



AMERICAN SUZUKI MOTOR CORPORATION

RECEIVED

2007 AUG 15 A 10:35

DEFECTS INVESTIGATION  
RECALL MGMT DIV.

August 13, 2007

07V-362  
(11 pages)

Mr. Daniel Smith  
Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
1200 New Jersey Avenue, SE  
Washington, D.C. 20590

Dear Mr. Smith:

The following information is submitted in accordance with the defect reporting regulations in Title 49 of the Code of Federal Regulations, Part 573.

1. Name of Manufacturer and Importers

Manufacturer: Suzuki Motor Corporation

Importers:

Continental U.S.	- American Suzuki Motor Corporation
Hawaii	- Montgomery Motors, Inc.
Puerto Rico	- Suzuki Del Caribe, Inc.

2. Identification of Motor Vehicles Involved

Affected vehicles are all 2007 model year Suzuki GSX-R1000 motorcycles produced prior to June 16, 2007.

3. Total Number of Motor Vehicles Involved

13,398

4. Percentage of Motor Vehicles Estimated to Contain the Defect

100%

5. Description of Defect

The defect involves the idle speed control (ISC) valve. Each time that the ignition switch is turned off, the

engine control module (ECM) pre-sets the position of the ISC valve for subsequent engine starting by opening the ISC valve completely and then closing it to a start-up position. Due to improper shape of the internal mechanism that moves the ISC valve, the valve may remain in the open position instead of moving to the correct start-up position. This can result in no-load engine idle speeds as high as 5000 rpm the next time the engine is started. If the rider chooses to operate the motorcycle in this condition, the rider may have difficulty operating the motorcycle, which could result in a crash.

#### 6. Chronology of Principal Events

April, 2007 - Suzuki Motor Corporation received a report concerning high engine idle speed from American Suzuki Motor Corporation (ASMC) and initiated an investigation.

#### 7. Description of Corrective Action

ASMC, Montgomery Motors, Inc., and Suzuki del Caribe, Inc. will conduct a safety-related recall campaign to replace the ISC valve with an improved part, and to replace the ECM.

ASMC is planning to notify dealers about the recall on August 15, 2007, and currently expects to notify owners about the recall on August 21, 2007. We expect that Suzuki distributors in Hawaii and Puerto Rico will follow a similar schedule.

Since the cost of any pre-notification repairs would have been covered under warranty, we understand that it is not necessary to specify a reimbursement plan or notify owners about the eligibility for reimbursement of the cost of pre-notification repairs.

#### 8. Copy of Notices


Enclosed is a copy of the initial notification letter that Suzuki Motor Corporation sent to ASMC, and a copy of ASMC's draft Service Bulletin and draft owner notification letter for the recall campaign that will be conducted.

9. Suzuki Campaign Number

2098

Sincerely,

AMERICAN SUZUKI MOTOR CORPORATION

A handwritten signature in black ink, appearing to read "Kenneth M. Bush". The signature is written in a cursive style with a large initial "K" and a long, sweeping underline.

Kenneth M. Bush  
Associate Director, Government Relations

# Service Bulletin

MOTORCYCLE / ATV DIVISION

4 - STROKE  
GS/GSX/GSX-R BULLETIN NO. 172  
DATE: 8/16/2007

**SAFETY RECALL CAMPAIGN #2098  
ALL 2007 GSX-R1000K7 MODELS  
IDLE SPEED CONTROL VALVE REPLACEMENT**

**SUBJECT:** RECALL CAMPAIGN - IDLE SPEED CONTROL (ISC) VALVE REPLACEMENT

**AFFECTED UNITS:** All 2007 GSX-R1000K7 models

**REFERENCE:** GSX-R1000 SERVICE MANUAL (PN 99500-39310-03E)

**ATTACHMENT:** CUSTOMER LETTER

**NOTICE:**

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 relating to motor vehicle safety exists in all 2007 GSX-R1000K7 model motorcycles. Suzuki Motor Corporation is conducting a voluntary Safety Recall Campaign.

**▲ WARNING**

**STOP DELIVERY OF 2007 GSX-R1000K7 MODEL MOTORCYCLES IMMEDIATELY**

**DO NOT DELIVER** an affected **NEW** or **USED** 2007 GSX-R1000K7 model motorcycle to a customer until you have completed, or verified completion of, the procedures in this bulletin.

It is a violation of Federal law to deliver any new vehicle subject to a safety recall campaign under a sale or lease until the defect or noncompliance has been corrected. You must verify this on the Suzuki "Certificate of Vehicle Pre-Delivery" form, which is to be completed for all new and used vehicle sales.

**WHAT IS THE PROBLEM?**

Suzuki Motor Corporation has determined that all GSX-R1000K7 motorcycles are equipped with an Idle Speed Control (ISC) Valve that may not return to the correct start-up position each time the ignition switch is turned to the off position. Due to improper shape of the internal mechanism that moves the ISC valve, the valve may remain in the open position instead of moving to the correct start-up position. This can result in no-load engine idle speeds as high as 5000 RPM's the next time the engine is started. If the rider chooses to operate the motorcycle in this condition, the rider may have difficulty operating the motorcycle, which could result in a crash.

## **WHAT WILL SUZUKI DO?**

Suzuki will replace the ISC valve and the ECM with improved parts on all affected models. The ISC valve related ECM changes have no effect on overall performance of the motorcycle.

### **AFFECTED UNIT VIN RANGE:**

The VIN range of the affected 2007 GSX-R1000 motorcycles is listed below. (The "\*" indicates the check digit)

JS1GT77A\*72100028 ~ JS1GT77A\*72115220

### **VERIFY THE UNIT REQUIRES THE RECALL REPAIR:**

Before performing the recall inspection to a unit, verify that the repair needs to be done. There are two ways to identify a unit that has already been repaired.

1. Check the repair status by checking the Vehicle History in the Suzuki Connect Service Menu. If the repair needs to be performed to the motorcycle, you will see the message "CAMPAIGN NOT YET PERFORMED" displayed and the ISC valve will need to be replaced. Refer to the replacement procedure in this bulletin.
2. Inspect the right side of the frame head tube for an identification punch mark located **at the end** of the Vehicle Identification Number. If a punch mark is present the recall repair has already been performed.

NOTE: A punch mark may already be present at the **beginning** of the Vehicle Identification Number if the Generator Rotor Replacement campaign (#2M97) has been completed.

JS1GT77A872100028 • ↙ Punch mark

### **WHAT YOUR DEALERSHIP WILL DO:**

Notify your staff.

Contact your customers; Please telephone all of your customers and inform them of the need to stop riding their motorcycles until the ISC valve replacement campaign has been completed.

### **NOTICE:**

**If your dealership has sold an affected GSX-R1000K7 to a customer, but you have not yet submitted sales registration entry, send the sales information to American Suzuki AT ONCE. We will send the customer an owner notification letter when we receive the sales information from your dealership.**

**Since only you know the identity of these customers, you must immediately notify these customers of the recall campaign.**

### **CUSTOMER NOTIFICATION:**

In the Safety Recall Campaign letter that will be mailed on **August 22, 2007** (see attachment), customers are being advised to contact the Suzuki dealer where they purchased their affected unit to schedule an appointment to have the ISC valve and ECM replaced. As some customers may have moved to other communities since their motorcycle purchase, you may also receive calls from customers who purchased their motorcycle elsewhere. Once you are contacted by the owner of an affected unit, please arrange to order the ISC Valve Replacement Kit for the customer's motorcycle. Also, let your customers know that the Safety Recall Campaign service will be performed at no cost to them for parts and labor.

**ORDERING PARTS FOR THE SAFETY RECALL CAMPAIGN:**

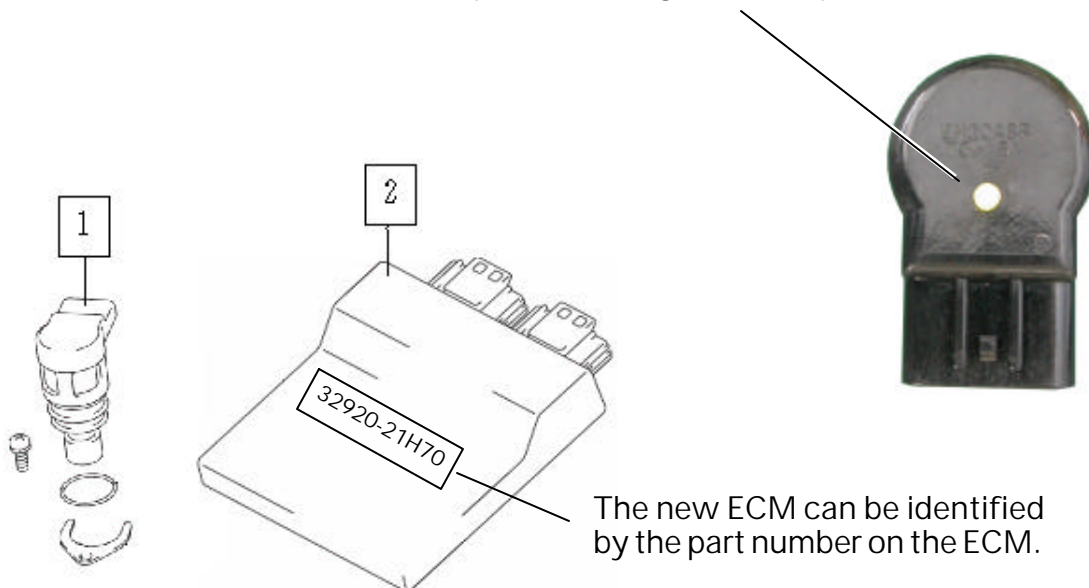
You will be responsible for ordering the ISC Valve Replacement Kit for your customer's motorcycle using the corresponding part number below and your normal parts ordering methods.

**IMPORTANT: Do not place an order using the part numbers from the EPC to perform this campaign! Use only these special campaign part numbers. Verify the model is FED (E03) specification or CAL (E33) specification.**

<b>ISC Valve Replacement Kit</b>		<b>FED SPEC (E03) models</b>
<b>Part Number 99103-11228</b>		Dealer Price \$664.10
The ISC Valve Replacement Kit contains:		
	Part name	Qty
1	ISC Valve Set (part number 18117-21H10)	1
2	ECM (part number 32920-21H60)	1

<b>ISC Valve Replacement Kit</b>		<b>CAL SPEC (E33) models</b>
<b>Part Number 99103-11228-CAL</b>		Dealer Price \$664.10
The ISC Valve Replacement Kit contains:		
	Part name	Qty
1	ISC Valve Set (part number 18117-21H10)	1
2	ECM (part number 32920-21H70)	1

The new ISC Valve can be identified by a yellow paint marking on the top of the valve body.



The new ECM can be identified by the part number on the ECM.

**SHIPPING:**

All parts will be shipped to you via UPS Ground unless otherwise specified at the time of order.

## **REPLACEMENT PROCEDURE:**

### **CAUTION**

The new ISC valve and ECM must be installed as a set to prevent a malfunction of the ISC valve. The new ECM contains revised programming which controls the ISC valve functions related to idle speed. The ISC valve related ECM changes have no effect on overall performance of the motorcycle.

1. Remove the front seat and disconnect the battery. (Refer to Service Manual, Page 8-8)
2. Lift up the fuel tank. (Refer to Service Manual, Page 5-3)
3. Remove the air cleaner box. (Refer to Service Manual, Page 5-14)

### **CAUTION**

Cover the throttle bodies to prevent anything from dropping into the engine.

4. Remove and replace the ISC valve. (Refer to Service Manual, Page 5-25)

NOTE: Since the ECM is also being replaced there is no need to perform the ISC valve pre-set operation.

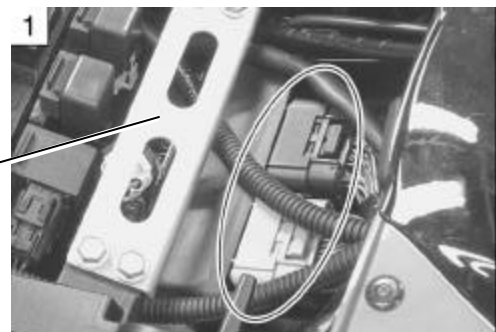
### **CAUTION**

Carefully insert the ISC valve straight into the throttle body hole to prevent damaging the o-ring. Turn the ISC valve slightly to confirm that the o-ring has not twisted. Using the new screw provided in the replacement parts kit, make sure the screw is completely seated on the plate after the screw has been tightened to the specified torque.

### **🔧 ISC Valve Mounting Screw Torque: 2.1±0.6 N.m (1.5±0.4 lb-ft)**

5. Install the air cleaner box in reverse order of removal. (Refer to Service Manual, Page 5-14)
6. Lower the fuel tank. (Refer to Service Manual, Page 5-3)
7. Remove the upper seat rail plate.  
Disconnect and remove the ECM. (Figure 1)

Upper seat rail plate



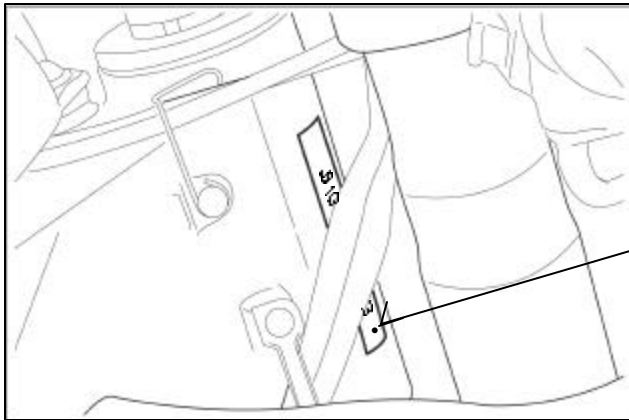
8. Install the new ECM in reverse order of removal.

Apply thread lock to the upper plate mounting bolts when reinstalling the upper seat rail plate.

THREAD LOCK "1342" (P/No. 99000-32050) or equivalent.

**REPLACEMENT PROCEDURE, CONTINUED:**

9. Reconnect the battery and install the front seat. (Refer to Service Manual, Page 8-8)
10. Start the engine and confirm that the engine idle speed is at the standard specification.  
**Engine Idle Speed: 1150 ± 100 rpm**
11. Place an identification punch mark on the frame **after** the Vehicle Identification Number.



Identification punch mark

**WARRANTY REIMBURSEMENT & CLAIM INFORMATION:**

ISC Valve Replacement: 0.7 hrs

The Short Campaign Claim form is not available for this campaign.

<b>RECALL CAMPAIGN #2098 ISC Valve Replacement - Long Form Instructions</b>	
CLAIM NUMBER:	Dealer enters number
ENTRY TYPE: (Dealer Chooses)	Model, Frame Control Sequence VIN
REPAIR DATE:	Enter date of repair
MILEAGE:	Enter mileage on unit
CAMPAIGN:	2098
CAMPAIGN PART:	99103-11227
ADDTL. PART NUMBERS:	Select the appropriate part number per model E03 - 99103-11228 E33 - 99103-11228-CAL
QUANTITY:	1
COMPLAINT CODE:	99
DEFECT CODE:	JZ
LABOR OPERATION:	DJ9999
LABOR TIME:	0.7, or as approved by TECH-LINE
FAILURE DESCRIPTION:	REPLACE ISC VALVE

*Warranty claim entries with additional parts or labor require a prior authorization (PAS) code from TECH-LINE or your Technical Service Manager, or the warranty system will not accept the claim.*



**ECM CORE RETURN PROGRAM:**

The replaced ECM must be returned to ASMC within 10 days of date of repair. A \$250.00 core fee will be charged to you after the 10 day period if the replaced ECM is not returned. A freight credit will be issued to you when the ECM is returned. Upon completion of the repair, package the ECM(s) to prevent shipping damage. Select ground service for the shipping type. It is recommended to use a freight service which can track the shipment.

Each ECM must be tagged with the appropriate information. Please make sure each returned ECM is labeled with your dealer number, dealer name and address, vehicle identification number, date of repair, dealer repair order number and customer name. ECMs received without this information can not be identified, and you will be charged the \$250.00 core fee.

Ship the replaced ECMs to:

**American Suzuki Motor Corporation  
Motorcycle Warranty Parts Return  
3251 E. Imperial Hwy.  
Brea, CA. 92821-6795**

**IMPORTANT:**

Successful completion of this safety recall campaign depends on your efforts. It is your responsibility to repair any motorcycle within the affected VIN range at no cost to the customer for recall service parts and labor. Incidental costs your customers may incur are not normally covered. However, if you have a customer with special needs, contact TechLine (800/756-3251) to discuss possible solutions.

**AFFECTED DEPARTMENTS :**

The following departments in your dealership should be notified of this information:

Management     Service     Warranty     Sales     Parts     Accessories

American Suzuki Motor Corporation  
Technical Service Department  
Motorcycle / ATV



AMERICAN SUZUKI MOTOR CORPORATION  
MOTORCYCLE

August 22, 2007

**SAFETY RECALL CAMPAIGN #2098  
ALL 2007 GSX-R1000K7 MODELS  
IDLE SPEED CONTROL VALVE REPLACEMENT**

Dear Suzuki Owner:

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

**What is the reason for this notice?**

Suzuki Motor Corporation has decided that a defect relating to motor vehicle safety exists in all 2007 GSX-R1000K7 model motorcycles. Suzuki Motor Corporation is conducting a voluntary Safety Recall Campaign. According to our records, you are the owner of one of these motorcycles.

**What is the problem?**

Suzuki Motor Corporation has determined that all GSX-R1000K7 motorcycles are equipped with an Idle Speed Control (ISC) Valve that may not return to the correct start-up position each time the ignition switch is turned to the off position. Due to improper shape of the internal mechanism that moves the ISC valve, the valve may remain in the open position instead of moving to the correct start-up position. This can result in no-load engine idle speeds as high as 5000 RPM's the next time the engine is started. If you choose to operate the motorcycle in this condition, you may have difficulty operating the motorcycle, which could result in a crash.

**▲ WARNING**

**SUZUKI STRONGLY RECOMMENDS THAT YOU DO NOT RIDE YOUR  
AFFECTED 2007 GSX-R1000K7 MOTORCYCLE UNTIL THE REPAIR HAS  
BEEN COMPLETED**

To minimize the risk of injury or death, do not ride, or allow anyone else to ride, your motorcycle until your motorcycle has been repaired by your Suzuki dealer.

**What is Suzuki doing to solve the problem?**

Suzuki is recalling affected units for the installation of an improved ISC valve and Engine Control Module (ECM). The new ECM contains revised programming which controls the ISC valve functions related to idle speed. The ISC valve related ECM changes have no effect on overall performance of the motorcycle. Repair time is approximately 1 hour and will be done at no cost to you for parts or labor.

**How do I receive the fastest possible service?**

Suzuki understands that your riding time is precious. Our suggestion is to work closely with your authorized Suzuki dealer to get your motorcycle's recall service scheduled and performed as quickly as possible. Schedule an appointment for the recall service to be performed. Parts are currently available. It will be necessary for your dealer to order the parts. It may be necessary to leave your motorcycle with the dealer overnight, so check with your dealer.

## CUSTOMER NOTIFICATION LETTER - Page Two of Two

When you pick up your repaired motorcycle, please allow a few extra minutes for your dealer to prepare and complete the necessary warranty paperwork with you. If you have special circumstances, discuss them with your Suzuki dealer. Suzuki understands that some customers may have difficult circumstances to overcome in bringing their motorcycle to the dealership for repair. We have asked your Suzuki dealer to work closely and flexibly with you to arrange alternative, but reasonable solutions for your special requests. Please remember, however, that each dealership has its own limitations in providing special assistance due to staff size, available time, and dealership location. Your dealer can also consult with Suzuki on other alternatives.

### **Questions & Answers**

Your Suzuki dealer has been provided specific and complete instructions regarding this recall service. Please call your dealer if you have any questions. Your local Suzuki dealer can provide the fastest responses to your questions or concerns about the recall service. Your dealer can also contact Suzuki on your behalf if you have a unique question or concern.

If you have difficulty having the recall service performed on your motorcycle you may contact the American Suzuki Customer Service Department for assistance at 714-572-1490. You will need to have your Vehicle Identification Number ready when calling.

If you believe that (1) Suzuki or your Suzuki dealer has failed to or is unable to perform the recall service without charge, or (2) Suzuki has failed to or is unable to perform the recall procedure to your vehicle within 60 days after you first brought your vehicle to your Suzuki dealer after **August 22, 2007** you may submit a complaint to the Administrator, 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: 1-800-424-9153); or go to <http://www.safercar.gov>.

### **Locating an alternate dealer**

Suzuki dealers can be located on the internet at [www.suzukicycles.com](http://www.suzukicycles.com) or by calling 1-800-828-7433.

We thank you for your prompt attention to completing this recall service on your Suzuki motorcycle. We apologize for any inconvenience this campaign causes you. Your safety, satisfaction, and riding enjoyment are priorities for Suzuki.

Sincerely,

American Suzuki Motor Corporation