

Motorcycle/ATV Division

GS/GSX/GSX-R No. 235

November 25, 2015

SAFETY RECALL CAMPAIGN 2A48 GSX-S1000/A/FA Front Brake Caliper

Affected Models: 2016 GSX-S1000/A/FA (Only select units – see the VIN ranges below)

Reference: [*Important Safety Recall – Stop Retail Sales and Delivery
Bulletin No. 15-169*](#)

Affected Departments: Management, Service, Warranty, Sales, Parts, Accessories

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Suzuki Motor Corporation has decided that a defect which relates to motor vehicle safety exists in certain 2016 model-year GSX-S1000/A/FA motorcycles.

STOP DELIVERY OF AFFECTED MOTORCYCLES IMMEDIATELY

DO NOT SELL OR DELIVER an affected motorcycle to a customer until you have completed, or verified completion of, the repair procedures outlined in this bulletin.

It is a violation of Federal law to sell or deliver any new motorcycle or item of motor vehicle equipment subject to a safety recall campaign under a sale or lease until the defect or non-compliance has been corrected.

In addition, selling an unrepaired affected motorcycle is a direct violation of your Suzuki dealer agreement and may lead to additional sanctions.

What is the problem?

The supplier of the front brake caliper applied a surface treatment to change the color of the brake caliper body. Due to insufficient sealing, some treating liquid may have entered the brake piston cylinder, damaging the surface condition of the brake piston seal groove, which can result in brake fluid leaking from the calipers. Brake fluid leakage can result in reduced braking performance, increasing the risk of a crash.

| <u>Affected Models</u> | <u>Model-Year</u> | <u>VIN Range</u> |
|-------------------------------|--------------------------|---------------------------------------|
| GSX-S1000 | 2016 | JS1GT79A*G2100006 ~ JS1GT79A*G2100364 |
| GSX-S1000A | 2016 | JS1GT7AA*G2100248 ~ JS1GT7AA*G2100378 |
| GSX-S1000FA | 2016 | JS1GT7CA*G2100079 ~ JS1GT7CA*G2100189 |

Verify if the vehicle is affected by the safety recall:

Confirm the recall status by checking the vehicle identification number (VIN), which is located on the right side of the steering head, against the Vehicle Master in Suzuki Connect to see if the front brake calipers need to be replaced. If you have a question regarding vehicle eligibility, contact the Suzuki Motor of America, Inc. (SMAI) Warranty Department.

What your dealership will do:

- 1) Replace the front brake calipers.

If leaking brake fluid has damaged the brake disc(s) and/or wheel, your Technical Service Manager will authorize your dealership to also replace these items.

NOTE:

All affected units must have the brake calipers replaced, regardless of prior repairs.

- 2) Submit a warranty claim.

What Suzuki Motor of America, Inc., will do:

During the week of November 30, 2015, Suzuki Motor of America, Inc., will mail notification letters to owners of affected motorcycles for whom we have information. The letter instructs the customer to contact a Suzuki dealer to schedule an appointment for the repair.

If you have sold an affected vehicle to a customer prior to receiving this bulletin and have not made the repair, please contact the customer immediately to arrange for the motorcycle to be returned to your dealership for this Safety Recall Campaign.

Ordering parts for the Safety Recall Campaign:

- Parts are available now.
- Use the normal parts ordering procedure to order the parts kit(s) needed for units in your inventory or for customer units in your shop for service.
- Initially, your parts orders will be limited to 3 parts kits.
- If you have an immediate need for more than 3 parts kits, please contact National Parts Coordination at (714) 854-2165.
- Be sure to retain all removed warranty parts, and **render the removed parts unserviceable so they cannot be reused.**

| PARTS ORDERING INFORMATION | | |
|----------------------------|------------------|---------------|
| Parts Kit Name | Parts Kit Number | Qty. Required |
| Front Caliper Set | 59000-14810-RX0 | 1 |

| ADDITIONAL PARTS ORDERING INFORMATION (IF NEEDED) | | |
|---|-----------------|---------------|
| Part Name | Part Number | Qty. Required |
| Disc, Front Brake | 59210-04K00 | 1 or 2 |
| Bolt (6x21) | 09106-06124 | 6 or 12 |
| Ring, Speed Sensor FR | 54162-44H00 | 1 |
| Bolt, Gen. Lead | 07130-0512A | 3 |
| Wheel, Front | 54111-04K00-019 | 1 |
| Valve Assy | 43130-24A00 | 1 |
| Spacer, FR Hub Bearing | 54731-14J00 | 1 |
| Bearing, Front Hub (22x44x12) | 09262-22035 | 2 |
| Oil Seal | 09283-28016 | 2 |

Warranty Claim Processing:

Submit a warranty claim for each Front Brake Caliper Recall Campaign service immediately upon completion of the repair. This campaign requires you to file a warranty claim using ONE of the methods described on the following pages.

| WARRANTY INFORMATION | | | | | |
|----------------------|------------|--|----------------|-----------------|--------------------|
| Model | Model Year | Parts Description | Flat Rate (HR) | Campaign Number | Short or Long Form |
| GSX-S1000/A/FA | 2016 | Caliper Assy, Front R/L | 0.5 | 2A48 | Short Form |
| GSX-S1000/A/FA | 2016 | Caliper Assy, Front R/L, and 1 piece of Disc Comp, Front Brake are replaced | 1.0 | 2A48 | Long Form |
| GSX-S1000/A/FA | 2016 | Caliper Assy, Front R/L, and 2 pieces of Disc Comp, Front Brake are replaced | 1.1 | 2A48 | |
| GSX-S1000/A/FA | 2016 | Caliper Assy, Front R/L, and 1 or 2 pieces of Disc Comp, Front Brake and Wheel, Front are replaced | 1.8 | 2A48 | |

Suzuki Connect Short Campaign Claim:

NOTE:

By using the short form, your dealership will be reimbursed for the caliper assembly set (P/N 59000-14810-RX0), 0.5 hour of labor and 1 bottle of Suzuki DOT 4 Brake Fluid (P/N 990A0-03007).

You are required to only use Suzuki DOT 4 Brake Fluid for new units in your inventory.

| FRONT BRAKE CALIPER RECALL CAMPAIGN SUZUKI CONNECT SHORT FORM INSTRUCTIONS | |
|---|---------------------------------|
| CLAIM INFORMATION | |
| CLAIM NUMBER: | XXXXXX.X (Dealer enters number) |
| ENTRY TYPE (Dealer chooses): | VIN, Model/Frame, or Control |
| REPAIR DATE: | Enter date of repair |
| MILEAGE: | Enter mileage at repair date |
| CAMPAIGN NUMBER: | 2A48 |

Suzuki Connect Long Campaign Claim:

The Long Campaign Claim entry should be used when additional parts or labor are required to complete the Recall Campaign service. **A Long Form Claim requires TSM authorization.**

You are required to only use Suzuki DOT 4 Brake Fluid for new units in your inventory.

FRONT BRAKE CALIPER RECALL CAMPAIGN SUZUKI CONNECT LONG FORM INSTRUCTIONS

CLAIM INFORMATION:

| | |
|--------------------------|---|
| CLAIM NUMBER: | XXXXXX.X (Dealer enters number) |
| ENTRY TYPE: | VIN, Model/Frame or Control (Dealer chooses) |
| REPAIR DATE: | Enter date of repair |
| MILEAGE: | Enter mileage at repair date |
| CAMPAIGN NUMBER: | 2A48 |
| LABOR OPERATION: | MK9999 |
| LABOR TIME (Choose one): | 1.0 HR (Caliper Assy, 1 Disc) 1.1 HR (Caliper Assy, 2 Discs) 1.8 HR (Caliper Assy, 1 or 2 Discs, and Wheel) |

PARTS INFORMATION

| | |
|-------------------|-----------------|
| REPLACEMENT PART: | 59000-14810-RX0 |
| ADDITIONAL PARTS: | AS AUTHORIZED |

| | |
|----------------|----------|
| AUTHORIZATION: | REQUIRED |
| SUBLET: | NONE |

FAILURE DESCRIPTION:

| | |
|------------------------|--|
| DESCRIPTION OF DEFECT: | GSX-S1000/A/FA Front Brake Caliper Replacement |
| DESCRIPTION OF REPAIR: | Performed recall repair as required per Service Bulletin |

Inspection and Repair Procedure:

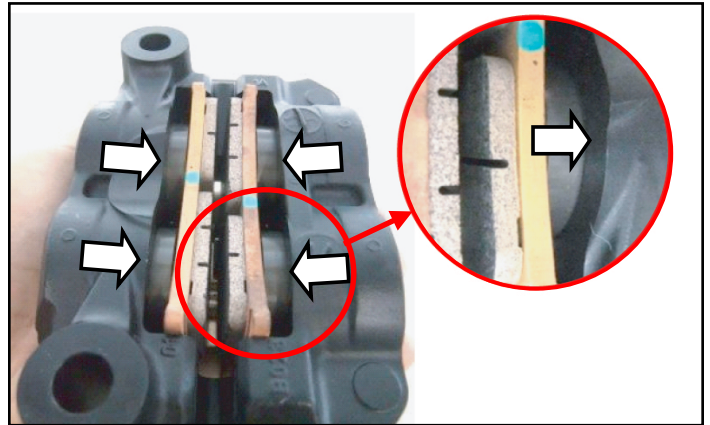
#1 Front Brake Caliper Inspection

Inspect the front brake calipers and brake pads for visible brake fluid leaks or brake fluid residue.

NOTE:

Check for fluid or residue around the pistons when removing the front brake calipers.

- A. If **no** leaks are visible, replace only the front brake calipers.
- B. If brake fluid **is** visible on the calipers, also inspect the brake discs.



#2 Front Brake Disc Inspection

If any brake fluid is visible on the brake discs, inspect them for paint that may be peeling.

NOTE:

Be sure to inspect the entire circumference of the brake discs.

- A. If **no** brake fluid is visible and the paint is not peeling, replace only the front brake calipers.
- B. If brake fluid **is** visible on the brake discs and calipers, also inspect the front wheel for visible brake fluid or residue, and paint that may be peeling.



#3 Front Wheel Inspection

Inspect the front wheel for visible brake fluid or residue, and/or paint that may be peeling.

NOTE:

Be sure to inspect the entire circumference of the front wheel.

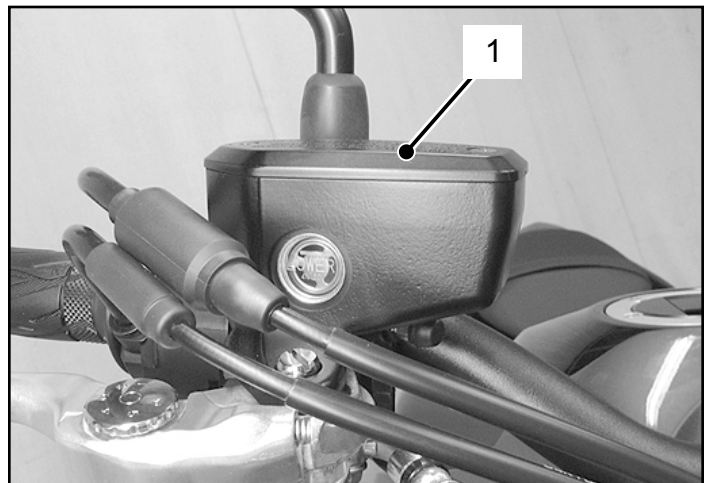
- A. If brake fluid is **not** visible on the front wheel and there is no evidence of paint that may be peeling or of paint damage, replace the front brake calipers and front brake discs.
- B. If the paint on the front wheel **is** peeling, replace the front brake calipers, front brake discs and the front wheel.



Front Brake Caliper Replacement

| NOTICE |
|---|
| Brake fluid can damage painted surfaces, plastics and rubber materials. |
| If brake fluid comes into contact with surrounding parts, immediately flush the parts with water. |

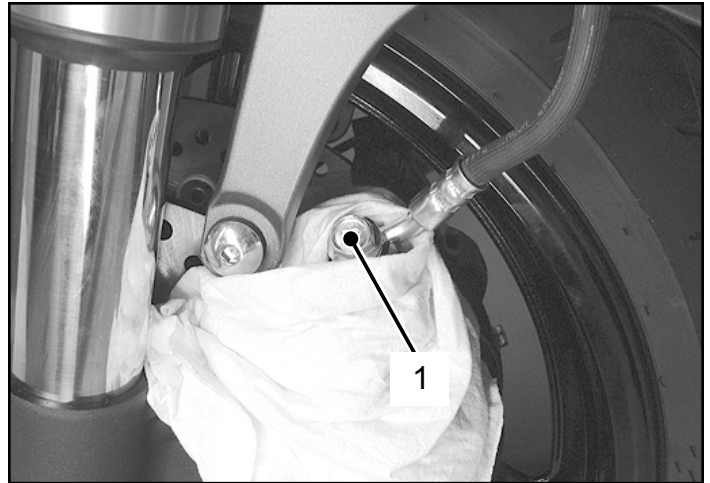
- 1) Place the motorcycle on a level surface and keep the handlebars straight.
- 2) Remove the brake fluid reservoir cap (1) and diaphragm.



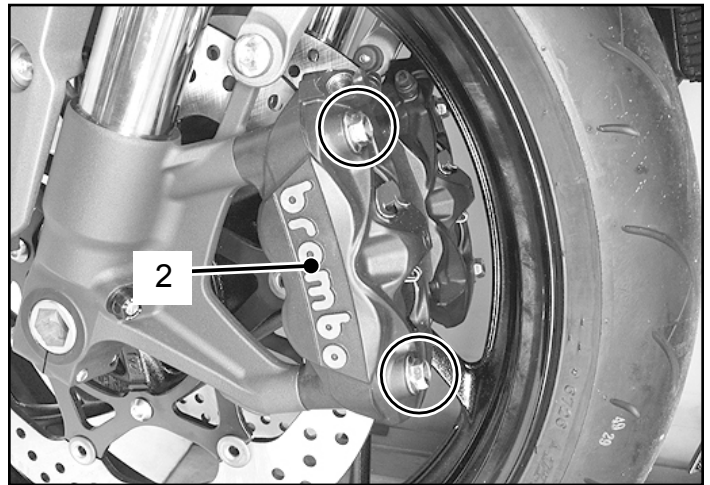
- 3) Remove the old brake fluid.



- 4) Place a shop towel under the brake caliper union bolt to absorb any spilled brake fluid.
- 5) Remove the brake hose from the caliper by removing the union bolt (1) and drain the brake fluid into a container.



- 6) Remove the front brake caliper (2).



- 7) Install the new front brake caliper (3).
- 8) Tighten the front brake caliper mounting bolts (4) to the specified torque.

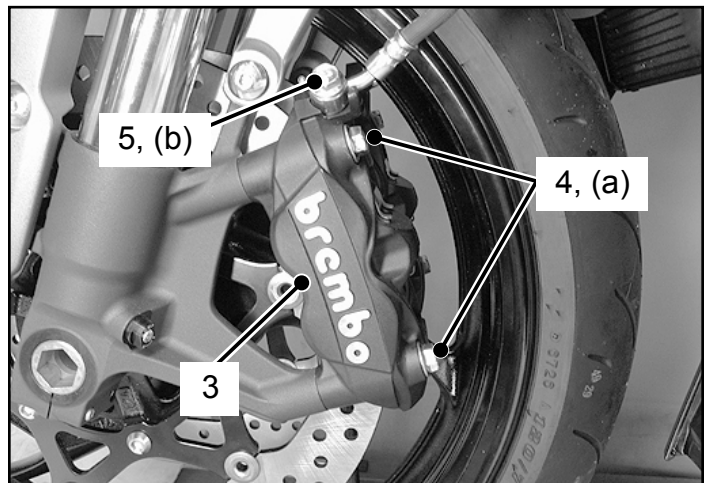
Tightening torque

Front brake caliper mounting bolt (a):
39 N•m (4.0 kgf-m, 29.0 lbf-ft)

- 9) Install the brake hose union bolt (5) and new brake hose washers.
- 10) After setting the brake hose union to the stopper, tighten the union bolt (5) to the specified torque.

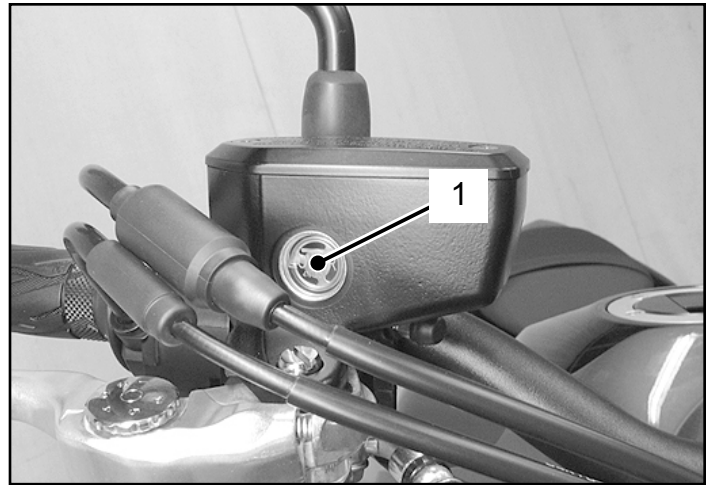
Tightening torque

Brake hose union bolt (b):
23 N•m (2.3 kgf-m, 17.0 lbf-ft)

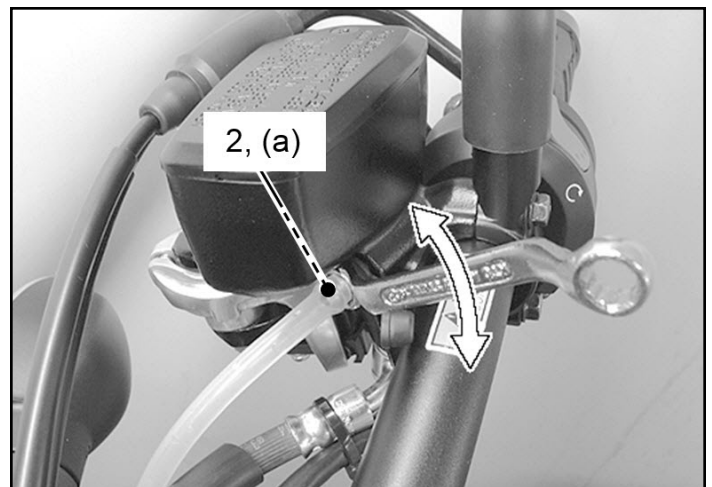


Bleed the Brake Lines

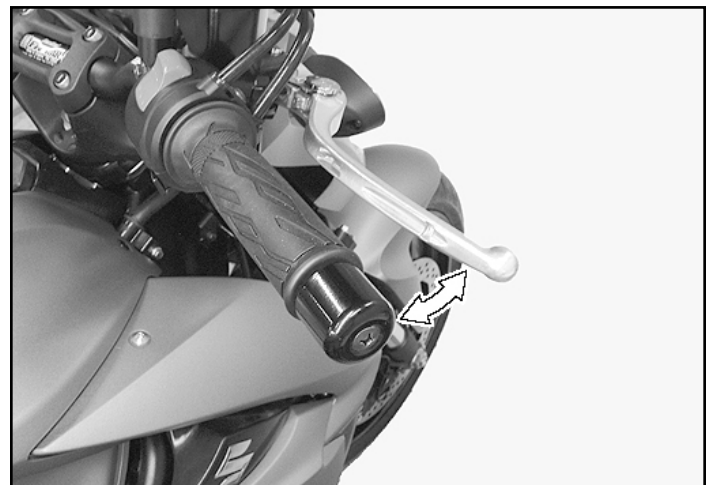
- 1) Remove the reservoir cap and diaphragm.
- 2) Fill the master cylinder reservoir with new DOT 4 brake fluid to the top of the inspection window (1).



- 3) Attach a clear hose to the air bleeder valve (2) on the front brake master cylinder, and insert the free end of the hose into a container.



- 4) Pump the brake lever several times and, while keeping the lever pulled in, loosen the bleeder valve (2) and drain the brake fluid into a container.
- 5) Tighten the bleeder valve (2) and release the brake lever slowly.
- 6) Repeat the steps 5 and 6 until the fluid is flowing out without bubbles.
- 7) Tighten the bleeder valve (2) to the specified torque.

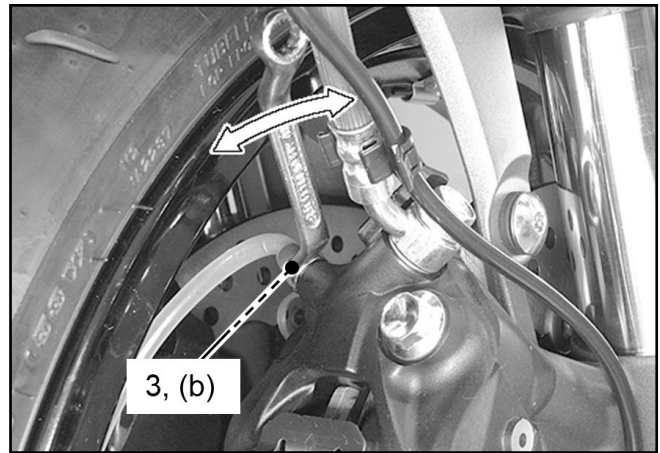


Tightening torque

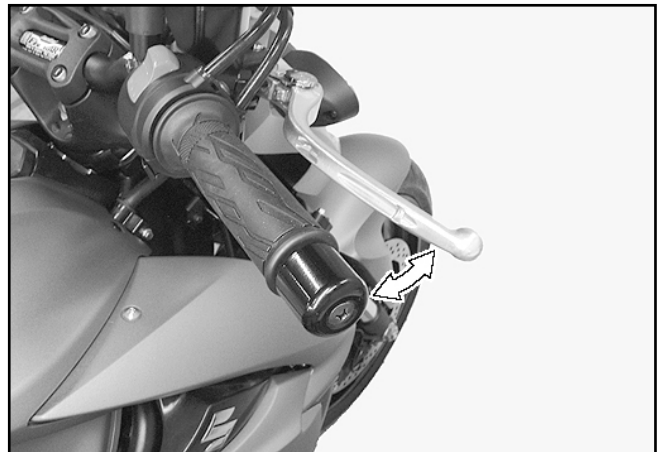
Front brake master cylinder air bleeder valve (a):

6.0 N•m (0.61 kgf-m, 4.45 lbf-ft)

- 8) Starting at the left front brake caliper, attach a clear hose to the air bleeder valve on the brake caliper (3), and insert the free end of the hose into a container.



- 9) Pump the brake lever several times and, while keeping the lever pulled in, loosen the bleeder valve (3) and drain the brake fluid into a container.
- 10) Tighten the air bleeder valve (3) and release the brake lever slowly.
- 11) Repeat the steps 10 and 11 until the fluid is flowing out without bubbles.



NOTE

While bleeding the brake system, replenish the reservoir with the brake fluid as necessary to keep the fluid above the lower level.

- 12) Tighten the air bleeder valve (3) to the specified torque.

Tightening torque

Front brake caliper air bleeder valve (b):
7.5 N•m (0.76 kgf-m, 5.55 lbf-ft)

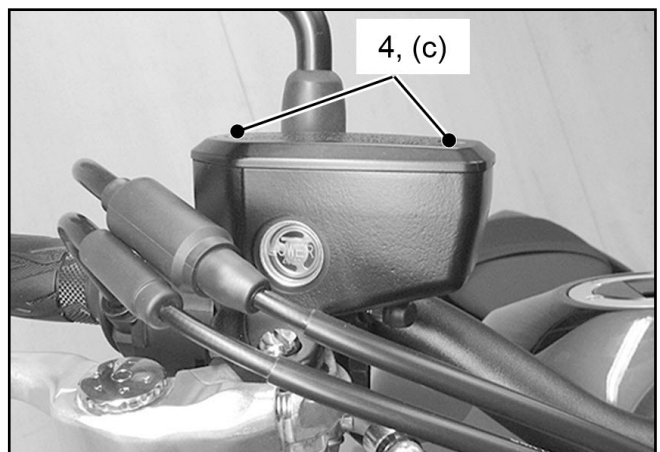
- 13) Repeat steps 9 - 13 on the right brake caliper.
- 14) Fill the reservoir with brake fluid to the depth "a" of 7 mm (0.3 in) from the reservoir tank edge.



- 15) Install the diaphragm and reservoir cap.
- 16) Tighten the reservoir cap screws (4) to the specified torque.

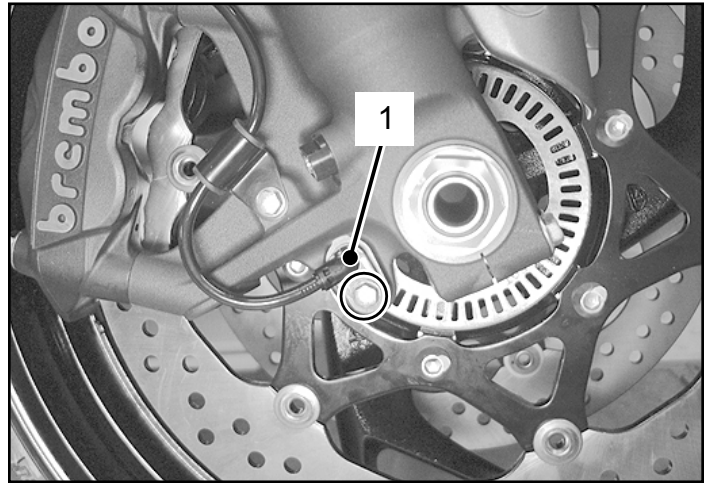
Tightening torque

Front reservoir cap screw (c):
1.5 N•m (0.15 kgf-m, 1.10 lbf-ft)

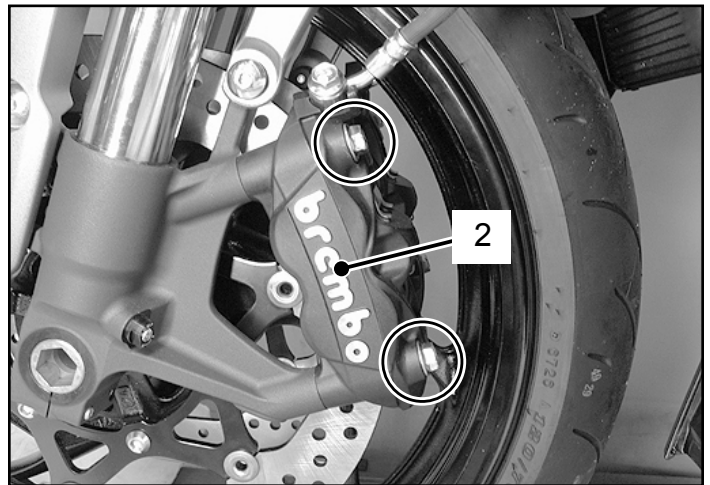


Front Brake Disc Replacement

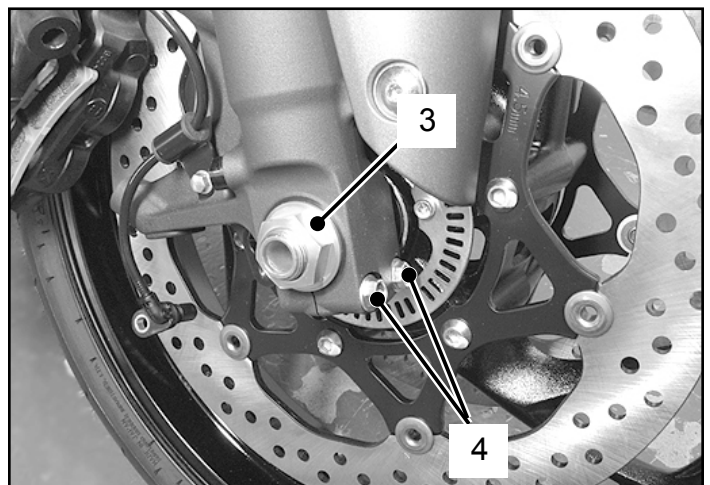
- 1) Remove the front wheel speed sensor (1).



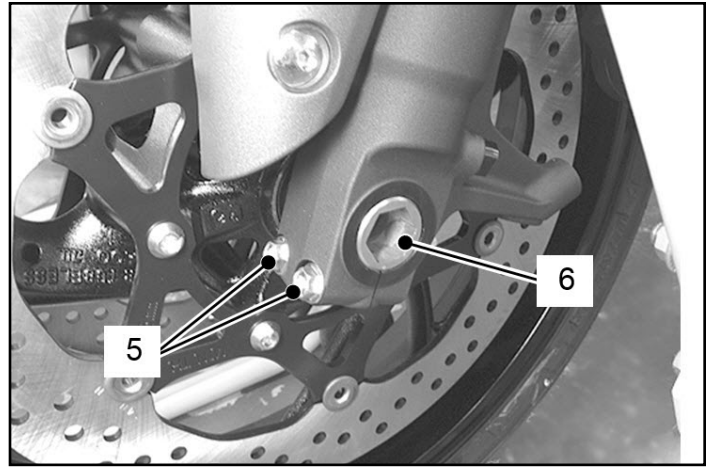
- 2) Remove the front brake calipers (2).



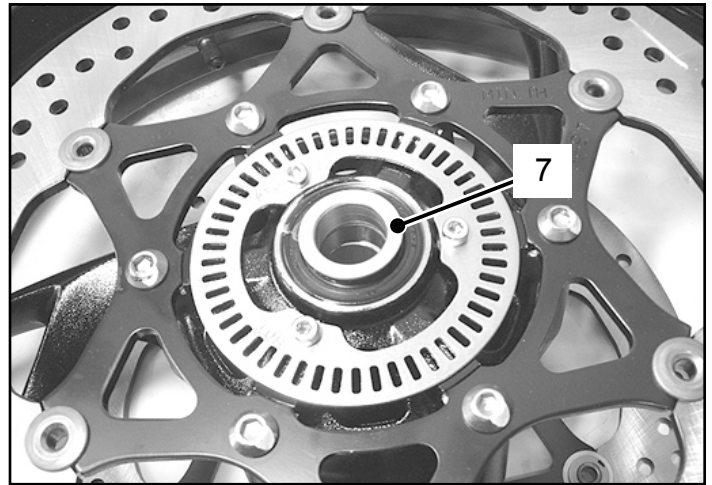
- 3) Remove the front axle nut (3).
- 4) Loosen the two axle pinch bolts (4) on the right front fork leg.
- 5) Raise and support the front wheel off the ground.



- 6) Loosen two axle pinch bolts (5) on the left front fork leg.
- 7) Draw out the front axle (6) and remove the front wheel.



- 8) Remove the right-side spacer (7).



NOTE

Only replace the front brake disc and disc bolts on the side of the wheel where the paint is peeling or brake fluid is visible.

- 9) Remove the front brake disc(s) (1).
- 10) Make sure the new front brake discs are clean and free of any grease.

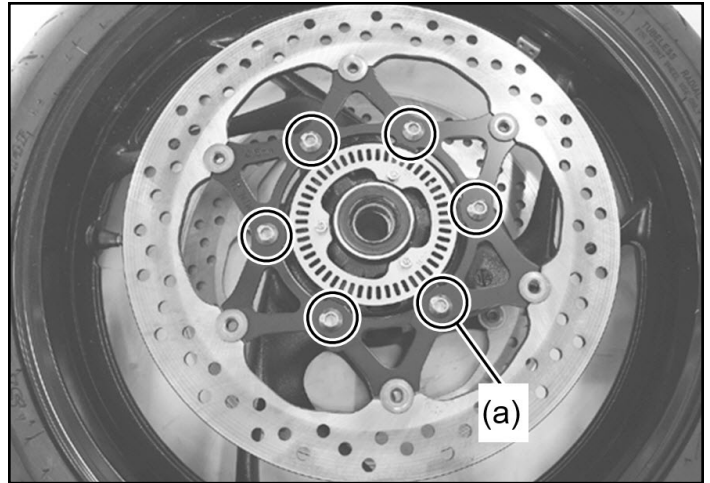


- 11) Install the new front brake disc(s) and new front brake disc bolts.
- 12) Tighten the front brake disc bolts to the specified torque.

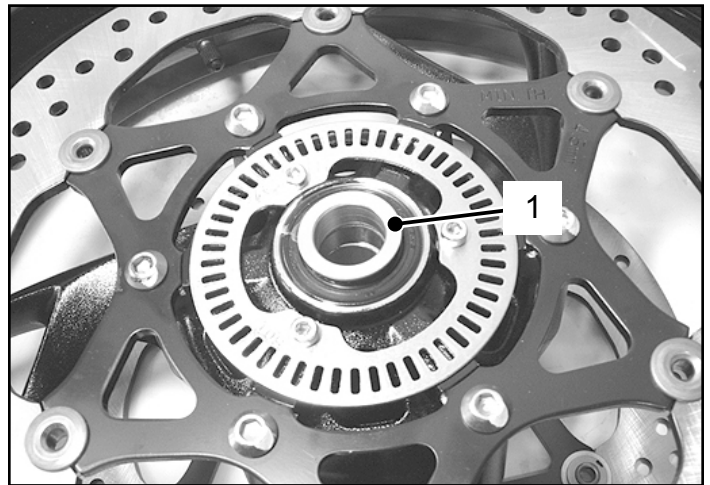
Tightening torque

Front brake disc bolt (a):

18 N•m (1.8 kgf-m, 13.5 lbf-ft)



- 13) Install the spacer (1) into the right side of the wheel.



- 14) Install the front wheel with the front axle and temporarily tighten the front axle nut.

⚠ WARNING

If the directional arrow on the tire is not pointing forward with the direction of wheel rotation, the tire may not function properly, resulting in a crash.

Be sure to install the tire on the wheel with the directional arrow pointing forward toward the direction of wheel rotation.



- 15) Install the front brake calipers.

- 16) Hold the front axle with the special tool and tighten the front axle nut (2) to the specified torque.

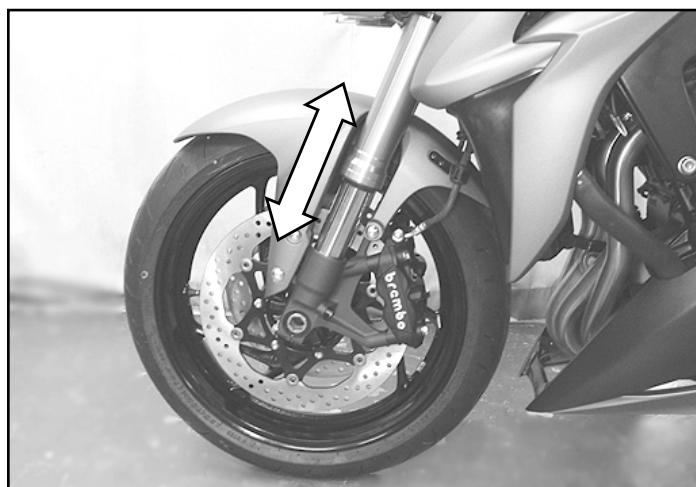
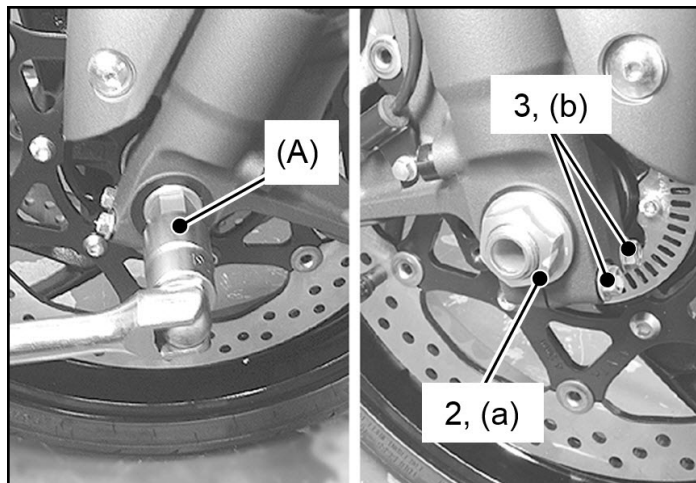
Special tool
(A): 09944-28321

Tightening torque
Front axle nut (a):
100 N•m (10.2 kgf-m, 74.0 lbf-ft)

- 17) Tighten the two axle pinch bolts (3) on the right fork leg to the specified torque.

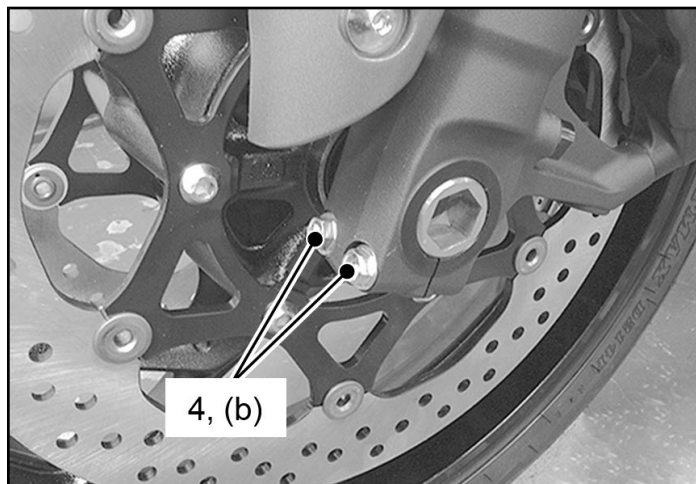
Tightening torque
Front axle pinch bolt (b):
23 N•m (2.3 kgf-m, 17.0 lbf-ft)

- 18) Move the front fork up and down 4 or 5 times to stabilize the front axle.



- 19) Tighten the two axle pinch bolts (4) on the left fork leg to the specified torque.

Tightening torque
Front axle pinch bolt (b):
23 N•m (2.3 kgf-m, 17.0 lbf-ft)



- 20) Install the front wheel speed sensor (5).
- 21) Check the clearance between the front wheel speed sensor (5) and sensor rotor (6) using the thickness gauge.

NOTE

If the clearance is out of specification, check that the related parts have been installed correctly.

Special tool

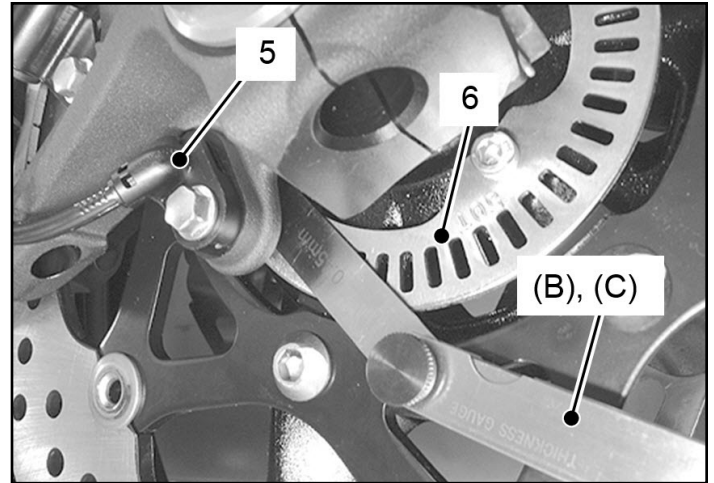
(B): 09900-20803

(C): 09900-20806

Front wheel speed sensor – Sensor rotor clearance

[Standard]: 0.38 – 1.05 mm

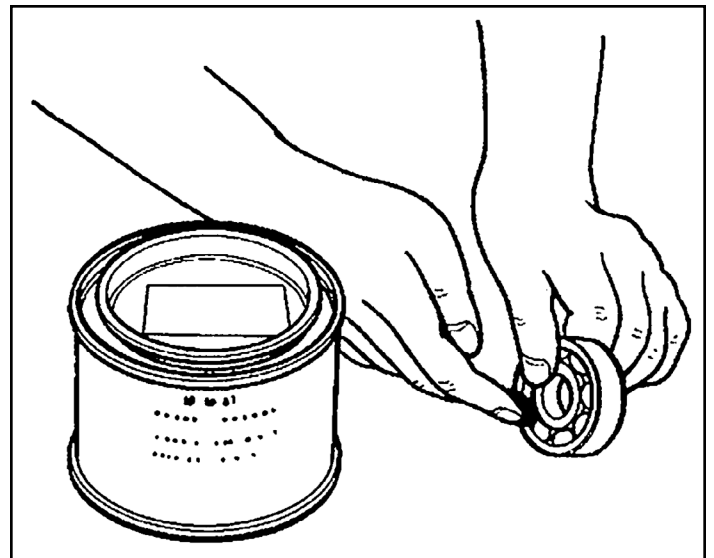
(0.0150 – 0.0413 in)



Front Wheel Replacement

- 1) Remove the front wheel.
- 2) Remove the undamaged front brake discs. (You will re-install these later.)
- 3) Remove the front tire from the wheel.
- 4) Install the new air valve on the new front wheel.
- 5) Re-install the tire on the new front wheel.
- 6) Apply the new wheel tape to the new front wheel.
- 7) Apply grease to the new wheel bearings.

Grease 99000-25011 (SUZUKI SUPER GREASE A)



- 8) Install the new right wheel bearing, then install the new spacer (1) and new left wheel bearing with the special tools.

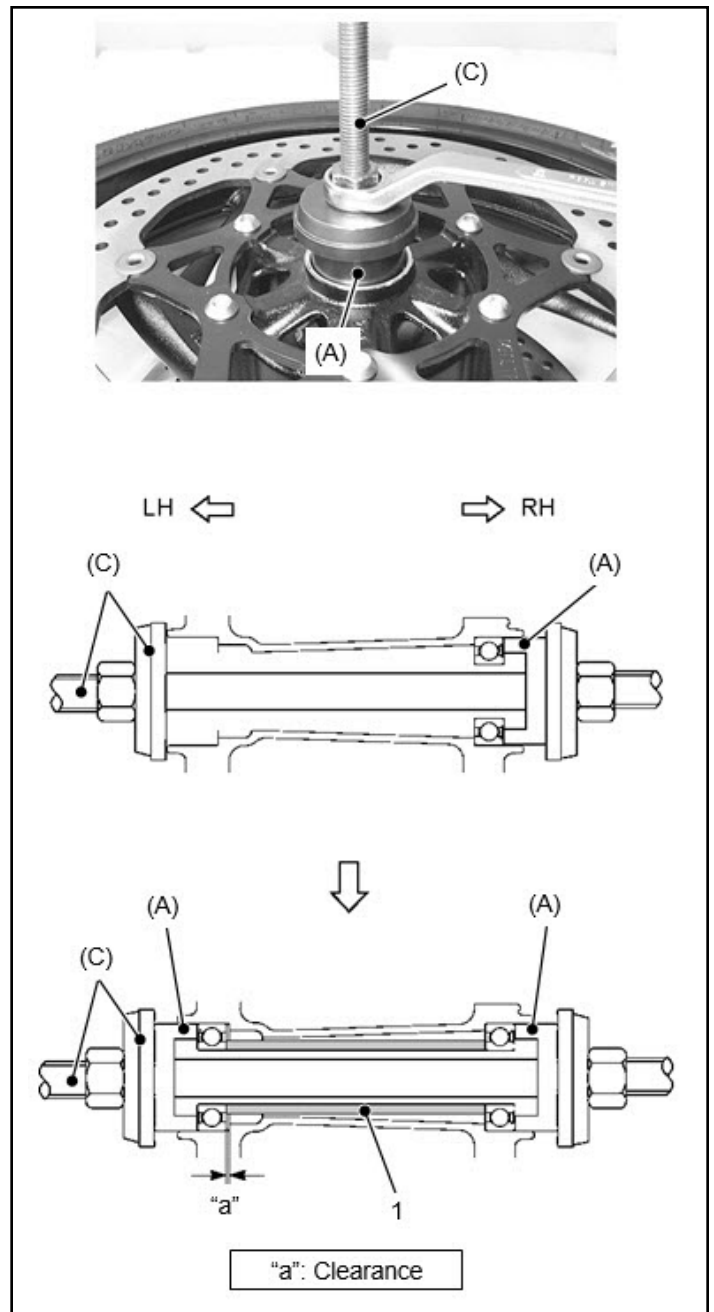
NOTE:

The sealed cover of the bearing must face outside.

Special tool

(A): 09913-70210

(C): 09941-34513



- 9) Install the new front brake disc(s) or re-install the old discs if they are undamaged.

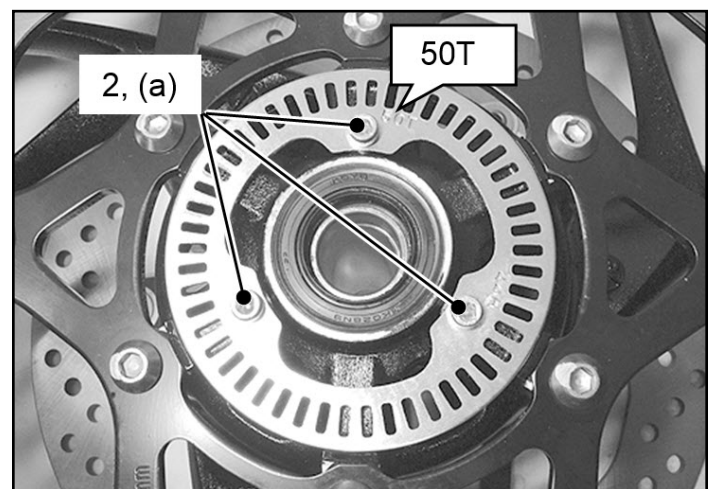
Install the new front wheel speed sensor rotor with the letters "50T" facing outside.

Tighten the new front wheel speed sensor rotor bolts (2) to the specified torque.

Tightening torque

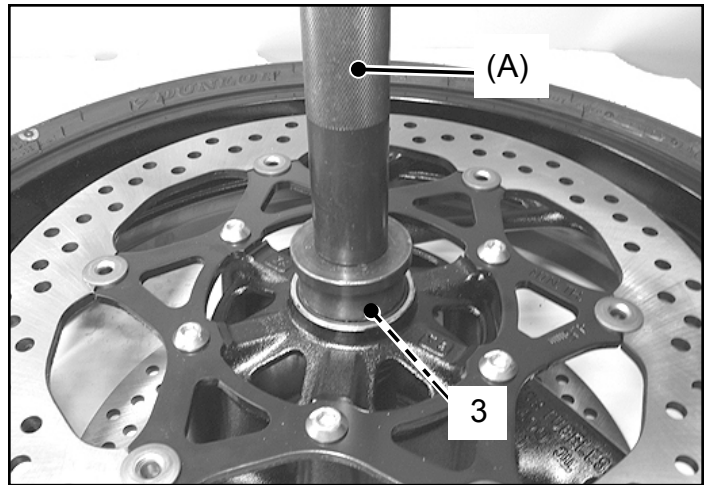
Front wheel speed sensor rotor bolt (a):

6.5 N•m (0.66 kgf-m, 4.80 lbf-ft)



- 10) Install the new dust seals (3) on both sides with the special tool.

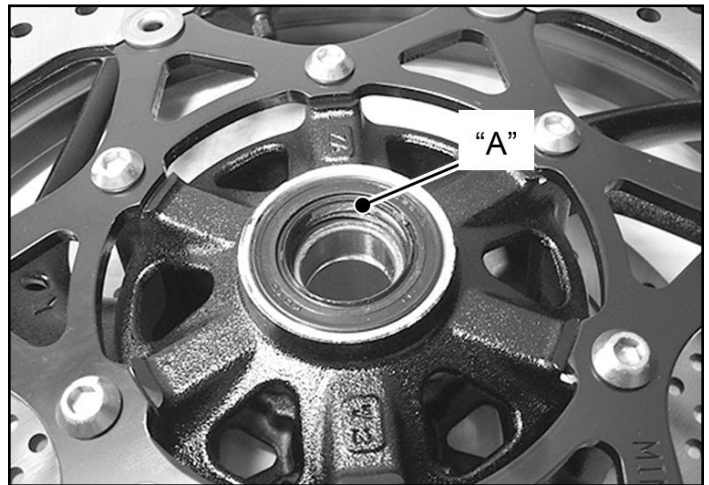
Special tool
(A): 09913-70210



- 11) Apply grease to the lip of the dust seals.

“A”: Grease 99000-25011 (SUZUKI SUPER GREASE A)

- 12) Adjust the tire balance.
13) Install the front wheel.



Inspection after the Repair

- Confirm all the parts are installed correctly and that all the bolts are tightened to the correct torque specification.
- Confirm that the front brakes work correctly.
- Confirm that brake fluid is not leaking from any component in the system.
- Confirm that the front wheel rotates smoothly and freely.



SUZUKI MOTOR OF AMERICA, INC.

IMPORTANT SAFETY RECALL

This Notice Applies to Your Suzuki Vehicle Identification Number (VIN)
XXXXXXXXXXXXXXXXXXXX

November 30, 2015

Dear Suzuki Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Suzuki Motor Corporation has decided that a defect which relates to motor vehicle safety exists in certain 2016 model-year GSX-S1000/A/FA motorcycles.

What is the problem?

The supplier of the front brake caliper applied a surface treatment to change the color of the brake caliper body. Due to insufficient sealing, some treating liquid may have entered the brake piston cylinder, damaging the surface condition of the brake piston seal groove, which can result in brake fluid leaking from the calipers. Brake fluid leakage can result in reduced braking performance, increasing the risk of a crash.

What is Suzuki Motor of America, Inc., doing to solve the problem?

Your dealer will replace the front brake calipers. This procedure will take approximately 2 hours to complete. Parts are available now, and there will be no charge to you for any recall service-related parts or labor.

What you should do:

Make sure you are prepared for the recall service by taking the following steps:

- Before taking your vehicle to your dealer, contact them as soon as possible to make an appointment for the recall service.
- Please take this letter to your dealer to help your dealer process your claim.

What to do if you receive this letter in error:

This notice was mailed to you according to the latest information that is available to us. If you no longer own the Suzuki vehicle described in this letter, please complete and return the enclosed Change of Address/Ownership card to Suzuki Motor of America, Inc., and forward this recall information to the current owner (if known).

Federal regulations require that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Who to contact if you experience problems:

Your Suzuki dealer can provide you the fastest response to your questions or concerns about the Front Brake Caliper Safety Recall. If you have any difficulty with this recall campaign, you may contact the Suzuki Motor of America, Inc., Customer Service Department for assistance at (714) 572-1490 during the hours of 7:00 AM to 4:30 PM Pacific Time. Please have your vehicle identification number (VIN) ready when calling.

If you believe that Suzuki Motor of America, Inc., has failed to provide the Recall service without charge or is unable to do so within a reasonable time, you may submit a complaint to the Administrator of the National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington D.C., 20590 or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-888-424-9153) or go to: www.safercar.gov

We apologize for any inconvenience this recall campaign causes you. We hope you understand that your safety and satisfaction are important priorities for us.

Sincerely,

Suzuki Motor of America, Inc.