace Automatic CVT Transaxle Assembly		JD023A			

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