

6B

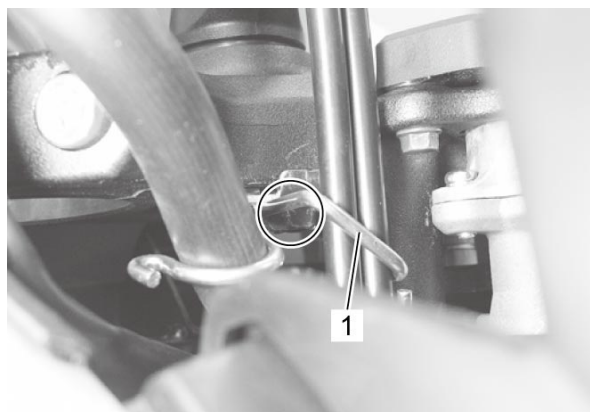


Steering Stem Removal and Installation

[Reference: Steering Stem Components](#)

Removal

- 1) Remove the front forks.
- 2) Remove the guide (1).



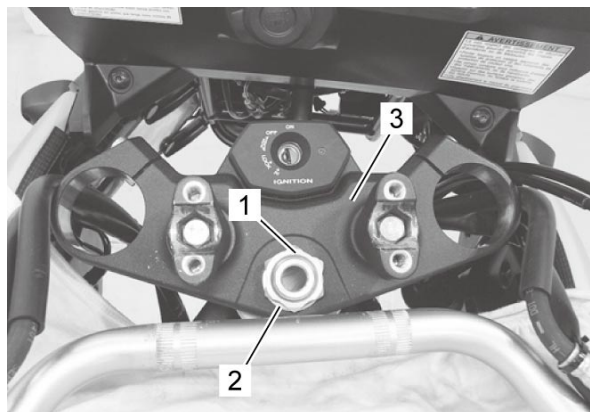
- 3) Remove the handlebars (1) backward.

NOTE:

Place a rag on the fuel tank to prevent the fuel tank scratched.



- 4) Remove the steering stem head nut (1) and washer (2), and then remove the steering stem upper bracket assembly (3).



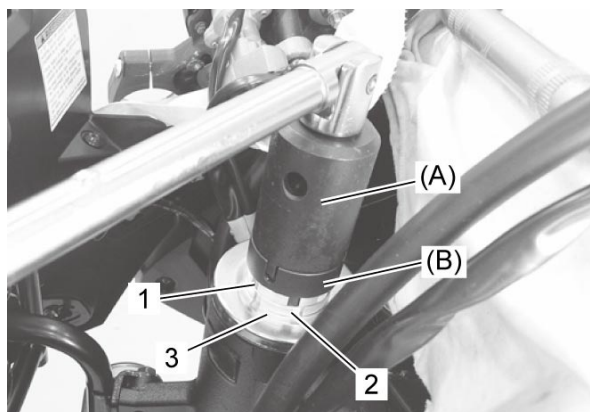
- 5)** While holding the steering stem lower bracket, remove the steering stem lock-nut (1), washer (2) and steering stem nut (3) with the special tools.

Special Tool

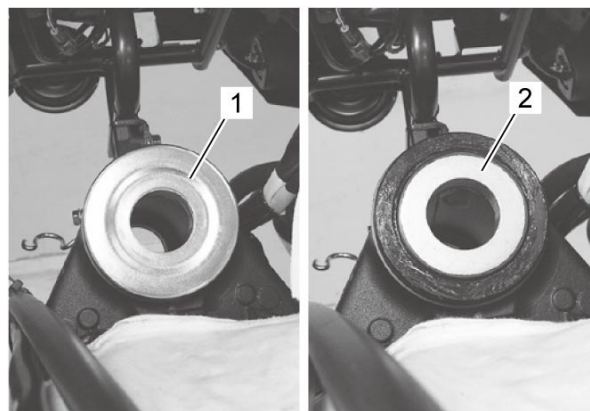
(A): 09940-14911

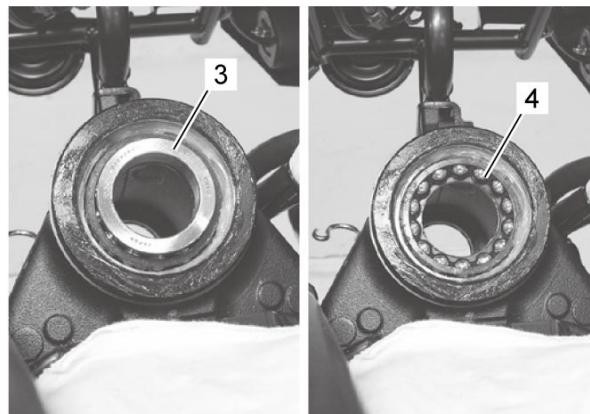
(B): 09940-14960

- 6)** Remove the steering stem lower bracket.

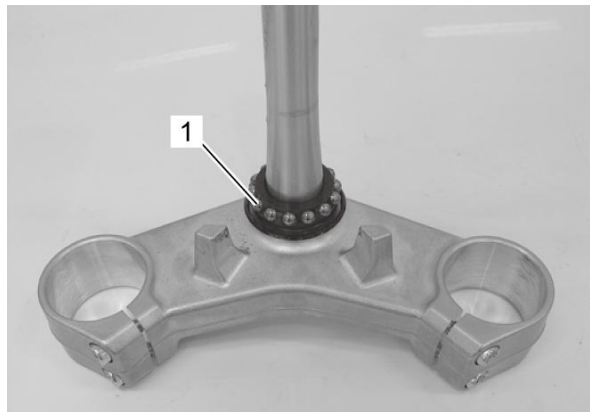


- 7)** Remove the dust cover (1), dust seal (2), steering stem upper bearing inner race (3) and steering stem upper bearing (4).





- 8)** Remove the steering stem lower bearing (1).

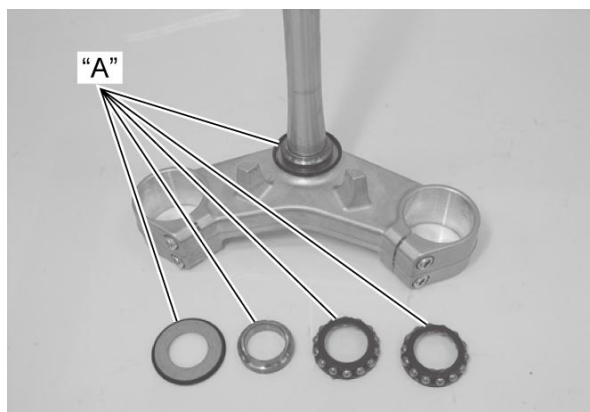


Installation

Reference: Steering Stem Inspection

- 1)** Apply grease to the bearings, races, lower seal and new dust seal lip, and install the steering stem lower bracket to the frame.

"A": Grease 99000-25350 (SUZUKI WATER RESISTANT GREASE EP2)





- 2) Install the steering stem nut (1) and temporarily tighten it to the specified torque (20 N·m (2.0 kgf-m, 14.5 lbf-ft)) with the special tools.

Special Tool

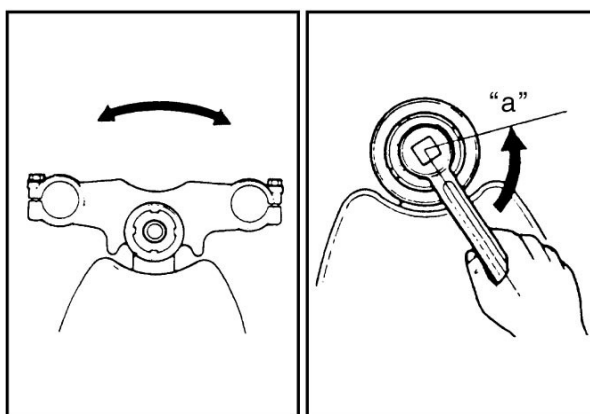
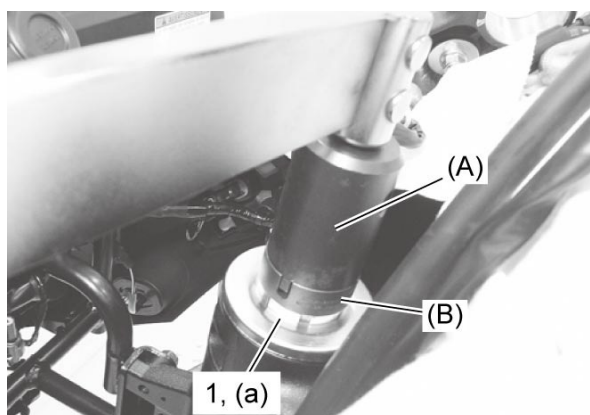
(A): **09940-14911**

(B): **09940-14960**

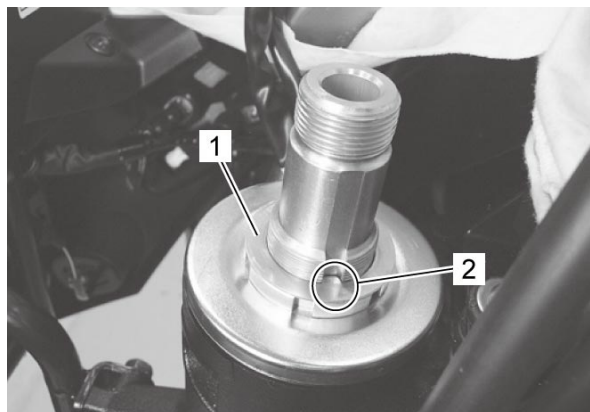
- 3) Turn the steering stem lower bracket to the left and right about five or six times so that the taper roller bearings seat properly.
- 4) Loosen the steering stem nut 0 – 1/4 turn "a".

Tightening torque

Steering stem nut (a): 20 N·m (2.0 kgf-m, 14.5 lbf-ft) → turn counterclockwise 0 – 1/4



- 5) In this condition, check that the steering stem lower bracket can turn smoothly without rattle and stiffness. If there is a rattle or heavy movement, readjust the tightness by the stem nut.
- 6) When installing the washer (1), align the lug (2) of the washer to the groove of the steering stem.



- 7)** Tighten the steering stem lock-nut (1) to the specified torque with the special tools.

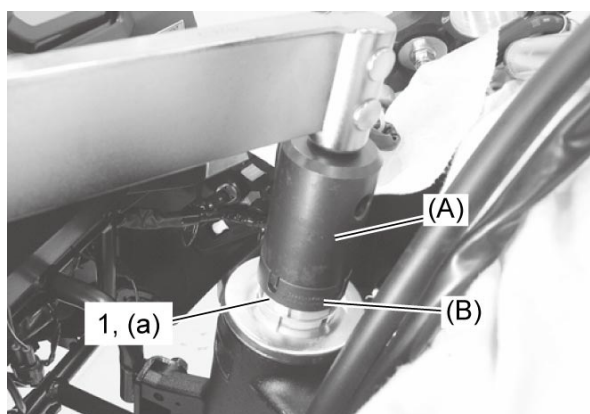
Special Tool

(A): 09940-14911

(B): 09940-14960

Tightening torque

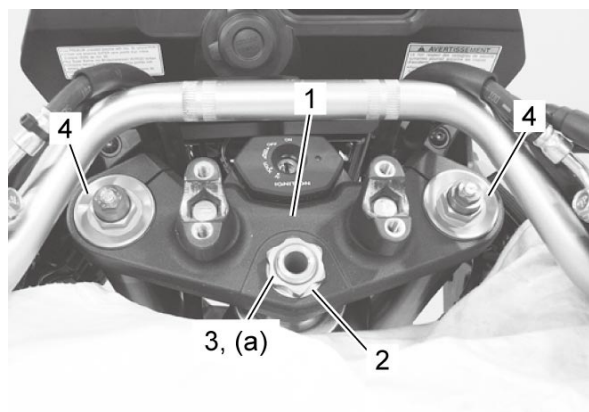
Steering stem lock-nut (a): 80 N·m (8.0 kgf-m, 58.0 lbf-ft)



- 8)** Install the steering stem upper bracket (1), washer (2) and steering stem head nut (3) temporarily.
- 9)** Install the front forks (4) temporarily.
- 10)** Tighten the steering stem head nut (3) to the specified torque.

Tightening torque

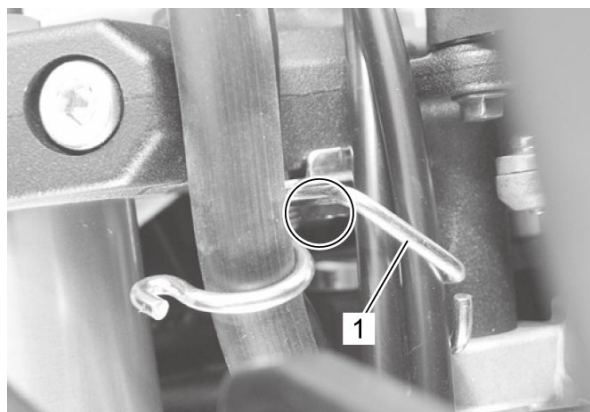
Steering stem head nut (a): 90 N·m (9.0 kgf-m, 65.0 lbf-ft)



11) Install the front forks.

12) Install the handlebars.

13) Install the guide (1). Refer to [Throttle Cable Routing Diagram](#) and [Front Brake Hose Routing Diagram](#).



14) Check the steering tension.