



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



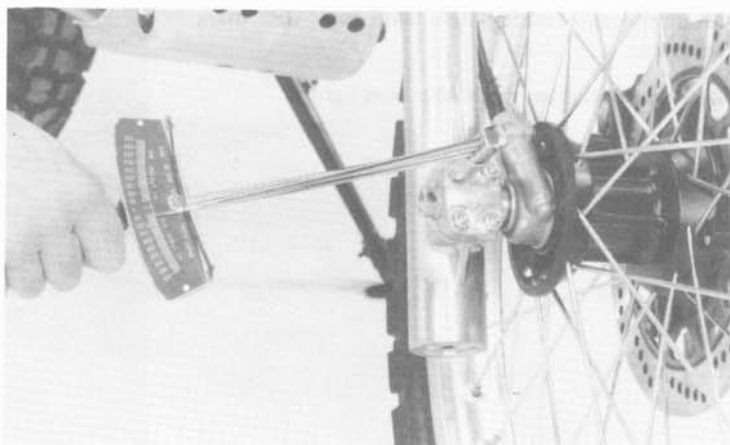
[www.hxl.it](http://www.hxl.it)



Torque the axle shaft holder nuts, the upper nuts first, then the lower nuts in 2-3 steps.

**TORQUE: 10–14 N·m**  
(10–14 kg-m,

Install the front fork guard.



## FRONT FORK

### REMOVAL

Remove the front wheel.

Loosen the fork boot clamp screw.

Remove the speedometer cable from the clamp on the right fork.

Remove the brake caliper from the left fork.

Remove the brake hose from the brake hose clamp.

Loosen the top and bottom fork pinch bolts.

Remove the front forks.

Remove the fork boot.



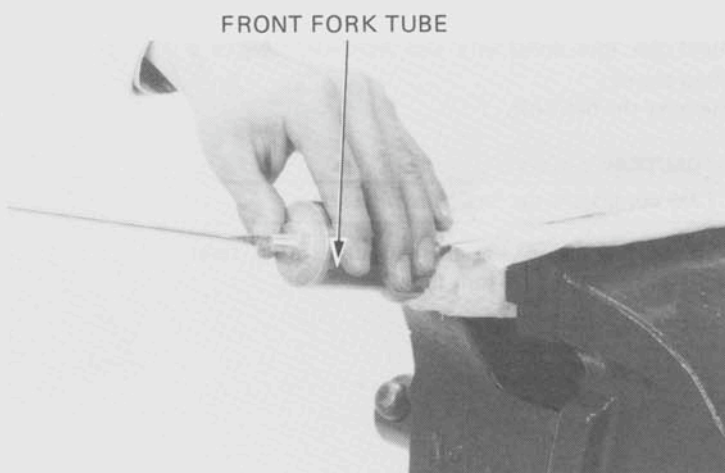


## DISASSEMBLY

Remove the air valve cap.  
Release the air from each fork tube.

### WARNING

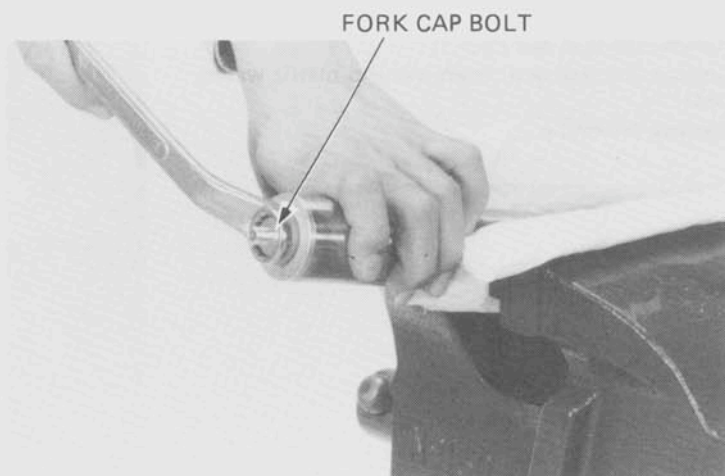
*Be sure to release front fork air pressure before disassembling to prevent parts from becoming projectiles.*



Drain the fork oil by removing the drain plug;  
Hold the tube in a vise with soft jaws or a shop towel, avoiding the sliding surface.  
Remove the fork cap bolt.

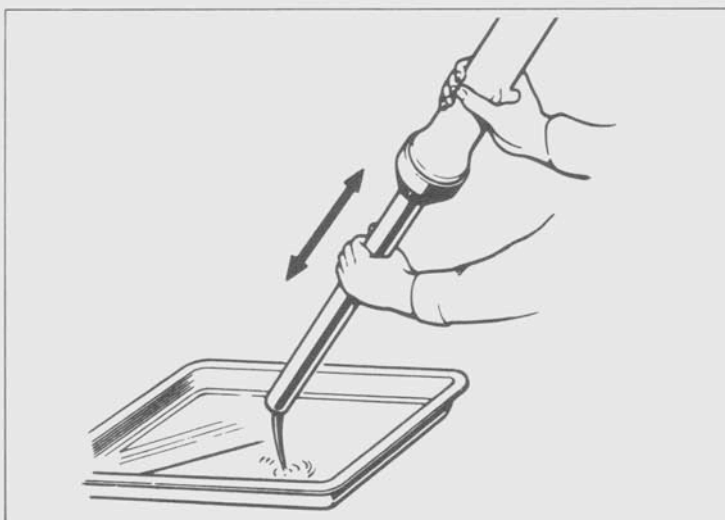
### WARNING

*The cap bolts are under spring pressure. Use care when removing and wear eye and face protection.*



Remove the fork spring.

Pour out any remaining fork fluid by pumping the fork several times.



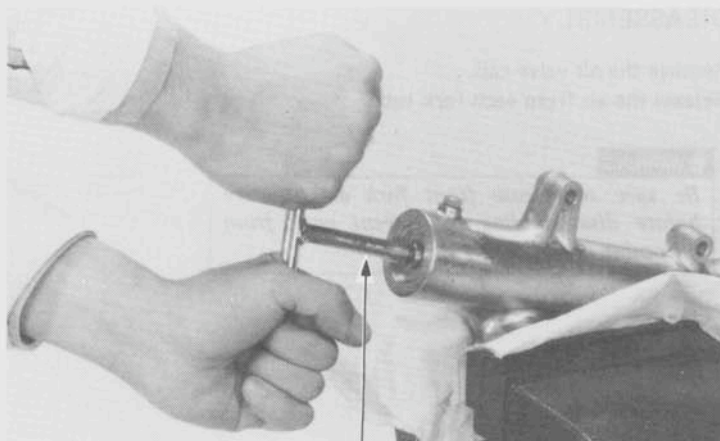


Hold the fork slider in a vise with soft jaws or a shop towel.  
Remove the hex bolt.

**CAUTION**

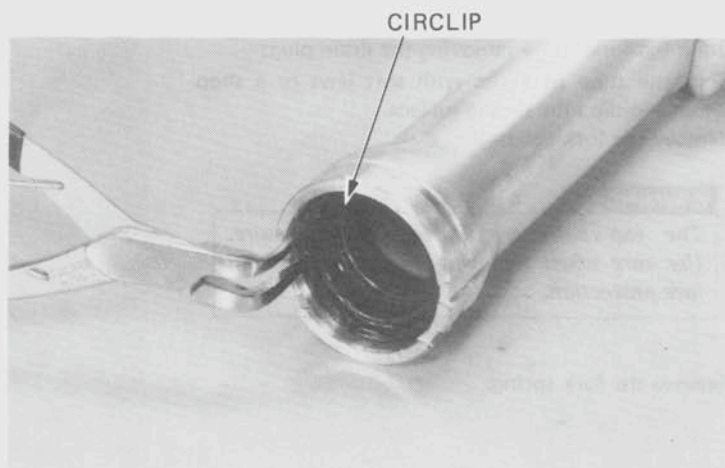
*Do not distort the fork slider in a vise.*

Remove the piston and the rebound spring, then separate the slider and fork tube.



6 mm HEX WRENCH

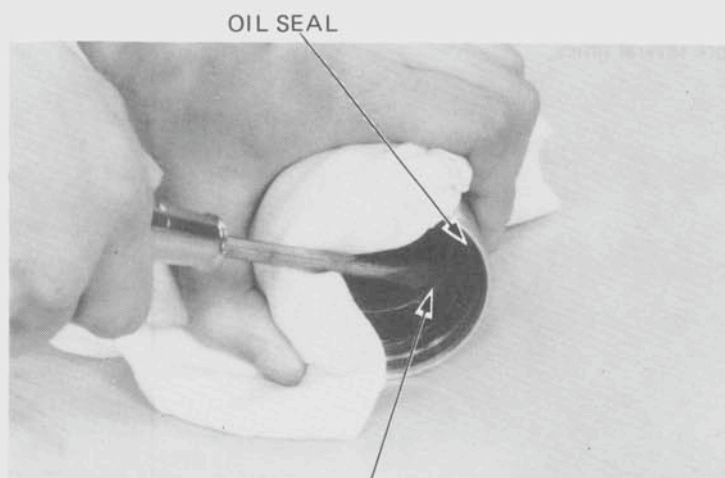
Remove the dust seal ('83).  
Remove the dust seal, foam seal and plastic washer ('84).  
Remove the circlip.



Remove the oil seal, and the back-up ring.

**NOTE**

Avoid damaging the inner and outer surfaces of the fork slider when removing the circlip and the oil seal.

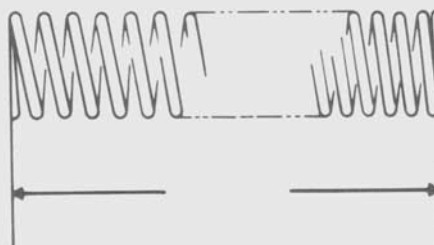




**INSPECTION  
FORK SPRING**

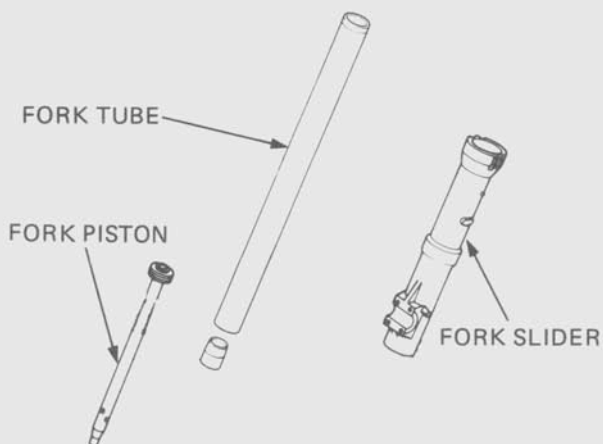
Measure the fork spring free length.  
**SERVICE LIMIT: 557 mm (21.93 in)**

**SERVICE LIMIT: 554.3 mm (21.82 in)**



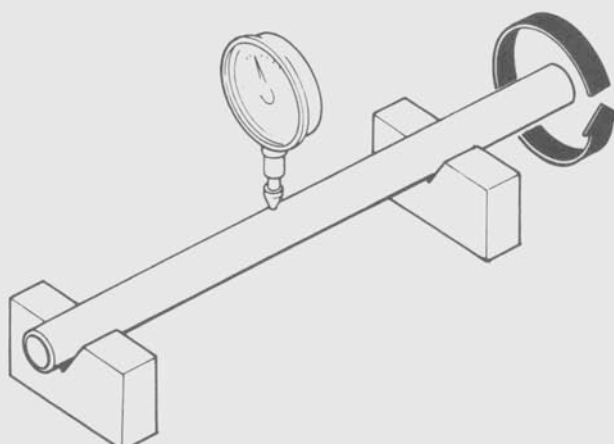
**FORK TUBE/FORK PISTON/SLIDER**

Check the fork tube, fork slider and piston for score marks, scratches, excessive or abnormal wear. Replace if necessary.



Set the fork tube on V blocks and measure the run out.

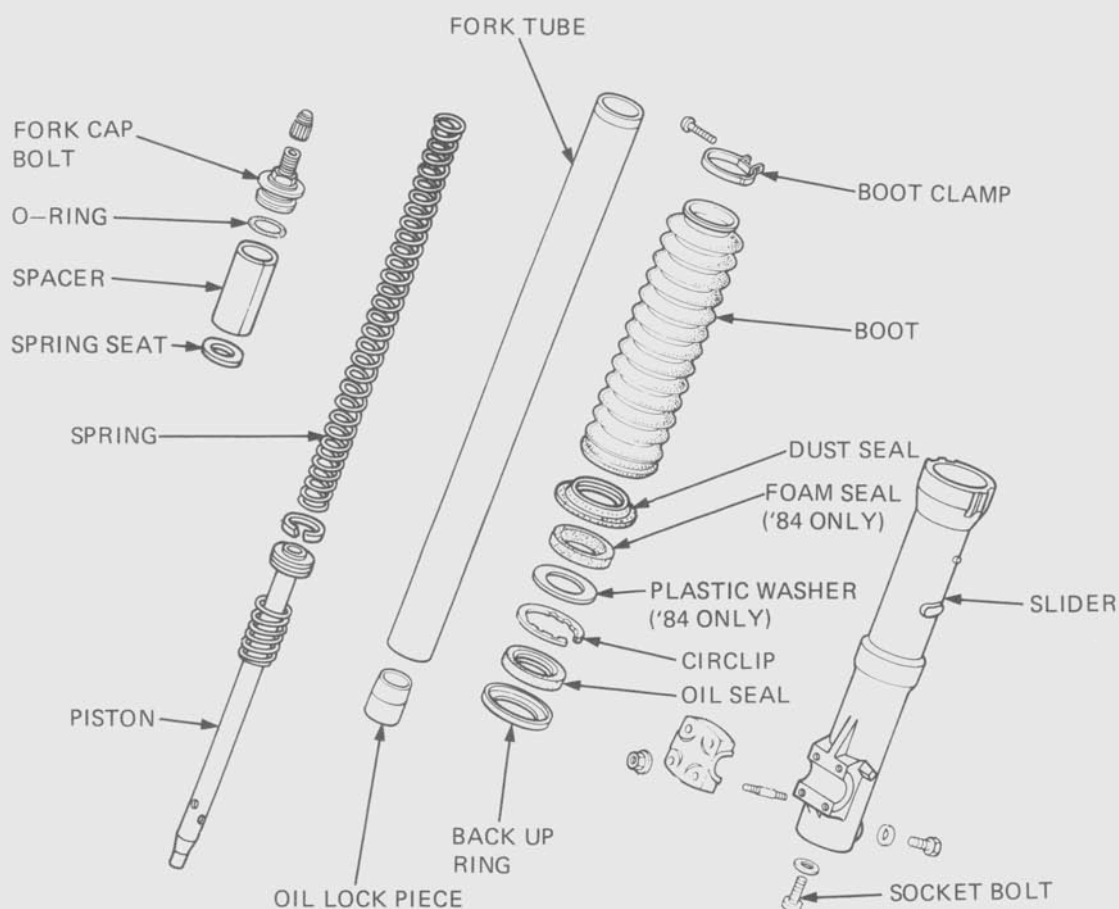
**SERVICE LIMIT: 0.2 mm (0.08 in)**







ASSEMBLY

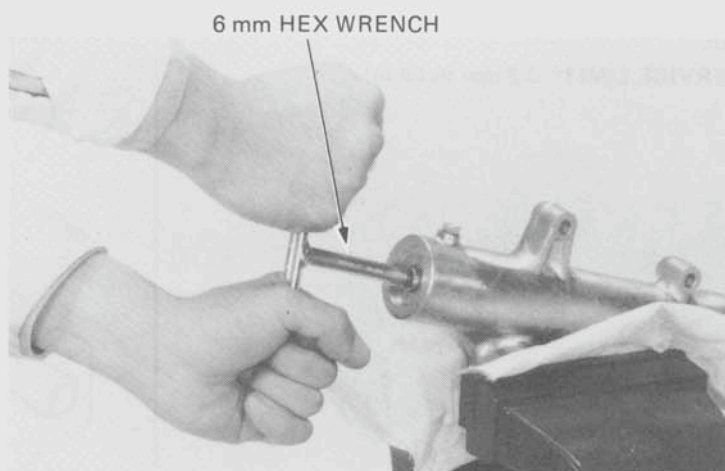


Place the fork slider in a vise with soft jaws or a shop towel.

Apply a locking agent to the socket bolt threads and torque the bolt.

Temporarily install the fork springs, spring seating washer, spacer and fork tube cap to tighten the socket bolt. Remove them after the socket bolt is torqued.

**TORQUE:** 15–25 N·m  
(1.5–2.5 kg-m, 11–18 ft-lb)





Check the groove and top edge of the fork tube for burrs or scratches.

Wrap the fork tube groove or top edge with vinyl tape to prevent damage to the oil seal lip, during installation.

Install the back-up ring.

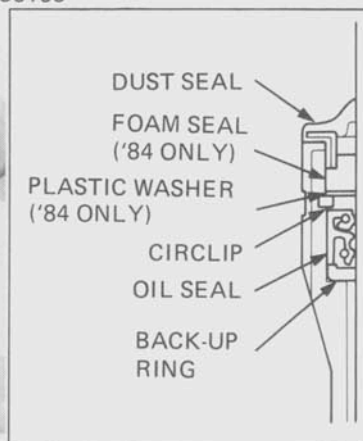
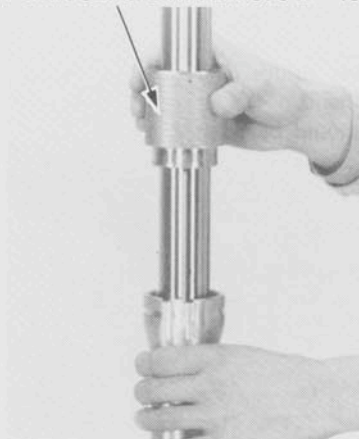
Coat a new oil seal with ATF and install it with the seal mark facing up.

Drive the oil seal in with the seal driver.

Install the circlip into the groove of the slider with the sharp edge facing up.

Install the plastic washer, foam seal and dust seal.

FORK SEAL DRIVER 07947-4630100



Pour in the specified amount of ATF.

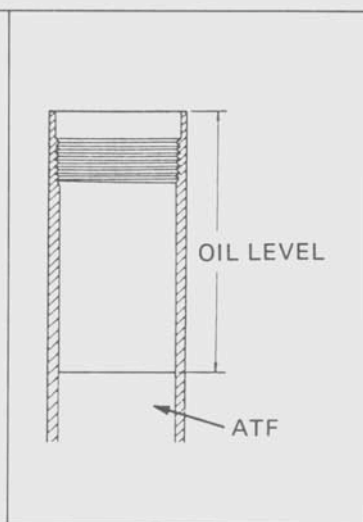
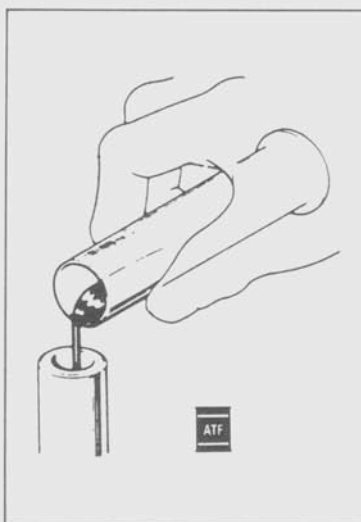
**CAPACITY: 455 cc (15.4 oz)**

Compress the front fork and measure the oil level from the top of the tube.

#### NOTE

Be sure the oil level is the same in both fork tubes.

**STANDARD OIL LEVEL: 150 mm (5.9 in)**



Wipe all oil from the fork springs and install them into the fork tubes with the narrow coils toward the bottom as shown.

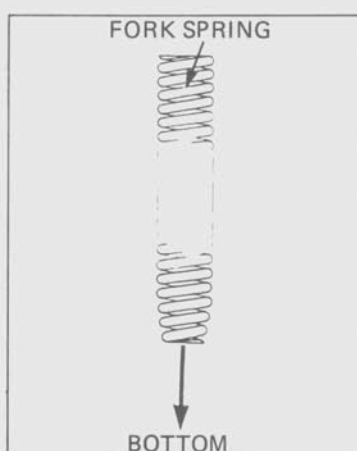
Install the fork spring seat and spacers.

Install and torque the fork cap.

**TORQUE: 15-30 N·m (1.5-3.0 kg-m, 11-22 ft-lb)**

#### CAUTION

Be careful not to cross-thread the fork caps.

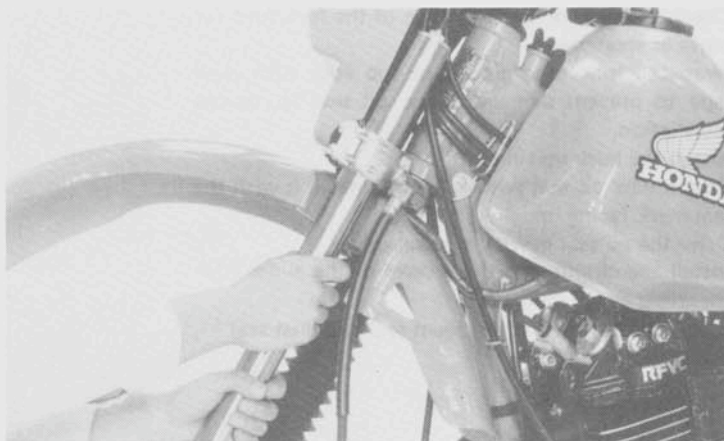




## INSTALLATION

Install the fork tubes through the bridge and steering stem while rotating them by hand.

The bottom edge of the fork cap should be flush with the top of the fork bridge.



Tighten the fork top bridge pinch bolt and steering stem pinch bolts.

### TORQUE:

Fork top bridge: 18–30 N·m  
Pinch bolt (1.6–3.0 kg-m, 13–22 ft-lb)

Fork bottom bridge: 30–35 N·m  
Pinch bolt (3.0–3.5 kg-m, 22–25 ft-lb)

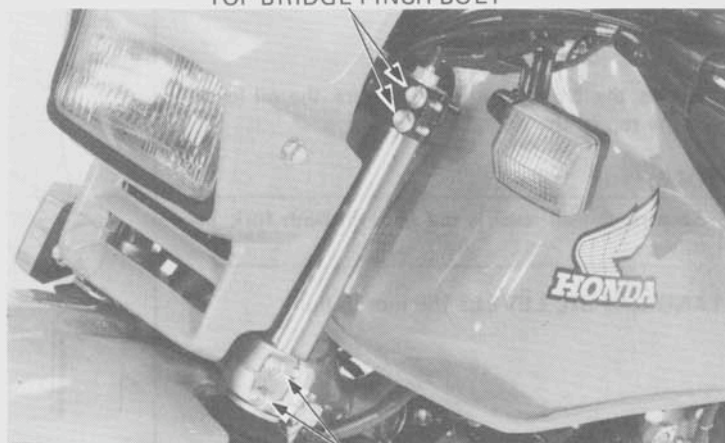
Push the fork boots up until they just touch the steering stem and tighten the clamps.

Add air pressure to each fork, as necessary, and reinstall the air valve caps.

### NOTE

Make sure the cable routing.

TOP BRIDGE PINCH BOLT



BOTTOM BRIDGE PINCH BOLT

## STEERING STEM

### FORK TOP BRIDGE REMOVAL

Remove the headlight. (Page 12-3)

Disconnect the wires at the connectors.

Remove the following parts:

Speedometer (Page 12-4)

Horn

Speedometer cable guide

Brake hose joint bolt

Instrument bracket

Handlebar (Page 12-5)

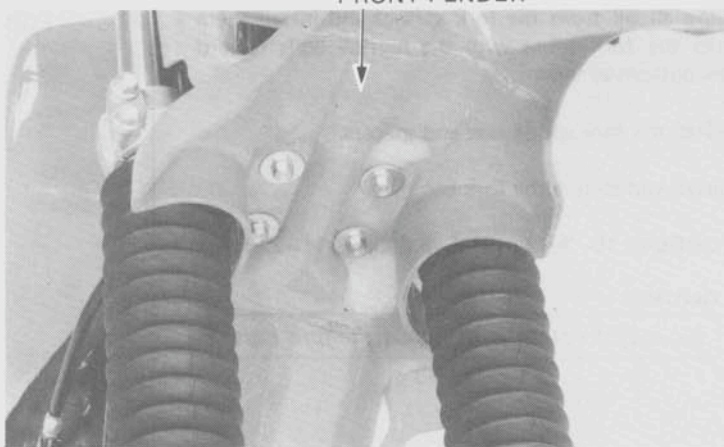
Front wheel (Page 12-8)

Front fender

Front fork (Page 12-14)

Front brake caliper

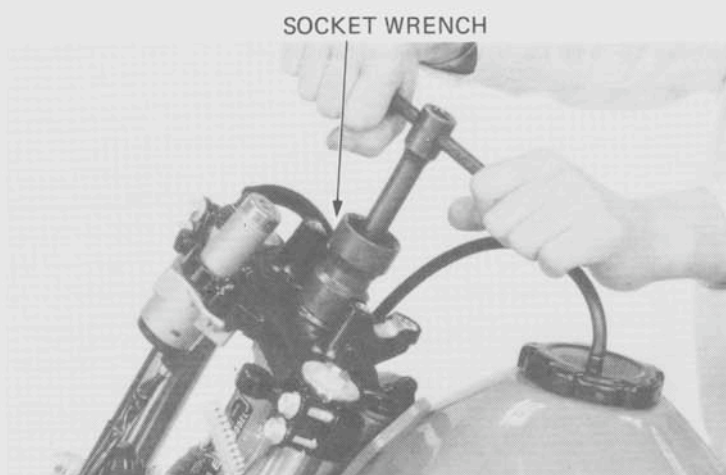
FRONT FENDER







Remove the steering stem nut.  
Loosen the fork bridge bolts and remove the bridge.  
Remove the front fork tube assemblies.

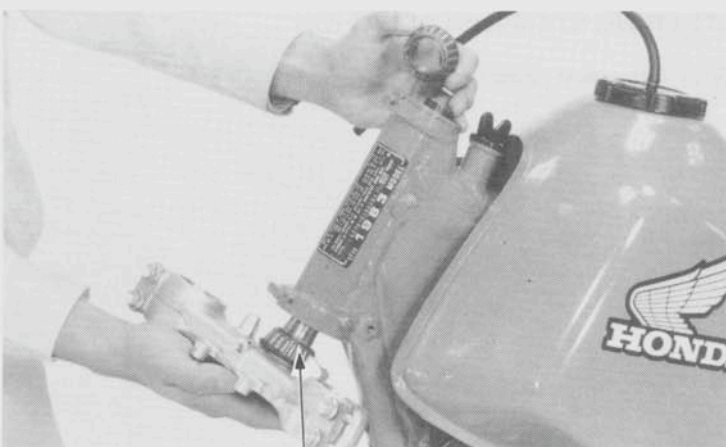


#### STEERING HEAD ADJUSTER REMOVAL

Remove the rubber cover.  
Remove the steering head adjuster.



Remove the steering stem.



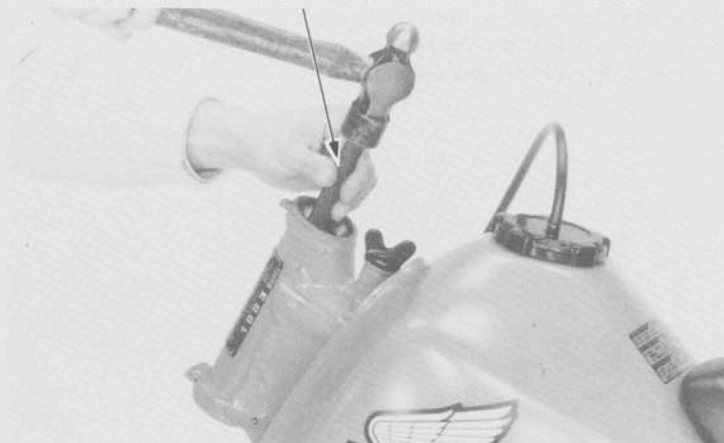
STEERING SOCKET





Remove the inner races with the ball race driver.

RACE REMOVER 07953-4250002 or 07953-KA50000

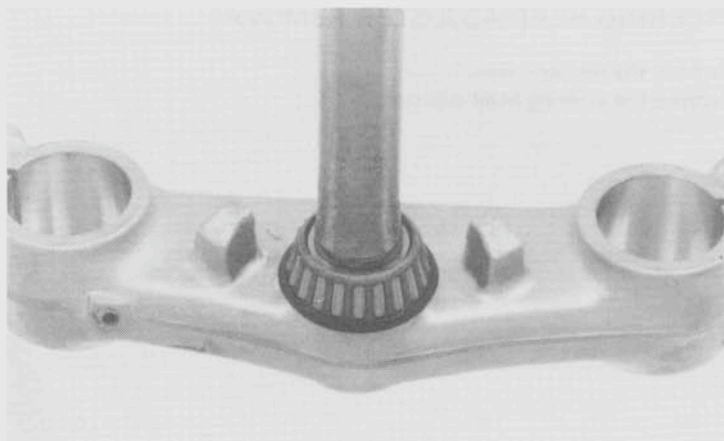


## BEARING REPLACEMENT

### NOTE

Always replace the bearing and bearing races as a set.

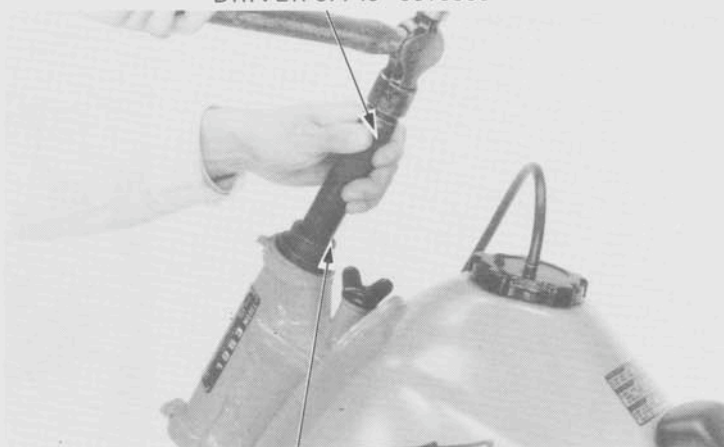
Remove the lower bearing from the steering stem.



## STEERING STEM INSTALLATION

Drive in the inner races.

DRIVER 07749-0010000



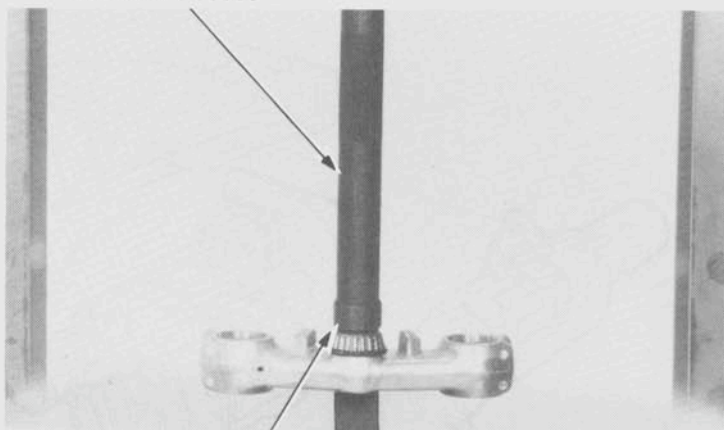
BALL RACE DRIVER 07946-4300100 or  
ATTACHMENT, 42 x 47 mm 07746-0010300



Install the dust seal.

Install the lower tapered roller bearing using a hydraulic press and Steering Stem Driver and Attachment.

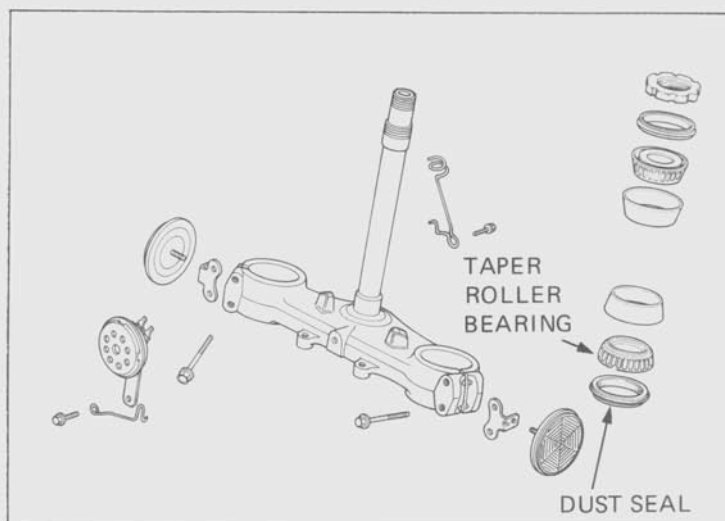
STEERING STEM DRIVER  
07946-MB00000



ATTACHMENT  
GN-HT-54 (U.S.A. only)

Install the upper taper roller bearing in the steering head.

Slide the steering stem through the steering head from the bottom.



Install the steering head adjusting nut and torque with the steering stem socket.

**TORQUE: 1-2 N·m**  
(0.1-0.2 kg-m, 0.7-1.4 ft-lb)

Install the rubber cover.

Install the fork bridge.

Tighten the steering stem nut.

**TORQUE: 80-120 N·m**  
(8.0-12.0 kg-m, 58-87 ft-lb)

Install the:

front forks (Page 12-20)

front fender

front wheel (Page 12-13)

handlebar (Page 12-6)

Install the speedometer and headlight.

Connect the wiring.

STEERING STEM SOCKET 07916-3710100

