

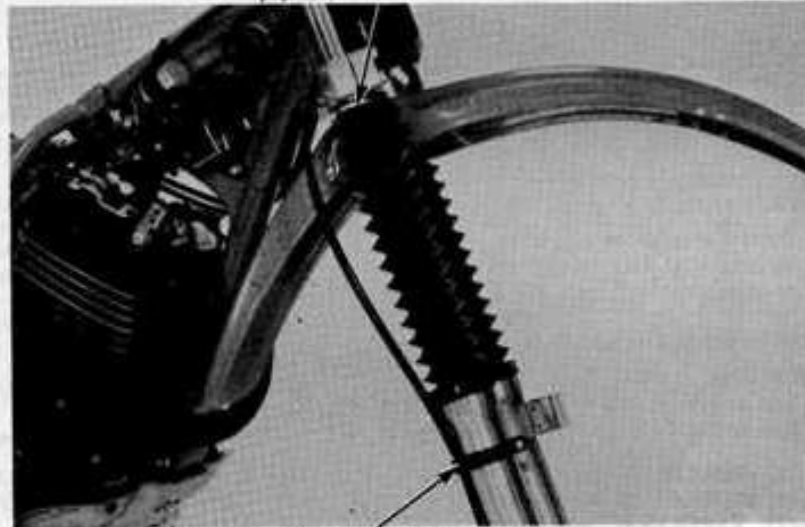
● FRONT FORK

**Removal:**

Remove the front wheel.  
Loosen the fork boot clamp screws.

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

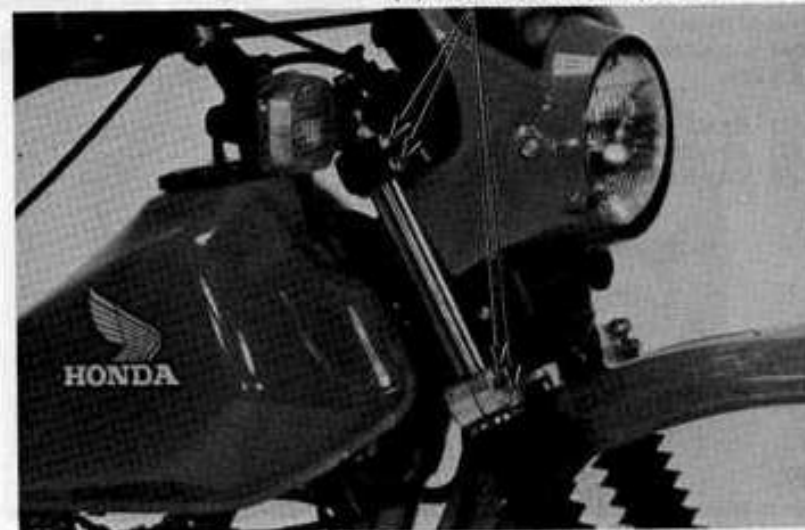
(1) BOOT CLAMP



(2) SPEEDOMETER CABLE CLAMP

Loosen the upper and lower fork pinch bolts.  
Remove the front forks.  
Remove the fork boot.

(1) FORK PINCH BOLTS



**Disassembly:**

Release the air from each fork tube by pressing the air valve core.

**WARNING**

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

Hold the tube in a vise with soft jaws or a shop towel, avoiding the sliding surface.  
Remove the fork cap bolt.

(1) AIR VALVE (2) FORK CAP BOLT

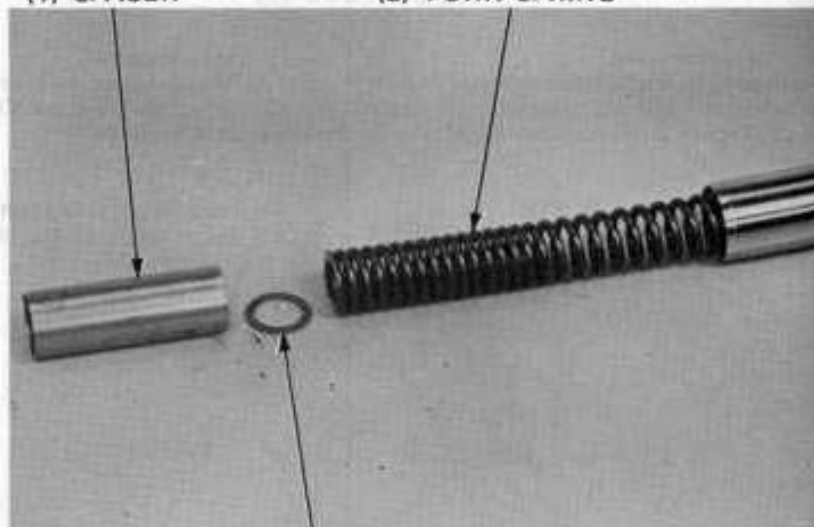


**WARNING**

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

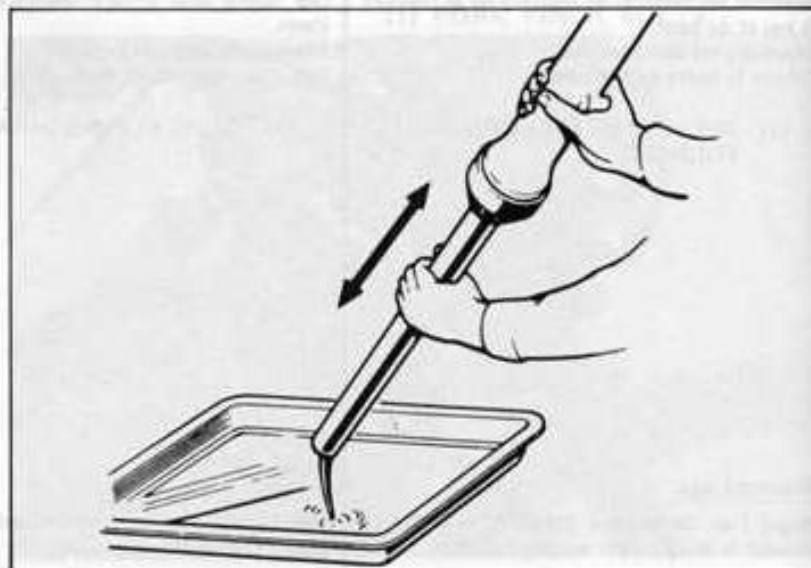
Remove the spacer, seat washer and fork spring from the fork tube.

(1) SPACER (2) FORK SPRING



(3) SEAT WASHER

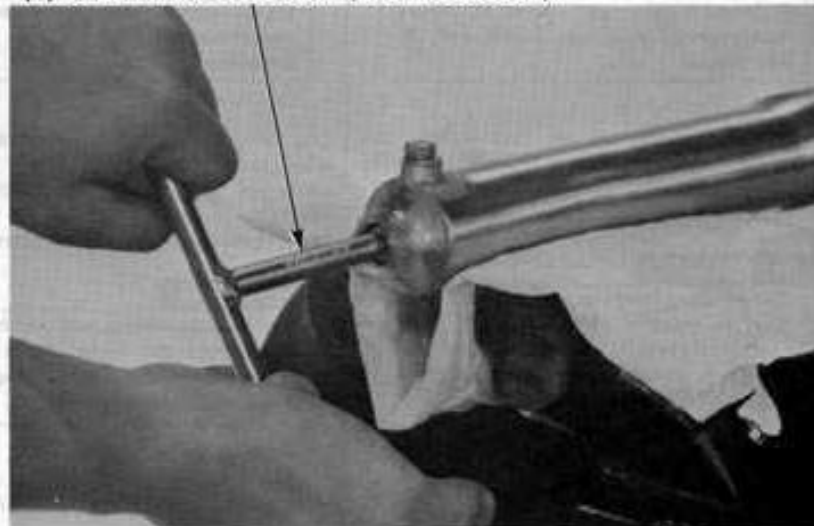
Pour out any remaining fork fluid by pumping the fork several times.



Hold the fork slider in a vise with soft jaws or a shop towel and hold the fork piston with a holder.

Remove the hex bolt.

(1) 6 mm HEX WRENCH (07917-3230000)



**CAUTION**

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

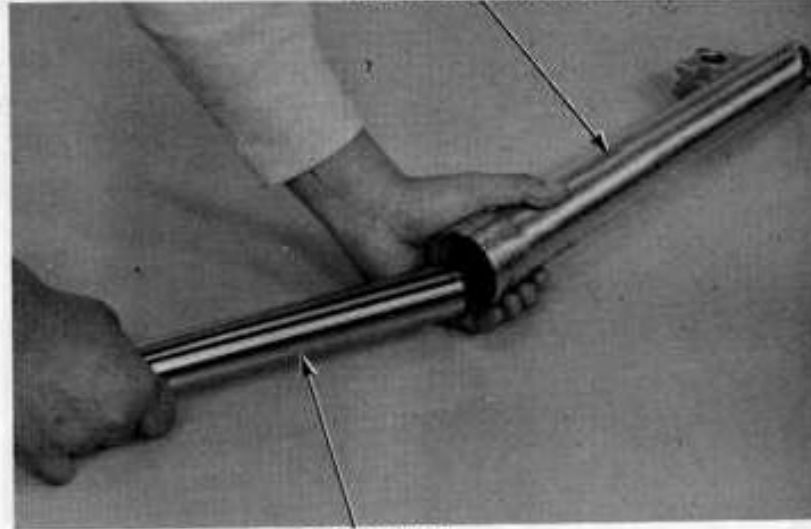


(1) FORK SLIDER

Pull the fork tube out of the slider.

Remove the fork piston from the fork tube.

Remove the oil lock piece from the fork slider.

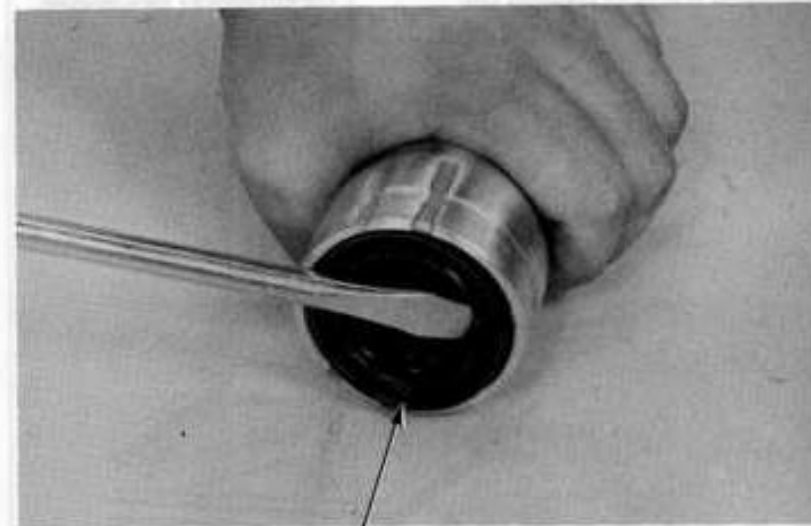


(2) FORK TUBE

Remove the dust seal using a screwdriver with a dull or rounded edge.

**NOTE**

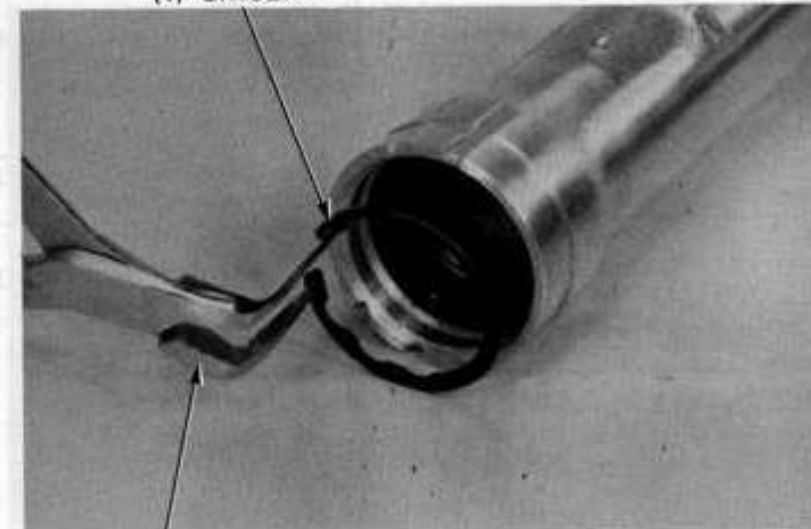
- Avoid damage the inner and outer surfaces of the fork slider when removing the oil seal.
- If the dust seal is removed, replace it with new one.



(1) DUST SEAL

(1) CIRCLIP

Remove the circlip with snap-ring pliers.



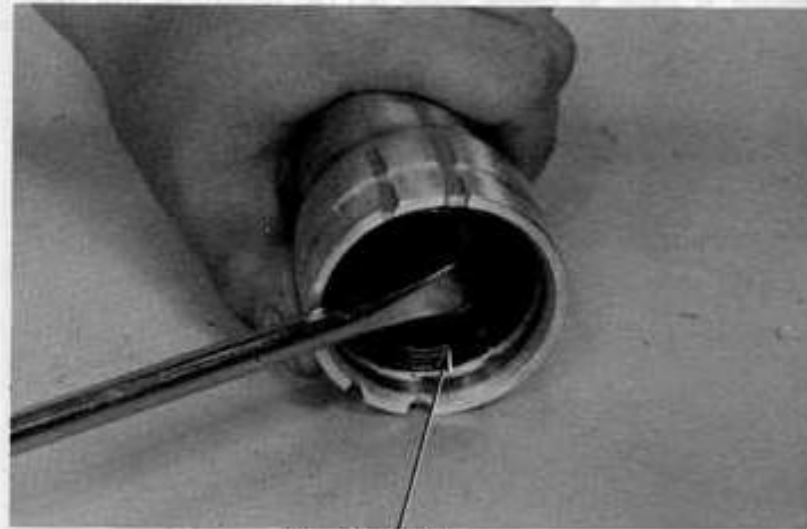
(2) CIRCLIP PLIERS (07914-3230001)

Remove the oil seal using a screwdriver with a dull or rounded edge.

**NOTE**

- Avoid damaging the inner and outer surfaces of the fork slider when removing the oil seal.
- The oil seal must be, replaced with new seal during assembly.

Remove the back-up ring.

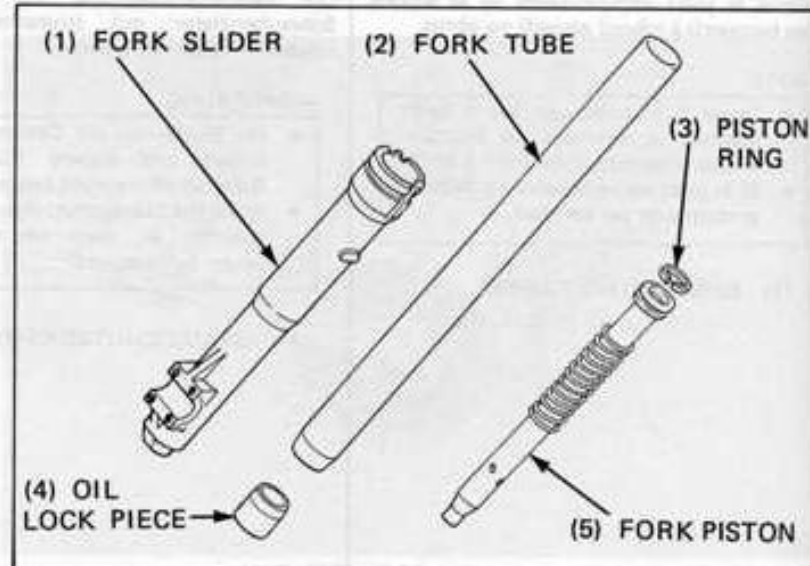


(1) OIL SEAL

**Inspection:**

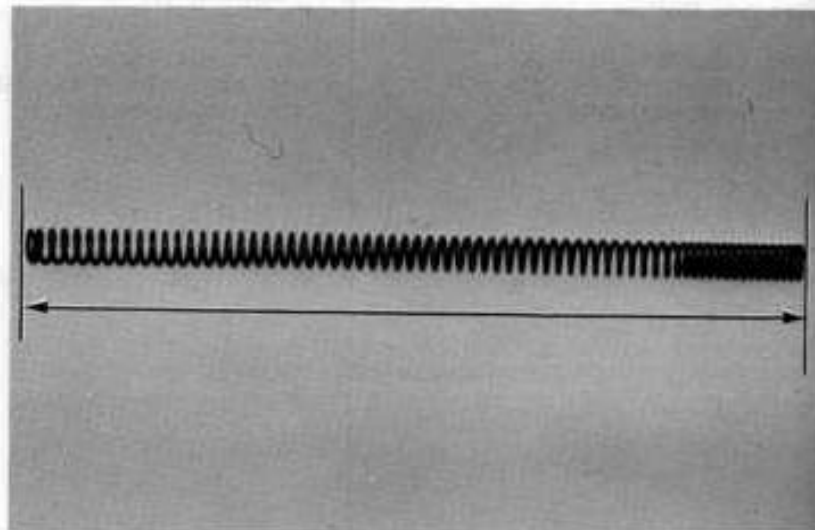
Check the fork tube, fork slider, piston and oil lock piece for score marks, scratches, or excessive or abnormal wear.

Replace any damaged or badly worn parts.  
Check the fork piston ring for wear or damage.  
Check the rebound spring for fatigue or damage.



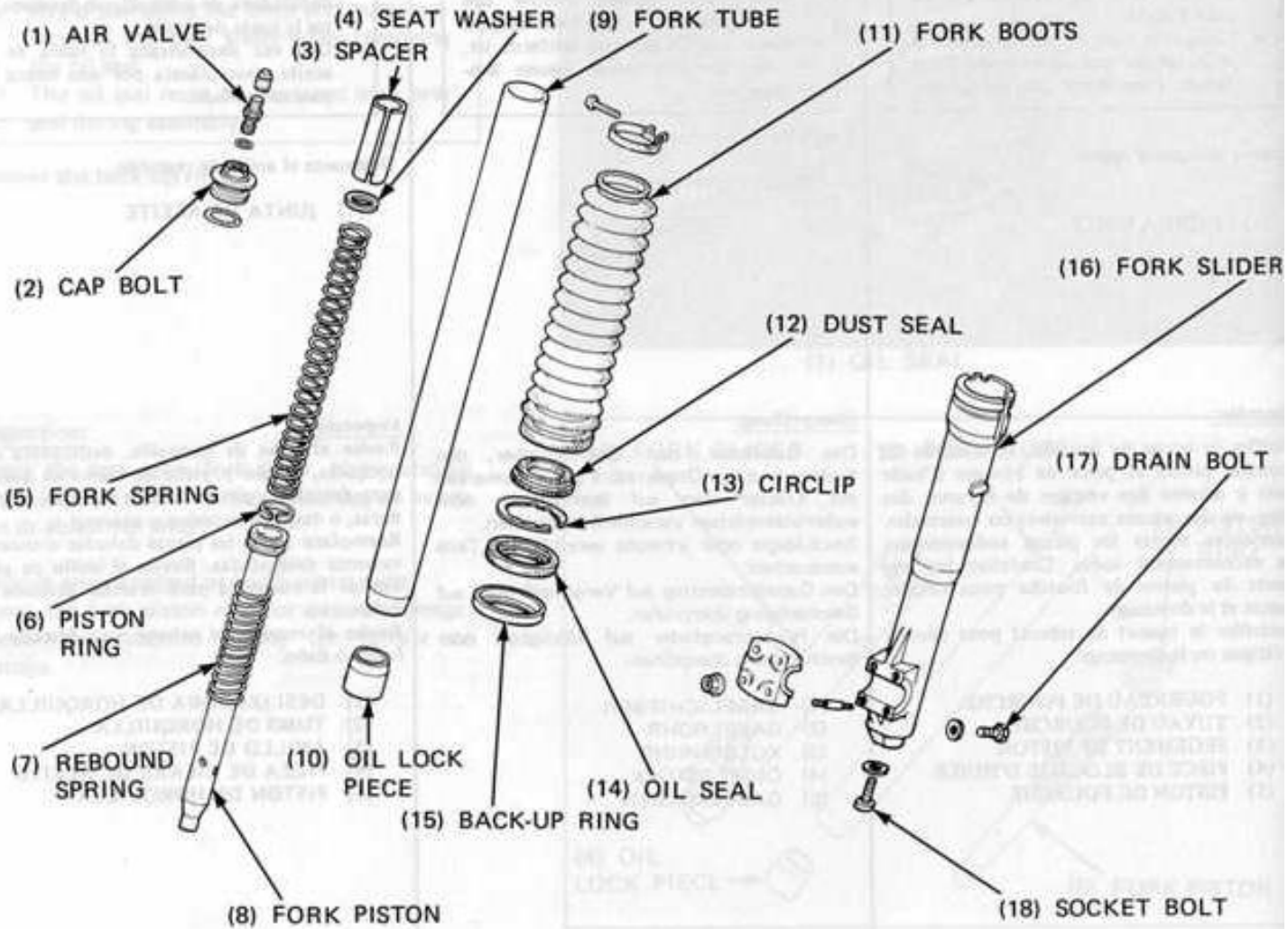
Measure the fork spring free length.

**SERVICE LIMIT: 568.8 mm (22.39 in)**

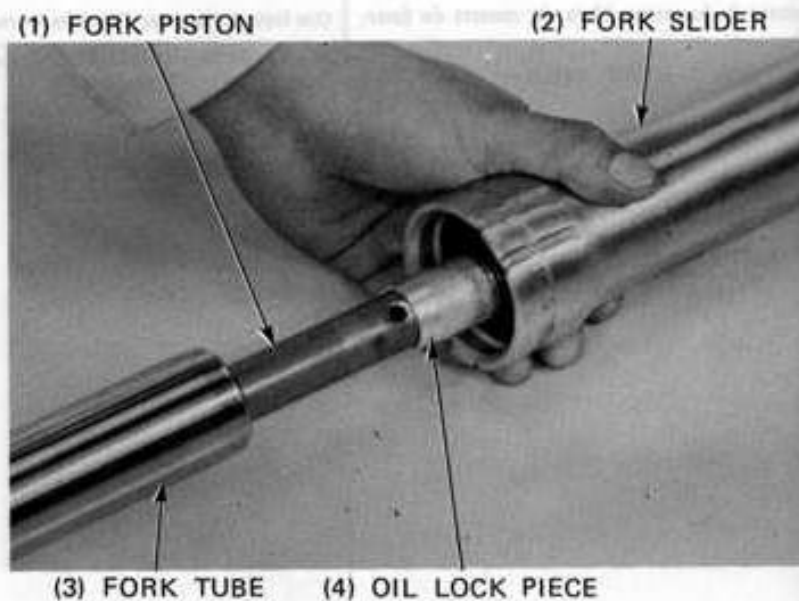


**Assembly:**

Clean all parts with non-flammable or high flash point solvent and wipe them off thoroughly before assembly.



Install the fork piston and rebound spring into the fork tube from top.  
 Place the oil lock piece on the end of the piston.  
 Insert the fork tube into the slider.





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

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

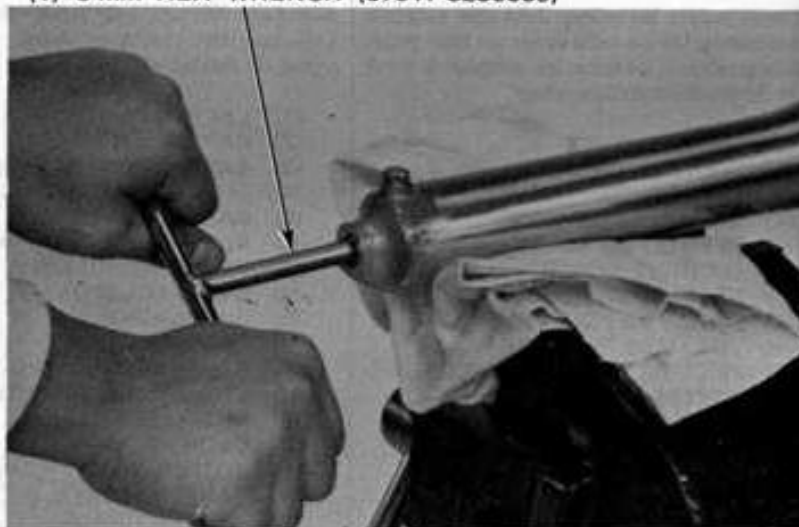
**CAUTION**

*Excessive vise pressure can damage the fork slider.*

**NOTE**

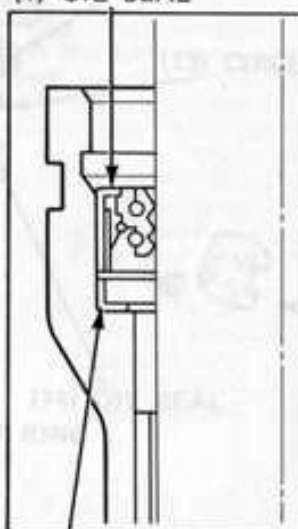
Temporarily install the spring, spacer and fork bolt if difficulty is encountered in moving the socket bolt.

(1) 6 mm HEX WRENCH (07917-3230000)

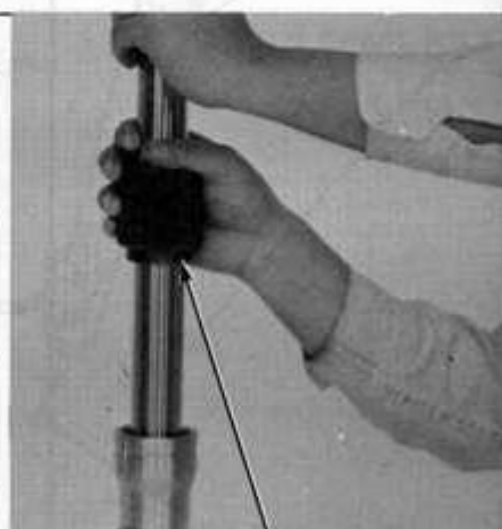


Install the back-up ring.  
Coat a new oil seal with ATF and install it with the seal markings facing up.  
Drive the seal in with the seal driver.

(1) OIL SEAL



(2) BACK-UP RING



(3) FORK SEAL DRIVER  
(07947-3710101)

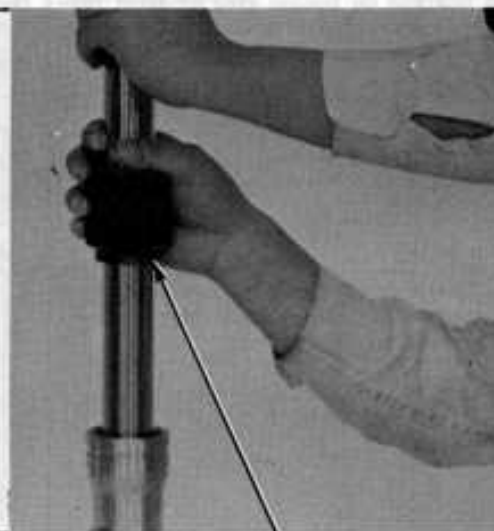
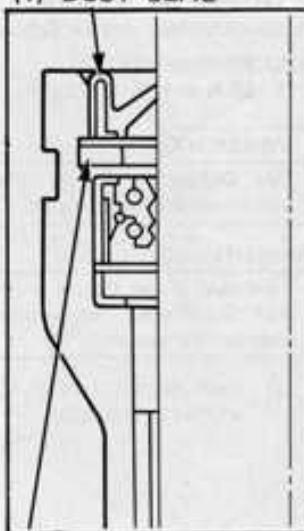
Install the circlip into groove of the slider with sharp edge facing upward.

(1) CIRCLIP PLIERS (07914-3230001) (2) CIRCLIP



Install the dust seal with the seal markings facing down and drive the seal in with the seal driver.

(1) DUST SEAL



(2) CIRCLIP

(3) FORK SEAL DRIVER  
(07947-3710101)

Pour in the specified amount of ATF.

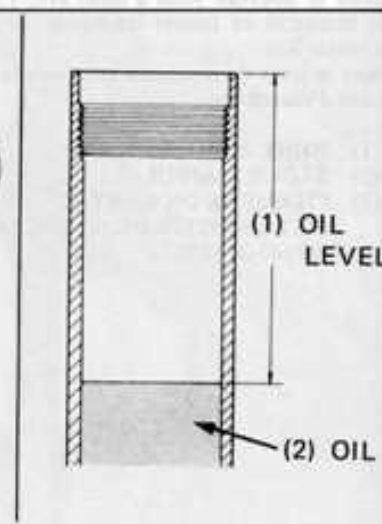
**CAPACITY: 376.0–381.0 cc (12.71–12.88 oz)**

Compress the front fork all the way 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: 163.0 mm (6.42 in)**



Wipe all oil from the fork spring and install it into the fork tube with the narrow coils facing down.

Install the spring seat washer and spacer and install the fork cap bolt.

**CAUTION**

Be careful not to cross-thread the fork cap bolts.

Tighten the fork cap bolt.

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

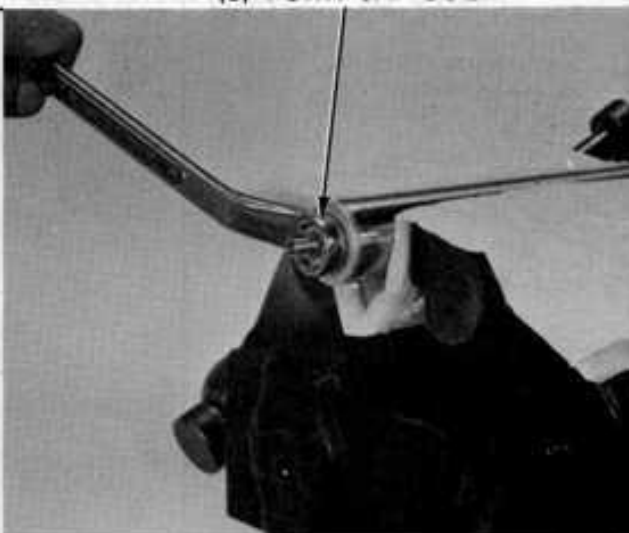
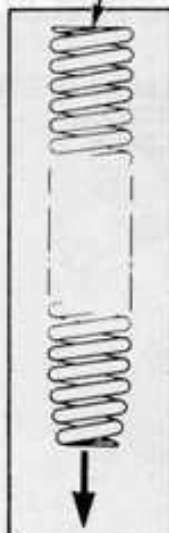
Install the fork boot and boot clamp.

**NOTE**

Do not tighten the clamps until the forks are properly installed on the vehicle.

(1) FORK SPRING

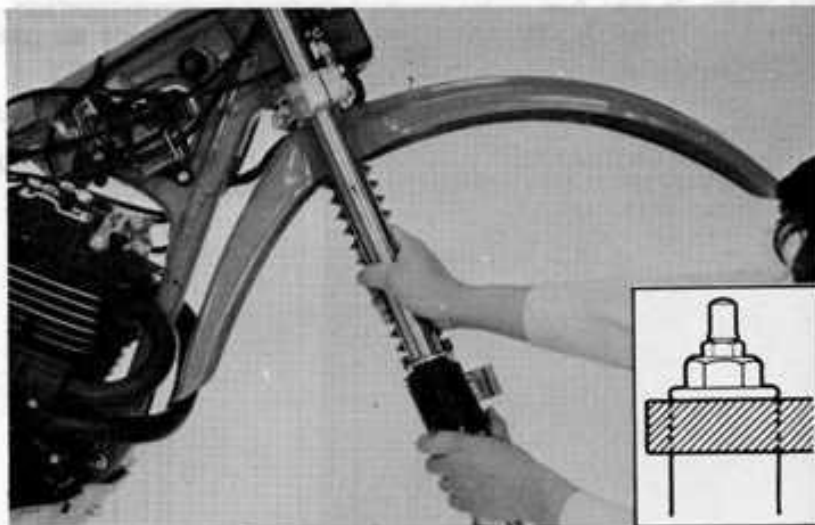
(3) FORK CAP BOLT



**Installation:**

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

Align the top surface of fork tube with the top surface of the fork bridge.



(1) FORK PINCH BOLTS

Tighten the upper and lower fork pinch bolts.

**TORQUE:**

- Upper : 18–23 N.m  
(1.8–2.3 kg-m, 13–17 ft-lb)
- Lower : 30–35 N.m  
(3.0–3.5 kg-m, 22–25 ft-lb)



(1) FORK BOOT CLAMP

Bring the top of each fork boot into contact with the steering stem and tighten the clamp.

Install the speedometer cable in the clamps on the left fork slider.

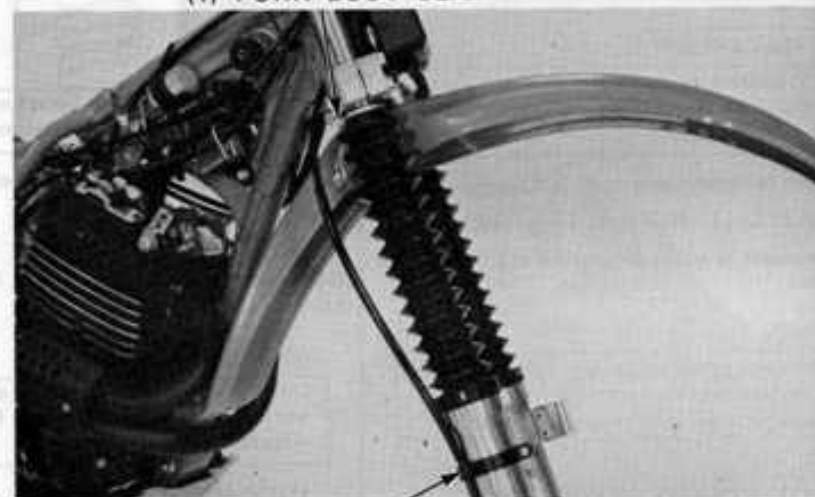
Install the front wheel (Page 22-41).

Make sure all weight is off the front wheel, and charge the forks with air.

**STANDARD PRESSURE:** 0–20 kPa  
(0–0.2 kg/cm<sup>2</sup>, 0–2.8 psi)

**CAUTION**

*Use a low-volume low-pressure pump to charge the forks with air.*



(2) SPEEDOMETER CABLE CLAMP

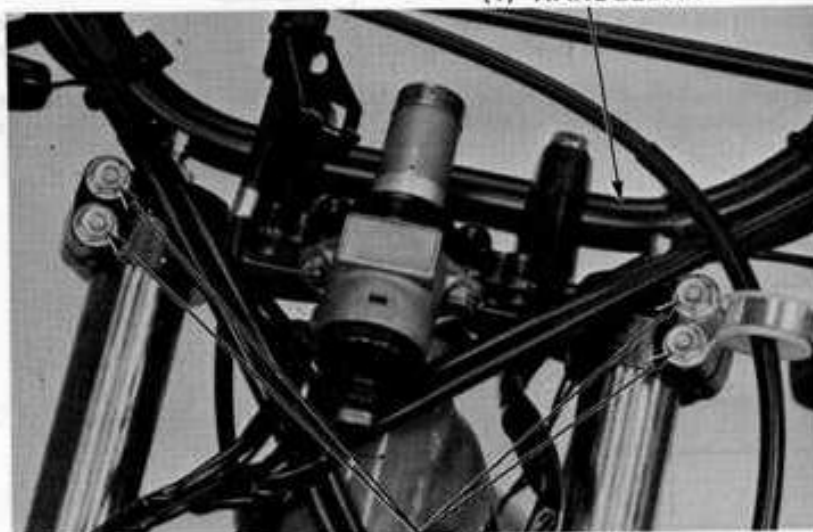


● STEERING STEM

Disassembly:

- Remove the instrument (Page 22-38).
- Remove the front wheel (Page 22-39).
- Remove the front fender.
- Remove the horn bracket from the steering stem.
- Remove the handlebar.
- Loosen the upper fork pinch bolts.

(1) HANDLEBAR



(2) UPPER FORK PINCH BOLTS

(1) FORK BRIDGE (2) EXTENSION (07716-0020500)

Remove the stem nut and remove the fork bridge.

Remove the front fork legs by loosening the lower fork pinch bolts.



(3) SOCKET WRENCH, 30 x 32 mm (07716-0020400)

(1) STEERING STEM ADJUSTER NUT

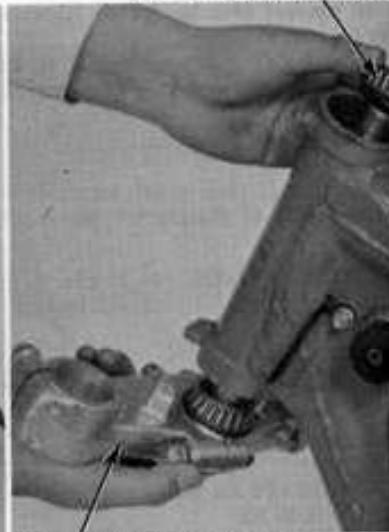
(2) UPPER BEARING

Remove the steering stem adjuster nut.

**NOTE**

Hold the steering stem to prevent it from falling.

Remove the steering stem.  
Remove the upper bearing.



(3) STEERING STEM

Check the bearings for operation and replace if necessary.

Check the bearing races for wear or damage and replace if necessary.

**NOTE**

Replace the bearings and races as a set.

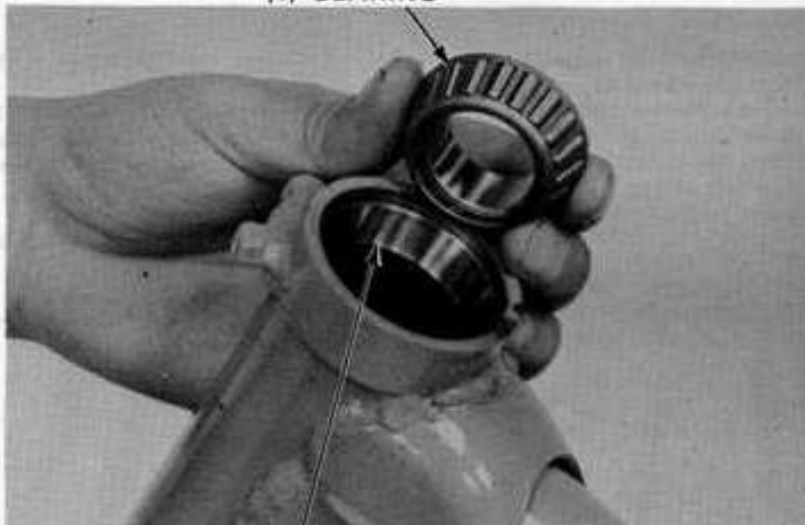
Remove the bearing race with a bearing race remover.

Drive in the new races with a steering race driver.

**NOTE**

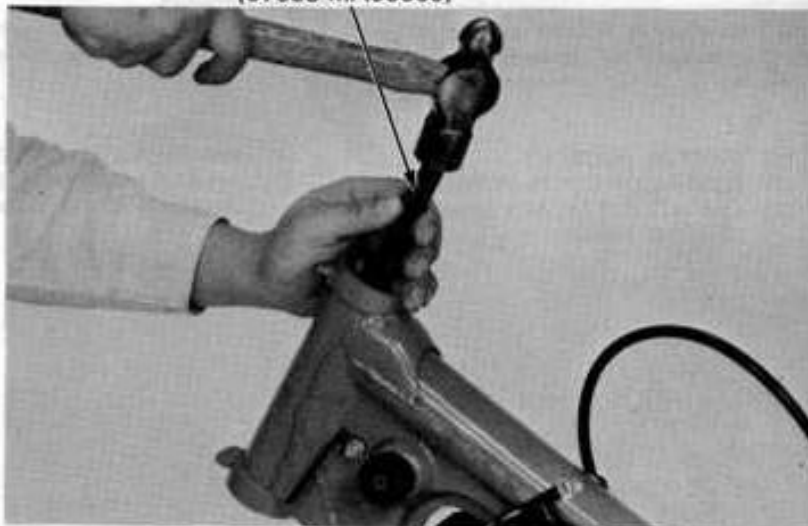
Drive the races in squarely until they seat.

(1) BEARING



(2) BEARING RACE

(1) BEARING RACE REMOVER  
(07953-MA00000)



(1) DRIVER (07749-0010000)



(2) ATTACHMENT (07746-0010300 or 07946-4300200)

To remove the lower bearing, remove the steering stem pipe pinch bolt.

Remove the lower bearing using a hydraulic press.

**NOTE**

Set the blocks near the center of the steering stem.

Install new dust seal.  
Press the new bearing onto the stem pipe with a hydraulic press and steering stem driver.

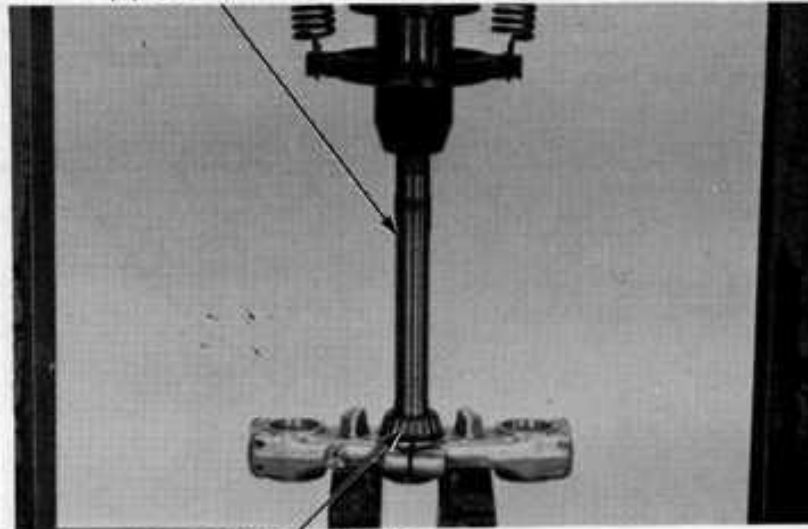
Install and torque the steering stem pipe pinch bolt.

**TORQUE:** 40–50 N·m  
(4.0–5.0 kg·m, 29–36 ft·lb)

**Installation:**

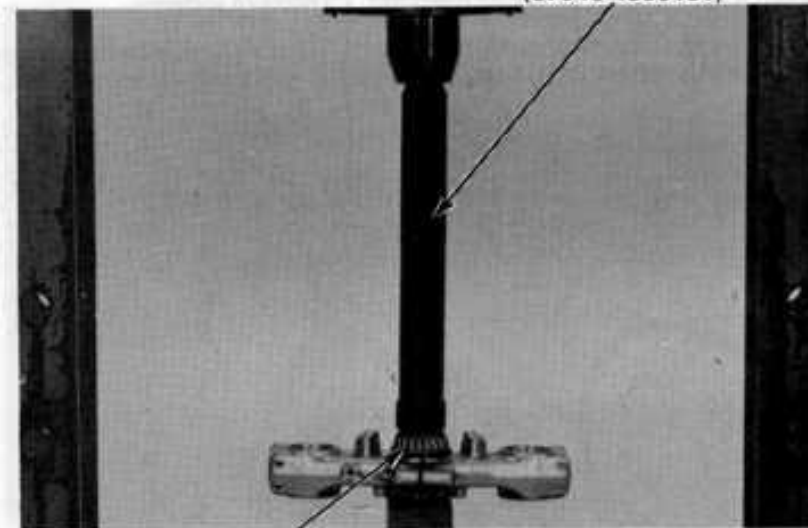
Clean the races and apply grease to the bearings.  
Slide the steering stem through the steering head from the bottom.

(1) STEM PIPE

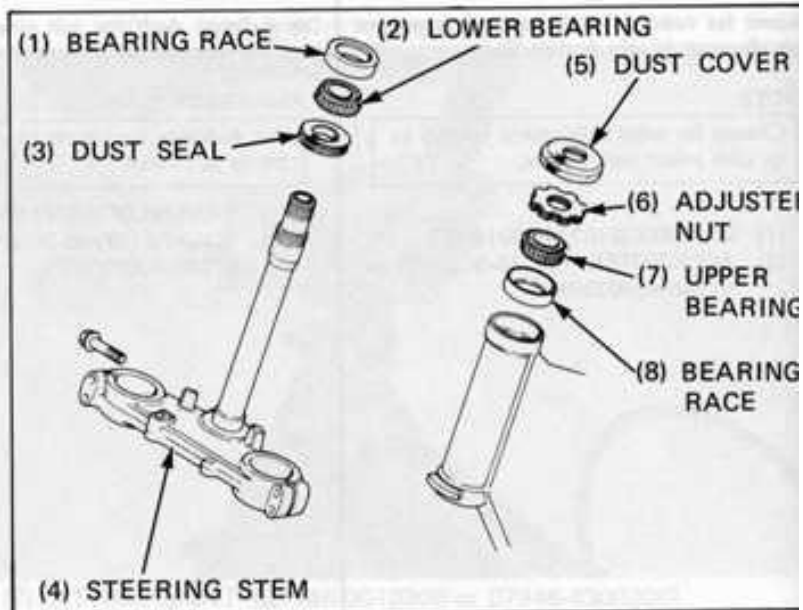


(2) LOWER BEARING

(1) STEERING STEM DRIVER  
(07946-4300101)



(2) LOWER BEARING





(1) STEERING STEM SOCKET  
(07916-3710100)

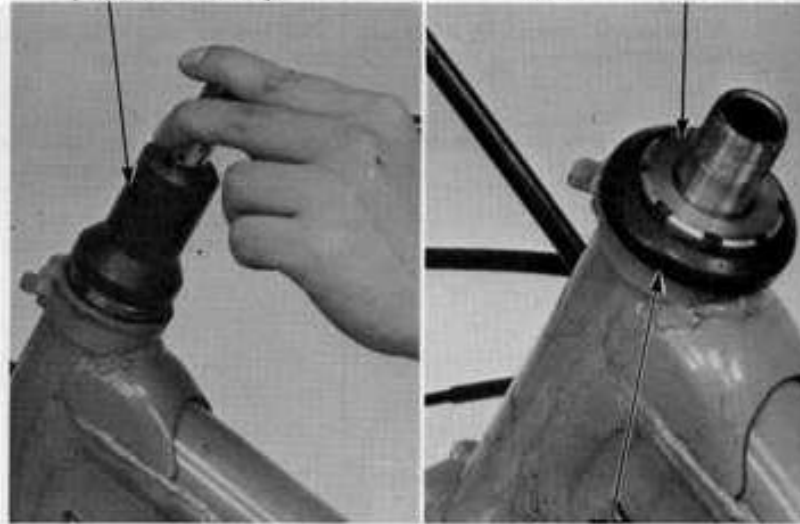
(2) STEERING ADJUSTER  
NUT

Remove the dust cover from the steering adjuster nut.

Tighten the steering adjuster nut until the stem rotates freely, but without play.

**TORQUE: 1–2 N·m**  
(0.1–0.2 kg·m, 0.7–1.5 ft·lb)

Reinstall the dust cover on the steering adjuster nut.



(3) DUST COVER

Temporarily hold the front fork legs by tightening the fork pinch bolts.

Install the fork bridge onto the front fork tubes and tighten the stem nut.

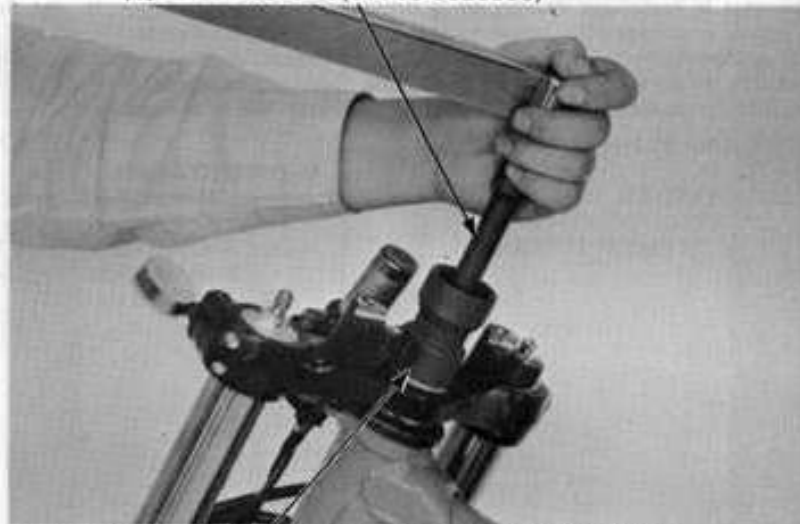
**TORQUE: 80–120 N·m**  
(8.0–12.0 kg·m, 58–87 ft·lb)

Loosen the lower pinch bolts. Then align the fork tube top surface with the upper edge of the fork bridge.

Tighten upper and lower fork pinch bolts.

**TORQUE:**  
Upper : 18–23 N·m  
(1.8–2.3 kg·m, 13–17 ft·lb)  
Lower : 30–35 N·m  
(3.0–3.5 kg·m, 22–25 ft·lb)

(1) EXTENSION (07716-0020500)

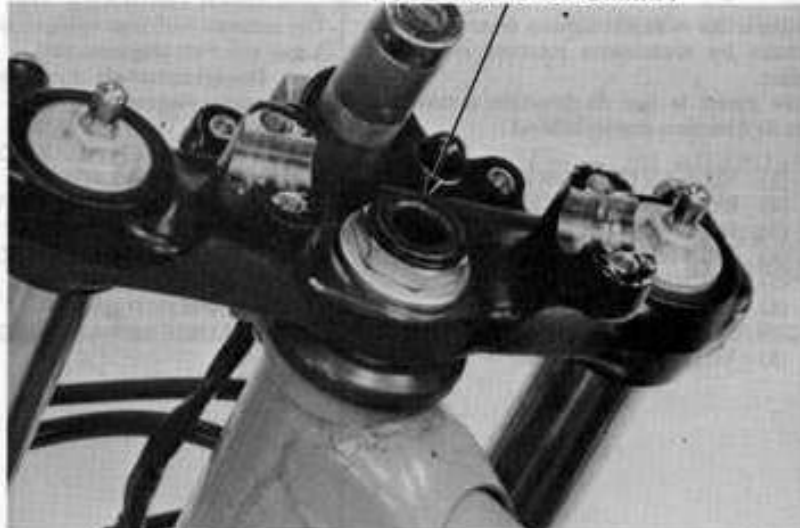


(2) SOCKET WRENCH, 30 x 32 mm (07716-0020400)

Install the plastic grommet in the steering stem nut.

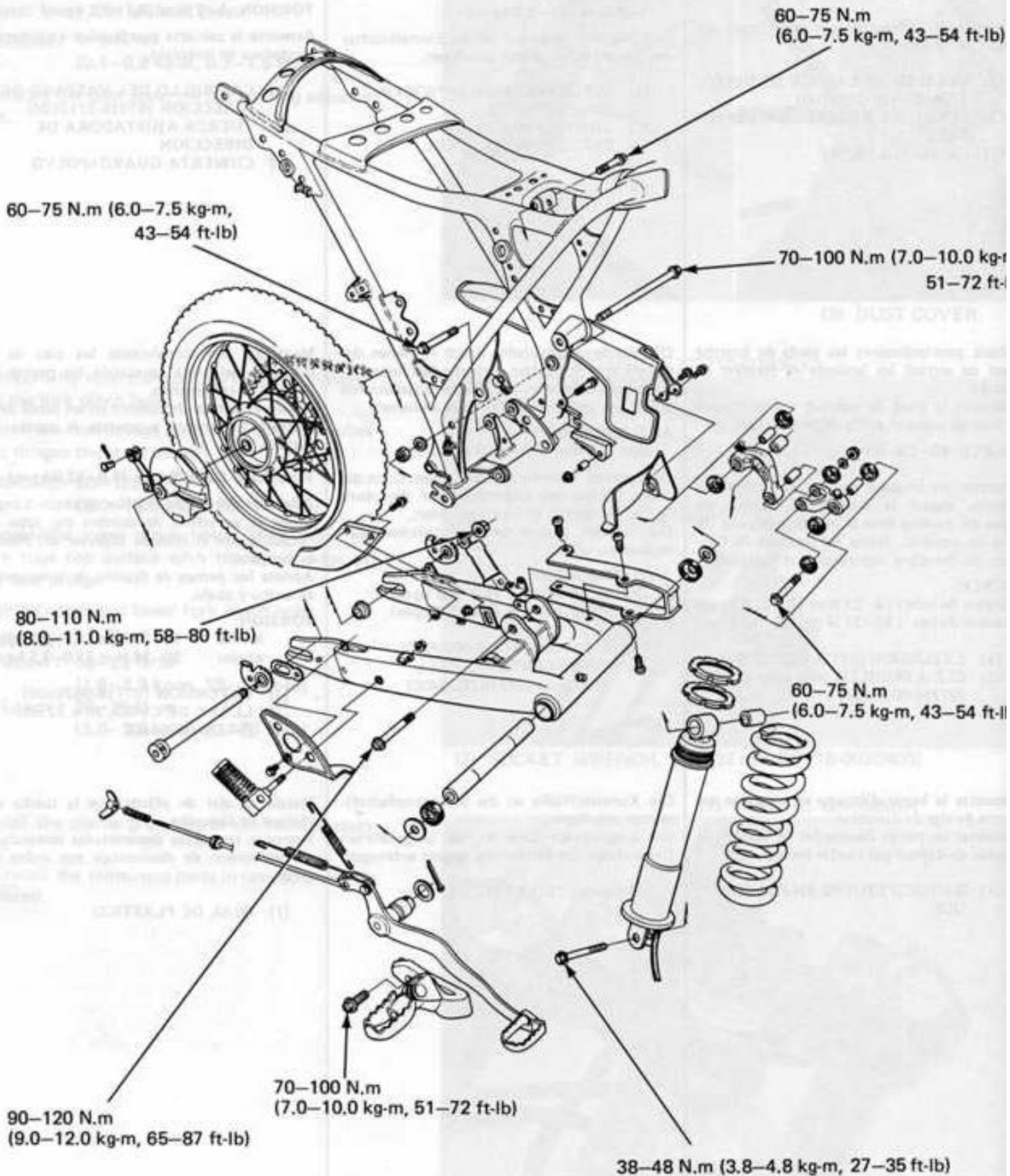
Reinstall the remaining parts in reverse order of removal.

(1) PLASTIC GROMMET





## REAR WHEEL/SUSPENSION





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**SERVICE INFORMATION**

● **GENERAL INSTRUCTIONS**

**WARNING**

- Brake dust may contain asbestos which can be harmful to your health. Do not use compressed air to clean the brake drum or brake panel. Use a vacuum with a sealed dust collector. Wear a protective face mask and thoroughly wash your hands when finished.
- Use only genuine rear suspension linkage and shock absorber pivot/mount bolts. Others may not have adequate strength. Note the installation direction of the bolts.

● **TOOLS**

Special

- Bearing remover set 07936-3710000 or Handle 07936-3710100  
Weight 07936-3710200  
Remover, 23 mm 07936-37106000

- Needle bearing driver 07946-KA50000

Common

- Retainer wrench body 07710-0010401 } or Retainer wrench 07910-3600000  
Retainer wrench attachment 07710-0010201 }  
Attachment, 37 x 40 mm 07746-0010200 } or { Driver 07949-3000000  
Pilot, 17 mm 07746-0040400 } or { Attachment 07946-3000100  
Attachment, 42 x 47 mm 07746-0010300 or  
Pilot, 20 mm 07746-0040500  
Driver 07749-0010000

Optional

- Pin spanner 89201-KA4-810  
Pin spanner 89202-KA4-810

● **SPECIFICATIONS**

ITEM	STANDARD	SERVICE LIMIT
Rear shock absorber spring free length	251.0 mm (9.88 in)	248.5 mm (9.78 in)
Rear brake drum I.D.	130.0 mm (5.12 in)	131.0 mm (5.16 in)
Rear brake lining thickness	4 mm (0.16 in)	2 mm (0.08 in)
Rear shock absorber damper compression force	28-38 kg (62-84 lb)	28 kg (62 lb)
Swingarm pivot center collar O.D.	19.987 - 20.000 mm (0.7869 - 0.7874 in)	19.915 mm (0.7840 in)

● **TORQUE VALUES**

- Rear shock absorber mount bolt (upper) 60-75 N.m (6.0-7.5 kg-m, 43-54 ft-lb)  
(lower) 38-48 N.m (3.8-4.8 kg-m, 27-35 ft-lb)  
Rear axle nut 80-110 N.m (8.0-11.0 kg-m, 58-80 ft-lb)  
Swingarm pivot bolt 70-100 N.m (7.0-10.0 kg-m, 51-72 ft-lb)  
Shock arm pivot bolt (Swingarm side) 90-120 N.m (9.0-12.0 kg-m, 65-87 ft-lb)  
(Shock link side) 60-75 N.m (6.0-7.5 kg-m, 43-54 ft-lb)  
Shock link pivot bolt 60-75 N.m (6.0-7.5 kg-m, 43-54 ft-lb)



**TROUBLESHOOTING**

**Nobble or Vibration in Motorcycle**

1. Tire pressure incorrect
2. Faulty tire
3. Bent rim
4. Loose wheel bearing
5. Loose or bent spokes
6. Swingarm Bushing worn
7. Chain adjusters not adjusted equally

**Suspension Noise**

- 1.. Loose fasteners
2. Faulty rear damper
3. Worn suspension linkage pivot bushing

**Soft Suspension**

1. Weak spring
2. Improper rear suspension spring preload adjusting

**Hard Suspension**

1. Improper rear suspension spring preload adjusting
2. Bent shock absorber rod
3. Swingarm pivot bearings damaged.

**Poor Brake Performance**

1. Improper brake adjustment
2. Worn brake shoes
3. Brake linings oily, greasy or dirty
4. Worn brake cam
5. Worn brake drum
6. Brake arm serrations improperly engaged
7. Brake shoes worn at cam contact area.

**\* SPECIFICATIONS**

* TORQUE VALUES	
Front shock pin	10 N·m (7.2 ft·lb)
Swingarm nut	10 N·m (7.2 ft·lb)
Swingarm bushing	10 N·m (7.2 ft·lb)
Swingarm pivot bearing	10 N·m (7.2 ft·lb)
Chain adjuster	10 N·m (7.2 ft·lb)
Brake cam	10 N·m (7.2 ft·lb)
Brake drum	10 N·m (7.2 ft·lb)
Brake arm	10 N·m (7.2 ft·lb)
Brake shoe	10 N·m (7.2 ft·lb)
Brake lining	10 N·m (7.2 ft·lb)
Brake pad	10 N·m (7.2 ft·lb)
Brake disc	10 N·m (7.2 ft·lb)
Brake master cylinder	10 N·m (7.2 ft·lb)
Brake slave cylinder	10 N·m (7.2 ft·lb)
Brake hose	10 N·m (7.2 ft·lb)
Brake line	10 N·m (7.2 ft·lb)
Brake lever	10 N·m (7.2 ft·lb)
Brake pedal	10 N·m (7.2 ft·lb)
Brake cable	10 N·m (7.2 ft·lb)
Brake master cylinder	10 N·m (7.2 ft·lb)
Brake slave cylinder	10 N·m (7.2 ft·lb)
Brake hose	10 N·m (7.2 ft·lb)
Brake line	10 N·m (7.2 ft·lb)
Brake lever	10 N·m (7.2 ft·lb)
Brake pedal	10 N·m (7.2 ft·lb)
Brake cable	10 N·m (7.2 ft·lb)