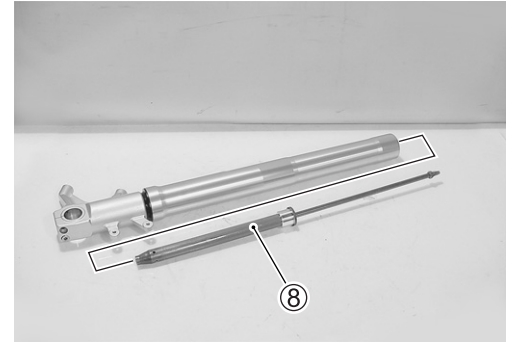


- Remove the inner rod/damper rod (cartridge) ⑧.

CAUTION

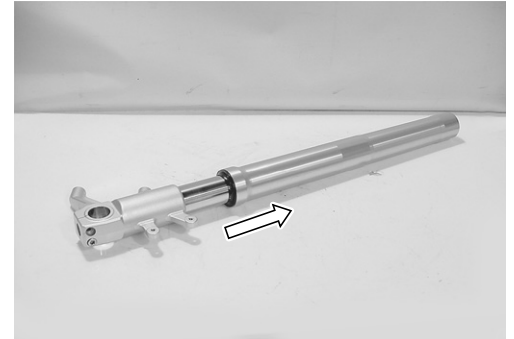
Do not disassemble the inner rod/damper rod (cartridge).



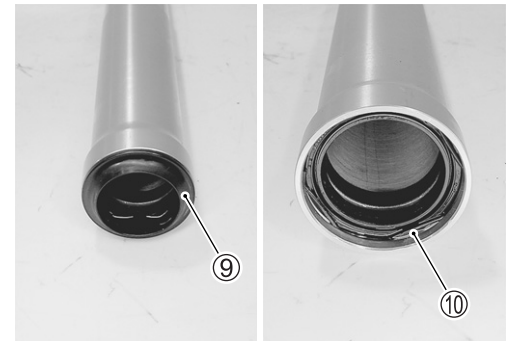
- Extract the outer tube from the inner tube.

NOTE:

Be careful not to damage the “ANTI-FRICTION” metals.



- Remove the dust seal ⑨ and oil seal stopper ring ⑩.



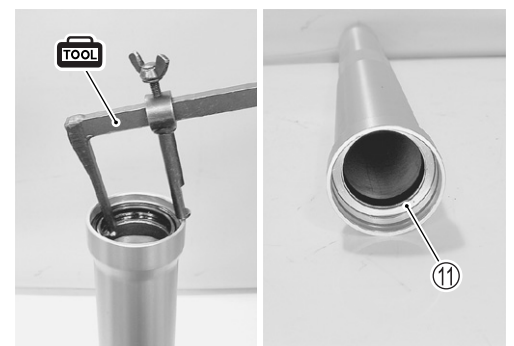
- Remove the oil seal with the special tool.

TOOL 09913-50121: Oil seal remover

CAUTION

The removed oil seal must be replaced with a new one.

- Remove the oil seal retainer ⑪.



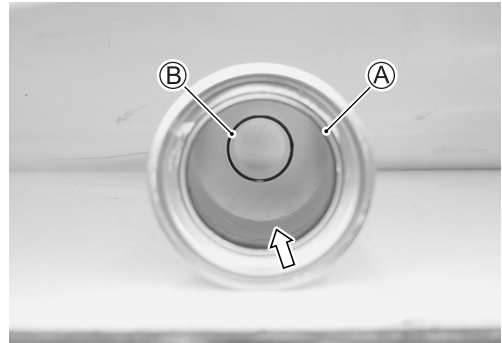
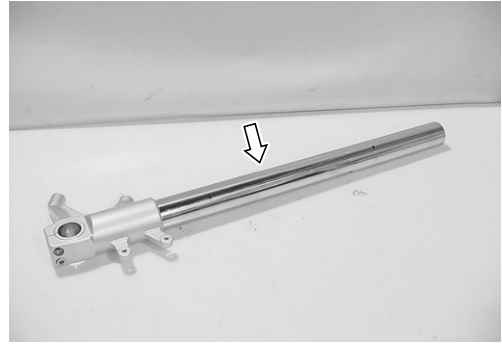
INSPECTION

INNER AND OUTER TUBES

- Inspect the inner tube outer surface and outer tube inner surface for scratches.
- Inspect the “ANTI-FRICTION” metal surfaces for scratches.
- If any defects are found, replace them with a new one.

CAUTION

Do not remove the “ANTI-FRICTION” metal (A) and (B).

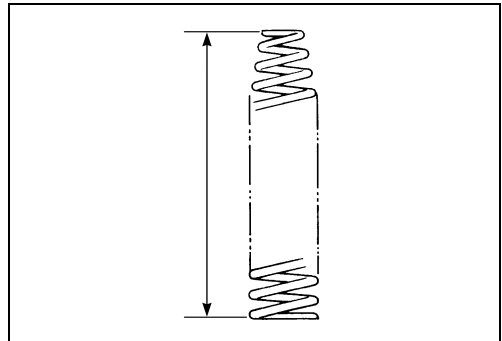


FORK SPRING

- Measure the fork spring free length.
- If it is shorter than the service limit, replace it with a new one.

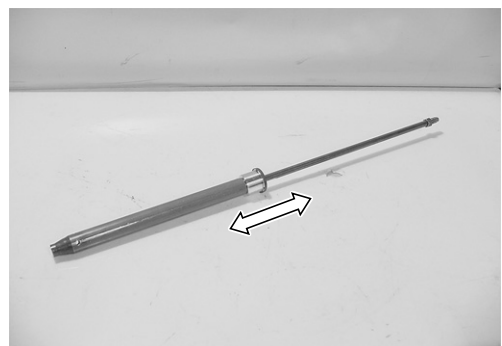
DATA Front fork spring free length:

Service Limit: 391 mm (15.4 in)



DAMPER ROD

- Move the inner rod by hand to examine it for smoothness.
- If any defects are found, replace inner rod/damper rod (cartridge) with a new one.



REASSEMBLY

Reassemble the front fork in the reverse order of disassembly. Pay attention to the following points:

OIL SEAL AND DUST SEAL

- Install the dust seal, oil seal stopper ring, oil seal and oil seal retainer onto the inner tube.
- ① Dust seal
 - ② Oil seal stopper ring
 - ③ Oil seal
 - ④ Oil seal retainer

CAUTION

- * When installing the oil seal to outer tube, be careful not to damage the oil seal lip.
- * Do not use solvents for washing to prevent oil seal damage.
- * Apply fork oil to the Anti-friction metals and lip of the oil seal.
- * Make sure that the oil seal stopper ring has been fitted securely.

- Insert the inner tube into the outer tube and fit the oil seal and dust seal with the special tool.

 **09940-52861: Front fork oil seal installer**

NOTE:

Stamped mark on the oil seal should face outside.

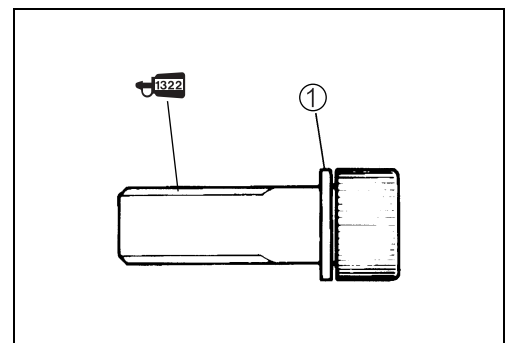
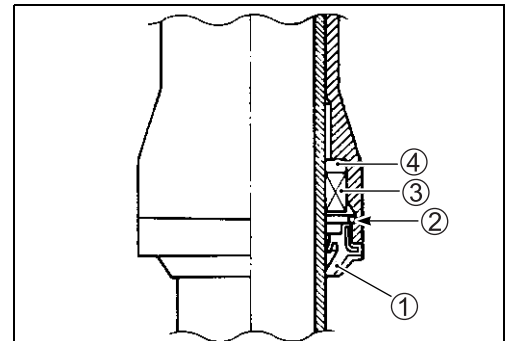
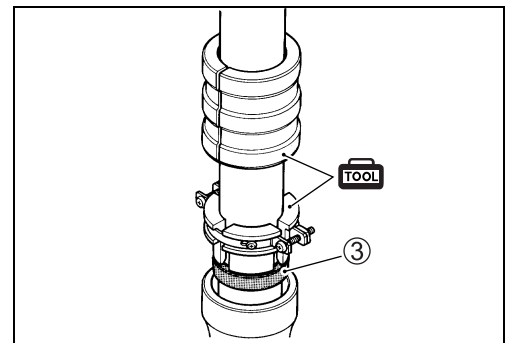
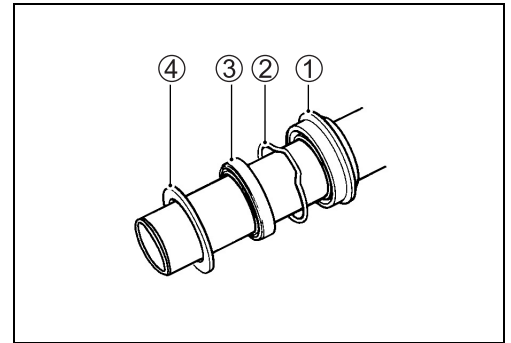
DAMPER ROD BOLT

- Insert the inner rod/damper rod (cartridge) into the inner tube.
- Apply THREAD LOCK SUPER to the damper rod bolt.

 **99000-32110: THREAD LOCK SUPER "1322"**
or equivalent

CAUTION

Use a new damper rod bolt gasket ① to prevent oil leakage.



- Tighten the damper rod bolt to the specified torque with the special tool.

TOOL 09940-30221: Front fork assembling tool

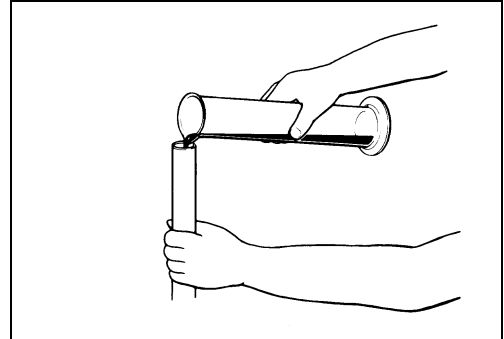
TOOL Damper rod bolt: 40 N·m (4.0 kgf·m, 29.0 lb-ft)



FORK OIL

- Place the front fork vertically without spring.
- Compress it fully.
- Pour specified front fork oil up to the top level of the outer tube.

FORK 99000-99044-L01: SUZUKI FORK OIL L01
or an equivalent

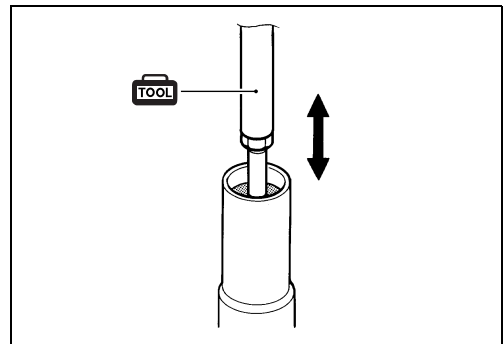


- Move the inner rod slowly with the special tool ten times and more until no more bubbles come out from the oil.

TOOL 09940-52841: Inner rod holder

NOTE:

Refill front fork oil up to the top of the outer tube so that bubbles are visible while bleeding air.

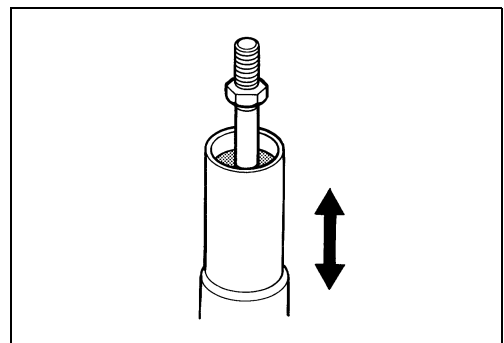


- Refill specified front fork oil up to the top level of the outer tube again. Move the outer tube up and down several strokes until no more bubbles come out from the oil.
- Keep the front fork vertically and wait 5 – 6 minutes.

NOTE:

* Always keep oil level over the cartridge top end, or air may enter the cartridge during this procedure.

* Take extreme care so as to pump out air completely.



- Hold the front fork vertically and adjust fork oil level with the special tool.

NOTE:

When adjusting the fork oil level, compress the outer tube fully without the fork spring.

DATA Fork oil level: 133 mm (5.2 in)

TOOL 09943-74111: Front fork oil level gauge

