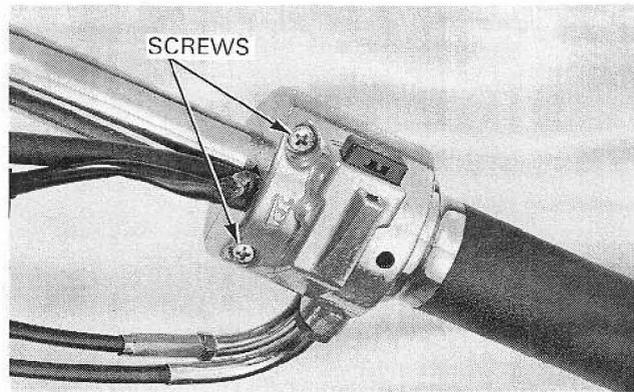


## FRONT WHEEL/SUSPENSION/STEERING

Tighten the forward screw first, then the rear screw.

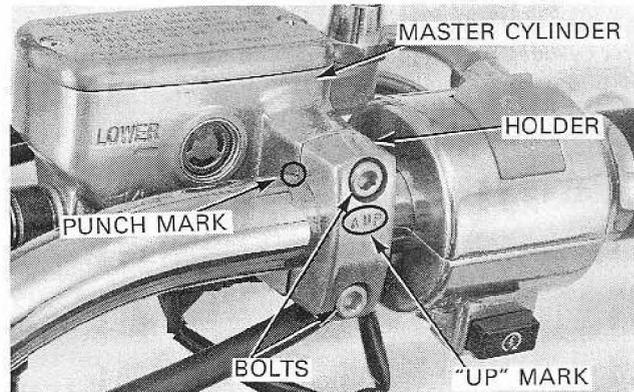


Install the master cylinder by aligning the end of the master cylinder with the punch mark on the handlebar. Install the master cylinder holder with the "UP" mark facing up.

Tighten the upper bolt first, then lower bolt.

**TORQUE: 12 N·m (1.2 kgf·m, 9 lbf-ft)**

Connect the brake switch wire connectors and set the wire clips.



## FRONT WHEEL

### REMOVAL

GL1500C/CT:

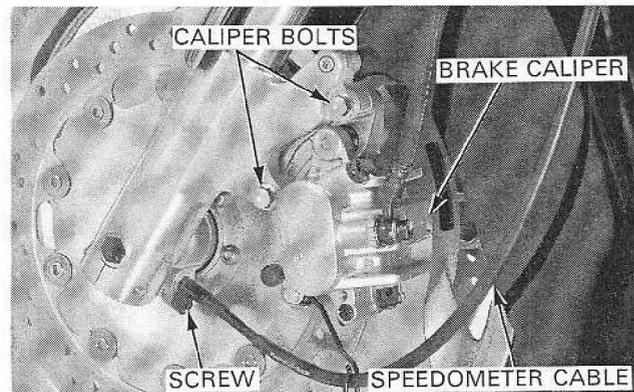
Remove the speedometer cable set screw and disconnect the speedometer cable.

GL1500CF:

Remove the set screw and the speed sensor.

Support the motorcycle securely using a safety stand or a hoist.

Remove the mounting bolts and right or left brake caliper.



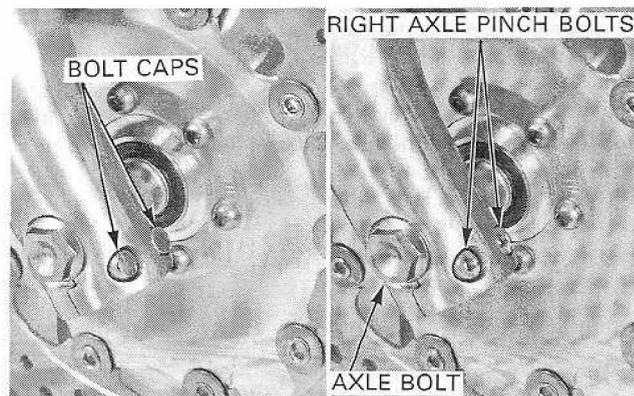
### CAUTION

- Support the brake caliper with a piece of wire so that it does not hang from the brake hose. Do not twist the brake hose.

### NOTE

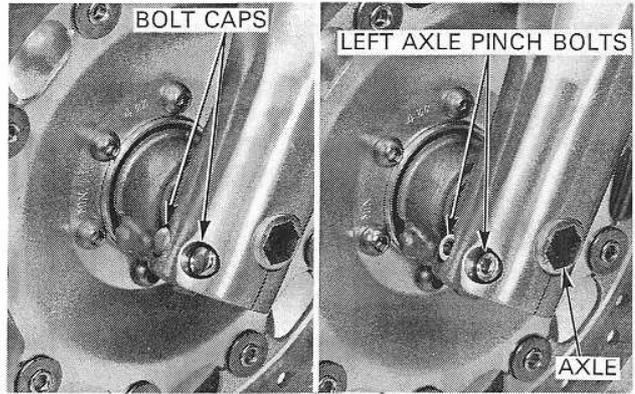
- Do not operate the brake lever after the brake calipers are removed.

Remove the right axle pinch bolt caps.  
Loosen the right axle pinch bolts.  
Remove the axle bolt.

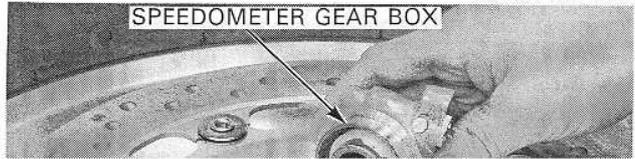


## FRONT WHEEL/SUSPENSION/STEERING

Remove the left axle pinch bolt caps.  
Loosen the left axle pinch bolts.  
Remove the axle by reinstalling axle bolt and gently driving out axle from right side using a soft driver. Remove the front wheel.



Remove the speedometer gearbox from left wheel hub.



## FRONT WHEEL/SUSPENSION/STEERING

### Wheel bearing

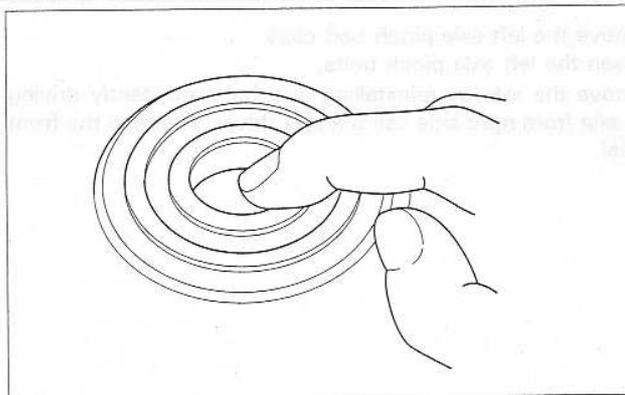
Turn the inner race of each bearing with your finger. The bearings should turn smoothly and quietly. Also check that the bearing outer race fits tightly in the hub.

Remove and discard the bearings if they do not turn smoothly, quietly, or if they fit loosely in the hub (page 13-11).

### NOTE

- Replace the bearing in pairs.

Install the new bearings into the hub using the special tools (page 13-12).



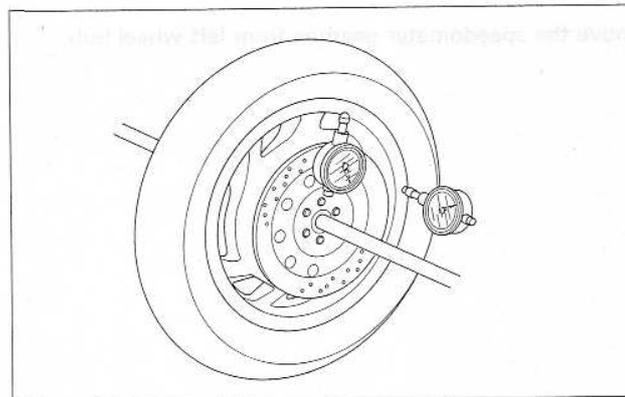
### Wheel rim runout

Check the rim runout by placing the wheel in a truing stand. Spin the wheel by hand, and read the runout using a dial indicator.

Actual runout is 1/2 the total indicator reading.

### SERVICE LIMITS:

- Radial: 2.0 mm (0.08 in)
- Axial: 2.0 mm (0.08 in)



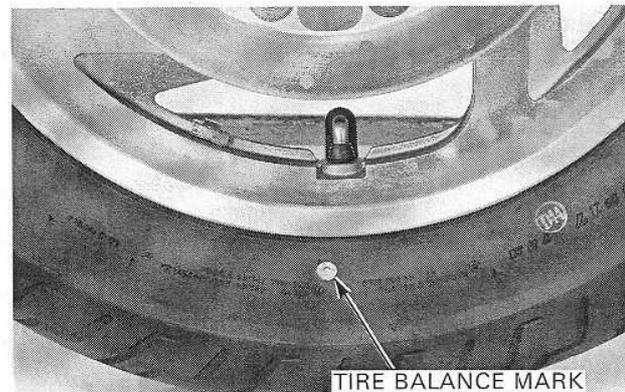
### Wheel balance

#### CAUTION

- *Wheel balance directly affects the stability, handling and overall safety of the motorcycle. Always check balance when the tire has been removed from the rim.*

### NOTE

- For optimum balance, the tire balance mark (a paint dot on the side wall) must be located next to the valve stem. Remount the tire if necessary.
- Note the rotating direction marks on the wheel and tire.

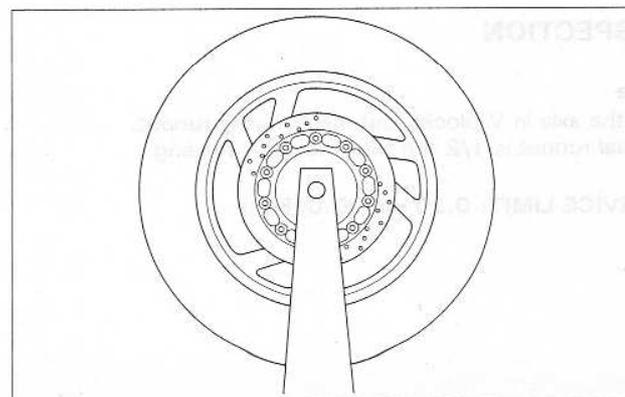


Remove the dust seals from the wheel.

Mount the wheel, tire and brake discs assembly in an inspection stand.

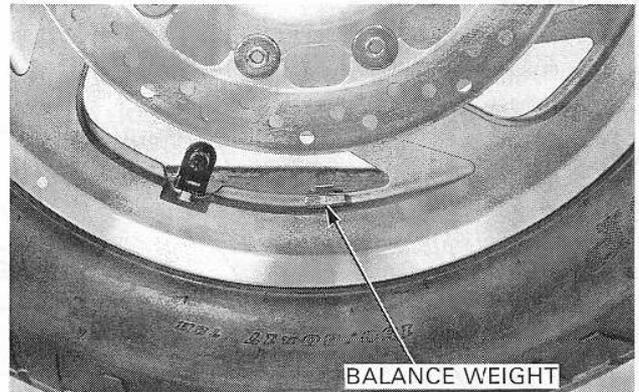
Spin the wheel, allow it to stop, and mark the lowest (heaviest) point of the wheel with a chalk.

Do this two or three times to verify the heaviest area. If the wheel is balanced, it will not stop consistently in the same position.



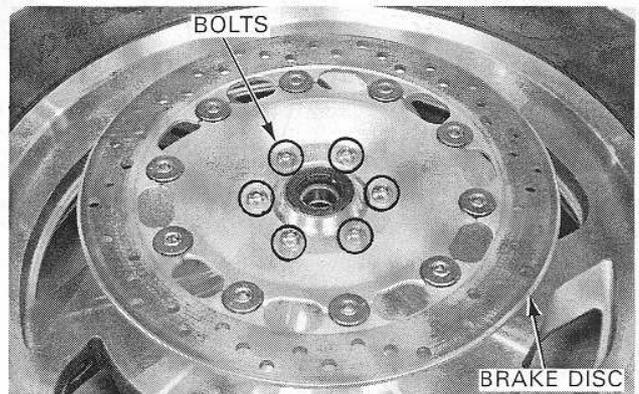
## FRONT WHEEL/SUSPENSION/STEERING

To balance the wheel, install wheel weights on the lightest side of the rim, the side opposite the chalk marks. Add just enough weight so the wheel will no longer stop in the same position when it is spun. Do not add more than 60 grams (2.1 oz) to the wheel.



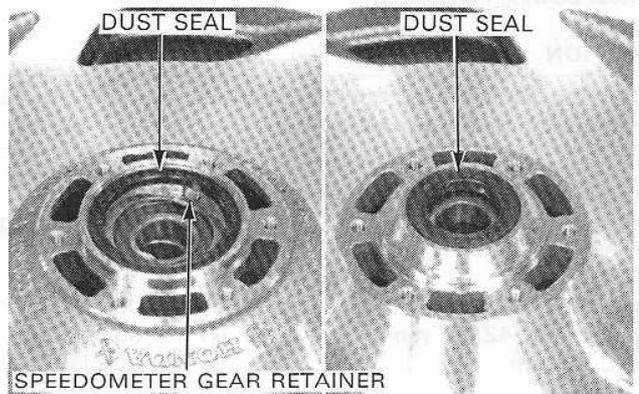
### DISASSEMBLY

Remove the bolts and brake discs.



Remove the dust seal from the right wheel hub.

Remove the dust seal from the left wheel hub.  
Remove the speedometer gear retainer.



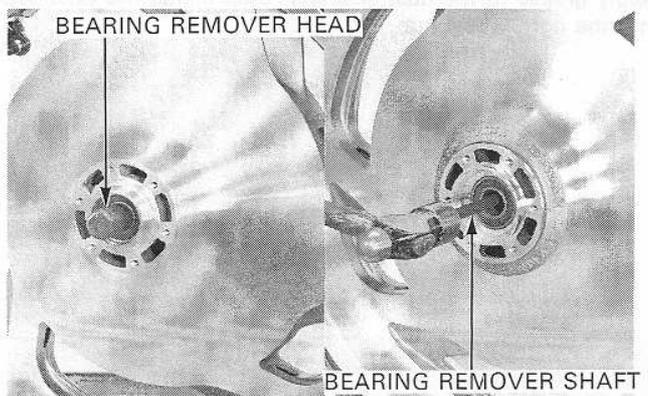
### Wheel bearing removal

Install the bearing remover head into the bearing.  
From the opposite side, install the bearing remover shaft and drive the bearing out of the wheel hub.  
Remove the distance collar and drive out the other bearing.

#### TOOLS:

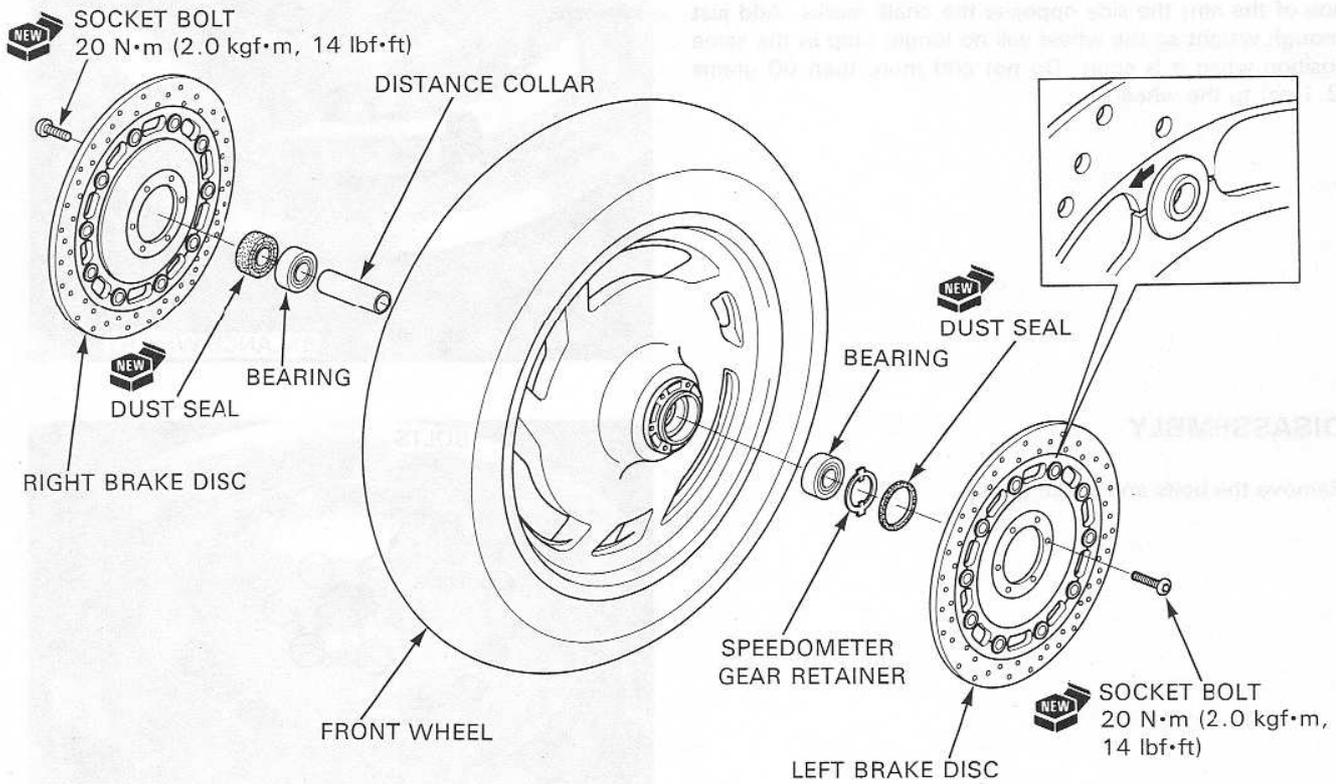
Bearing remover head, 20 mm  
Bearig remover shaft

07746-0050600  
07746-0050100



# FRONT WHEEL/SUSPENSION/STEERING

## ASSEMBLY



### Wheel bearing installation

#### CAUTION

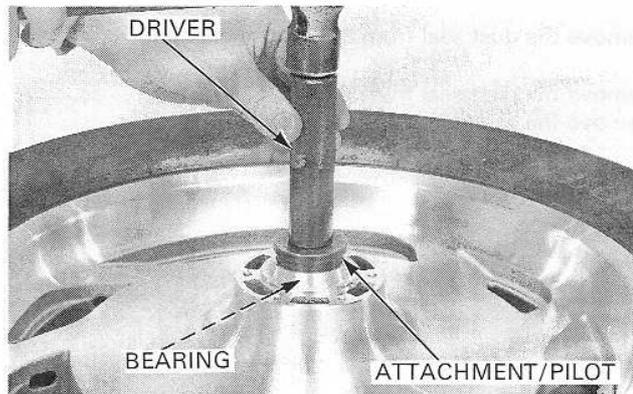
- Never install the old bearings. Once the bearing has been removed, the bearing must be replaced with new ones.

Drive in a new right bearing squarely.  
Install the distance collar, then drive in the left bearing using the special tools.

#### TOOLS:

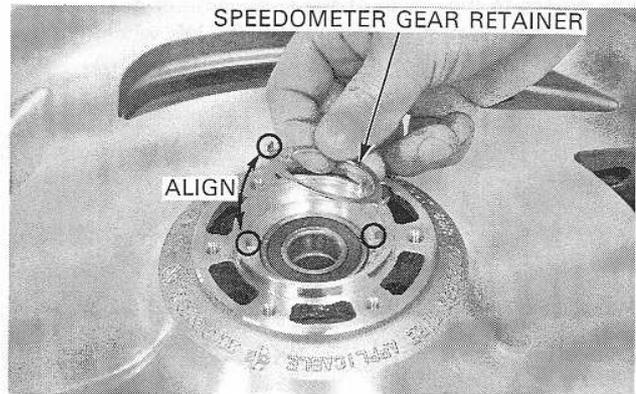
Driver	07749-0010000
Attachment, 42×47 mm	07746-0010300
Pilot, 20 mm	07746-0040500

Apply grease to the dust seal lips, then install the dust seal into the right wheel hub.



## FRONT WHEEL/SUSPENSION/STEERING

Install the speedometer gear retainer into the wheel hub, aligning the tangs with the slots in the hub.



Apply grease to the dust seal lips, then install the dust seal into the left wheel hub.

### ▲ WARNING

- Do not grease on the brake discs or stopping power will be reduced.



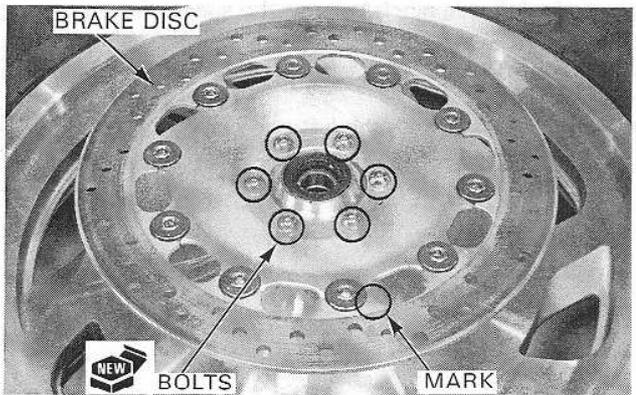
Install the brake discs on the wheel hub.

### NOTE

- Install the disc with the "L" mark on the left side, and the disc with the "R" mark on the right side.

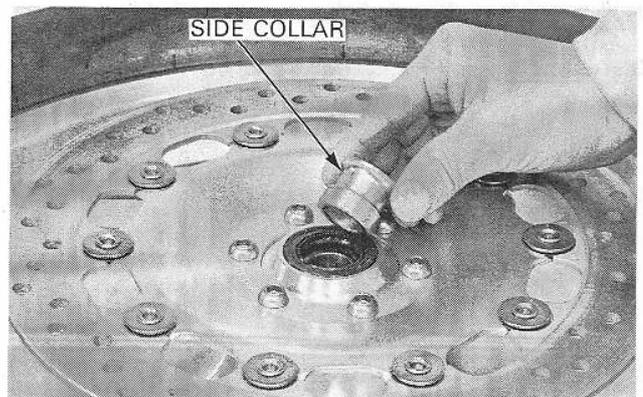
Install and tighten the new mounting bolts to the specified torque.

**TORQUE: 20 N·m (2.0 kgf·m, 14 lbf·ft)**



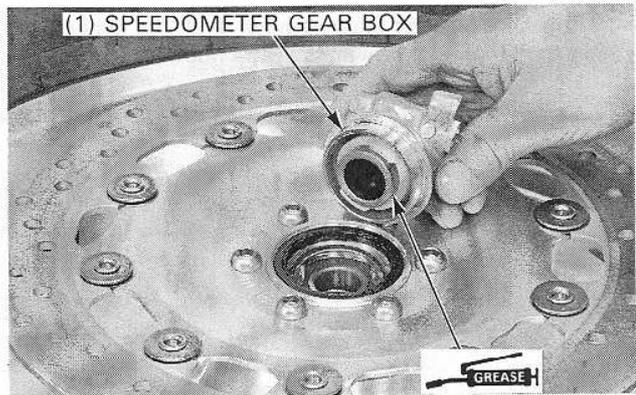
## INSTALLATION

Install the right side collar.

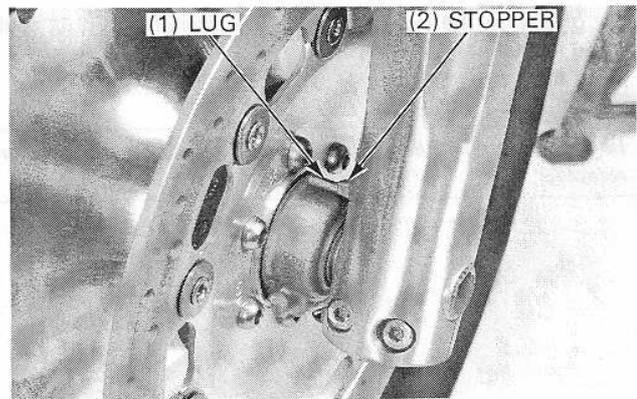


## FRONT WHEEL/SUSPENSION/STEERING

Apply grease to the inside of the speedometer gear box.  
Install the speedometer gear box into the left wheel hub.



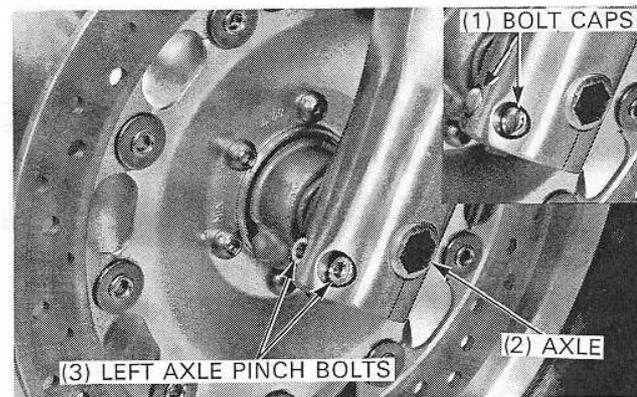
Install the front wheel between the fork legs.  
Install the front axle.  
Position the lug on the speedometer gear box against the back of stopper on the fork leg.



Tighten the left axle pinch bolts to the specified torque.

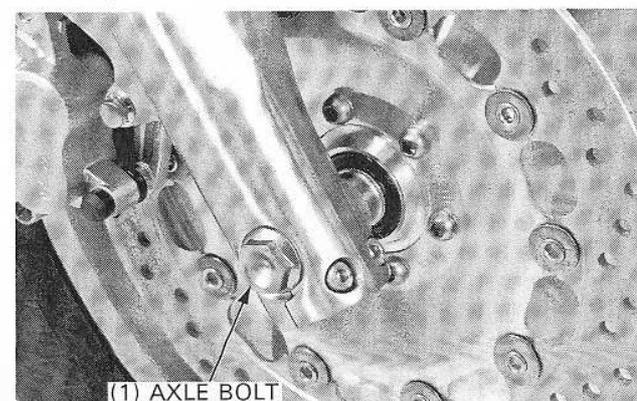
**TORQUE: 22 N·m (2.2 kgf·m, 16 lbf·ft)**

Install the bolt caps onto the left axle pinch bolts.



Install and tighten the axle bolt to the specified torque.

**TORQUE: 90 N·m (9.2 kgf·m, 67 lbf·ft)**



## FRONT WHEEL/SUSPENSION/STEERING

Install the brake caliper onto the fork leg.  
Install and tighten the new caliper mounting bolts to the specified torque.

**TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)**

GL1500C/CT:

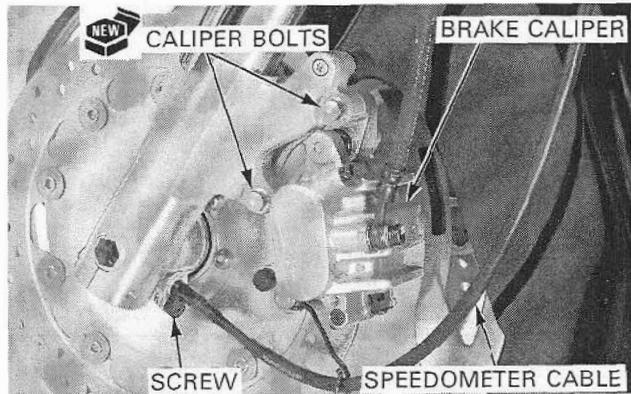
Connect the speedometer cable to the speedometer gear box.

Install and tighten the screw.

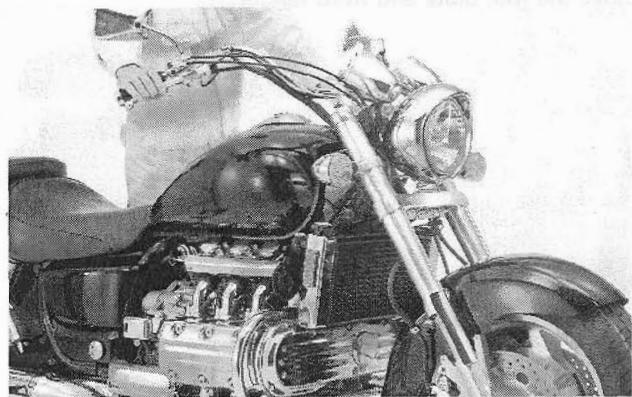
GL1500CF:

Install a new O-ring onto the speed sensor.

Install the speed sensor and tighten the set screw.



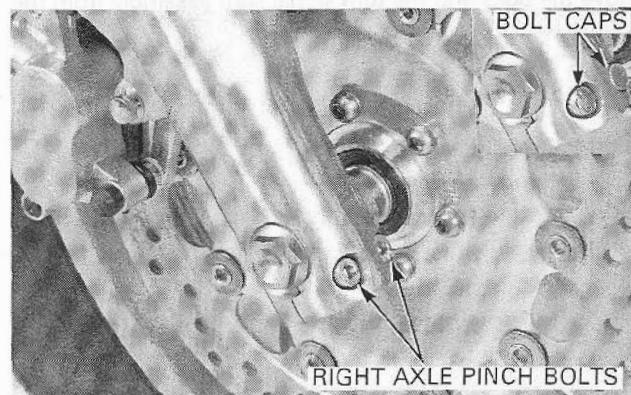
With the front brake applied, pump the fork up and down several times to seat the axle and check brake operation.



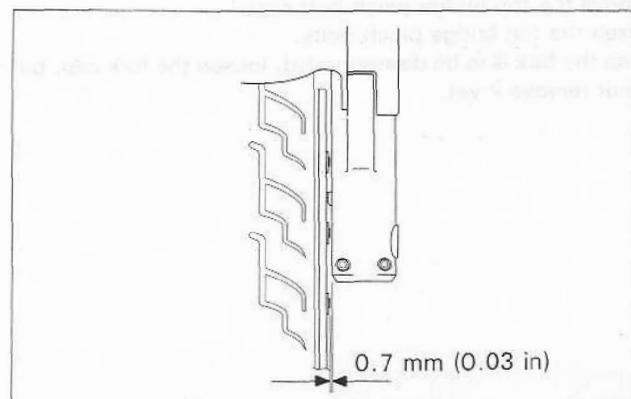
Tighten the right axle pinch bolts to the specified torque.

**TORQUE: 22 N·m (2.2 kgf·m, 16 lbf·ft)**

Install the bolt caps onto the right axle pinch bolts.



Check the clearance between the brake disc and caliper bracket on each side after installation.  
The clearance should be at least 0.7 mm (0.03 in).



## FRONT WHEEL/SUSPENSION/STEERING

### FORK

#### REMOVAL

Remove the right and left brake calipers (page 15-16).

Remove the front wheel (page 13-8).

Remove the brake hose clamp from the front fender.

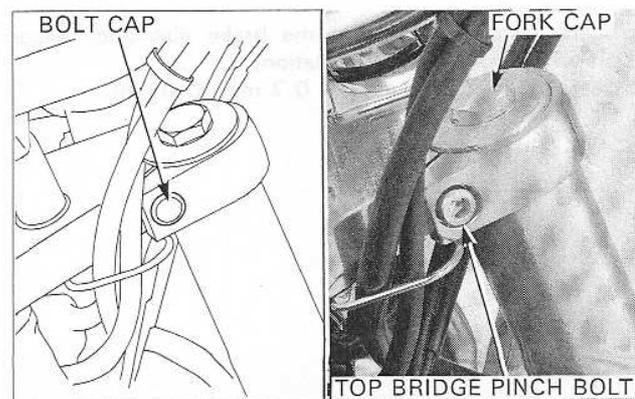
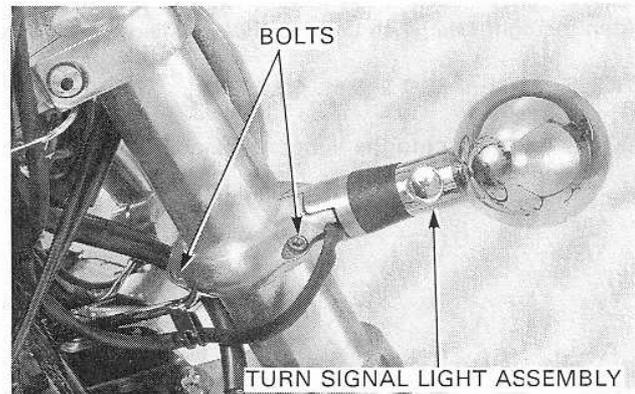
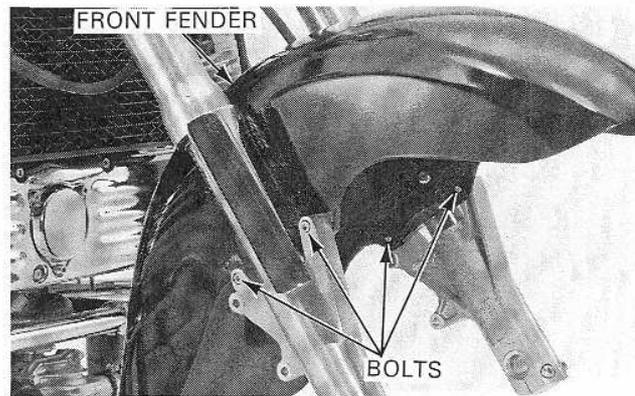
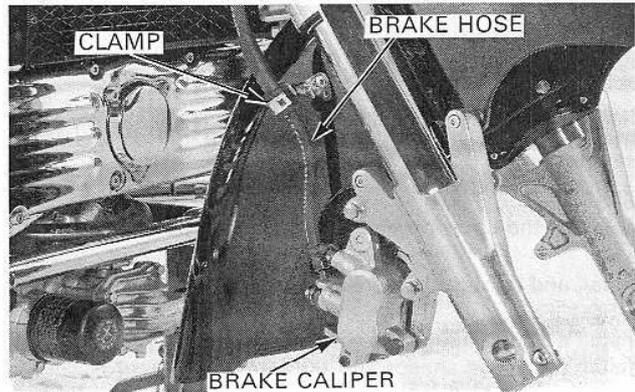
#### CAUTION

- Do not hang the brake caliper from the brake hose.

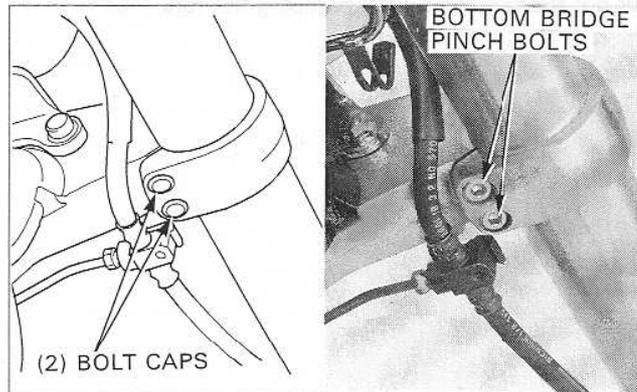
Remove the four bolts and front fender.

Remove the bolts and the turn signal light assembly from the fork tube (GL1500C/CT only).

Remove the top bridge pinch bolt caps. Loosen the top bridge pinch bolts. When the fork is to be disassembled, loosen the fork cap, but do not remove it yet.



Remove the bottom bridge pinch bolt caps.  
Loosen the fork bottom bridge pinch bolts and remove the fork tube from the fork top bridge and steering stem.

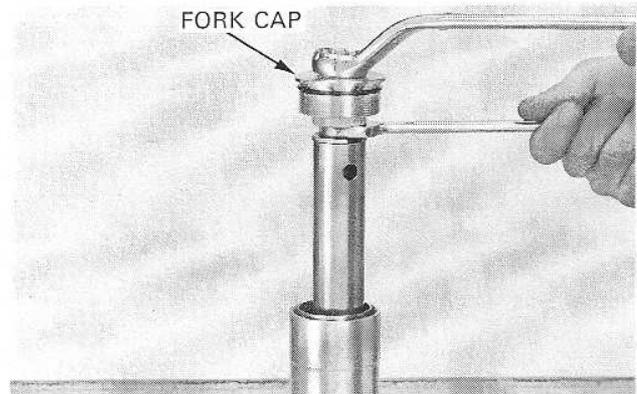


### RIGHT FORK DISASSEMBLY

#### CAUTION

- *Be careful not to scratch the fork tube or damage the dust seal.*

Hold the fork tube, remove the fork cap from the fork tube and slide the fork tube down onto the axle holder.  
Remove the fork cap from the damper rod.

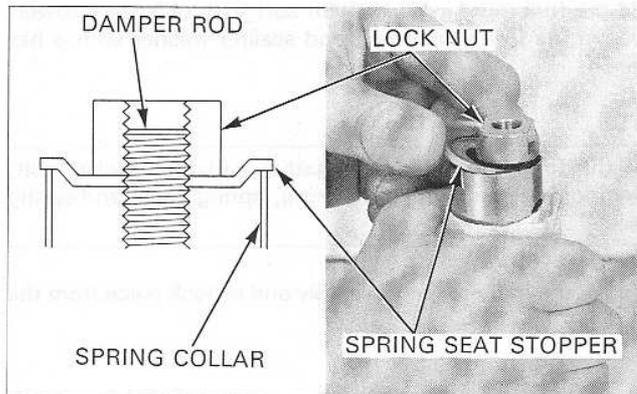


Loosen the lock nut as shown.

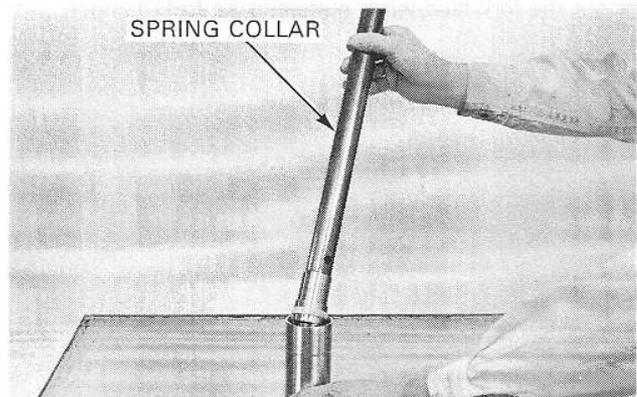
#### ▲WARNING

- *The spring seat stopper and spring collar are under spring pressure. Use care when removing them and wear eye and face protection.*

While pushing down the spring collar, remove the spring seat stopper.

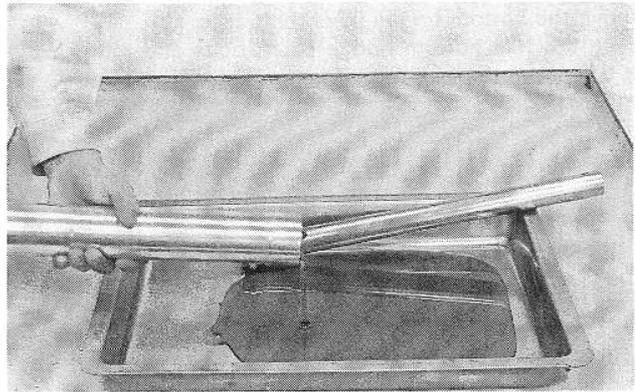


Remove the spring collar.

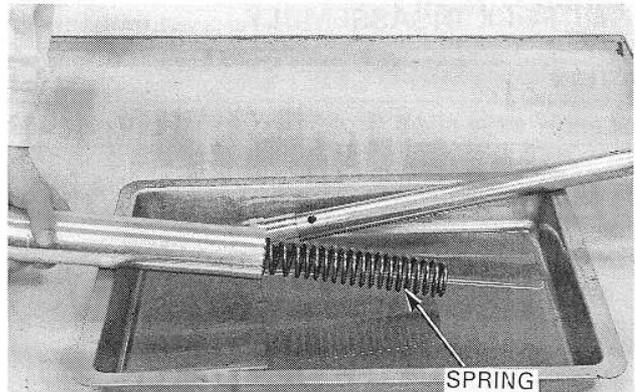


## FRONT WHEEL/SUSPENSION/STEERING

Pour out the fork fluid while pumping the fork tube.



Remove the spring.



Hold the fork slider in a vise with soft jaws or a shop towel. Remove the fork socket bolt and sealing washer with a hex wrench.

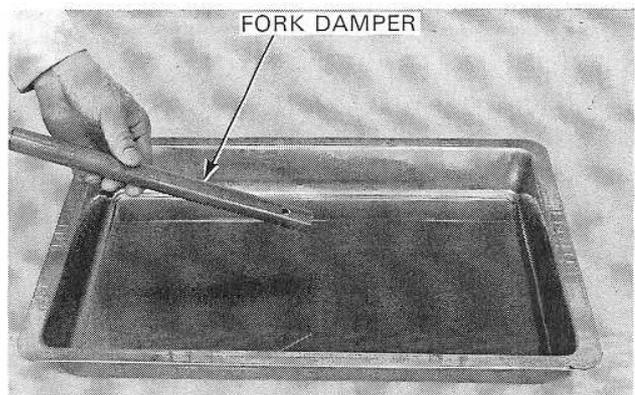
### NOTE

- If the fork damper turns together with the socket bolt, temporarily install the fork spring, spring collar and spring seat.

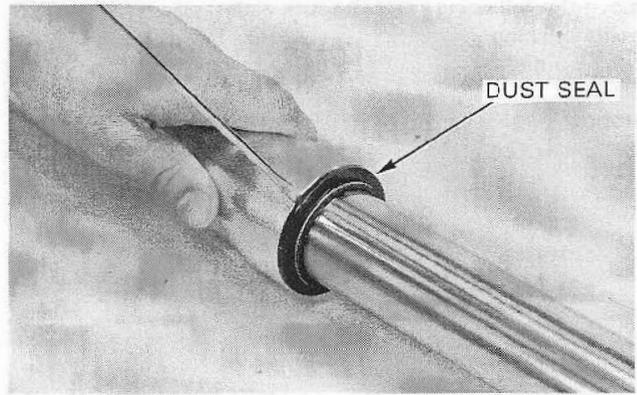
Remove the fork damper assembly and oil lock piece from the fork tube.



Pour out the fork fluid while pumping the fork damper.



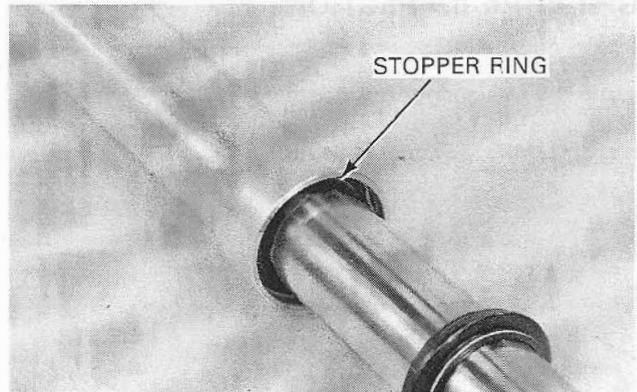
Remove the dust seal from the fork tube.



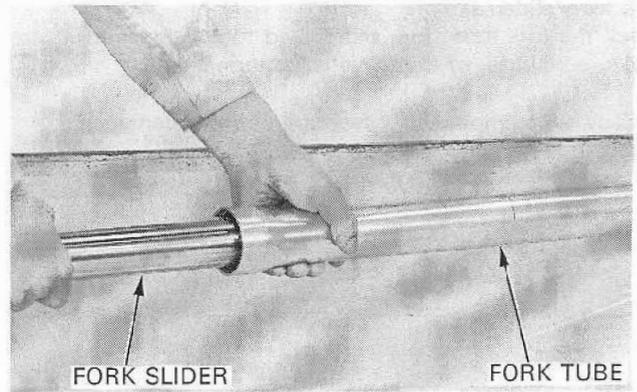
Remove the oil seal stopper ring.

**CAUTION**

- Do not scratch fork tube sliding surface.



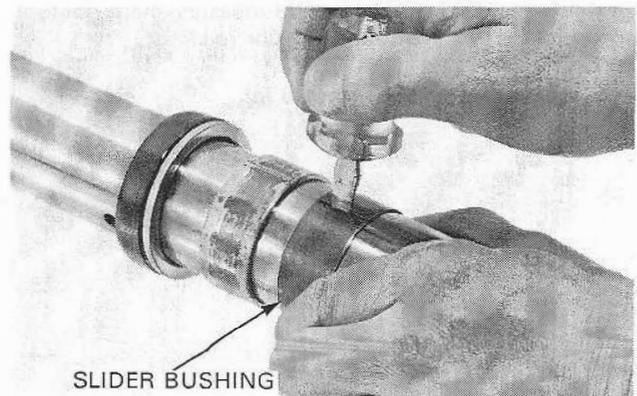
Pull the fork tube out until you feel resistance from the slider bushing. Then move it in and out, tapping the bushing lightly until the fork tube separates from the fork slider. The slider bushing will be forced out by the fork tube bushing.



Carefully remove the slider bushing by prying the slot with a screwdriver until the bushing can be pulled off by hand.

**CAUTION**

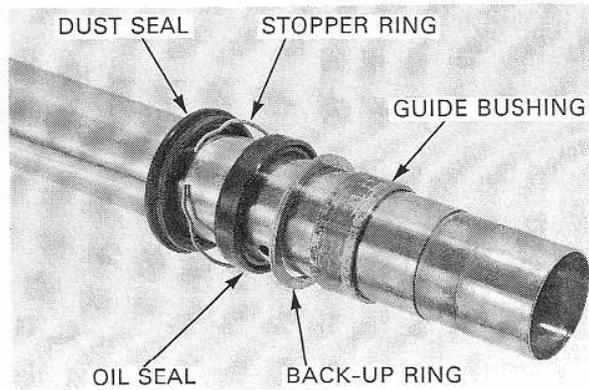
- Do not damage the slider bushing, especially the sliding surface. To maintain rebound damping effectiveness, do not open the bushing more than necessary.



## FRONT WHEEL/SUSPENSION/STEERING

Remove the following from the fork slider:

- guide bushing.
- back-up ring.
- oil seal.
- stopper ring.
- dust seal.

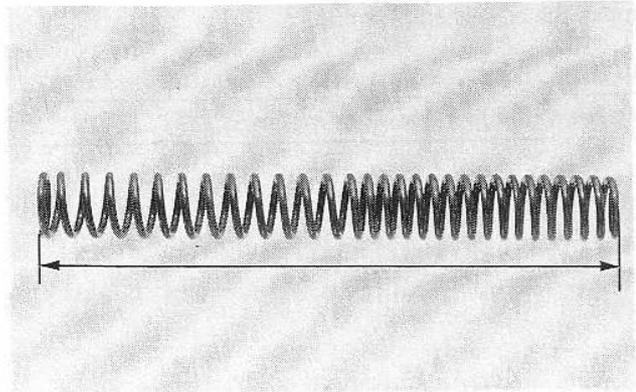


## RIGHT FORK INSPECTION

### Fork spring

Measure the fork spring free length.

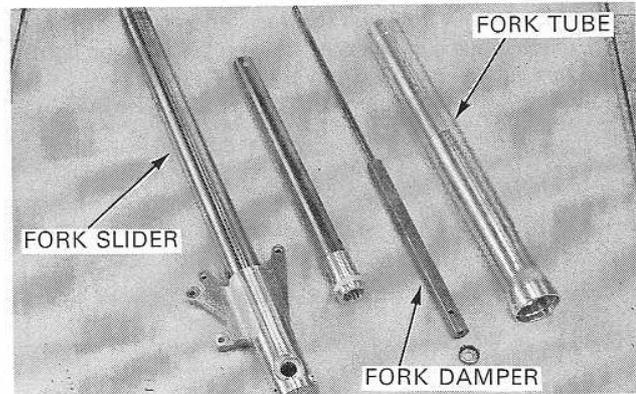
**SERVICE LIMIT: 337 mm (13.3 in)**



### Fork tube/slider/damper

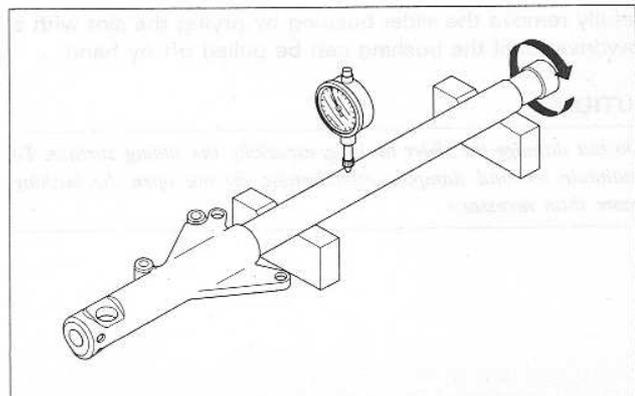
Check the fork tube, fork slider, and fork damper for score marks, scratches, or excessive or abnormal wear.

Replace any components which are worn or damaged.



Place the fork slider in V-blocks and measure the runout. Actual runout is 1/2 the total indicator reading.

**SERVICE LIMIT: 0.20 mm (0.008 in)**

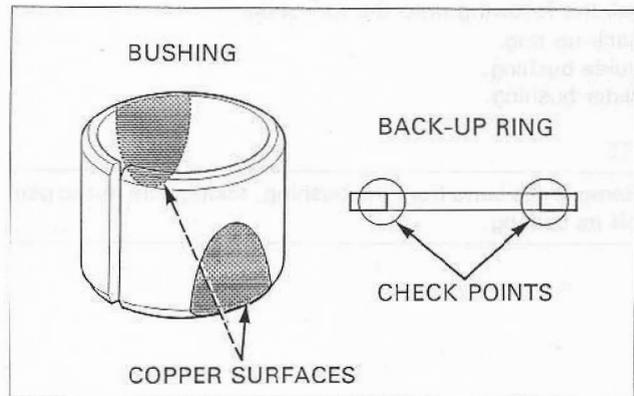


## FRONT WHEEL/SUSPENSION/STEERING

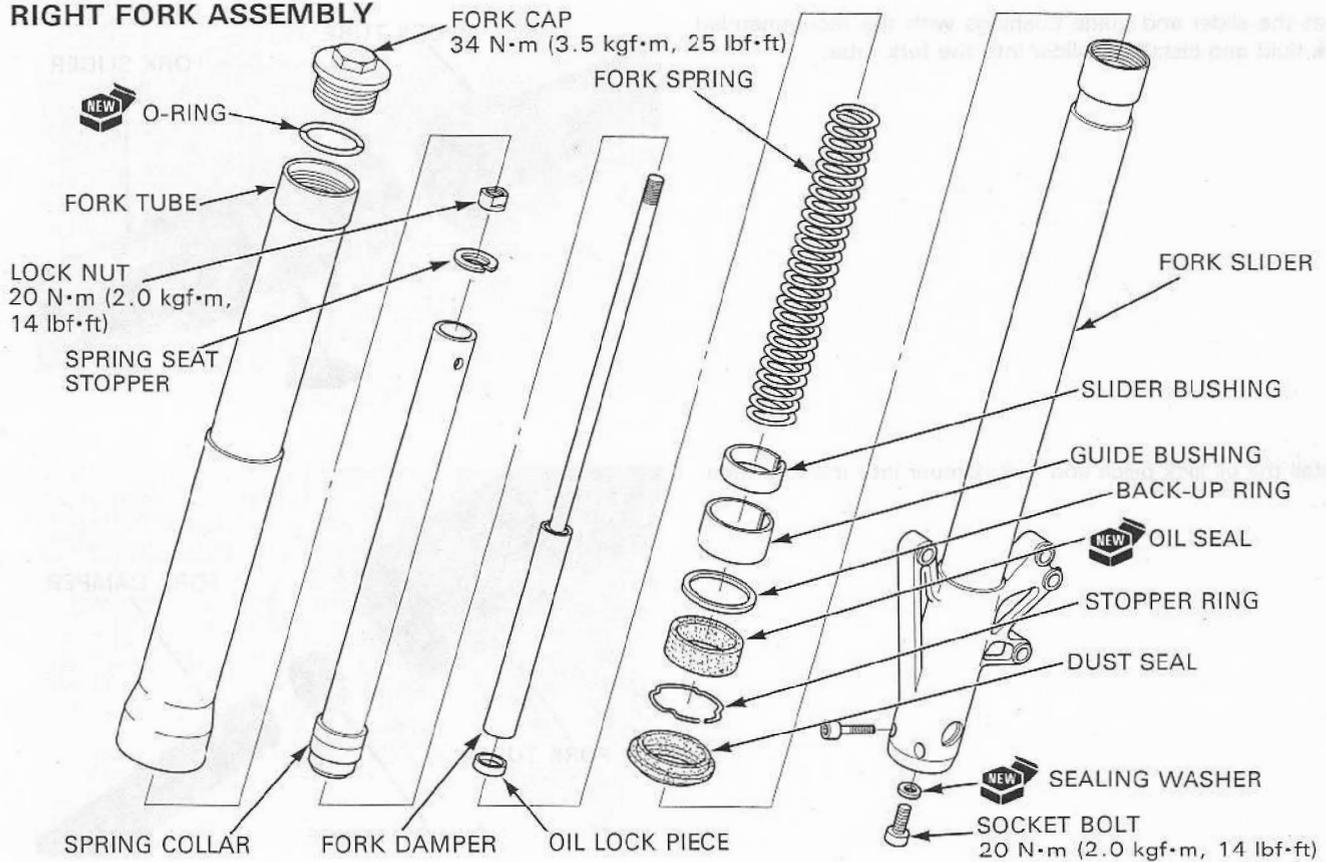
### Fork slider bushing

Visually inspect the fork slider and slider bushings. Replace the bushings if there is excessive scoring or scratching, or if the teflon is worn so that the copper surface appears on more than 3/4 of the entire surface.

Check the back-up ring; replace it if there is any distortion at the points shown.



### RIGHT FORK ASSEMBLY



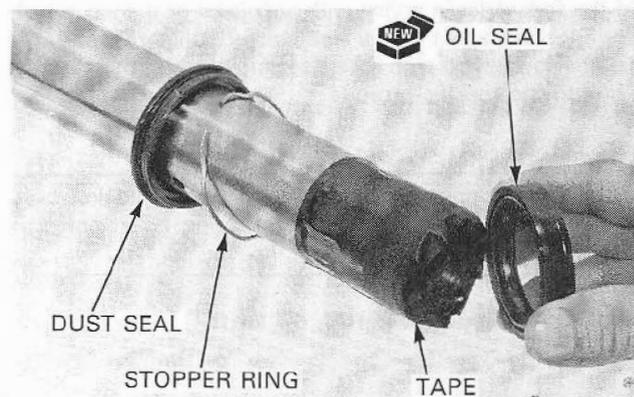
Before assembly, wash all parts with a high flash point or non-flammable solvent and wipe them dry. Wrap the end of the fork slider with tape.

Install the following onto the fork slider:

- dust seal.
- stopper ring.
- oil seal.

#### NOTE

- Install the oil seal with its marked side facing the axle holder.



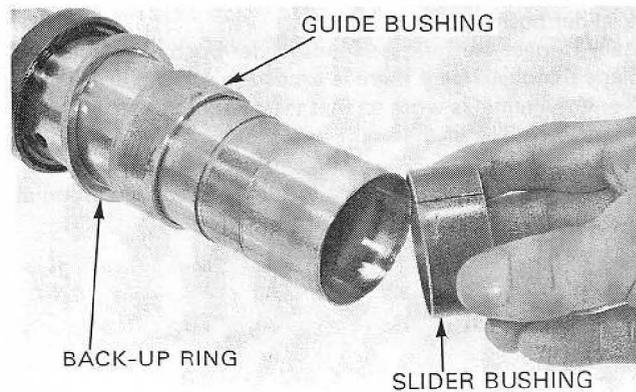
## FRONT WHEEL/SUSPENSION/STEERING

Install the following onto the fork slider:

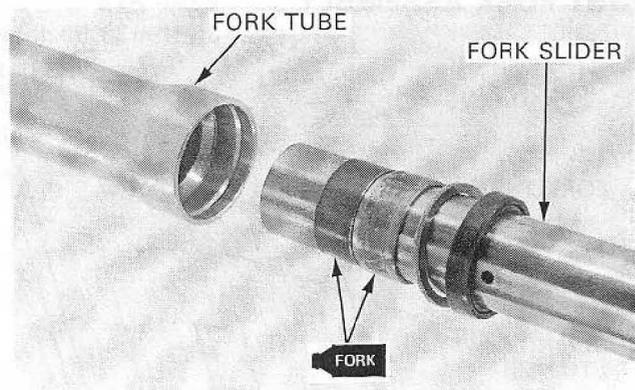
- back-up ring.
- guide bushing.
- slider bushing.

### NOTE

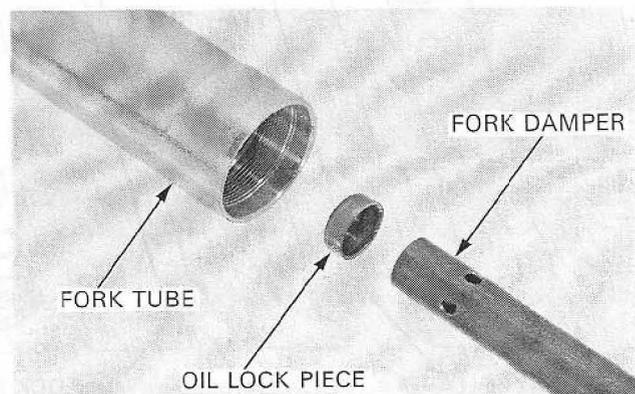
- Remove the burrs from the bushing, taking care not to peel off its coating.



Coat the slider and guide bushings with the recommended fork fluid and install the slider into the fork tube.



Install the oil lock piece and fork damper into the fork tube.

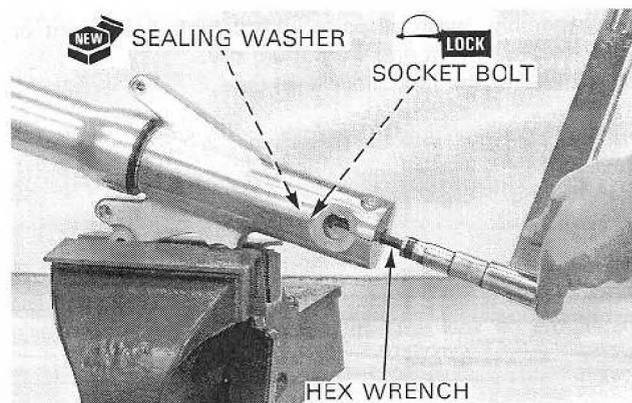


Hold the fork slider in a vise with soft jaws or a shop towel. Apply a locking agent to the fork socket bolt threads. Install the socket bolt with a new sealing washer, then tighten the bolt to the specified torque.

### NOTE

- If the fork damper turns together with the socket bolt, temporarily install the fork spring, spring collar and fork cap.

**TORQUE:** 20 N·m (2.0 kgf·m, 14 lbf·ft)



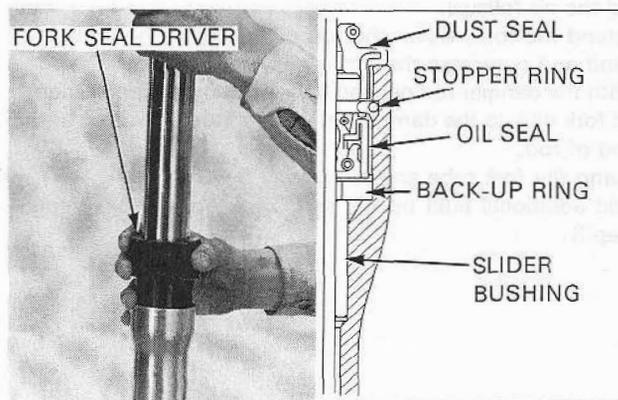
## FRONT WHEEL/SUSPENSION/STEERING

Drive the oil seal in using the special tool.

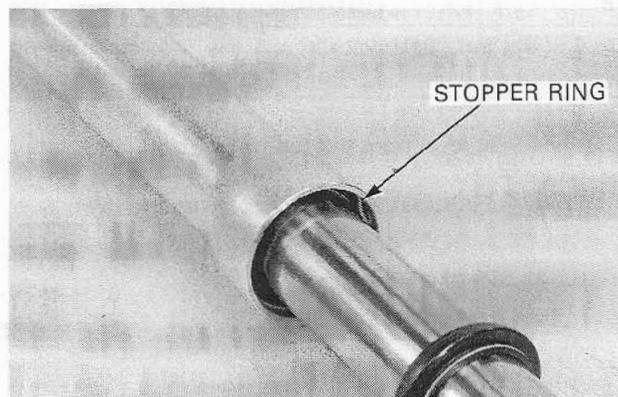
**TOOL:**

Fork seal driver, 45 mm

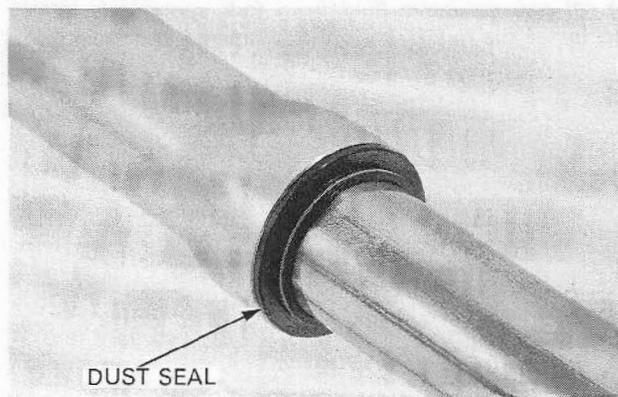
07KMD-KZ30100 or  
07KMD-KZ3010A  
(U.S.A. only)



Install the stopper ring into the fork tube groove securely.



Install the dust seal.



Add recommended fork fluid into the damper rod until the fluid flows out the damper rod end.

Pour the half amount of the recommended fork fluid into the fork leg.

**RECOMMENDED FORK FLUID:**

Pro Honda Suspension Fluid SS-8

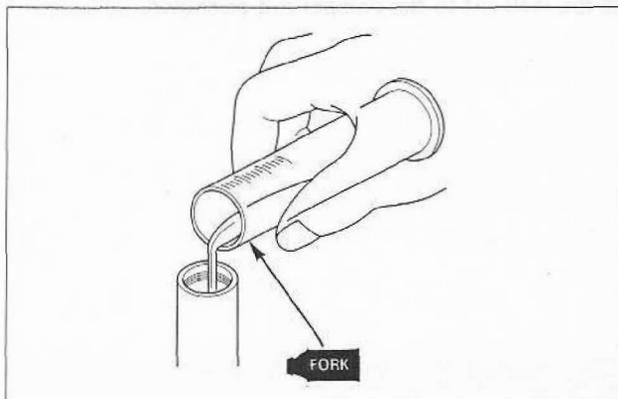
**FORK FLUID CAPACITY:**

GL1500C/CT:

$670 \pm 2.5 \text{ cm}^3$  (22.7  $\pm$  0.08 US oz, 23.6  $\pm$  0.09 Imp oz)

GL1500CF:

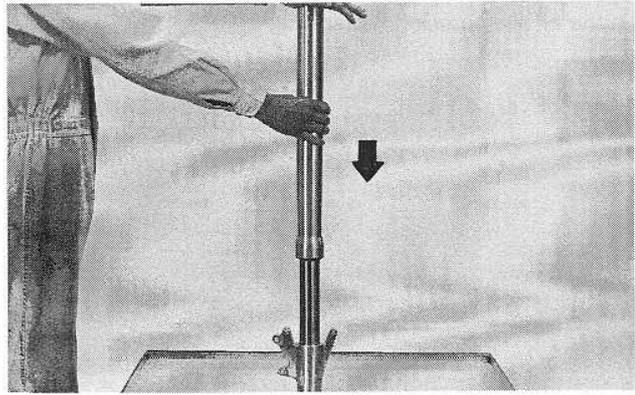
$669 \pm 2.5 \text{ cm}^3$  (22.6  $\pm$  0.08 US oz, 23.5  $\pm$  0.09 Imp oz)



## FRONT WHEEL/SUSPENSION/STEERING

Bleed the air follows:

1. Extend the fork. Cover the top of the fork tube with your hand and compress the fork slowly.
2. With the damper rod pushed fully in, pour the recommended fork oil into the damper rod until a little flows out of the end of rod.
3. Pump the fork tube and rod slowly 8-10 times.
4. Add additional fluid up the specified capacity and repeat step 3.

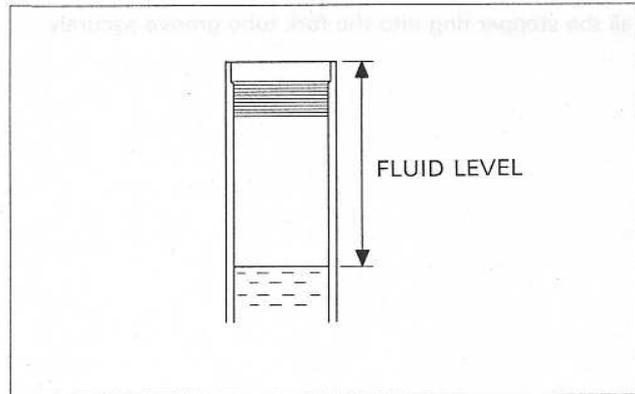


### NOTE

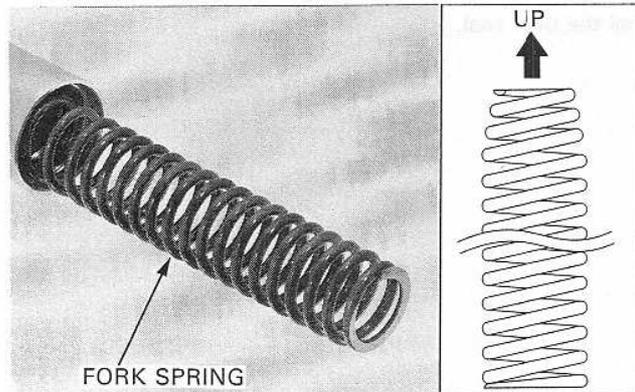
- Support the fork leg vertically and the fork compressed fully whenever measuring the fluid level.

Measure the fluid level from the top of the fork tube.

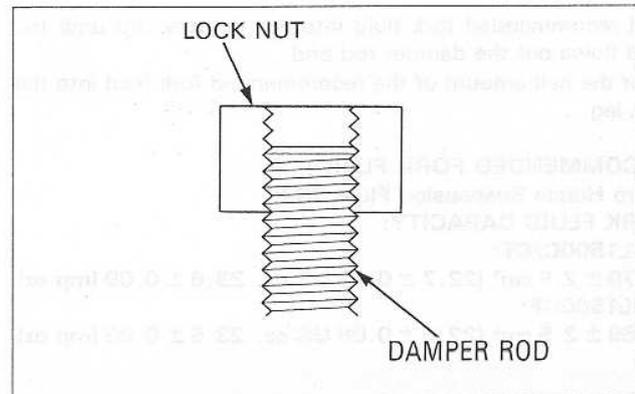
**FORK FLUID LEVEL: GL1500C/CT: 135 mm (5.3 in)**  
**GL1500CF: 136 mm (5.4 in)**



Wipe off any excessive fluid from fork spring and spring collar. Install the fork spring with its tapered end facing up.



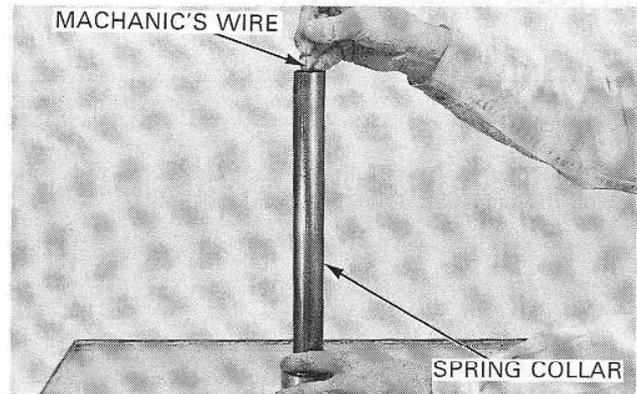
Install the lock nut to the damper rod as shown.



## FRONT WHEEL/SUSPENSION/STEERING

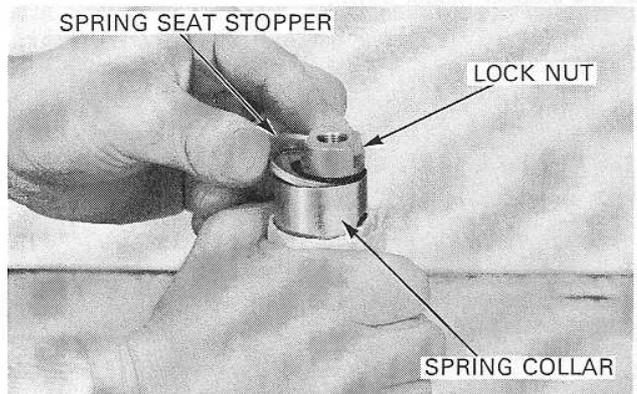
Attach a 600 mm (2 feet) length of mechanic's wire to the lock nut on the damper rod.

Pull the damper rod up and install the spring collar.



While pushing the spring collar down and install the spring seat stopper.

Remove the mechanic's wire from the damper rod. Tighten the lock nut by hand until it bottoms on the damper rod.

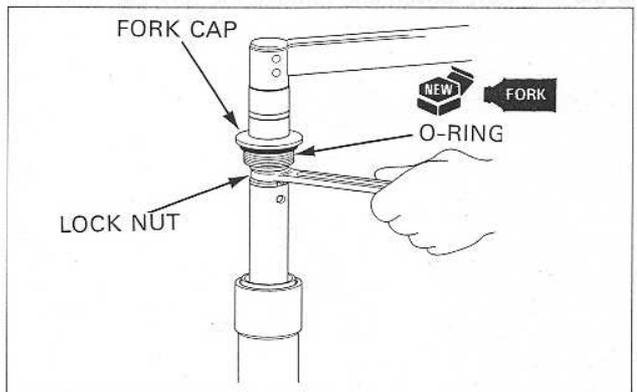


Install the new O-ring onto the fork cap.  
Apply fork fluid to the new O-ring.

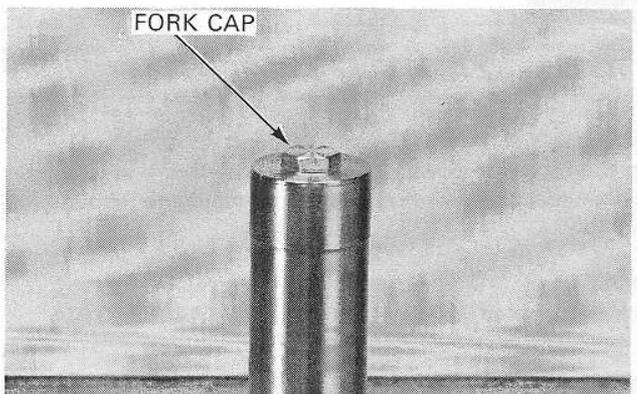
Hold the damper rod and screw the fork cap onto the damper rod.

Hold the lock nut and tighten the fork cap to the specified torque.

**TORQUE: 20 N·m (2.0 kgf·m, 14 lbf·ft)**



Screw the fork cap into the fork tube.



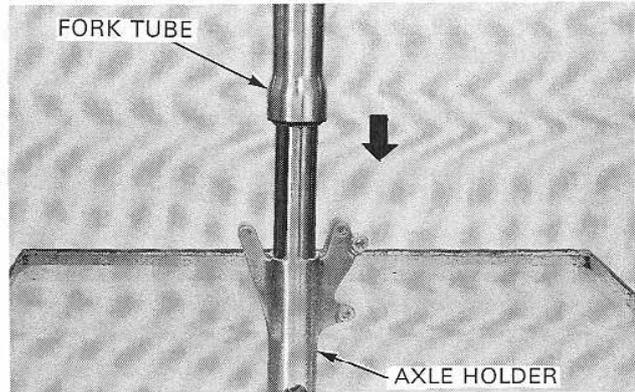
## FRONT WHEEL/SUSPENSION/STEERING

### LEFT FORK DISASSEMBLY

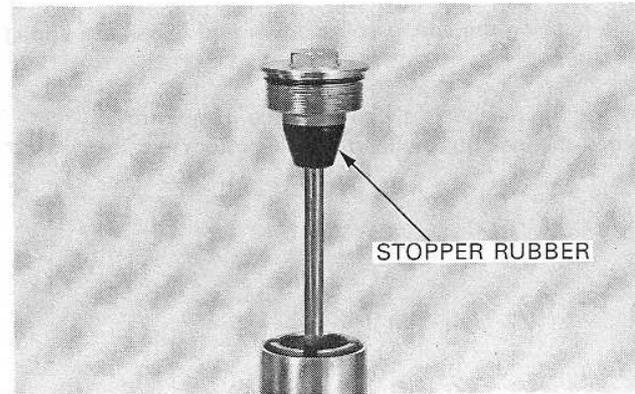
#### CAUTION

- *Be careful not to scratch the fork tube or damage the dust seal.*

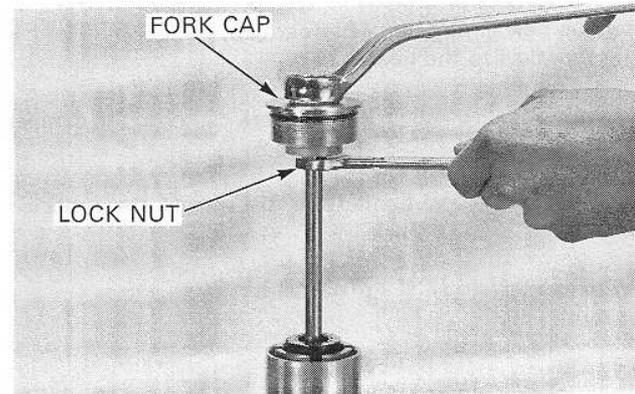
Hold the fork tube, remove the fork cap from the fork tube and slide the fork tube down onto the axle holder.



Slide the stopper rubber down.



Hold the lock nut, loosen and remove the fork cap from the rod.



#### ▲WARNING

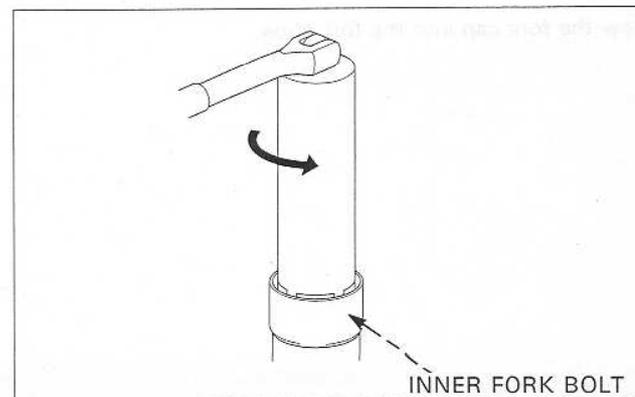
- *The inner fork bolt is under spring pressure. Use care when removing it and wear eye and face protection.*

Clamp the fork slider in a vise using soft jaws. Slip the fork tube down so that the inner fork bolt is visible. Remove the inner fork bolt and then remove the rebound rod assembly.

#### TOOL:

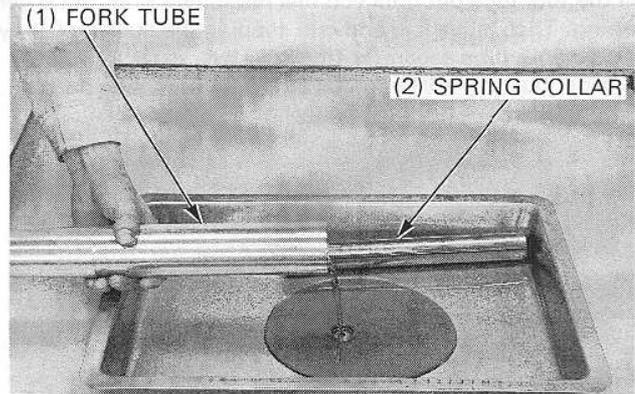
Lock nut wrench, 44 mm

07VMA-MZ0010A

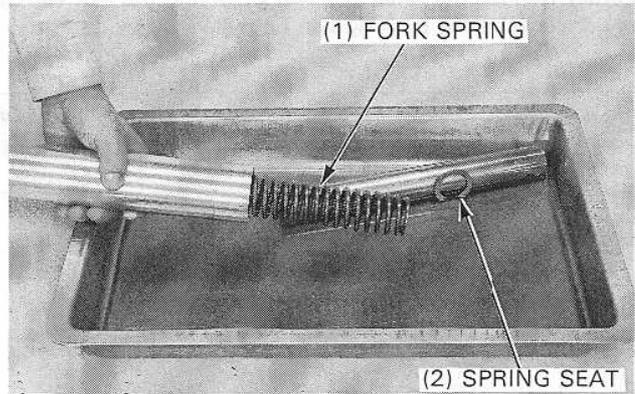


## FRONT WHEEL/SUSPENSION/STEERING

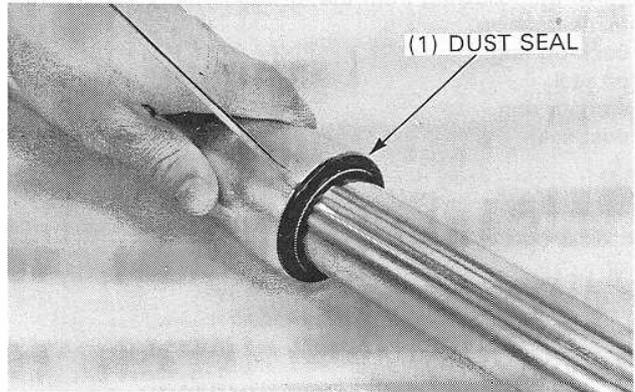
Remove the spring collar.  
Pour out the fork fluid while pumping the fork tube.



Remove the spring seat and fork spring.



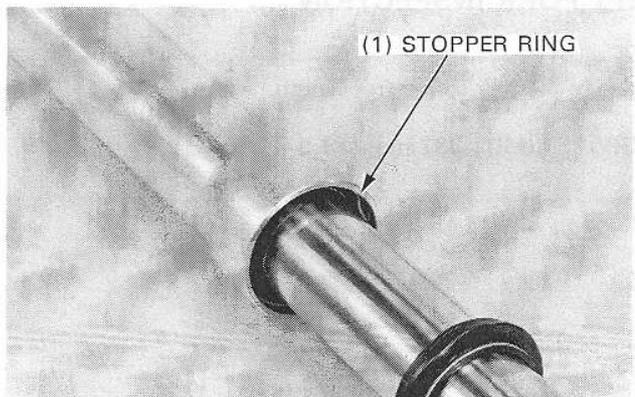
Remove the dust seal from the fork tube.



Remove the oil seal stopper ring.

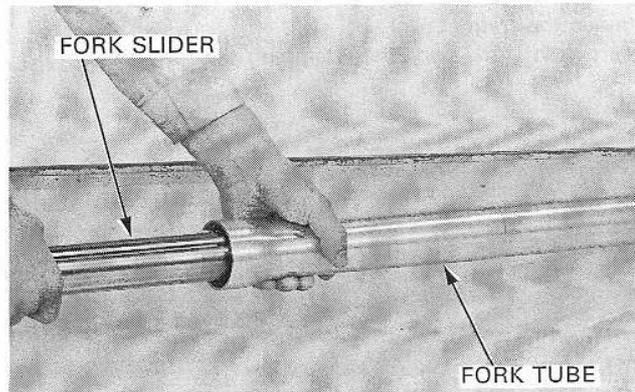
### CAUTION

- Do not scratch the fork tube sliding surface.



## FRONT WHEEL/SUSPENSION/STEERING

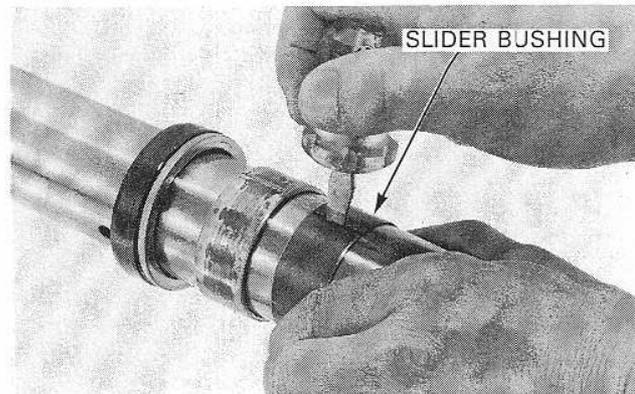
Pull the fork tube out until you feel resistance from the slider bushing. Then move it in and out, tapping the bushing lightly until the fork tube separates from the fork slider. The slider bushing will be forced out by the fork tube bushing.



Carefully remove the slider bushing by prying the slot with a screwdriver until the bushing can be pulled off by hand.

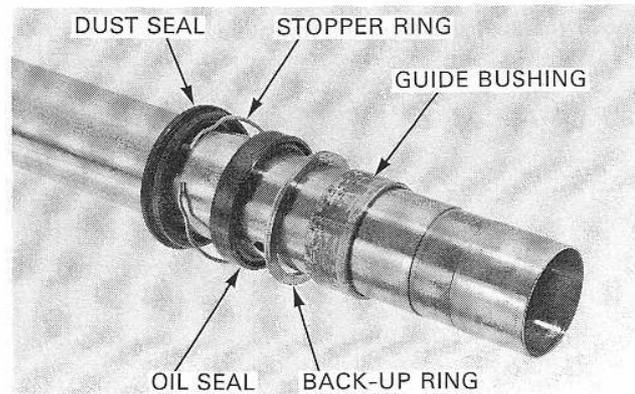
### CAUTION

- Do not damage the slider bushing, especially the sliding surface. To maintain rebound damping effectiveness, do not open the bushing more than necessary.



Remove the following from the fork slider:

- guide bushing.
- back-up ring.
- oil seal.
- stopper ring.
- dust seal.

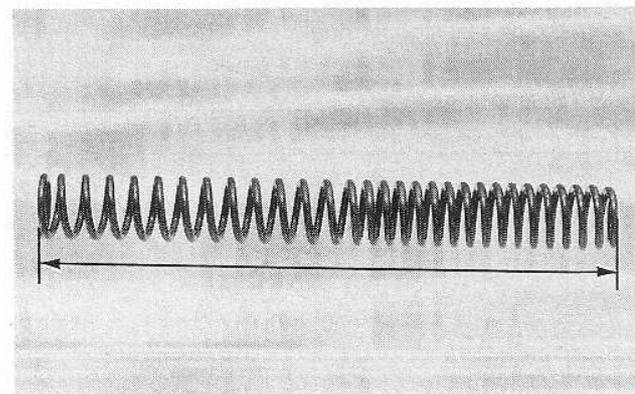


## LEFT FORK INSPECTION

### Fork spring

Measure the fork spring free length.

**SERVICE LIMIT: 337 mm (13.3 in)**

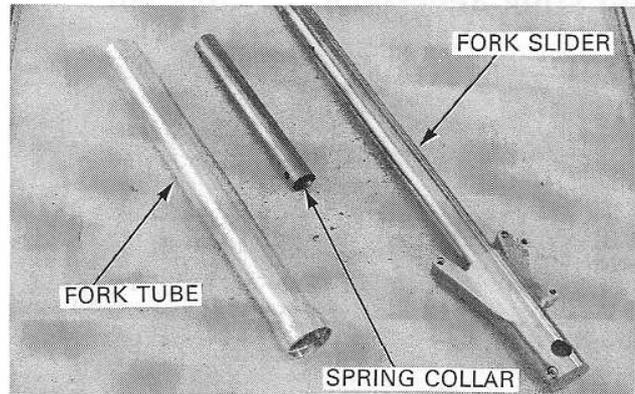


## FRONT WHEEL/SUSPENSION/STEERING

### Fork tube/slider/spring collar

Check the fork tube, fork slider and spring collar for score marks, scratches, or excessive or abnormal wear.

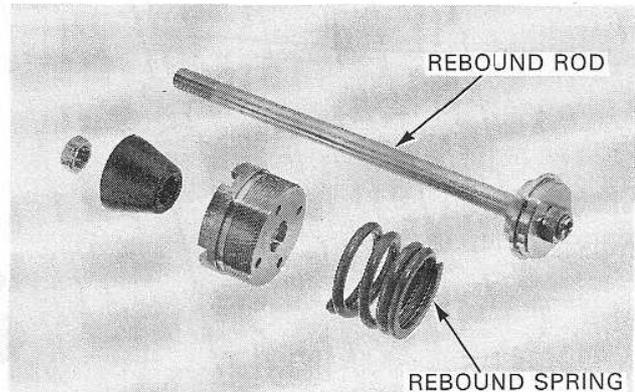
Replace any components which are worn or damaged.



### Rebound rod/spring

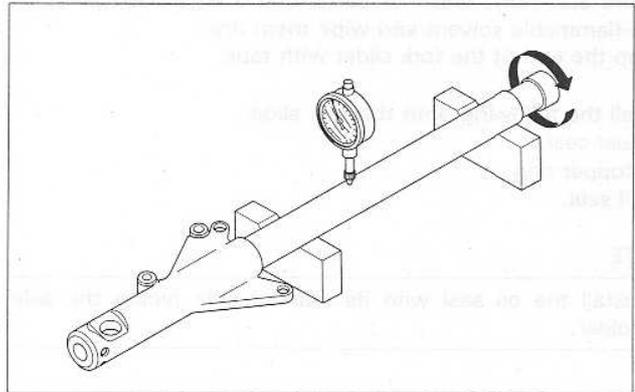
Check the rebound rod for bend or other damage.  
Check the rebound spring for fatigue or damage.

Replace the rebound rod assembly if any components are damaged.



Place the fork slider in V-blocks and measure the runout.  
Actual runout is 1/2 the total indicator reading.

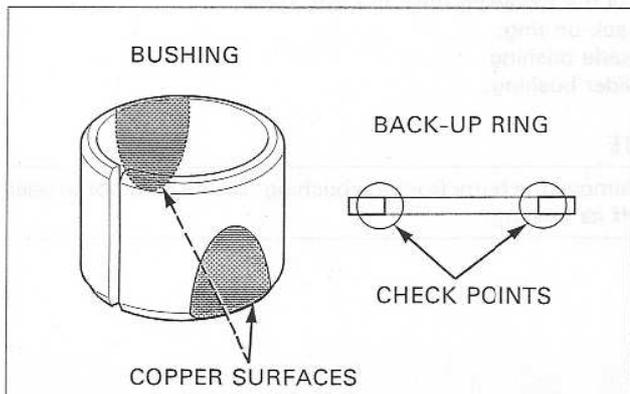
**SERVICE LIMIT: 0.20 mm (0.008 in)**



### Fork tube bushing

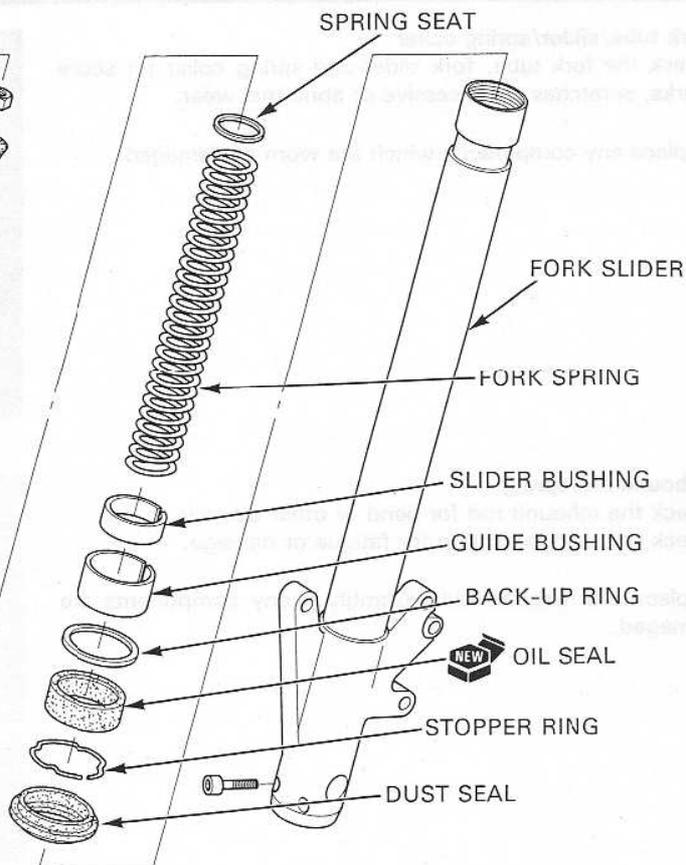
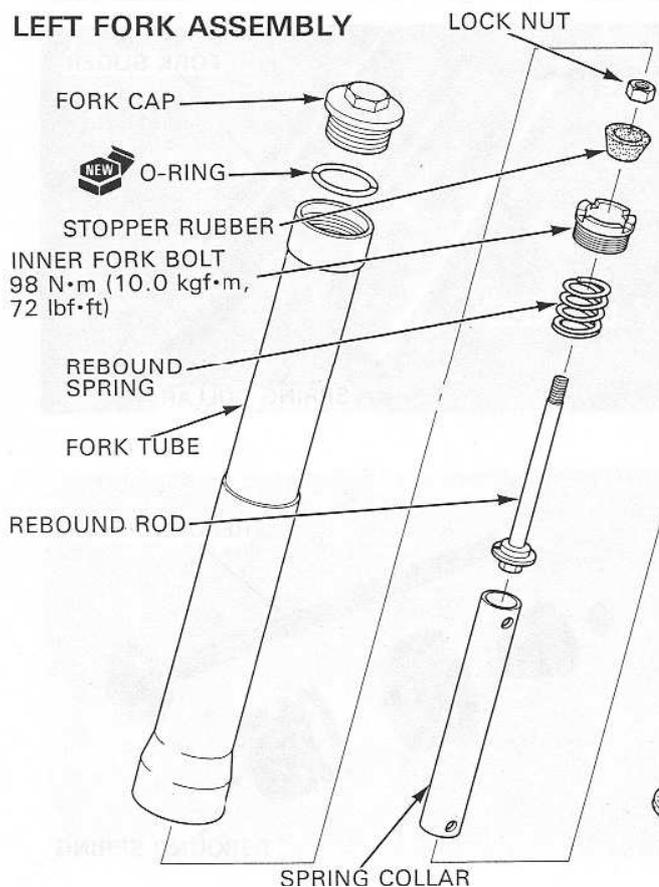
Visually inspect the fork slider and slider bushings.  
Replace the bushings if there is excessive scoring or scratching, or if the teflon is worn so that the copper surface appears on more than 3/4 of the entire surface.

Check the back-up ring; replace it if there is any distortion at the points shown.



## FRONT WHEEL/SUSPENSION/STEERING

### LEFT FORK ASSEMBLY



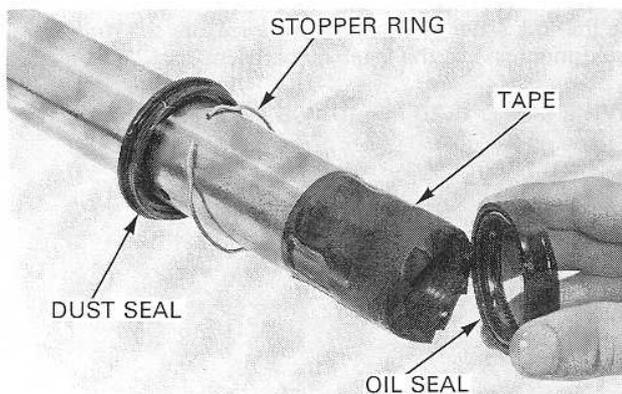
Before assembly, wash all parts with a high flash point or non-flammable solvent and wipe them dry. Wrap the end of the fork slider with tape.

Install the following onto the fork slider.

- dust seal.
- stopper ring.
- oil seal.

#### NOTE

- Install the oil seal with its marked side facing the axle holder.

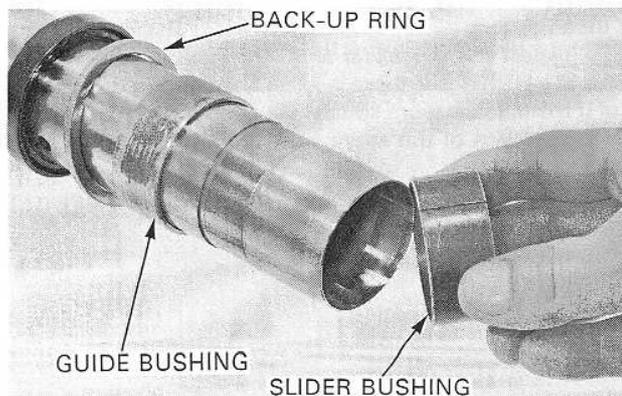


Install the following onto the fork slider.

- back-up ring.
- guide bushing.
- slider bushing.

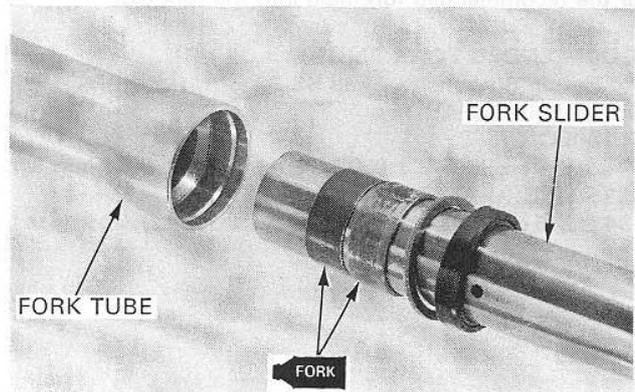
#### NOTE

- Remove the burrs from the bushing, taking care not to peel off its coating.



## FRONT WHEEL/SUSPENSION/STEERING

Coat the slider and guide bushings with the recommended fork fluid and install the slider into the fork tube.

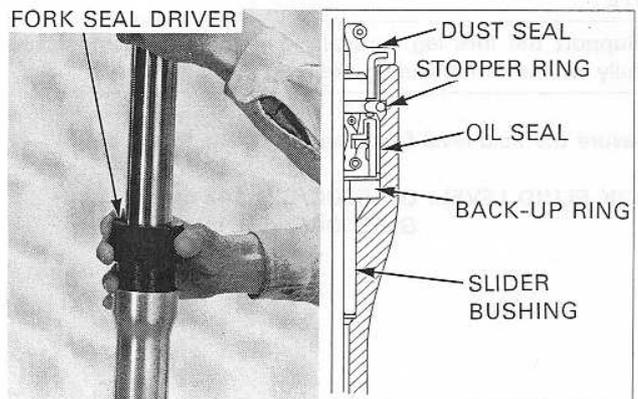


Drive the oil seal in using the special tool.

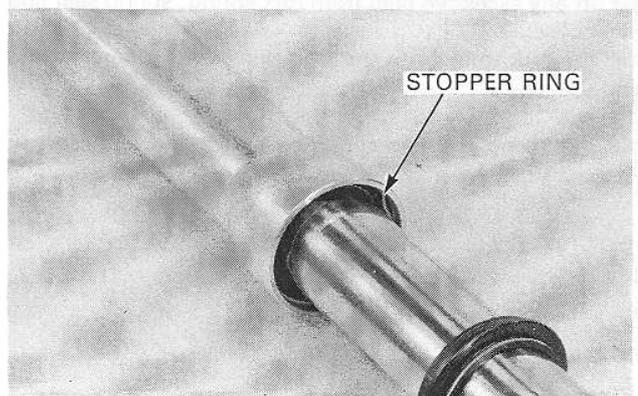
### TOOL:

Fork seal driver, 45 mm

07KMD-KZ30100 or  
07KMD-KZ3010A  
(U.S.A. only)



Install the stopper ring into the fork slider groove securely.



Install the dust seal.



## FRONT WHEEL/SUSPENSION/STEERING

Pour the recommended fork fluid into the fork leg.

### RECOMMENDED FORK FLUID:

Pro Honda Suspension Fluid SS-8

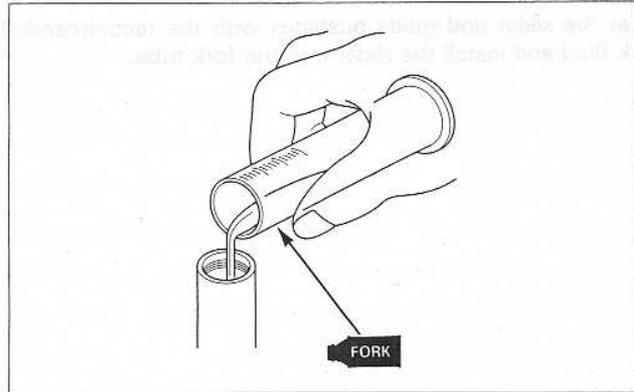
### FORK FLUID CAPACITY:

GL1500C/CT:

$744 \pm 2.5 \text{ cm}^3$  (25.2  $\pm$  0.08 US oz, 26.2  $\pm$  0.09 Imp oz)

GL1500CF:

$734 \pm 2.5 \text{ cm}^3$  (24.8  $\pm$  0.08 US oz, 25.8  $\pm$  0.09 Imp oz)

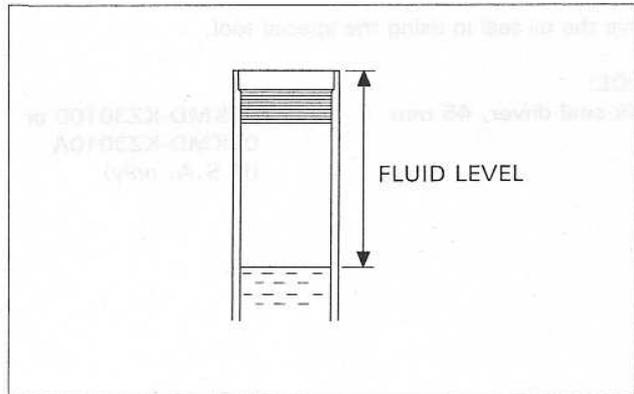


### NOTE

- Support the fork leg vertically and the fork compressed fully whenever measuring the fluid level.

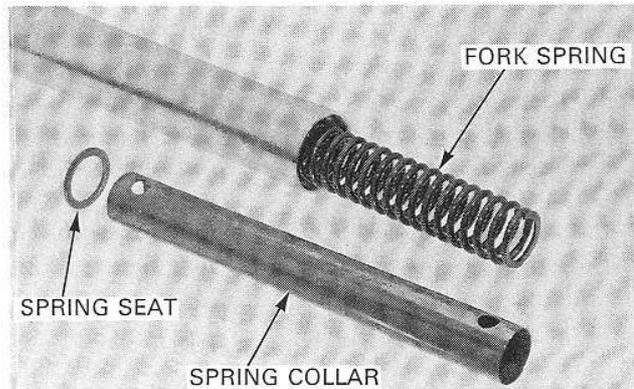
Measure the fluid level from the top of the fork tube.

**FORK FLUID LEVEL:** GL1500C/CT: 142 mm (5.6 in)  
GL1500CF: 148 mm (5.8 in)

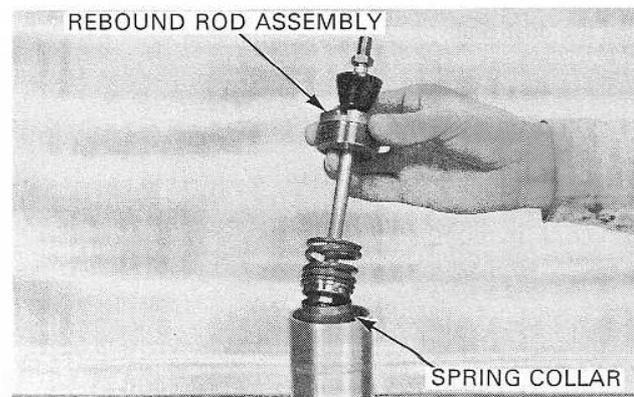


Wipe off any excessive fluid from fork spring, spring seat and spring collar.  
Install the fork spring into the fork slider with it tapered end facing up.

Install the spring seat and spring collar into the fork slider.



Install the rebound rod assembly into the spring collar.



## FRONT WHEEL/SUSPENSION/STEERING

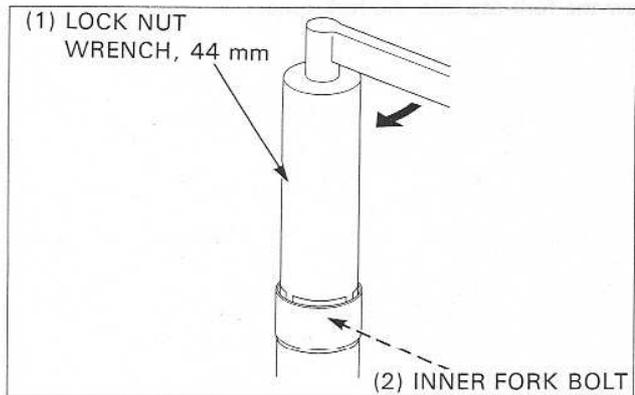
Pushing down and tighten the inner fork bolt to the specified torque.

### TOOL:

Lock nut wrench, 44 mm

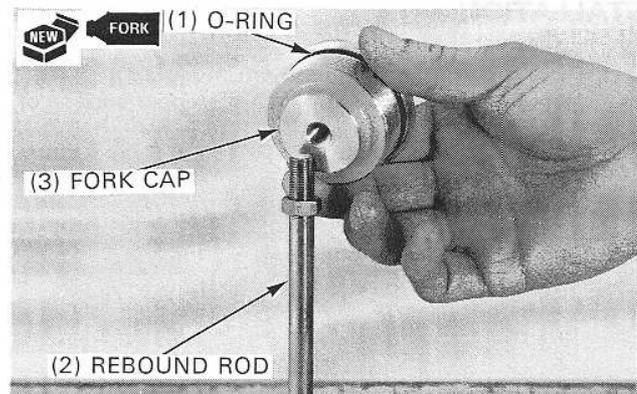
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TORQUE: 98 N·m (10.0 kgf·m, 72 lbf·ft)



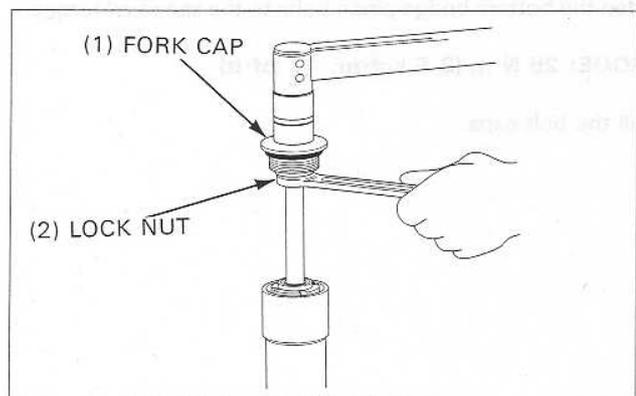
Install the new O-ring onto the fork cap.  
Apply fork fluid to the new O-ring.

Install the fork cap onto the rebound rod.

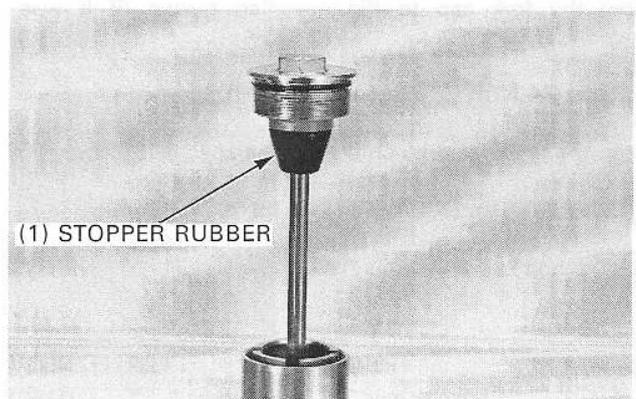


Hold the lock nut and tighten the fork cap to the specified torque.

TORQUE: 20 N·m (2.0 kgf·m, 14 lbf·ft)

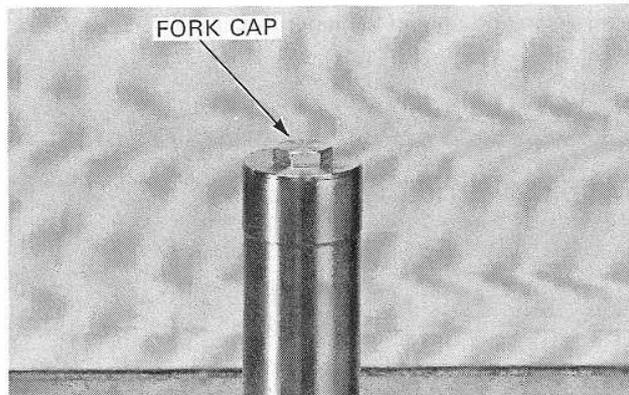


Slide the stopper rubber up.



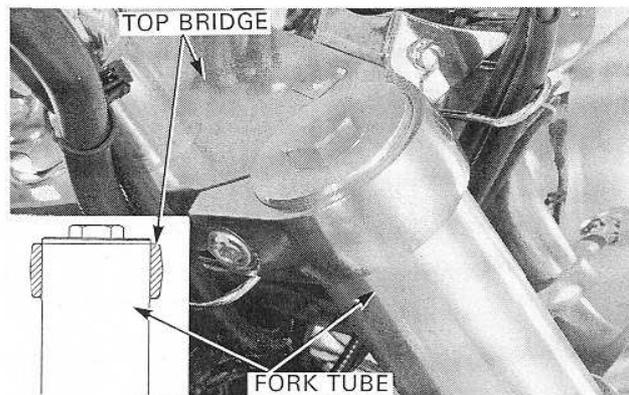
## FRONT WHEEL/SUSPENSION/STEERING

Screw the fork cap into the fork tube.



### INSTALLATION

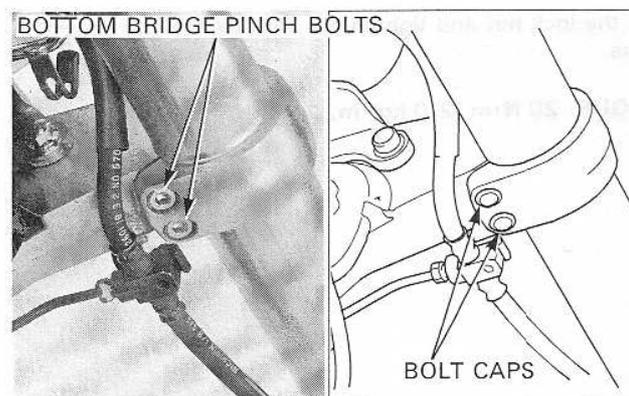
Install the fork legs into the steering stem and fork top bridge. Align the top end of the fork tube with the upper surface of the top bridge as shown.



Tighten the bottom bridge pinch bolts to the specified torque.

**TORQUE: 25 N·m (2.5 kgf·m, 18 lbf·ft)**

Install the bolt caps.



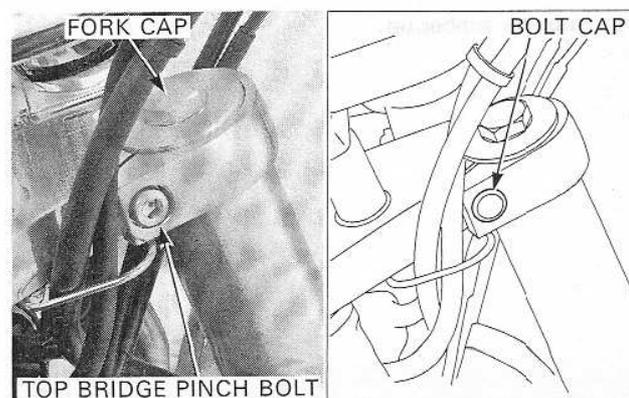
Tighten the fork cap to the specified torque (if it was removed).

**TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)**

Tighten the top bridge pinch bolt to the specified torque.

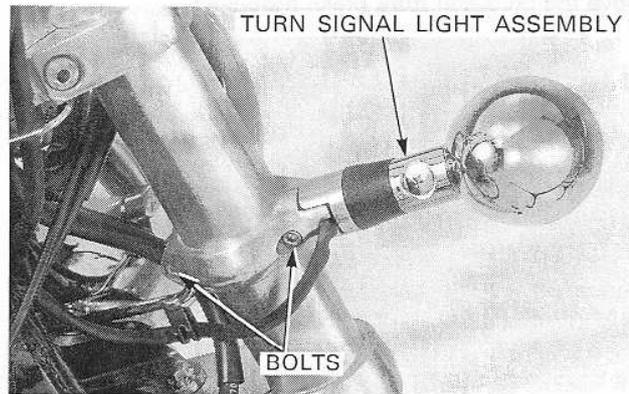
**TORQUE: 55 N·m (5.6 kgf·m, 41 lbf·ft)**

Install the bolt cap.

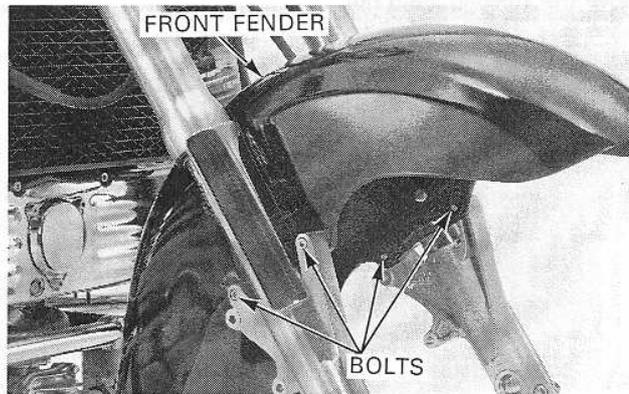


## FRONT WHEEL/SUSPENSION/STEERING

Install the turn signal light assembly and tighten the bolts (GL1500C/CT only).

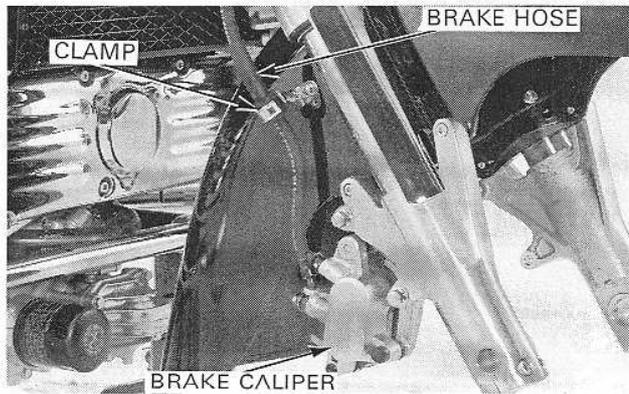


Install the front fender and tighten the bolts.



Install the brake hose and clamp to the front fender and tighten the bolts.

Install the front wheel (page 13-13).  
Install the right and left brake calipers (page 15-19).



## STEERING STEM

### REMOVAL

Remove the following:

- headlight and headlight case (GL1500C/CT: page 19-4).
- meters (GL1500C/CT: page 19-6).
- handlebar (page 13-3).
- front wheel (page 13-8).
- front fender (page 13-16).
- front fairing, fairing stay, stay brackets (GL1500CF: page 2-7).

Remove the harness guide, cable guide and handlebar lower holders if necessary.

