



SERVICE CAMPAIGN BULLETIN

Classification:

BR21-001

Reference:

NTB21-047

Date:

June 1, 2021

VOLUNTARY SERVICE CAMPAIGN BRAKE FLUID FLUSH AND ABS ACTUATOR INSPECTION

CAMPAIGN ID #: P0A08
APPLIED VEHICLES: 2010-2014 Murano (Z51)
2011-2014 Murano CrossCabriolet (Z51)
2011-2015 Quest (E52)

**Check Service COMM or Dealer Business Systems (DBS)
National Service History to confirm campaign eligibility.**

INTRODUCTION

Nissan is conducting this voluntary service campaign, on certain specific model year 2010-2014 Murano, 2011-2014 Murano CrossCabriolet, and 2011-2015 Quest vehicles, to remove the DOT 3 brake fluid, add DOT 4 brake fluid, and inspect the ABS actuator. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

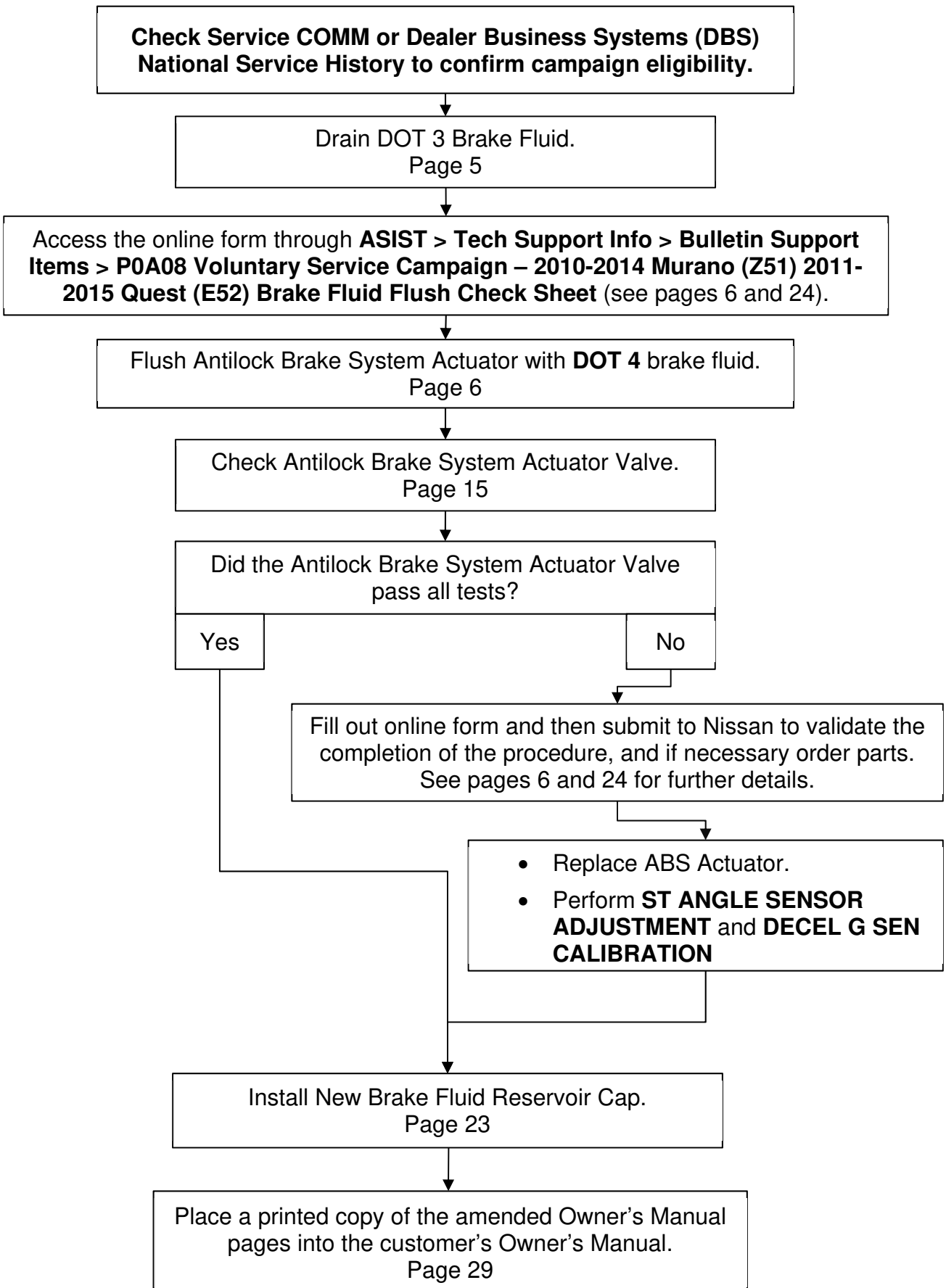
Nissan has assigned identification number P0A08 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

Dealers are to repair vehicles falling within range of this campaign that enter the service department. This includes vehicles purchased from private parties, vehicles presented by transient (tourists) owners, and vehicles in a dealer's inventory.

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.

REPAIR OVERVIEW



SERVICE PROCEDURE

IMPORTANT: Any deviation from this procedure is not allowed, including the use of any brake fluid other than the **DOT 4** shown in Figure 1.

The following Service Procedure uses an online form that must be filled out while performing the procedure (see page 24 for further details). When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection and, if necessary, to provide parts ordering information.

- If you are connected to WiFi you may access the form through **ASIST > Tech Support Info > Bulletin Support Items > P0A08 Voluntary Service Campaign – 2010-2014 Murano (Z51) 2011-2015 Quest (E52) Brake Fluid Flush Check Sheet**.
- If you are not connected to WiFi at this time, use a printed copy of the **ONLINE FORM/PARTS ORDERING INFORMATION** (see page 24), and transfer the information to a WiFi connected ASIST PC, after the procedure has been completed.
- Before starting, 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.

Do not use the pint size version of Nissan DOT 4. This type of DOT 4 does not meet the required specifications required for this campaign.

Only use the 1.06 quart (1 liter) size bottle that will be shipped for this procedure.



Figure 1

1. Place the vehicle on a lift.
2. Open the hood and place clean fender covers on the fenders.
3. Raise the vehicle up to a comfortable height, and then remove all 4 wheel and tire assemblies.
4. Apply Nissan rust penetrant (or equivalent) to all of the brake caliper bleeder fittings.
IMPORTANT: Allow rust penetrant to soak for at least 10 minutes before attempting to loosen bleeder fittings.
5. Lower the vehicle so that you can enter the driver's door.

DOT 3 Brake Fluid Drain

NOTICE

To prevent damage to the vehicle paint and the brake system:

- DO NOT use a power bleeder of any type to bleed the brake fluid.
- Never spill or splash brake fluid on painted surfaces. Brake fluid may seriously damage paint. Wash with water if it gets on a painted surface.
- Keep water away from open brake hydraulic system components.

6. Drain the brake fluid from brake fluid reservoir as follows:

IMPORTANT: Monitor the level in the brake fluid reservoir while performing step 6. Do not allow it to go below the minimum (MIN) line.

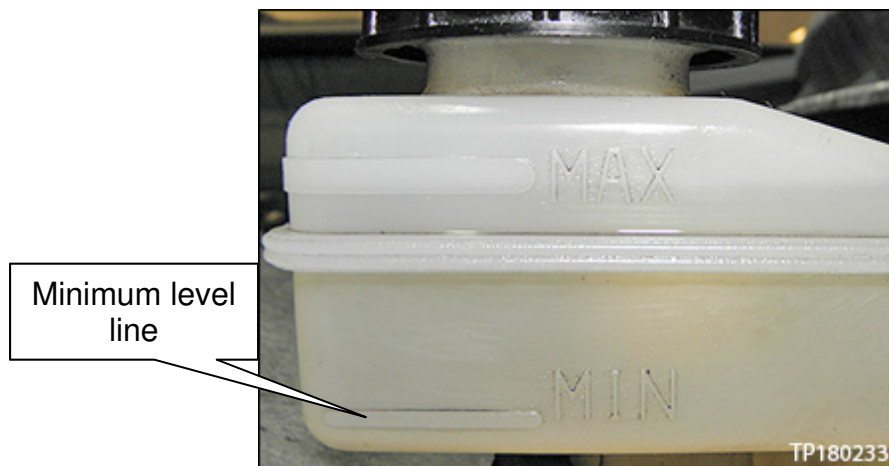


Figure 2

- a. Connect a vinyl tube to the bleeder valve of the right front brake caliper.
 - b. Loosen the right front caliper bleeder valve.
 - c. Slowly and repeatedly depress the brake pedal until the brake fluid drops to the minimum level mark of the brake fluid reservoir.
 - d. Tighten the bleeder valve.
 - e. Refill the brake fluid reservoir with **DOT 4** brake fluid to the maximum level mark.
 - f. Connect a vinyl tube to the bleeder valve of the left front brake caliper.
 - g. Loosen the left front caliper bleeder valve.
 - h. Repeatedly depress the brake pedal until the brake fluid drops to the minimum level mark of the brake fluid reservoir.
 - i. Tighten the bleeder valve.
7. Refill the brake fluid reservoir with **DOT 4** brake fluid to the maximum level mark.

Antilock Brake System Actuator Flush

The following Service Procedure uses an online form that must be filled out while performing the procedure.

- The form can be accessed by selecting **ASIST > Tech Support Info > Bulletin Support Items > P0A08 Voluntary Service Campaign – 2010-2014 Murano (Z51) 2011-2015 Quest (E52) Brake Fluid Flush Check Sheet** (see Figure 3 and Figure 4).
 - Further details can be found on page 24.
- When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection and, if necessary, to provide parts ordering information.
- If you are not connected to WiFi at this time, use a printed copy of the **ONLINE FORM/PARTS ORDERING INFORMATION** (see page 24), and transfer the information to a WiFi connected ASIST PC, after the procedure has been completed.

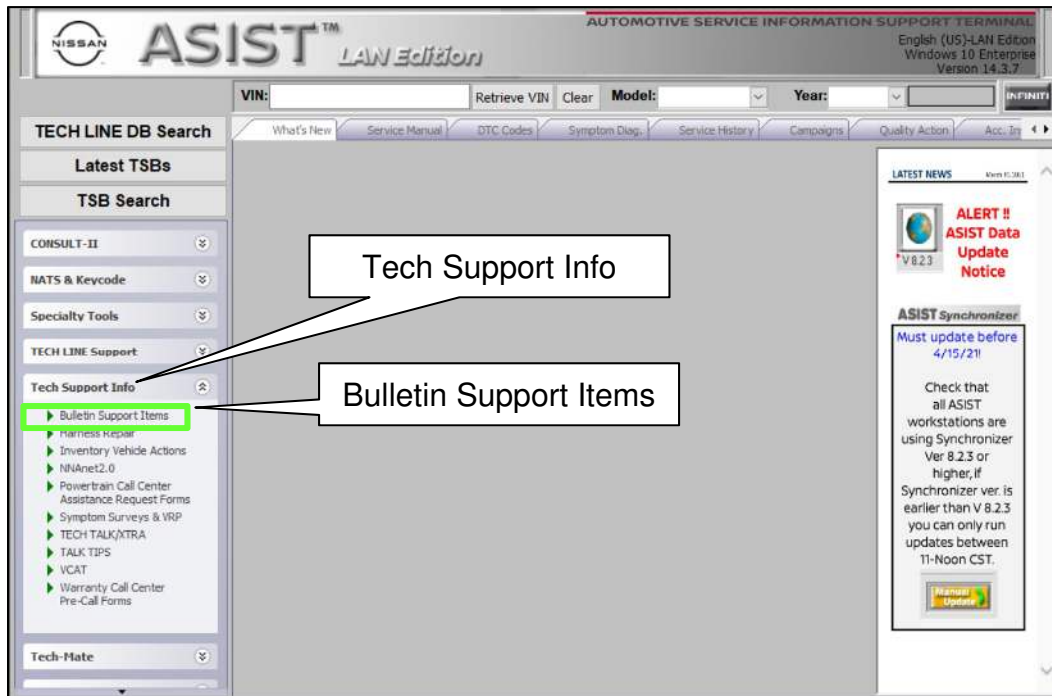


Figure 3

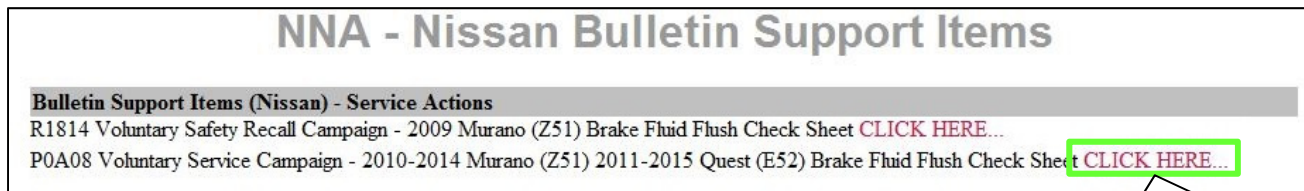


Figure 4

Select “**P0A08 Voluntary Service Campaign – 2010-2014 Murano (Z51) 2011-2015 Quest (E52) Brake Fluid Flush Check Sheet**”

NOTICE

To prevent damage to the brake system, all of the following brake fluid bleed cycles must be completed to fully flush the brake system with DOT 4 brake fluid.

IMPORTANT: STOP and read steps 8-34 completely before proceeding.

8. Connect a battery maintainer/smart charger to the vehicle battery.

NOTE: Battery voltage must stay between 12 volts and 15.5 volts.

9. Turn the ignition ON, engine OFF.

10. Connect the VI to the vehicle.

11. Start C-III plus.

12. Wait for the VI to be recognized.

- The serial number will display when the VI is recognized.

13. Select **Diagnosis (All Systems)**.

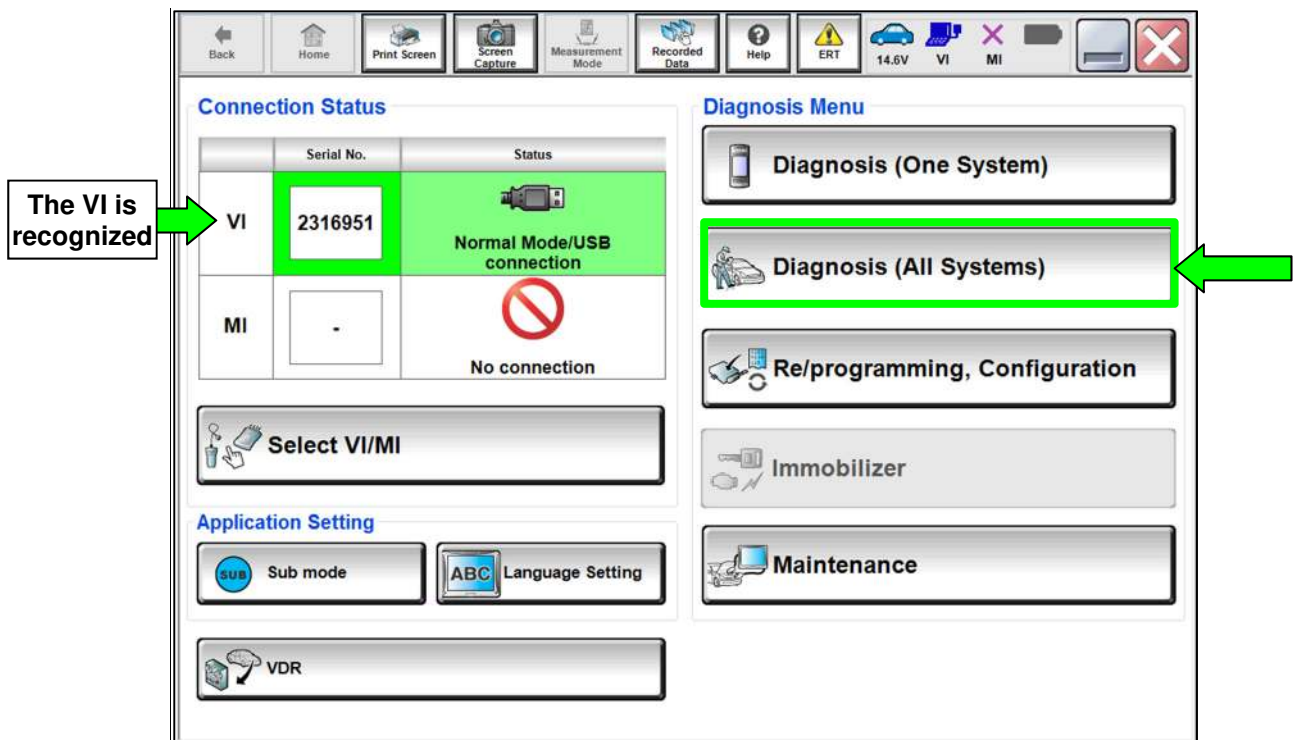


Figure 5

14. Select **Automatic Selection(VIN)**.

Diagnosis (All Systems) ▶ Select Vehicle

Automatic Selection(VIN) ← Action(Vehicle Name)

Vehicle Name :

*MURANO Camp:P8201	FRONTIER	MURANO Hybrid	QASHQAI/Rogue Sport
350Z	JUKE	NISSAN GT-R	QUEST
370Z	JUKE NISMO	NISSAN GT-R NISMO	ROGUE
370Z Convertible	KICKS	NV	ROGUE Hybrid
ALTIMA coupe	LEAF	NV200	ROGUE Select
ALTIMA Hybrid	MAXIMA	NV200 TAXI	SENTRA
ALTIMA sedan	MICRA	PATHFINDER	TITAN
ARMADA	MURANO	PATHFINDER ARMADA	VERSA Hatchback
CUBE	MURANO Cross Cabriolet	PATHFINDER Hybrid	VERSA NOTE

Model Year : 2009, 2007, 2006, 2005, 2004, 2003

Sales Channel: NISSAN, INFINITI, DATSUN

CLEAR, Select

1 / 2, 2 / 2

Figure 6

15. Confirm the **VIN or Chassis #** is correct, and then select **Confirm**.

Re/programming, Configuration ◀ Vehicle Selection ▶ **Vehicle Confirmation**

Please confirm selected information and touch "Confirm". In case you want to select another vehicle, touch "Change".

VIN or Chassis #	XXXXXXXXXXXX
Vehicle Name :	MURANO
Model Year	2014

1 / 1

Change, **Confirm** →

Figure 7

16. Select **ABS**.

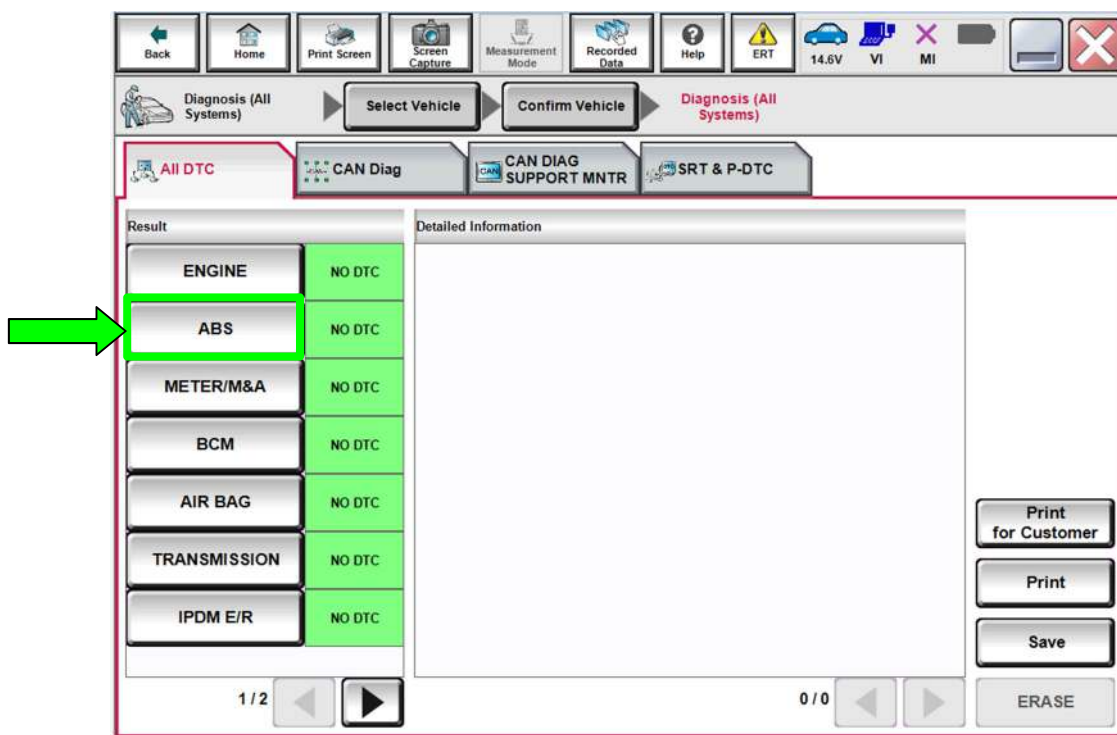


Figure 8

17. Select **Work support**.

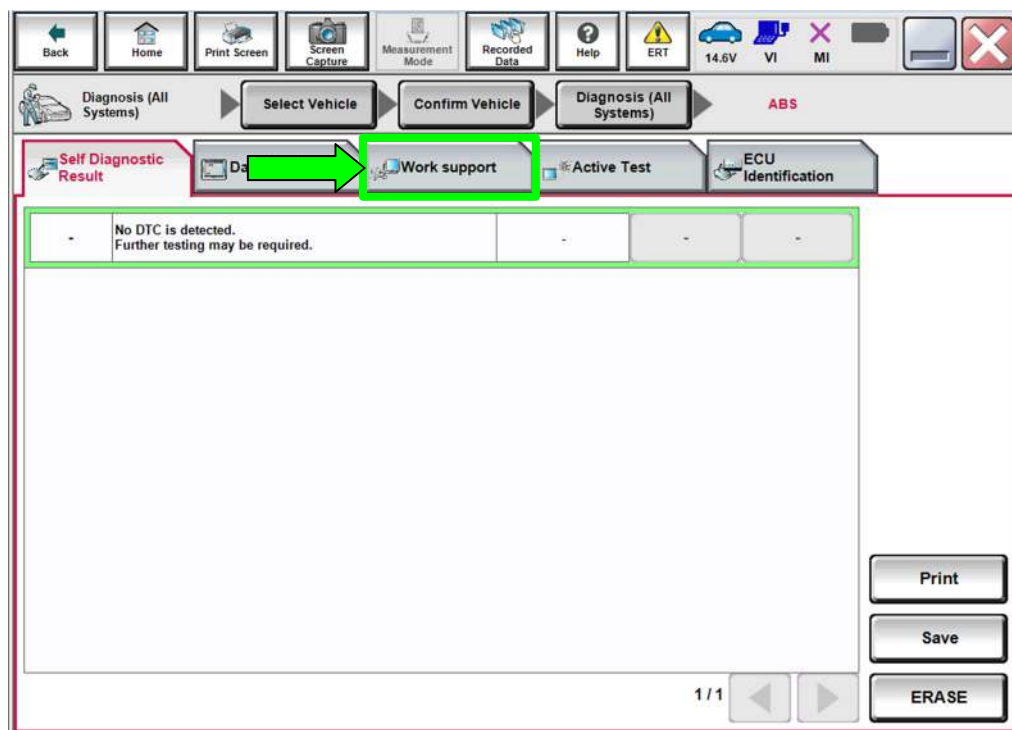


Figure 9

18. Select **Valve flushing**, and then select **Start**.

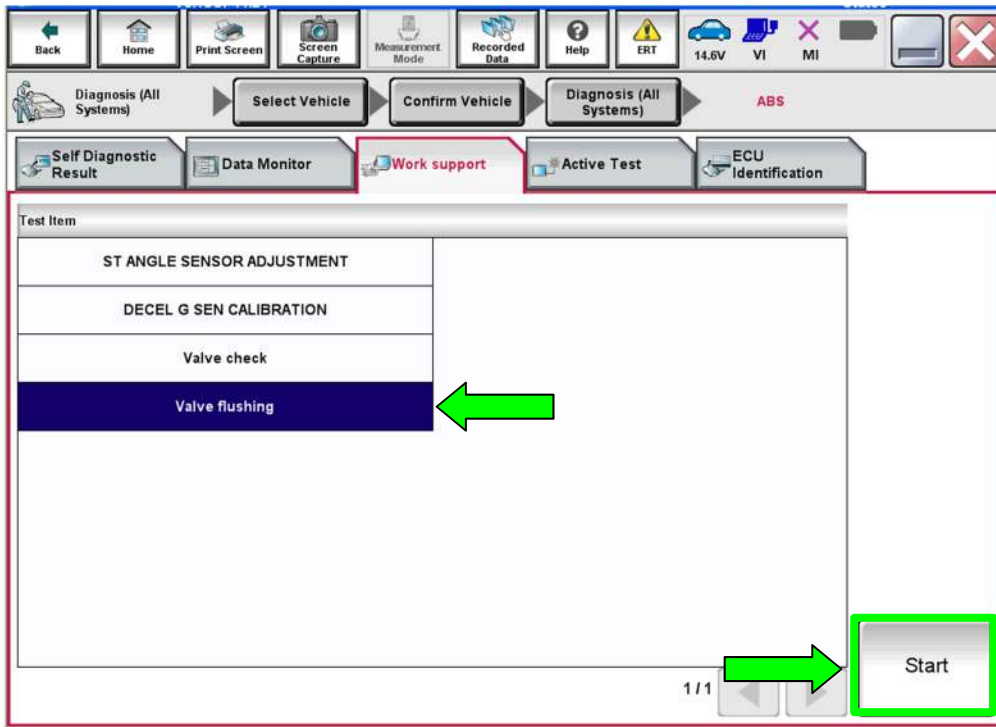


Figure 10

19. Press the brake pedal to raise the brake pressure to 21-39 bar (Figure 11).

20. While maintaining 21-39 bar of brake pressure, select **Next**.

NOTE: The brake pedal will drop after **Next** is selected. Do not release the brake pedal.

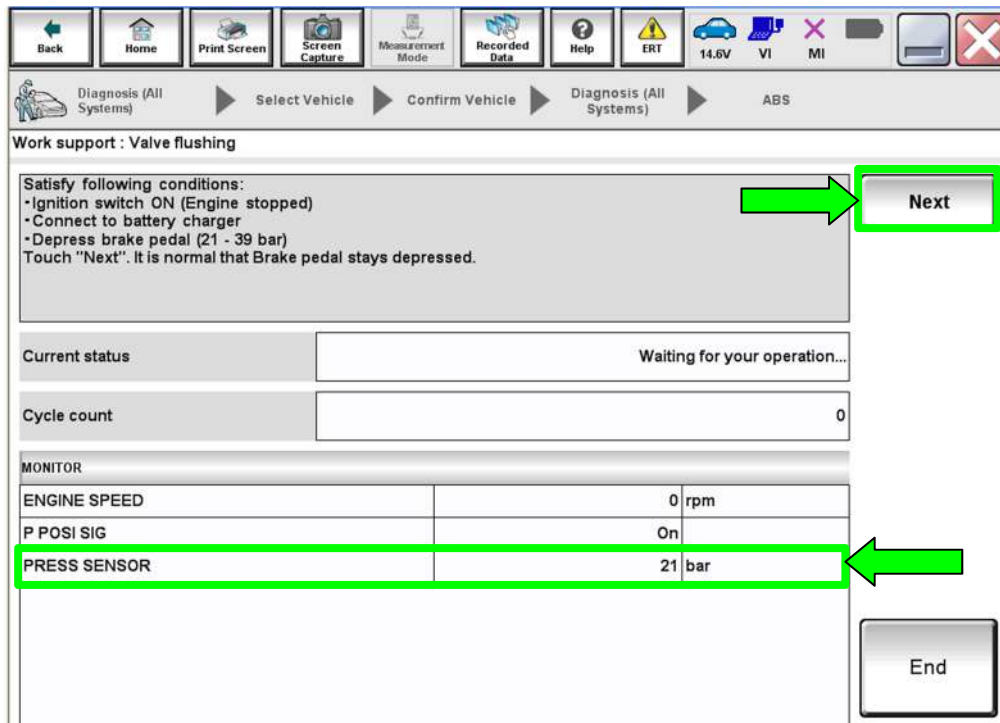


Figure 11

IMPORTANT: For the following steps:

- Brake pedal pressure must be at 21-39 bar during the entire valve check procedure.
- If the pressure is outside this range, an error will occur as shown in Figure 12.
 - If this occurs, select **Next**, regulate brake pressure to 21-39 bar, and then restart the test.
 - Only select **End** if C-III plus is no longer responding. This will restart the test from the beginning.

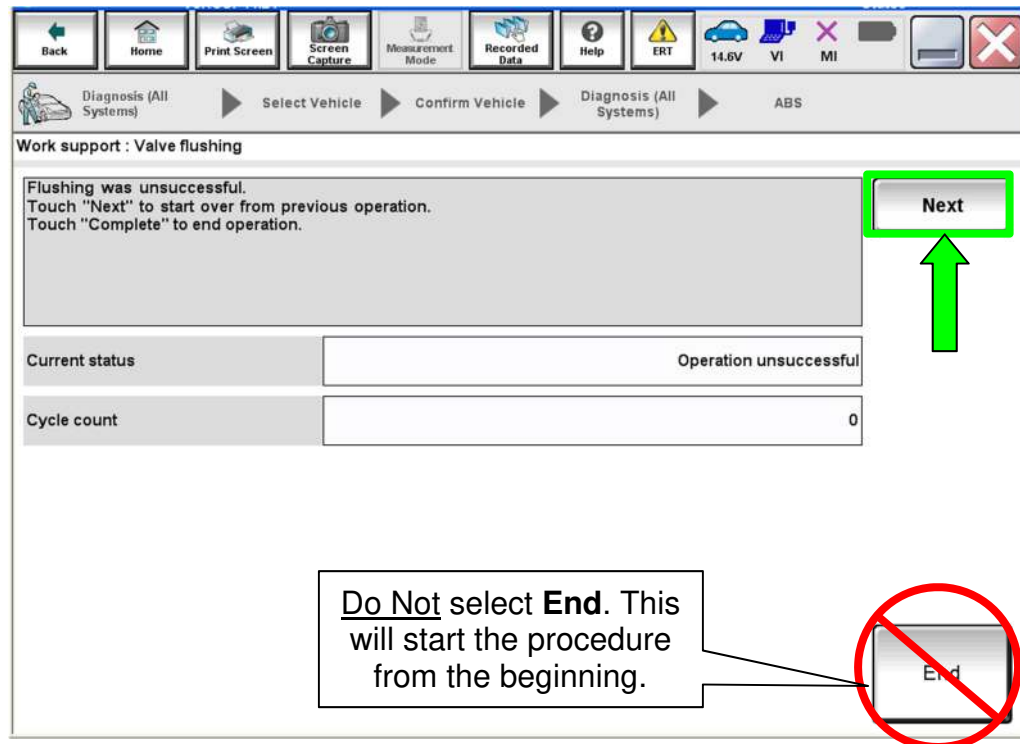


Figure 12

IMPORTANT: In step 21 select **Next** ONLY 1 time. Do Not select **Next** again until instructed to in step 23.

21. While continuing to press the brake pedal, select **Next**.

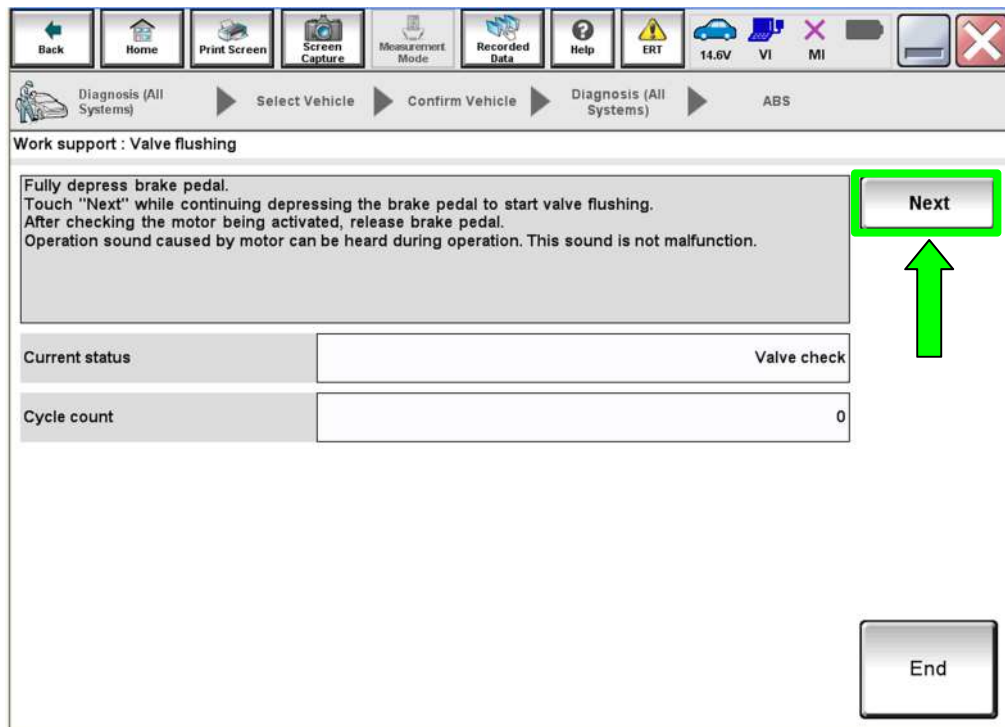


Figure 13

- When the ABS motor buzz sound is heard, **RELEASE** the brake pedal.
 - "ABS motor operating" will be displayed on the screen under **Current status**. See Figure 14.
 - The ABS motor buzz will continue for 30 seconds.

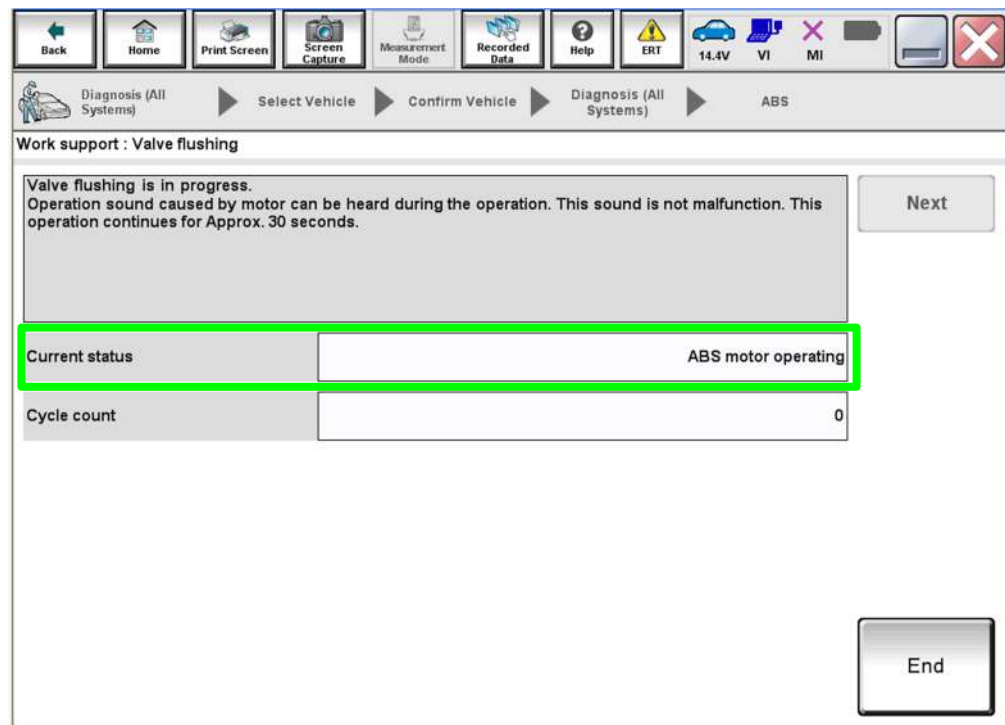


Figure 14

NOTICE

To prevent damage to the brake system, DO NOT use a power bleeder of any type in the following steps to bleed or drain the brake fluid.

22. Release some brake fluid from each brake caliper one time, as follows:

- All 4 brake calipers must be bled once, before selecting **Next**.
- Refill the brake fluid reservoir with **DOT 4** brake fluid as needed.

IMPORTANT: Do not allow the brake fluid reservoir to go below the minimum line.

- Connect a vinyl tube to the bleeder valve of the right rear brake caliper. Place the opposite end of the vinyl tube into a catch container.
- Fully depress the brake pedal 1 time, and then hold light pressure.
- Loosen the bleeder valve, while the brake pedal is being depressed, to bleed (release) the brake fluid, and then tighten the bleeder valve.
- Perform steps a through c to the left rear, right front and left front.
- Refill the brake fluid reservoir with **DOT 4** brake fluid to the maximum level mark.

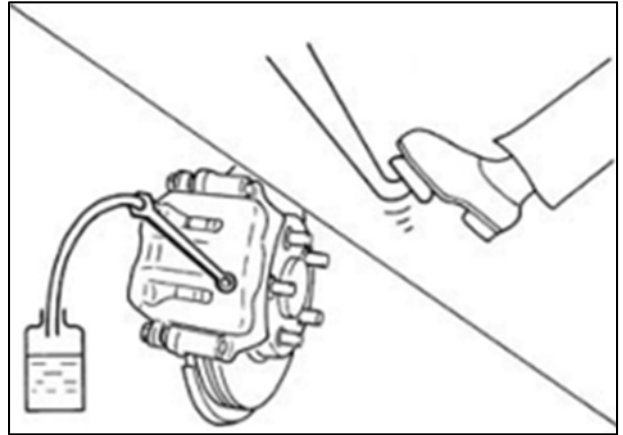


Figure 15

23. When the **Current status** shows “Operation wait”, select **Next** to run valve flushing again.

IMPORTANT: Brake fluid bleed cycles must all be completed to fully flush the brake system with DOT 4.

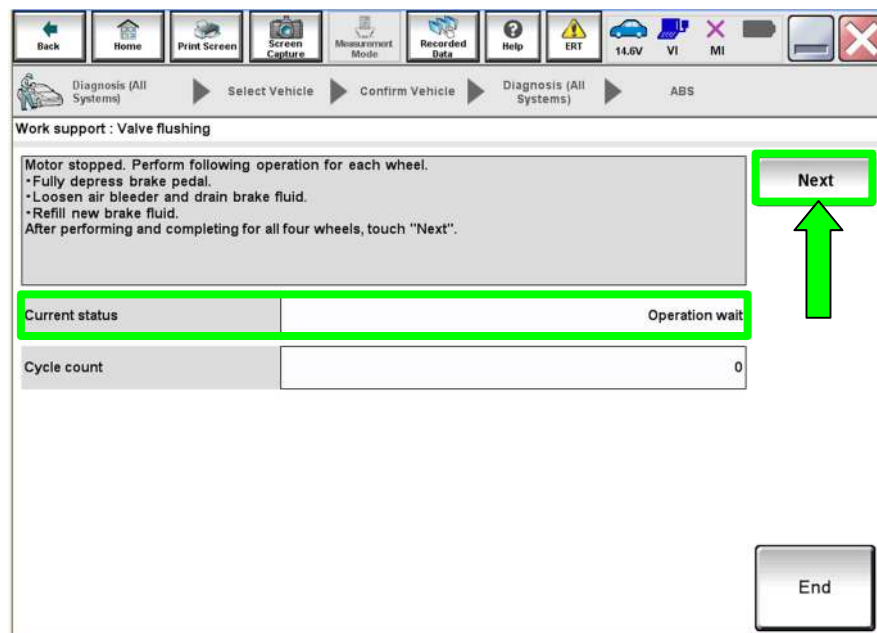


Figure 16

24. Repeat steps 19-23 thirteen more times until **Current status** displays “Complete”, and then select **End**.

IMPORTANT:

- Do not select **End** until 14 is displayed in **Cycle count**.
- **Cycle count** must indicate 14 before **Current status** will display Complete.

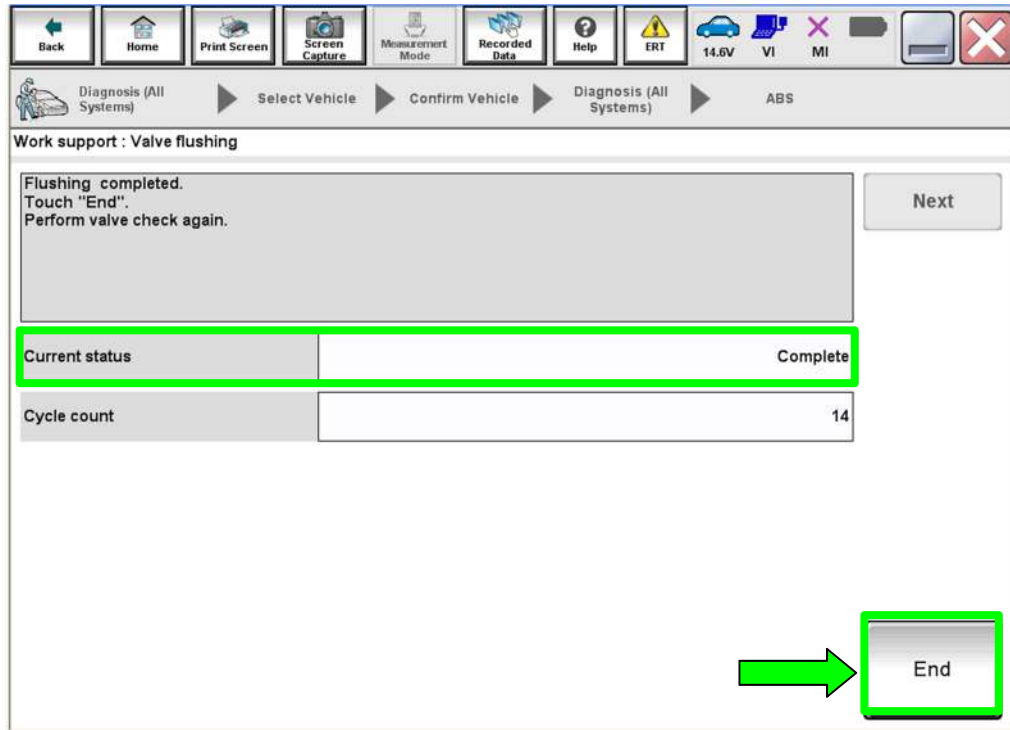


Figure 17

25. Remove the battery maintainer/smart charger from the vehicle.

Antilock Brake System Actuator Valve Check Procedure

NOTE: During the following procedure, warning lights in the combination meter will illuminate and remain ON until the valve check procedure is completed; this is normal.

The following Service Procedure uses an online form that must be filled out while performing the procedure.

- The form can be accessed by selecting **ASIST > Tech Support Info > Bulletin Support Items > P0A08 Voluntary Service Campaign – 2010-2014 Murano (Z51) 2011-2015 Quest (E52) Brake Fluid Flush Check Sheet** (see page 6, Figure 3 and Figure 4).
 - Further details can be found on page 24.
- When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection and, if necessary, to provide parts ordering information.
- If you are not connected to WiFi at this time, use a printed copy of **ONLINE FORM/PARTS ORDERING INFORMATION** (see page 24), and transfer the information to a WiFi connected ASIST PC, after the procedure has been completed.

The following steps will check all four anti-lock brake valves in the following order:

- **FR** – Front Right
- **FL** – Front Left
- **RR** – Rear Right
- **RL** – Rear Left

26. Start the engine.

27. Select **Valve check**, and then select **Start**.

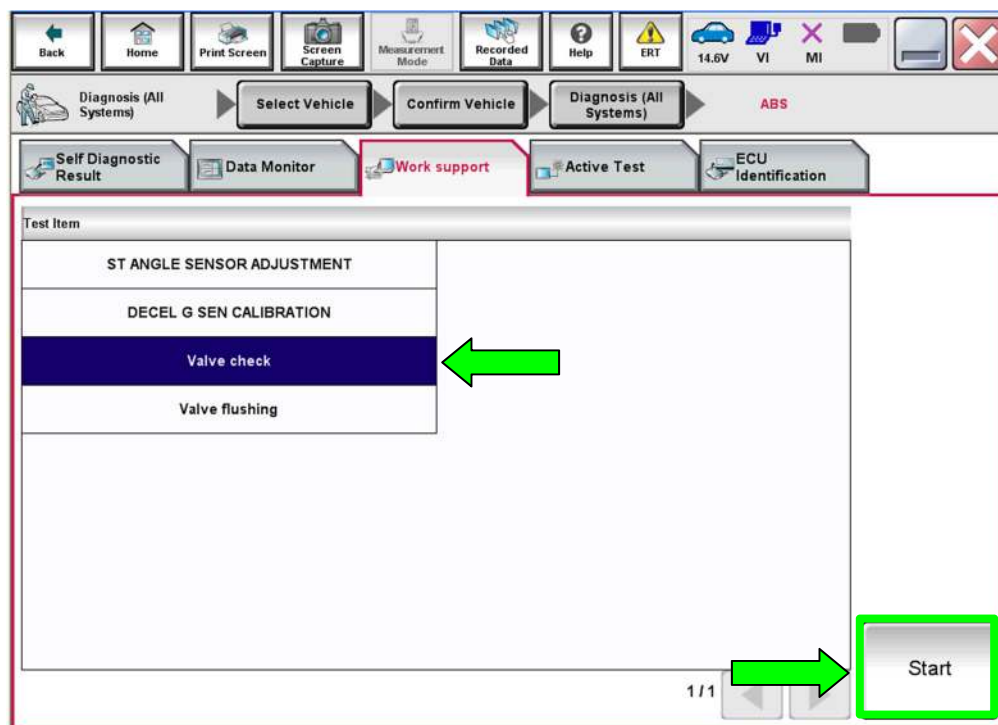


Figure 18

IMPORTANT: For the following steps:

- Brake pedal pressure must be at 21-39 bar during the entire valve check procedure.
 - If the pressure is outside this range, an error will occur as shown in Figure 19.
 - If this occurs, select **Retry**, regulate brake pressure to 21-39 bar, and then restart the test.
 - Only select **End** if C-III plus is no longer responding.

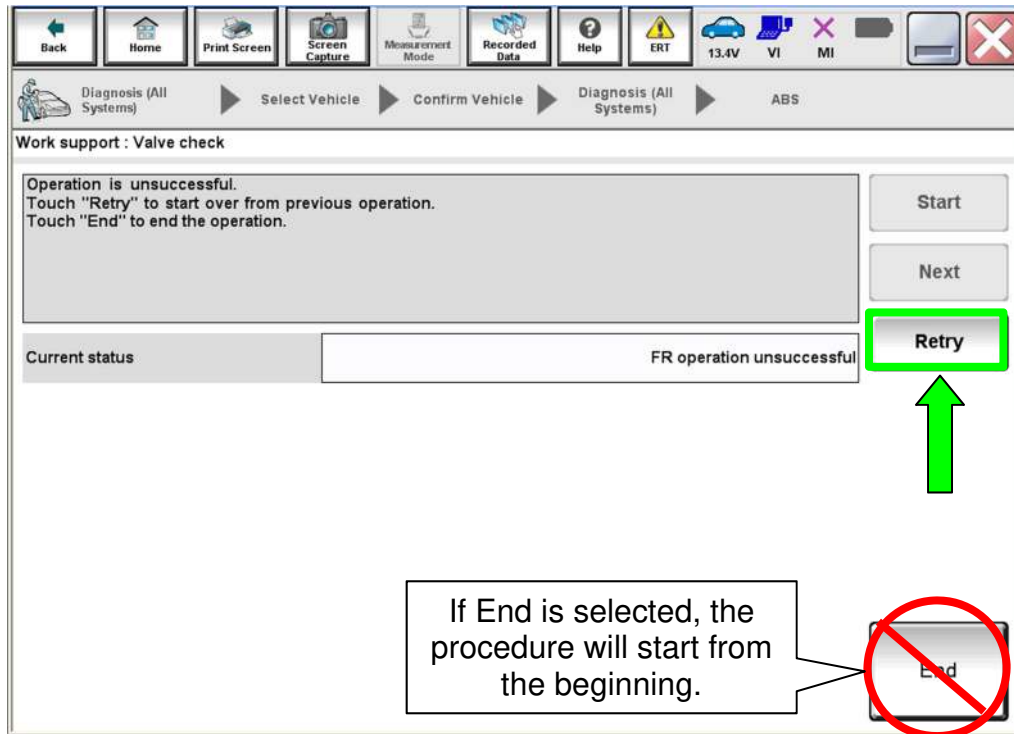


Figure 19

28. Press the brake pedal **firmly** to raise the brake pressure to 21-39 bar.

29. While maintaining 21-39 bar of brake pressure, select **Start** to check the first valve (FR valve).

NOTE: If the brake pressure is not within the specified range, the **Start** button cannot be selected.

- The valve will open right after **Start** is selected and the brake pedal should smoothly move down toward the floor.

The screenshot shows a diagnostic software interface. At the top is a toolbar with icons for Back, Home, Print Screen, Screen Capture, Measurement Mode, Recorded Data, Help, ERT, 14.5V, VI, MI, and a close button. Below the toolbar is a navigation bar with buttons: Diagnosis (All Systems), Select Vehicle, Confirm Vehicle, Diagnosis (All Systems), and ABS. The main area is titled 'Work support : Valve check'. It contains a text box with instructions: 'Perform valve check while depressing brake pedal and satisfying the following conditions.' followed by a list: '• Brake fluid pressure: 21 - 39 bar', '• Engine: Running', and '• Shift position: P'. To the right of this text box are three buttons: 'Start' (highlighted with a green box and a green arrow), 'Next', and 'Retry'. Below the text box is a 'Current status' section with a label 'FR valve check start'. At the bottom is a 'MONITOR' section with a table showing real-time data.

MONITOR	
ENGINE SPEED	1016 rpm
P POSI SIG	On
PRESS SENSOR	27 bar

At the bottom right of the interface is an 'End' button.

Figure 20

30. Did the brake pedal move down toward the floor?

- **YES:** Proceed to step 31 on page 19.
- **NO:** Proceed to the next page.

Only perform the following if NO was the answer to step 30:

- a. Select **End**.
- b. Turn the engine OFF.
- c. Submit the online form that was filled out while performing the service procedure to order parts (see page 24).
- d. Replace the ABS actuator.
 - For ABS actuator replacement, refer to the ESM section **BRC – Brake Control System**.
 - **IMPORTANT:** Refill with **DOT 4** brake fluid ONLY.
- e. Bleed the air from each brake circuit as follows:
 - 1) Connect a vinyl tube to the bleeder valve of the right rear brake caliper. Place the opposite end of the vinyl tube into a catch container.
 - 2) Fully depress the brake pedal 4 to 5 times, and then hold light pressure.
 - 3) Loosen the bleeder valve, while the brake pedal is being depressed, to bleed air, and then tighten the bleeder valve.
 - 4) Perform steps 1 through 3 to the left rear, right front and left front calipers until all air has been removed from the brake hydraulic system.
 - 5) Refill the brake fluid reservoir with DOT 4 brake fluid to the maximum level mark.
- f. Perform **ST ANGLE SENSOR ADJUSTMENT** and **DECEL G SEN CALIBRATION**.
 - Follow C-III plus on screen instructions.
- g. Skip to step 37 on page 22.

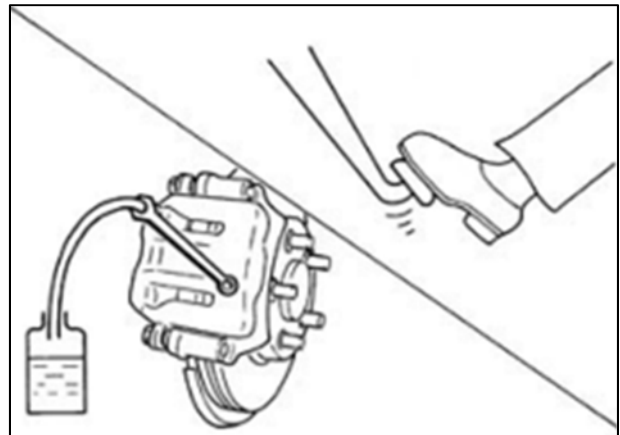


Figure 21

31. Select **Next**.

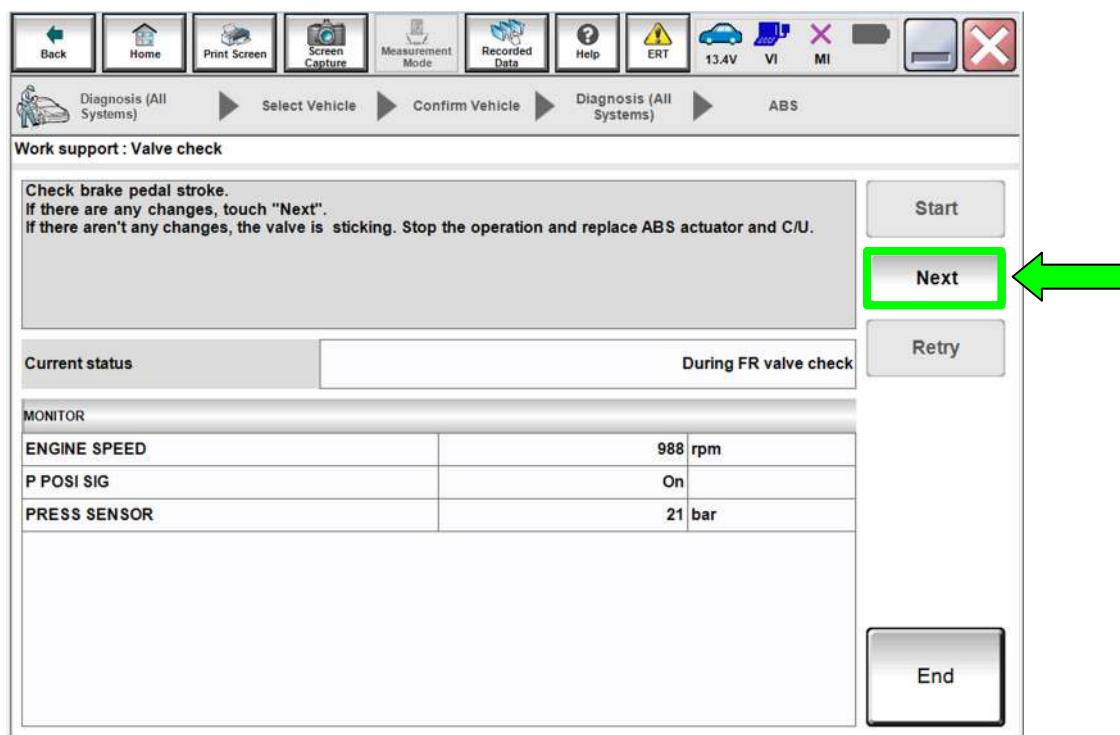


Figure 22

32. While maintaining 21-39 bar of brake pressure, select **Next** again.

- After **Next** is selected, the ABS pump motor will run/buzz and the brake pedal should forcibly move up away from the floor.

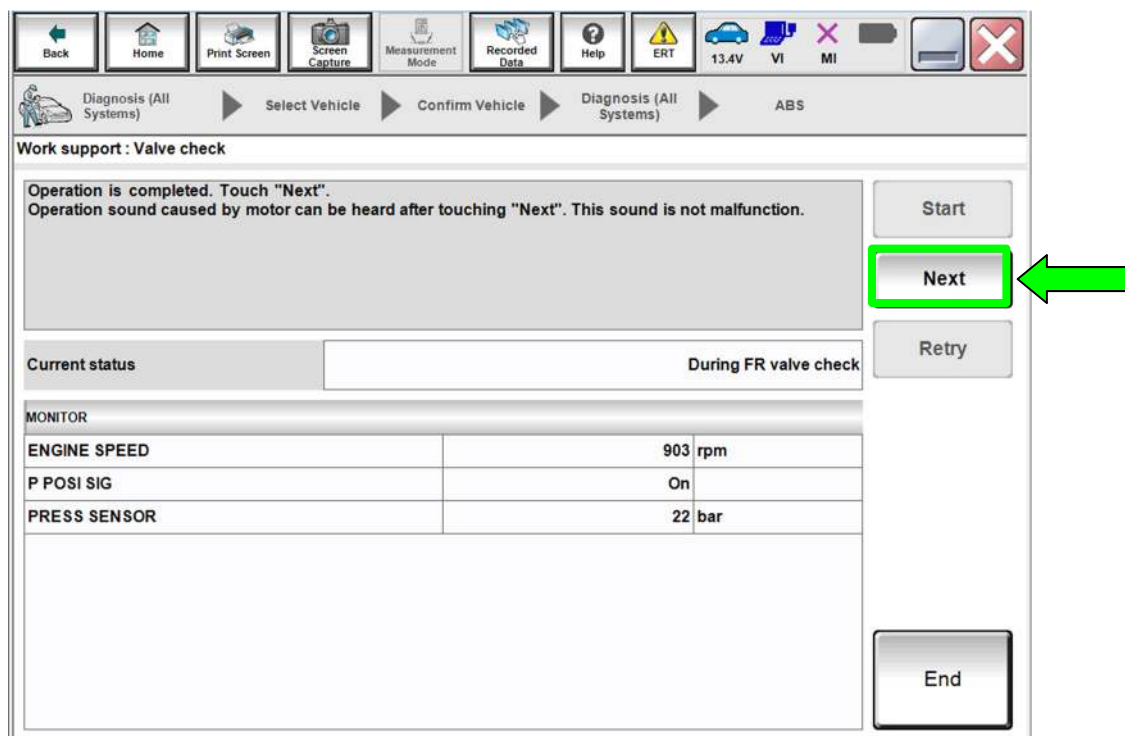


Figure 23

- After **Next** is selected, “ABS motor operating” will be displayed under **Current status**.
- This operation will continue for 20 seconds before the **Start** button will be active again.

Diagnosis (All Systems) ▶ Select Vehicle ▶ Confirm Vehicle ▶ Diagnosis (All Systems) ▶ ABS

Work support : Valve check

Brake pedal moves up, after the motor within ABS actuator and C/U is activated.
If brake pedal stays depressed, the valve is sticking.
Stop the operation and replace ABS actuator and C/U.
Sound caused by motor can be heard during operation. This sound is not malfunction.
This operation continues for Approx. 20 seconds.

Start

Next

Retry

Current status: ABS motor operating

MONITOR	
ENGINE SPEED	638 rpm
P PSI SIG	On
PRESS SENSOR	52 bar

End

Figure 24

33. Did the brake pedal move up away from the floor?

- **YES:** Proceed to step 34 on page 22.
- **NO:** Proceed to the next page.

Only perform the following if NO was the answer to step 33:

- a. Select **End**.
- b. Turn the engine OFF.
- c. Submit the online form that was filled out while performing the service procedure for parts ordering information (see page 24).
- d. Replace the ABS actuator.
 - For ABS actuator replacement, refer to the ESM section **BRC – Brake Control System**.
 - **IMPORTANT:** Refill with **DOT 4** brake fluid ONLY.
- e. Bleed the air from each brake circuit as follows:
 - 1) Connect a vinyl tube to the bleeder valve of the right rear brake caliper. Place the opposite end of the vinyl tube into a catch container.
 - 2) Fully depress the brake pedal 4 to 5 times, and then hold light pressure.
 - 3) Loosen the bleeder valve, while the brake pedal is being depressed, to bleed air and then tighten the bleeder valve.
 - 4) Perform steps 1 through 3 to the left rear, right front and left front calipers until all air has been removed from the brake hydraulic system.
 - 5) Refill the brake fluid reservoir with DOT 4 brake fluid to the maximum level mark.
- f. Perform **ST ANGLE SENSOR ADJUSTMENT** and **DECEL G SEN CALIBRATION**.
 - Follow C-III plus on screen instructions.
- g. Skip to step 37 on page 22.

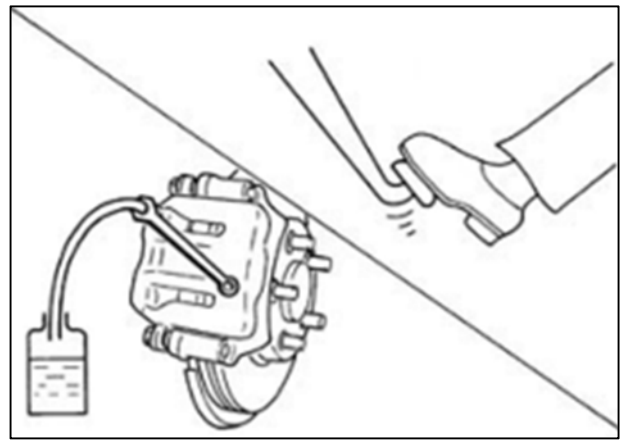


Figure 25

34. Perform steps 28 through 33 on the FL, RR and RL valves and then proceed to step 35.

NOTE: When steps 28 to 33 have been completed for all four wheels (FR, FL, RR and RL), **Current status** on the C-III plus screen will display “Complete” (Figure 26).

35. Select **End**.

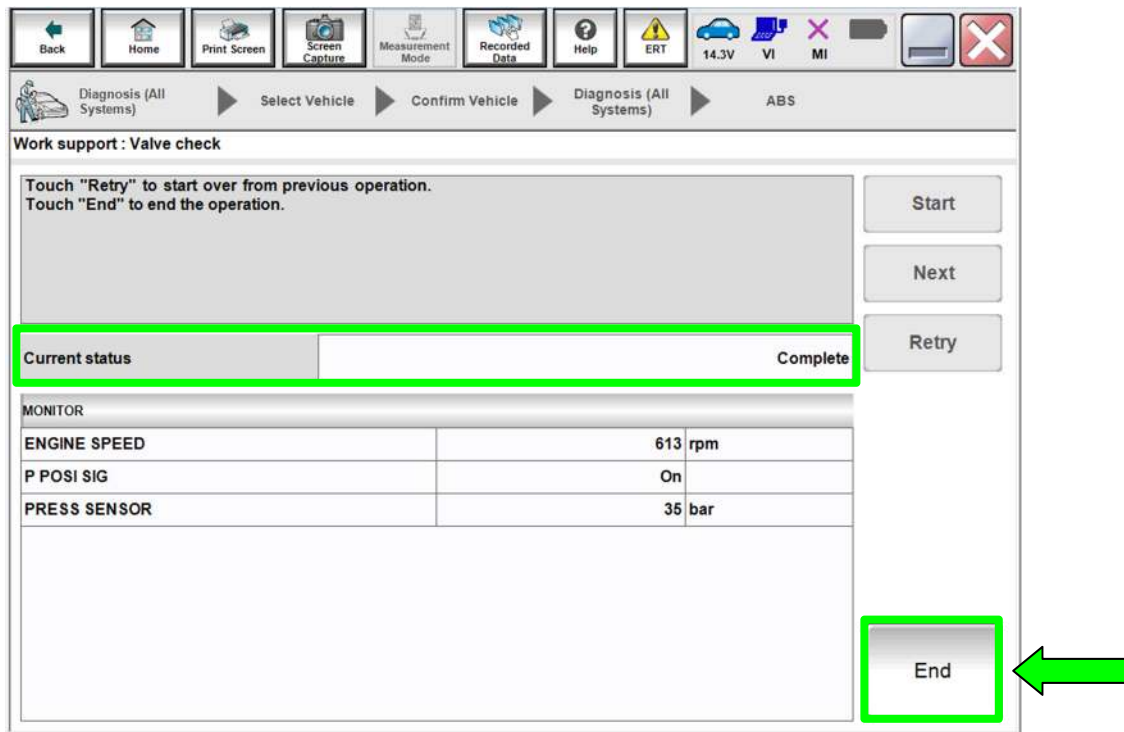


Figure 26

36. Turn the engine OFF.
37. Disconnect the C-III plus, VI and battery maintainer/smart charger from the vehicle.
38. Reinstall the wheels and torque lug nuts.
- Torque: 108 N•m (11kg-m, **80 ft-lb**)

Install New Brake Fluid Reservoir Cap

39. Mark the top of the new DOT 4 brake fluid reservoir cap with white touch-up paint, as shown in Figure 27.

- Highlight “**USE ONLY DOT 4**”.

NOTE: This cap will indicate to **USE ONLY DOT 4** as the service brake fluid.

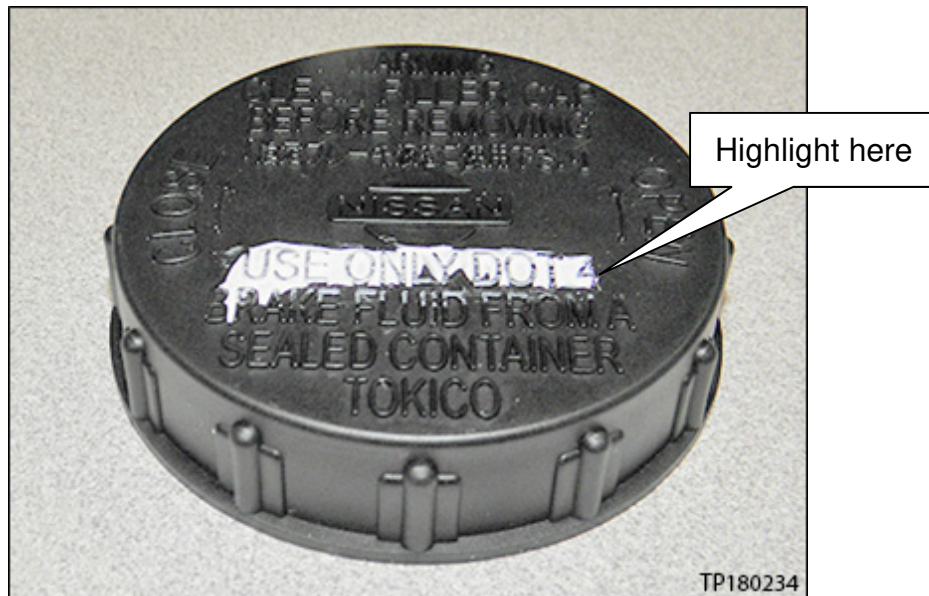


Figure 27

40. Replace the brake fluid reservoir cap (Figure 28) with the new DOT 4 cap marked in step 39.



Figure 28

41. Place a printed copy of amended Owner's Manual pages into the customer's Owner's Manual (see page 29).

ONLINE FORM/PARTS ORDERING INFORMATION

The following online form must be filled out while performing the service procedure and then submitted to Nissan to validate the completion of the inspection and, if necessary, to provide parts ordering information.

- The form can be accessed by selecting **ASIST > Tech Support Info > Bulletin Support Items > P0A08 Voluntary Service Campaign – 2010-2014 Murano (Z51) 2011-2015 Quest (E52) Brake Fluid Flush Check Sheet** (see page 6, Figure 3 and Figure 4).

42. Input vehicle VIN, Dealer Number, Technician Name, Technician ID, Service Manager and whether FWD or AWD (Figure 29).

VIN		
Model Year	2009	
Model	Murano	
Dealer Number		
Technician Name		
Technician ID		
Service Manager		
Drivetrain	☐ FWD ☐ AWD	

Figure 29

43. While completing the Valve Flushing Process, utilize the Valve Flushing Checklist to assist in tracking and completion (Figure 30).

Valve Flushing - Fill Reservoir After Each Check														
Test #	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Flush	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Bleed System	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Figure 30

44. Use the Valve Check checklist/drop down menu to record the Valve Inspection (yes/no) as it occurs (Figure 31).

Valve Check		
	Valve Inspection	
	Step 1	Step 2
	Did the brake pedal move towards floor?	Did the brake pedal move upward?
FR Valve	v	v
FL Valve	v	v
RR Valve	v	v
RL Valve	v	v
Actuator Condition		

Figure 31

45. Once completed, check the “Dealer Declaration” boxes to validate Brake fluid and Inspection completion.

Dealer Declaration ☐ I confirm that DOT 4 Brake Fluid Part #999MP1LM6D4 is used. ☐ I confirm that each hydraulic unit valve check and hydraulic unit flushing was completed per this checksheet and as described in the service campaign bulletin.
--

Figure 32

- a. Once all the steps are completed, select **Submit**.

VIN	Example only												
Model Year													
Model	Murano												
Dealer Number	0000												
Technician Name	John Doe												
Technician ID	0101												
Service Manager	Bob Doe												
Drivetrain	☐ FWD ☐ AWD												

Valve Flushing - Fill Reservoir After Each Check														
Test #	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Flush	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Bleed System	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

Valve Check		
	Valve Inspection	
	Step 1	Step 2
	Did the brake pedal move towards floor?	
	Did the brake pedal move upward?	
	FR Valve	Yes ☐
	FL Valve	Yes ☐
RR Valve	Yes ☐	
RL Valve	Yes ☐	
Actuator Condition		

Dealer Declaration

☒ I confirm that DOT 4 Brake Fluid Part #999MP1LM6D4 is used.

☒ I confirm that each hydraulic unit valve check and hydraulic unit flushing was completed per this checksheet and as described in the service campaign bulletin.

Submit

←

Figure 33

- b. For a “Good” ABS Actuator the following screen will populate. Follow instructions in green pop-up box, print and attach the ABS Actuator Checklist to Work Order.

INSPECTION COMPLETE

- Please Print the ABS Check Sheet and attach to the Work Order
- Place a printed Copy of Amended Owner’s Manual page(s) into the Owner’s Manual
- Once complete, Submit warranty claim using claims coding

VIN	Example only	
Model Year		
Model	Murano	
Dealer Number	0000	
Technician Name	John Doe	
Technician ID	0101	
Service Manager	Bob Doe	
Drivetrain	☒ FWD ☐ AWD	

Valve Check

	Valve Inspection	
	Step 1	Step 2
	Did the brake pedal move towards floor?	Did the brake pedal move upward?
FR Valve	Yes	Yes
FL Valve	Yes	Yes
RR Valve	Yes	Yes
RL Valve	Yes	Yes
Actuator Condition	OK	OK

Dealer Declaration
☒ I confirm that DOT 4 Brake Fluid Part #999MP1LM6D4 is used.
☒ I confirm that each hydraulic unit valve check and hydraulic unit flushing was completed per this checksheet and as described in the service campaign bulletin.

Print

Figure 34

- c. For a “No-Good” ABS Actuator the screen in Figure 35 will populate. Follow the instructions in the yellow pop-up box.

This screen provides the ABS part number that needs to be ordered in DBS.

Do not file the warranty claim until the ABS Actuator has been installed.

Inspection Result is NG

- Replace the ABS Actuator
- Please Print the ABS Check Sheet and attach to the Work Order
- Place a parts order in DBS for Part Number : D7660-1V40B
- File the warranty claim AFTER the actuator is Installed on vehicle
- Place a Printed Copy of the Amended Owner's Manual page(s) into the Owners Manual

VIN

Model Year

Model

Dealer Number

Technician Name

Technician ID

Service Manager

Drivetrain
☒ FWD
☐ AWD

Example only

Valve Check

	Valve Inspection	
	Step 1	Step 2
	Did the brake pedal move towards floor?	Did the brake pedal move upward?
FR Valve	Yes v	Yes v
FL Valve	Yes v	Yes v
RR Valve	Yes v	Yes v
RL Valve	Yes v	No v
Actuator Condition	OK v	NG v

Dealer Declaration

☒ I confirm that DOT 4 Brake Fluid Part #999MP1LM6D4 is used.

☒ I confirm that each hydraulic unit valve check and hydraulic unit flushing was completed per this checksheet and as described in the service campaign bulletin.

Figure 35

Owner's Manual Pages

BRAKE FLUID

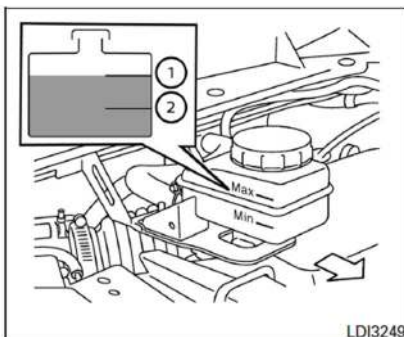
For additional brake fluid information, see "CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS" in the "9. Technical and consumer information" section of this manual.

⚠ WARNING

- Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.
- Clean the filler cap before removing.
- Brake fluid is poisonous and should be stored carefully in marked containers out of reach of children.

⚠ CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



Check the fluid level in the reservoir. If the fluid is below the MIN line② or the brake warning light comes on, add Genuine NISSAN brake fluid CLARIANT 6M DOT4 or equivalent DOT4 up to the MAX line①. If the fluid must be added frequently, the system should be checked by a NISSAN dealer.

CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the "8. Maintenance and do-it-yourself" section to determine the proper refill capacity.

	Capacity (Approximate)			Recommended specifications
	US measure	Imp measure	Liter	
Fuel	21-5/8 gal	18 gal	82	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91)*1
Engine oil*2				
Drain and refill				
With oil filter change	4-7/8 qt	4 qt	4.6	• Engine oil with API Certification Mark*3
Without oil filter change	4-1/2 qt	3-3/4 qt	4.3	• Viscosity SAE 5W-30
Cooling system				
With reservoir	10 qt	8-1/4 qt	9.4	50% Genuine NISSAN Long Life Antifreeze/Coolant or equivalent
Reservoir	7/8 qt	3/4 qt	0.8	50% Demineralized or distilled water
Continuously Variable Transmission (CVT) fluid	—	—	—	Genuine NISSAN CVT Fluid NS-2*4
Differential gear oil	—	—	—	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5 Viscosity SAE 80W-90*5
Transfer oil	—	—	—	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5 Viscosity SAE 80W-90
Power steering fluid (PSF)	Refill to the proper level according to the instructions in the "8. Maintenance and do-it-yourself" section.			Genuine NISSAN PSF or equivalent*6
Brake fluid				Genuine NISSAN brake fluid CLARIANT 6M DOT4 or equivalent DOT4
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium Soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a)*7
Air conditioning system lubricants	—	—	—	NISSAN A/C System Oil Type R or exact equivalent
Window washer fluid	—	—	—	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

*1: For additional information, see "FUEL RECOMMENDATION" later in this section.

*2: For additional information, see "ENGINE OIL" in the "8. Maintenance and do-it-yourself" section for changing engine oil.

*3: For additional information, see "ENGINE OIL AND OIL FILTER RECOMMENDATION" later in this section.

*4: Use only Genuine NISSAN CVT Fluid NS-2. Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.

*5: For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 32°F (0°C).

*6: Available in mainland U.S.A. through a NISSAN dealer.

*7: For additional information, see "VEHICLE IDENTIFICATION" later in this section for air conditioner specification label.

*8: DEXRON™VI type ATF or Canada NISSAN Automatic Transmission Fluid may also be used.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
Nissan Genuine Brake Fluid (DOT 4) (1)	999MP-1LM6D4 (2)	1
Master Cylinder Reservoir Cap	D6020-64J0A	1
ABS Actuator	(3)	1
White Touch-up Paint (GLACIER WHITE)	999PP-SDQAK	As needed
Rust Penetrant	999MP-A3020P	(4)

- (1) Only use the 1.06 quart (1 liter) size DOT 4 specifically supplied for this service procedure.
- (2) Order this item through the Nissan Maintenance Advantage program: Phone 877-NIS-NMA1 (877-647-6621). Website order via link on the dealer portal; www.NNAnet.com and click on the "Maintenance Advantage" link.
- (3) Submit the online form that was filled out while performing the service procedure for parts ordering information.
- (4) Shop supply.

CLAIMS INFORMATION

Submit a "CM" line claim using the following claims coding:

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
P0A08	Flush and Replace Brake Fluid	P0A080	2.2
	Replace ABS Actuator	P0A081	4.3

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
June 1, 2021	NTB21-047	Original bulletin published