

# Service Bulletin

MOTORCYCLE / ATV DIVISION

4 - STROKE  
GS/GSX/GSX-R BULLETIN NO. 147  
DATE: 1/25/2006

**SUBJECT:** SECONDARY THROTTLE VALVE ACTUATOR (STVA) REASSEMBLY

**AFFECTED UNITS:** GSX-R1000K1, EARLY GSX-R750K2, EARLY GSX-R1000K2

**REFERENCE:** GSX-R750 SERVICE MANUAL (PN 99500-37113-03E)  
GSX-R1000 SERVICE MANUAL (PN 99500-39211-01E)

**NOTICE:**

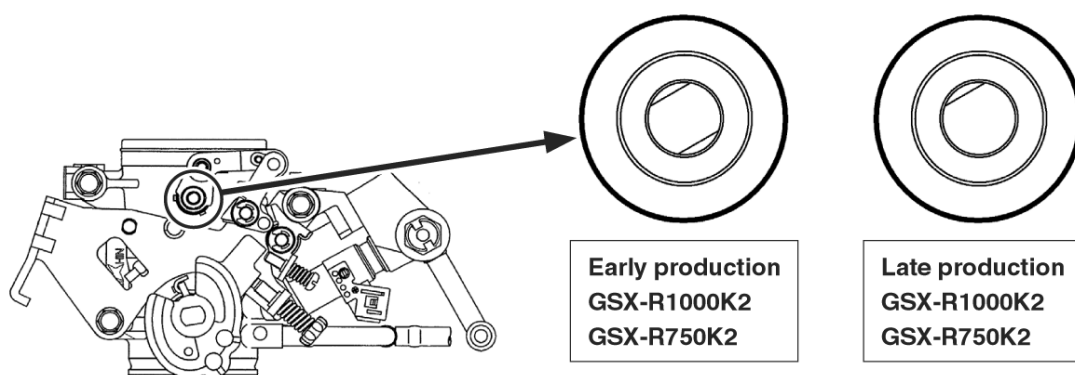
The Secondary Throttle Valve Actuator (STVA) is assembled to the throttle body at the factory and it is not to be disassembled. This bulletin contains service information for reassembling the STVA on the throttle body if the STVA is disassembled by mistake.

**APPLICABLE Throttle body**

1. All GSX-R1000K1
2. Early production GSX-R1000K2 and early production GSX-R750K2

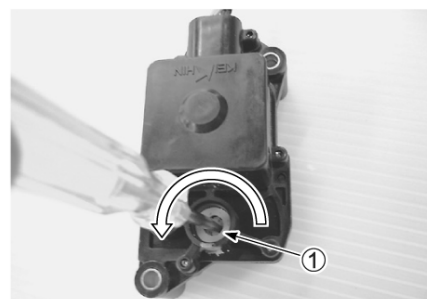
**IDENTIFICATION of GSX-R1000K2 & GSX-R750K2 EARLY and LATE THROTTLE BODY DESIGN**

Applicable throttle bodies can be identified by checking the secondary throttle valve shaft end face. The STV shaft end was changed from the middle of K2 model assembling. The modified shaft end shape prevents installing the STV upside down.

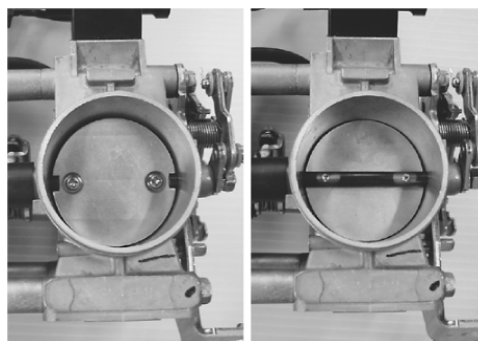


**STVA ASSEMBLING**

- Turn the part ① of the STVA counterclockwise until it stops.



- Before mounting the STVA on the Suzuki Dual Throttle Valve (SDTV) shaft, make sure that the butterfly valve fixing screw is toward the outside.



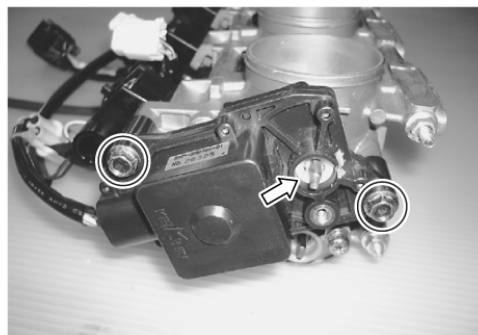
**CORRECT**

**INCORRECT**

- Fit the STVA on the throttle body by aligning the secondary throttle valve shaft end with the hole of the STVA and install it with two bolts.

**NOTE:**

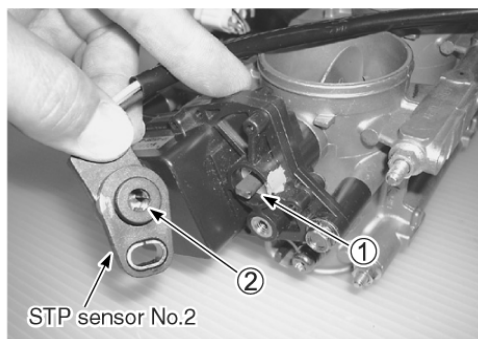
*STP sensor No.2 must be removed from the STVA before mounting the STVA on the throttle body.*



- Open the SDTV fully before installing the Secondary Throttle Position (STP) sensor.



- Install the STP sensor No.2 by aligning the SDTV shaft end ① with the groove ② of the STP sensor.



- Adjust the STP sensor referring to the service manual.
- Tighten the screw with the special tool (PN 09930-11950).
- After reassembling the STP sensor, check that the SDTV moves from full close to full open smoothly



**⚠ WARNING**

Improper reassembly of the Secondary Throttle Valve Actuator (STVA) could result in improper operation of the secondary throttle valve and the throttle valve. Under certain conditions, the throttle valve could remain in an open position. When this occurs, the engine can not reduce engine speed unless the operator activates the engine stop switch or ignition switch. Never disassemble the STVA from the throttle body. If you disassemble it by mistake, follow the instructions in this service bulletin to properly reassemble the STVA.

**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