

SERVICE CAMPAIGN BULLETIN

Reference:

NTB18-025

Date: March 20, 2018

VOLUNTARY SERVICE CAMPAIGN 2009 MURANO BRAKE FLUSH

CAMPAIGN ID #: P8305 APPLIED VEHICLES: 2009 Murano (Z51)

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

INTRODUCTION

Nissan is conducting a Service Campaign on certain specific MY2009 Nissan Murano vehicles to remove the DOT 3 brake fluid from the brake system and replace it with new DOT 4 brake fluid. In rare instances, the ABS actuator may need to be replaced. This Service Campaign will be performed at no charge to the affected customers for parts or labor.

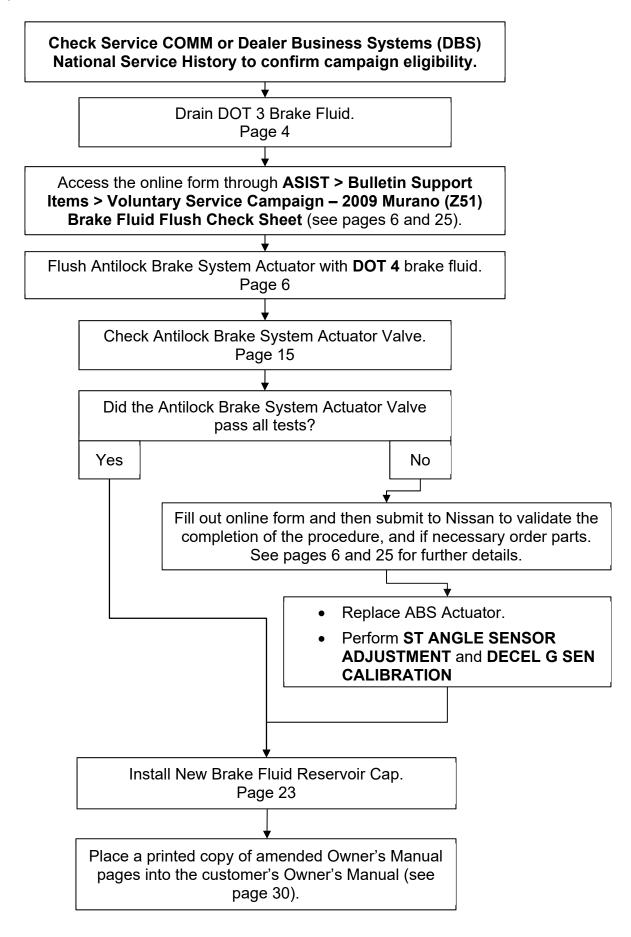
IDENTIFICATION NUMBER

Nissan has assigned identification number P8305 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.



SERVICE PROCEDURE

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

The following Service Procedure uses an online form that <u>must be filled out</u> while performing the procedure (see page 25 for further details). When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection, and to order parts if necessary.

- If you are connected to WiFi you may access the form through ASIST > Bulletin Support Items > Voluntary Service Campaign – 2009 Murano (Z51) Brake Fluid Flush Check Sheet.
- If you are not connected to WiFi at this time, use a printed copy of ONLINE FORM/AUTO PARTS ORDERING PROCESS, and transfer the information to a WiFi connected ASIST PC (see page 25), 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.



Figure A

- 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 wheels.
- 4. Apply Nissan rust penetrant (or equivalent) to all of the brake caliper bleeder fittings.

IMPORTANT: Allow rust penetrant to soak for at least ten (10) minutes before attempting to loosen bleeder fittings.

5. Lower the vehicle to entry level.

DOT 3 Brake Fluid Drain

CAUTION:

- In the following steps 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.

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

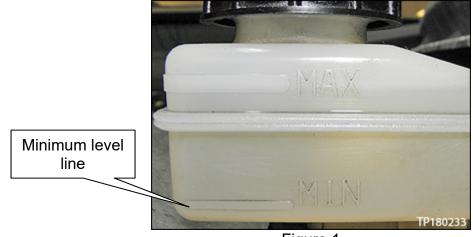


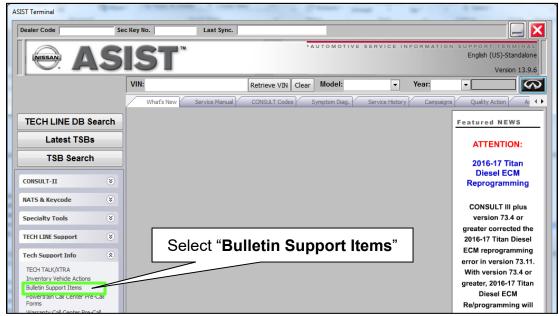
Figure 1

- 6. Drain the brake fluid from brake fluid reservoir as follows:
 - a. Connect a vinyl tube to the bleeder valve of the right front brake caliper.
 - b. Loosen the right front caliper bleeder valve.
 - c. 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 <u>left</u> 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.

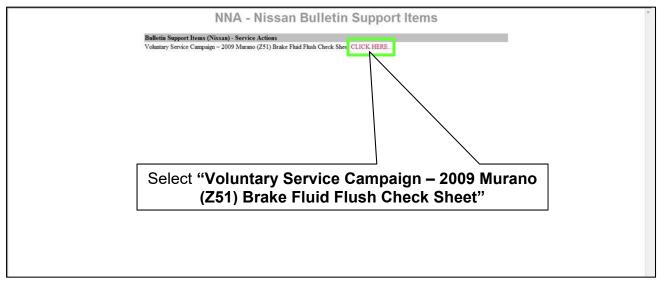
Antilock Brake System Actuator Flush

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

- The form can be accessed by selecting ASIST > Bulletin Support Items > Voluntary Service Campaign – 2009 Murano (Z51) Brake Fluid Flush Check Sheet (see Figures 2 and 3).
 - > Further details can be found on page 25.
- When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection, and to order parts if necessary.
- If you are not connected to WiFi at this time, use a printed copy of ONLINE FORM/AUTO PARTS ORDERING PROCESS, and transfer the information to a WiFi connected ASIST PC (see page 25), after the procedure has been completed.







IMPORTANT: All of the following brake fluid bleed cycles <u>must</u> <u>be completed</u> to fully flush the brake system with DOT 4 brake fluid.

8. IMPORTANT: <u>STOP</u> and read steps 9-36 completely before proceeding.

- Connect the GR8 to the vehicle battery, set to "power supply" mode.
 NOTE: Battery voltage must stay between 12 volts and 15.5 volts.
- 10. Turn the ignition ON, but do not start the engine.
- 11. Connect the CONSULT PC to the vehicle.
- 12. Open / start C-III plus.
- 13. Wait for the plus VI to be recognized.
 - The serial number will display when the plus VI is recognized.

14. After the plus VI is recognized Select Diagnosis (All Systems).

Image: Back Image: Back	
Connection Status Serial No. Status VI 2316951 Normal Mode/USB connection MI - MI - Select VI/MI	Diagnosis (One System) Diagnosis (All Systems) Step 14 Re/programming, Configuration Immobilizer Maintenance
VDR	

Figure 4

- 15. If the screen in Figure 5 displays, select **Automatic Selection(VIN)** and wait for the Reading VIN screen to complete.
 - If the screen in Figure 5 does not display, skip to step 17.

16. Select Select.

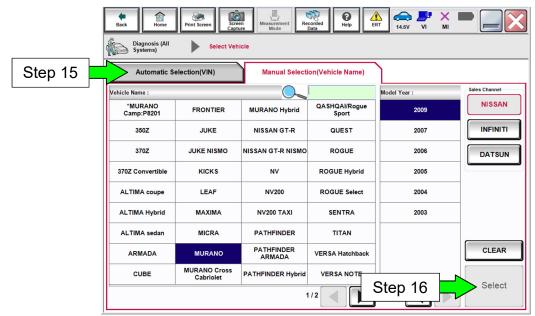


Figure 5

17. Verify the VIN in **VIN or Chassis #** matches that of the vehicle's.

• If the correct VIN exists, select Confirm.

Back Rome Print Screen Capture	Measurement Recorded Data	
Diagnosis (All Select Vehicle	Confirm Vehicle	
Please confirm selected information and to to touch "Change".	uch "Confirm". In case you want to select another vehicle,	
VIN or Chassis #	JN8AZ18W99W131709	
Vehicle Name :	MURANO	
Model Year	2009	
	1/1	
		Change
	Step 17	Confirm

Figure 6

18. Select ABS.

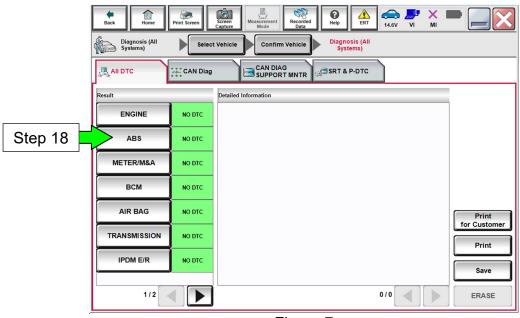


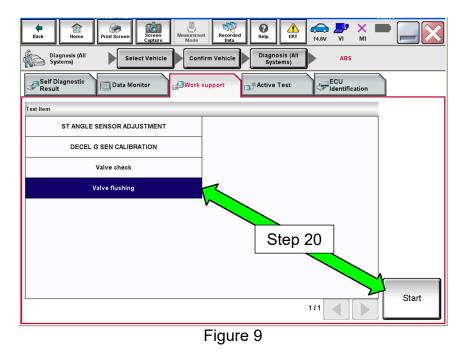
Figure 7

19. Select Work Support.

Home Print Screen	en ure Measurement Recorded Data	
Diagnosis (All Select Vel		s (All s) ABS
Step 19	Work support	st ECU Identification
No DTC is detected. Further testing may be required.	· .	. [.]
		Print
		Save
		1/1 ERASE

Figure 8

20. Select Valve flushing, and then Start.



21. Press the brake pedal to raise the brake pressure to 21-39 bar (Figure 10). **NOTE:** Monitor the brake pressure with C-III plus.

22. While maintaining 21-39 bar of brake pressure select **Next** one (1) time.

• The brake pedal will drop after Next is selected; <u>do not release</u>.

Back Home Print Screen S	Creen Index Mode
Diagnosis (All Select V Systems)	ehicle Confirm Vehicle Diagnosis (All Systems) ABS
Work support : Valve flushing	
Satisfy following conditions: -Ignition switch ON (Engine stopped) -Connect to battery charger -Depress brake pedal (21 - 39 bar) Touch "Next". It is normal that Brake p	
Current status	Waiting for your operation
Cycle count	0
MONITOR	
ENGINE SPEED	0 rpm
P POSI SIG	On
PRESS SENSOR	21 bar Step 21
	End

Figure 10

IMPORTANT: For the following steps:

- Brake pedal pressure <u>must be</u> at 21-39 bar during the entire valve check procedure.
 - o If the pressure is outside this range, <u>an error will occur</u> as shown in Figure 11.
 - If this occurs, select **Next**, regulate brake pressure to 21-39 bar, and then restart test.
 - Only select **End** if C-III plus is no longer responding. This will restart the test from the beginning.

Back Image: Biome Print Sere Biome Diagnosis (All Systems) Image: Biome Image: Biome Work support: Valve flushing Image: Biome Image: Biome	Capture Mode Data 14.50 VI Select Vehicle Confirm Vehicle Systems) ABS	MI Next
	Do Not select End . This will start the procedure from the beginning.	

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IMPORTANT: In step 23 select Next <u>ONLY one (1) time</u>. Do Not select Next again until instructed to in step 25.

23. While continuing to press the brake pedal select Next one (1) time,

And then

- a. When ABS motor buzz sound is heard ("ABS motor operating" displayed; Figure 13), **RELEASE** the brake pedal.
 - The screen in Figure 14 will display after the operation has completed. <u>Do Not</u> <u>select Next again until instructed to</u>.

Back Home Print Screen Sc	Image: Confirm Vehicle Confirm Vehicle Confirm Vehicle Confirm Vehicle Confirm Vehicle Confirm Vehicle ABS		
After checking the motor being activa	sing the brake pedal to start valve flushing. ted, release brake pedal. be heard during operation. This sound is not malfunction.	Next	Step 23
Current status	Valve check		
Cycle count	0		
		End	

Figure 12

- After Next is selected (step 23), Figure 13 will be displayed with Current status of "ABS motor operating".
- This operation will continue for thirty (30) seconds.

Back Home Print Screen SC	reen Mode but	-
Diagnosis (All Systems)	ehicle Confirm Vehicle Diagnosis (All ABS	
Work support : Valve flushing		
Valve flushing is in progress. Operation sound caused by motor can operation continues for Approx. 30 sec	be heard during the operation. This sound is not malfunction. This onds.	Next
Current status	ABS motor operating	
Cycle count	0	
		End

Figure 13

CAUTION: In the following steps DO NOT use a power bleeder <u>of any type</u> to bleed or drain the brake fluid.

- 24. Release some brake fluid from each brake caliper <u>one time</u>, as follows:
 - All four (4) brake calipers <u>must</u> each be bled once before selecting Next.
 - Refill the brake fluid reservoir with DOT 4 brake fluid as needed.

IMPORTANT: <u>Do not</u> allow the brake fluid reservoir to go below the minimum line.

 a. Connect a vinyl tube to the bleeder valve of the <u>right rear</u> brake caliper.
 Place the opposite end of the vinyl tube into a catch container.

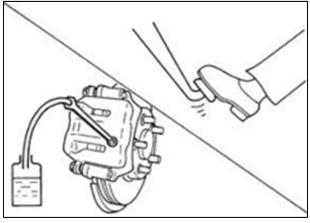


Figure B

- b. Fully depress the brake pedal one (1) time, and then hold light pressure.
- c. Loosen the bleeder valve, while the brake pedal is being depressed, to bleed (release) brake fluid and then tighten the bleeder valve.
- d. Perform steps a through c to the left rear, right front and left front.
- e. Refill the brake fluid reservoir with **DOT 4** brake fluid to the maximum level mark.

25. Select **Next** to run valve flushing again.

NOTE: Steps 21-25 will be performed thirteen (13) more times in the next step.

IMPORTANT: Brake fluid bleed cycles <u>must all be completed</u> to fully replace the brake system with DOT 4.

Back Home Print Screen Sc	Pture Mode Recorded Help ERT 14.6V	
Work support : Valve flushing	ehicle Confirm Vehicle Systems)	452
Motor stopped. Perform following ope	uration for each wheel	
 Fully depress brake pedal. Loosen air bleeder and drain brake f 		Next Step 25
 Refill new brake fluid. After performing and completing for all 	four wheels, touch "Next".	
Current status		Operation wait
Cycle count		0
		End

Figure 14

26. Repeat steps 21-25 thirteen (13) more times until Current status displays "Complete", and then select **End**.

IMPORTANT:

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

Back	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	P Help	ERT	(14.6V		X MI			
Dia Sy	agnosis (All stems)	Sele	ect Vehicle	Confirm	n Vehicle 🕨	Diagn Sys	osis (All tems)		ABS				
Work supp	ort : Valve fl	lushing											
Touch "E	completed. ind''. ralve check i										Nex	t	
												<u></u>	rrent status is
Current st	tatus								Com	nplete			"Complete"
Cycle cou	Int									14	Enc		
				-		4 -							

Figure 15

27. Remove the GR8 from the 12V battery.

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 <u>must be filled out</u> while performing the procedure.

- The form can be accessed by selecting ASIST > Bulletin Support Items > Voluntary Service Campaign – 2009 Murano (Z51) Brake Fluid Flush Check Sheet (see page 6, Figures 2 and 3).
 - > Further details can be found on page 25.
- When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection, and to order parts if necessary.
- If you are not connected to WiFi at this time, use a printed copy of ONLINE FORM/AUTO PARTS ORDERING PROCESS, and transfer the information to a WiFi connected ASIST PC (see page 25), after the procedure has been completed.

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

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

28. Start the engine.

29. Select Valve Check, and then Start.

Back Image: Second Capture <
Result Data Monitor
Test Item
ST ANGLE SENSOR ADJUSTMENT
DECEL G SEN CALIBRATION
Valve check
Valve flushing
Step 29
1/1 Start

Figure 16

IMPORTANT: For the following steps:

- Brake pedal pressure <u>must be</u> at 21-39 bar during the entire valve check procedure.
 - o If the pressure is outside this range, <u>an error will occur</u> as shown in Figure 17.
 - If this occurs, select **Retry**, regulate brake pressure to 21-39 bar, and then restart test.
 - Only select **End** if C-III plus is no longer responding.

Back Home Print Screen	en Measurement Recorded	BERT 13.4V	VI MI	$\mathbf{\times}$
Diagnosis (All Systems) Select Veh	icle Confirm Vehicle	Diagnosis (All Systems)	ABS	
Work support : Valve check				
Operation is unsuccessful. Touch "Retry" to start over from previo Touch "End" to end the operation.	us operation.		Start	
			Next	
Current status		FR operation u		
				Ĵ
	Figure 17			
		procedu	is selected, the ire will start from beginning.	

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

- Monitor the brake pressure with C-III plus.
- 31. While maintaining 21-39 bar of brake pressure, select **Start** to check the first valve (FR valve).

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

• The valve will open right after Start is selected and the <u>brake pedal should smoothly</u> <u>move down</u> (pedal height drop).

Back Print Screen Screen	ert Recorded Data	←	-
Diagnosis (All Select Vehicle Con Systems)	nfirm Vehicle Diagnosis (All Systems)	ABS	
Work support : Valve check			
Perform valve check while depressing brake pedal a •Brake fluid pressure: 21 - 39 bar •Engine: Running •Shift position: P	nd satisfying the following condit	tions.	Start
	Step	31	Next
Current status		FR valve check start	Retry
MONITOR			
ENGINE SPEED	1016	rpm	
P POSI SIG	On		
PRESS SENSOR	27	bar	
			End

Figure 18

32. Did the brake pedal move down \downarrow ?

- YES: Proceed to step 33 on page 19.
- NO: Proceed to the next page.

Only perform the following if <u>NO</u> was the answer to step 32:

- 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 25).
- d. Replace the ABS actuator.
 - Refer to the Electronic Service Manual (ESM), Section BRC Brake Control System, for procedure to replace the ABS actuator.
 - IMPORTANT: Refill with DOT 4 brake fluid ONLY.
- e. Bleed the air from each brake circuit as follows:
 - Connect a vinyl tube to the bleeder valve of the <u>right rear</u> brake caliper. Place the opposite end of the vinyl tube into a catch container.
 - Fully depress the brake pedal 4 to 5 times, and then hold light pressure.
 - Loosen the bleeder valve, while the brake pedal is being depressed, to bleed air and then tighten the bleeder valve.

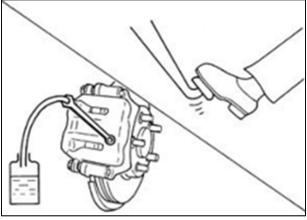


Figure C

- 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. Proceed to step 39.

33. Select Next.

Back Home Print Screen Capture	ement Recorded Help FDT	→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		
Diagnosis (All Select Vehicle	confirm Vehicle Diagnosis (All Systems)	ABS		
Work support : Valve check				
Check brake pedal stroke. If there are any changes, touch "Next". If there aren't any changes, the valve is sticking. St	op the operation and replace ABS a	ctuator and C/U.	Start	
			Next	Step 33
Current status	[During FR valve check	Retry	
MONITOR				
ENGINE SPEED	988	rpm		
P POSI SIG	On			
PRESS SENSOR	21	bar		
			End	
	Eiguro 10			

Figure 19

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

• After Next is selected, the ABS pump motor will run/buzz and the <u>brake pedal should</u> <u>forcibly move up</u> (pedal height increases).

NOTE: Monitor the brake pressure with C-III plus.

Back Home Print Screen Ca Diagnosis (All Systems) Select Ve Work support : Valve check	ehicle Confirm Vehicle Diagnosis (All Systems)	
Operation is completed. Touch "Next" Operation sound caused by motor can	". i be heard after touching "Next". This sound is not malfunc	tion. Start Next Step 34
Current status	During FR	Retry
MONITOR		
ENGINE SPEED	903 rpm	
P POSI SIG	On	
PRESS SENSOR	22 bar	
		End

Figure 20

- After Next is selected, Figure 21 will be displayed with Current status of "ABS motor operating".
- This operation continues for twenty (20) seconds before the start button will be active again.

Back Image: Constraint of the second se	ert Recorded Data	←	
Diagnosis (All Select Vehicle Cor Systems)	firm Vehicle Diagnosis (All Systems)	ABS	
Work support : Valve check			
Brake pedal moves up. after the motor within ABS ac If brake pedal stays depressed, the valve is sticking. Stop the operation and replace ABS actuator and C/L Sound caused by motor can be heard during operati	J.	n	Start
This operation continues for Approx. 20 seconds.			Next
Current status		ABS motor operating	Retry
MONITOR			
ENGINE SPEED	638	rpm	
P POSI SIG	On		
PRESS SENSOR	52	bar	
			End



35. Did the brake pedal move up \uparrow ?

Record the results of this test on the ABS Check Sheet (page 25) to track progress.

- YES: Proceed to step 36 on page 22.
- **NO:** Proceed to the next page.

Only perform the following if <u>NO</u> was the answer to step 35:

- 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 25).
- d. Replace the ABS actuator.
 - Refer to the Electronic Service Manual (ESM), Section **BRC Brake Control System**, for procedure to replace the ABS actuator.
 - IMPORTANT: Refill with DOT 4 brake fluid ONLY.
- e. Bleed the air from each brake circuit as follows:
 - Connect a vinyl tube to the bleeder valve of the <u>right rear</u> brake caliper. Place the opposite end of the vinyl tube into a catch container.
 - Fully depress the brake pedal 4 to 5 times, and then hold light pressure.
 - Loosen the bleeder valve, while the brake pedal is being depressed, to bleed air and then tighten the bleeder valve.

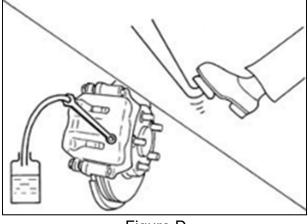


Figure D

- 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. Proceed to step 39.

36. Perform steps 30–35 on the FL, RR and RL valves and then proceed to the next step.

NOTE: When steps 30 to 35 have been competed for all four wheels (FR, FL, RR and RL), current status on the C-III plus screen will display Complete.

37. Select End.

Rack Home Drint Screen	icreen apture Measurem Mode	ent Recorded Data	Help ERT Diagnosis (All Systems)	14.3V		K		
Work support : Valve check								
Touch "Retry" to start over from prev Touch "End" to end the operation.	vious operation.						Start	
							Next	
Current status					Com	plete	Retry	
MONITOR								
ENGINE SPEED			613	rpm				
P POSI SIG			On					
PRESS SENSOR			35	bar				
							End	St

Figure 22

38. Turn the engine OFF.

39. Disconnect the C-III plus, VI and GR8 from the vehicle.

40. Reinstall the wheels and torque lug nuts.

• Torque: 108 N•m (11kg-m, **80 ft-lb**)

Install New Brake Fluid Reservoir Cap

- 41. Mark the top of the new DOT 4 brake fluid reservoir cap with white touch-up paint, as shown in Figure 23.
 - Reservoir cap and touch-up paint are listed in the Parts Information of this bulletin.
 - Highlight "USE ONLY DOT 4".

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



Figure 23

42. Replace the brake fluid reservoir cap (Figure 24) with the new DOT 4 cap marked in step 41.

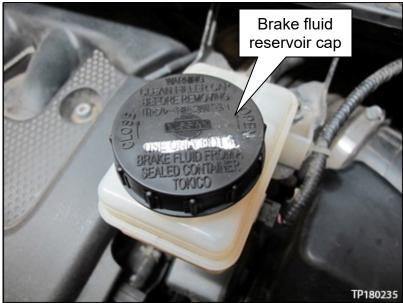


Figure 24

43. Place a printed copy of amended Owner's Manual pages into the customer's Owner's Manual (see page 30).

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
Nissan Genuine Brake Fluid (1) (DOT 4)	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 to order parts.
- (4) Shop supply.

EXPENSE CODE

EXPENSE CODE	DESCRIPTION	MAX AMOUNT
105	Touch-up Paint	\$0.30

CLAIMS INFORMATION

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
P8305	Inspect ABS Actuator	P83050	2.2hrs.
P8305	Inspect and Replace ABS Actuator	P83051	4.3hrs.

ONLINE FORM/AUTO PARTS ORDERING PROCESS

The following online form <u>must be filled out</u> while performing the service procedure, and then submitted to Nissan to validate the completion of the inspection, and to order parts if necessary.

- The form can be accessed by selecting ASIST > Bulletin Support Items > Voluntary Service Campaign – 2009 Murano (Z51) Brake Fluid Flush Check Sheet (see page 6, Figures 2 and 3).
- When the form has been completed, it will be submitted to Nissan to validate the completion of the inspection, and to order parts if necessary.
- 1. Input vehicle VIN, Dealer Number, Technician Name, Technician ID, Service Manager and whether FWD or AWD.

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

Important: This information <u>must</u> be input correctly to enable the Auto Parts Ordering Process.

2. While completing the Valve Flushing Process, utilize the Valve Flushing Checklist to assist in tracking and completion.

	Valv	e Flus	hing	- Fill	Rese	rvior	Afte	r Eac	h Ch	eck				
Test #	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Flush														
Bleed System														

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

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

4. 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.

 \Box 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.

a. Once all blocks are completed, push the "Submit" button to process.

VIN	JN8AZ	18W ^ 9>	00000	<										
Model Year	2009													
Model	Murano)							Ļ					_
Dealer Number	0000									Exa	amp	ole c	only	
Technician Name	John D	oe							Ч					_
Technician ID	0101													
Service Manager	Bob Do	e												
	OFW	D												
Drivetrain	OAW													
[Valu	. Elua	hin a	E:II I	2	rian A	4 T	in alt (The also				
			ve Flushing - Fill Reservior After Each Check											
Test #	1	2	3 4 5 6 7 8 9 10 11 12							13	14			
											\square			
Flush														
i lush														
Bleed System														
					Val	ve Ch	eck							
							Valv	e Insp	ection					
											<i>a</i> .	•		
					Step 1						Step	2		
		Did	the bra	ake ped	lal mov	e towa	rds flo	or?	Did tł	ne brak	e pedal	move	upwar	d?
				Yes	-	~					'es	V		
FR Valve				Tes	>	•				Ľ	25	•		
FL Valve				Yes	5	~				Y	'es	~		
TL valve														
RR Valve				Yes	5	\checkmark				Y	'es	\sim		
RL Valve				Yes	5	~				Y	'es	\sim		
Actuator Cond	ition													

<u>Voluntary Service Campaign (P8305)</u> 2009 Murano Brake Fluid Flush Check Sheet

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

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.

Voluntary Service Campaign (P8305) – 2009 Murano Brake Fluid Flush Result

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

VIN	JN8AZ1	XXXXXXXX					
Model Year	2009						
Model	Murano						
Dealer Number	0000		Example only				
Technician Name	John Do	e					
Technician ID	0101						
Service Manager	Bob Do	Bob Doe					
Drivetrain	® FWI © AW						
		Valve Check					
	Valve Iz		spection				
		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		ок	ОК 🗸				

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.

c. For a "No-Good" ABS Actuator the following screen will populate. Follow the instructions in the yellow pop-up box.

This screen indicates that your ABS Actuator has been ordered along with the P/N.

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

Direct any questions to CampaignAnnouncements@Nissan-Usa.com and print and attach the ABS Actuator Checklist to the Work Order.

Voluntary Service Campaign (P8305) - 2009 Murano Brake Fluid Flush Result

CAMPAIGN AUTO ORDERING PROCESS

(Do not order ABS Actuator using the standard parts process. The Part will be Auto ordered)

- The ABS Actuator Order will be placed automatically within 1 business day
- Part # D7660-1SW0C for FWD will be sent using the last 8 digits of the VIN on the Label
- Do Not file warranty claim until Actuator is installed on vehicle
- Direct any questions to Aftersales at CampaignAnnouncements@Nissan-Usa.com

VIN	JN8AZ1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
Model Year	2009						
Model	Murano						
Dealer Number	0000						
Technician Name	John Da	×		Example only			
Technician ID	0101						
Service Manager	Bob Do	Bob Doe					
Drivetrain	●FWD ○AWD						
		Valve Check					
	Valve I		ispection				
		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 🗸	No Y				
Actuator Condition		OK Y		NG Y			

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.

Owner's Manual Pages

BRAKE FLUID

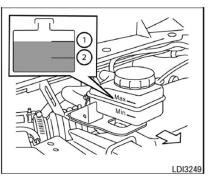
For additional brake fluid information, see "CA-PACITIES AND RECOMMENDED FUEL/LUBRICANTS" in the "9. Technical and consumer information" section of this manual.

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 line 2 or the brake warning light comes on, add Genuine NISSAN brake fluid CLARIANT 6M DOT4 or equivalent DOT4 up to the MAX line(1). 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.		e instructions	Genuine NISSAN PSF or equivalent*8	
Brake fluid				If" section.	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.