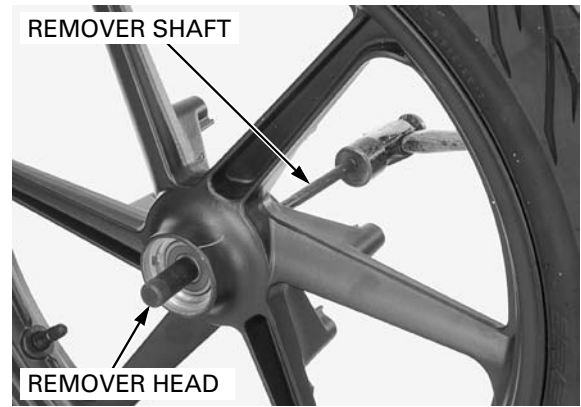


FRONT WHEEL/SUSPENSION/STEERING

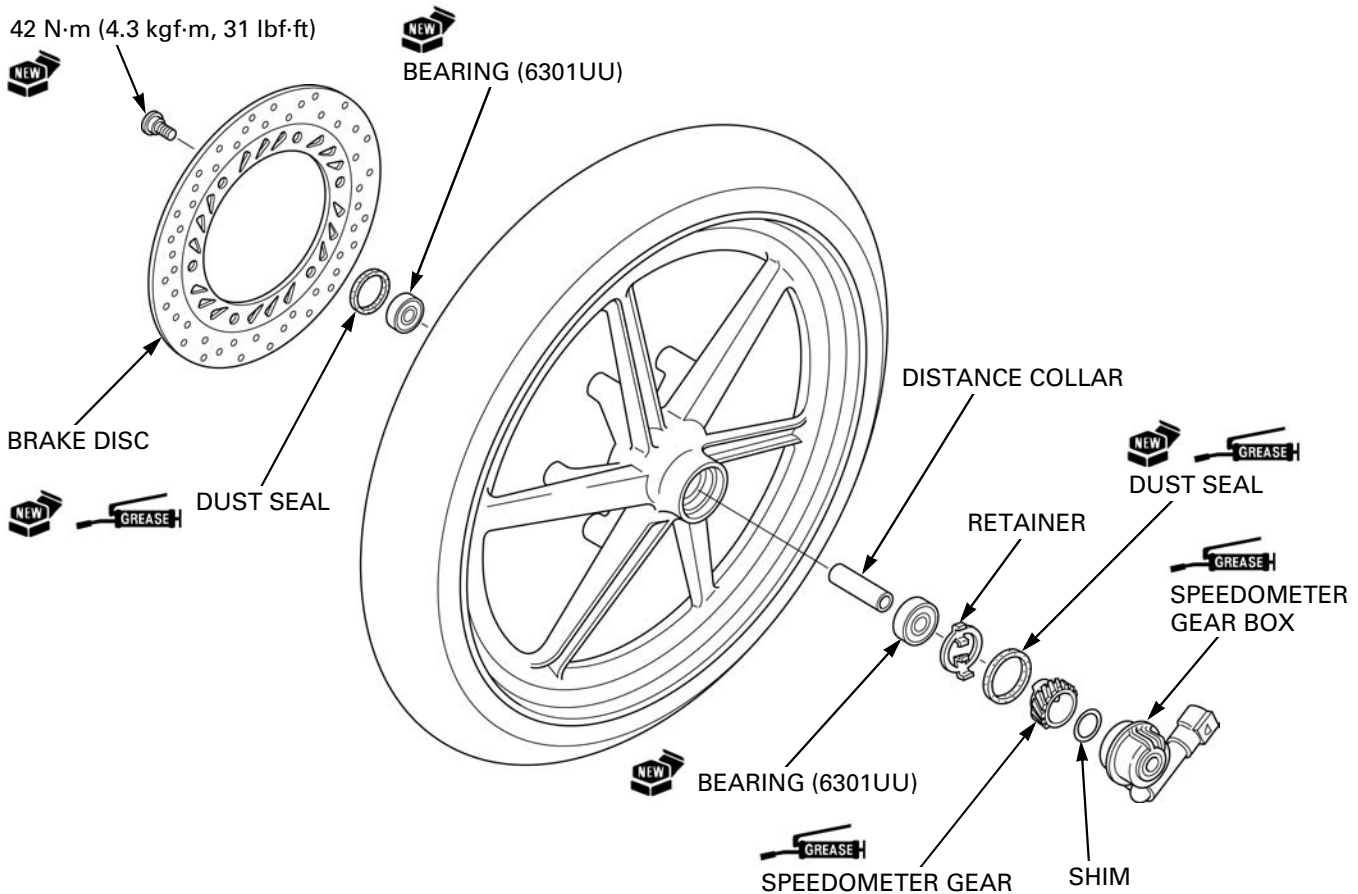
Install the bearing remover head into the bearing.
From the opposite side, install the bearing remover shaft and drive out the bearing from the wheel hub.
Remove the distance collar and drive out the other bearing.

TOOLS:

Bearing remover head, 12 mm 07746-0050300
Bearing remover shaft 07746-0050100



ASSEMBLY



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

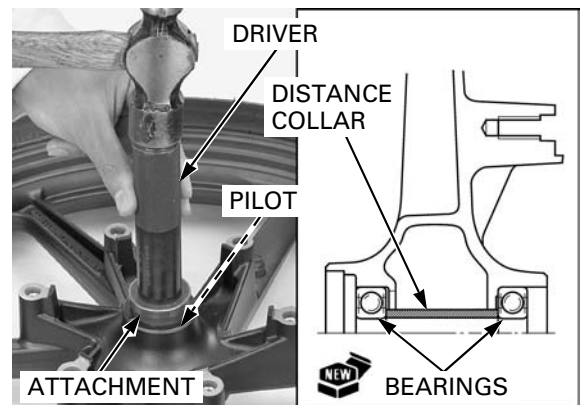
Drive in a new right side bearing squarely with its marked side facing up until it is fully seated.

Install the distance collar.

Drive in a new left side bearing squarely with its marked side facing up until it is seated on the distance collar.

TOOLS:

Driver 07749-0010000
Attachment, 37 x 40 mm 07746-0010200
Pilot, 12 mm 07746-0040200



Install the speedometer retainer to the left wheel hub, while aligning the tabs on the retainer with the slots on the hub.



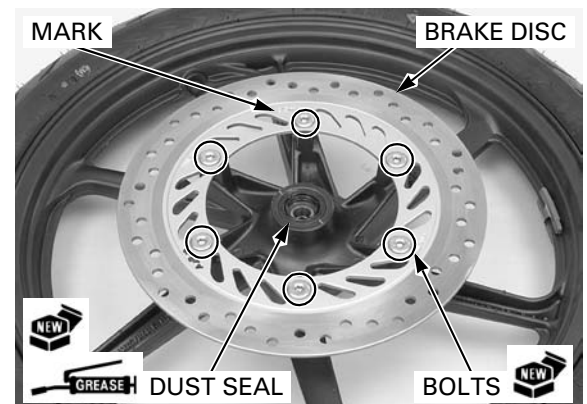
Apply grease to a new dust seal lips. Install the dust seal until it is fully seated to the left wheel hub.



Install the brake disc with the stamped mark "MIN.TH. 3.5 mm" facing outside.

Install and tighten new brake disc bolts to the specified torque in a crisscross pattern in 2 or 3 steps.

TORQUE: 42 N·m (4.3 kgf·m, 31 lbf·ft)



Do not get grease on the brake disc or stopping power will be reduced.

Apply grease to a new dust seal lips.

Install the dust seal until it is flush with the wheel hub surface to the right wheel hub.

INSTALLATION

Apply grease to the speedometer gear teeth, gear inner surface and shaft outer surface (page 1-17).

Install the speedometer gear box into the left wheel hub while aligning the tabs with the slots.



FRONT WHEEL/SUSPENSION/STEERING

Install the side collar into the right wheel hub.



When installing the front wheel, align the following:

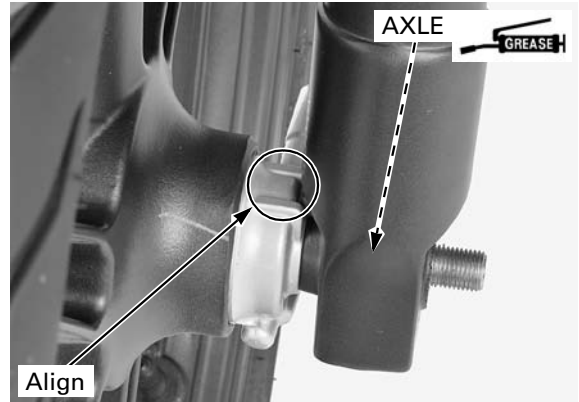
- Brake disc between the brake pads
- Speedometer gear box groove with the boss on the left fork leg

NOTE:

Be careful not to damage the brake pads.

Apply a thin coat of grease to the axle rolling surface.

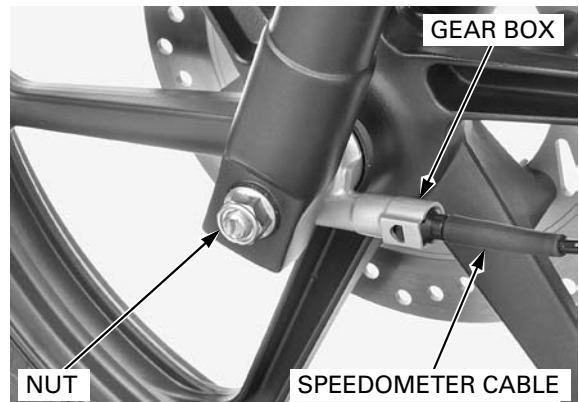
Install the axle from right side.



Install and tighten the axle nut to the specified torque.

TORQUE: 59 N·m (6.0 kgf·m, 44 lbf·ft)

Connect the speedometer cable to the speedometer gear box by aligning the tab of the cable with the hole of the gear box.



FORK

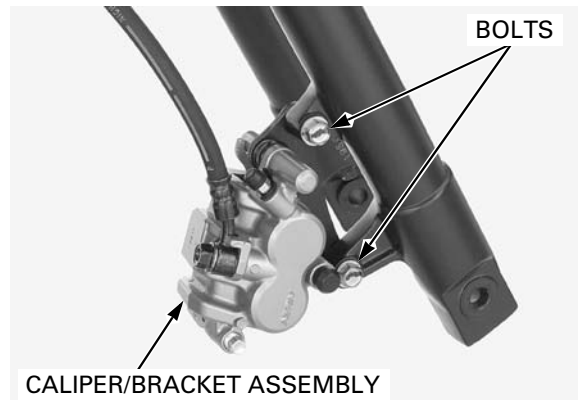
REMOVAL

Remove the following:

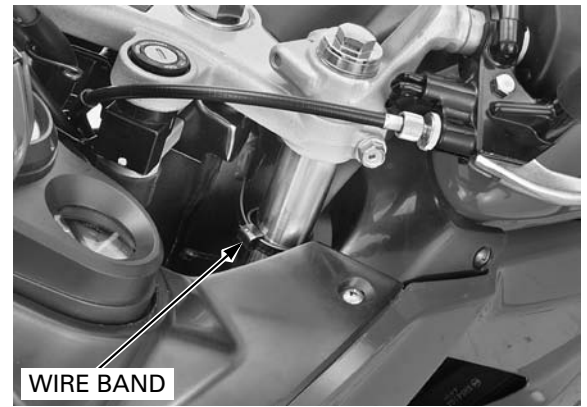
- Front fender (page 2-11)
- Front wheel (page 13-13)

Do not suspend the brake caliper/bracket assembly from the brake hose. Do not twist the brake hose.

Remove the brake caliper mounting bolts and brake caliper/bracket assembly.



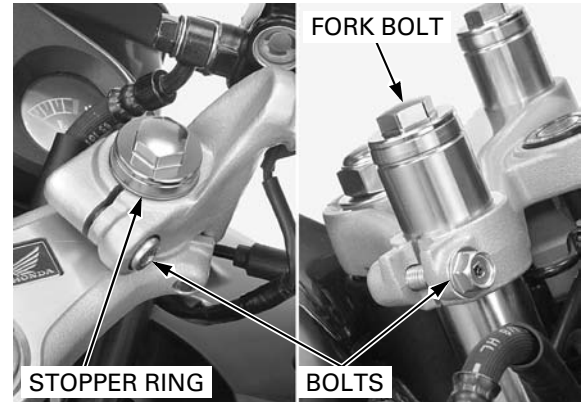
LEFT SIDE: Remove the wire band from the fork pipe.



Remove the stopper rings from both fork pipes.
Loosen the handlebar pinch bolts and remove the handlebars.

When the fork is ready to be disassembled, loosen the fork bolt.

Loosen the top bridge pinch bolts.



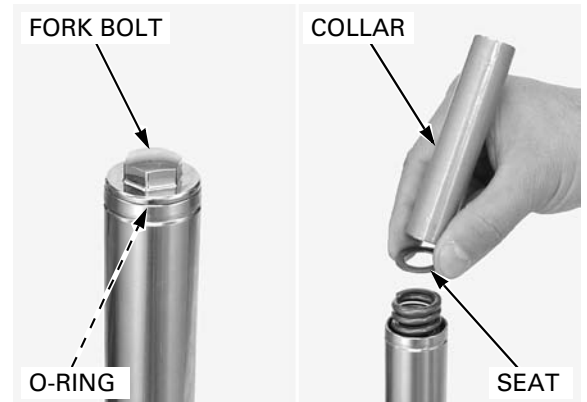
Hold the fork leg and loosen the bottom bridge pinch bolt and lower the fork leg, then remove it.



DISASSEMBLY

Remove the following:

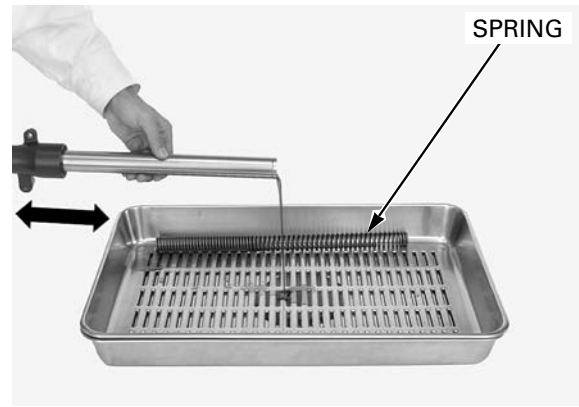
- Fork bolt
- O-ring
- Spring collar
- Spring seat



FRONT WHEEL/SUSPENSION/STEERING

Remove the fork spring.

Drain the fork fluid by pumping the fork pipe several times.

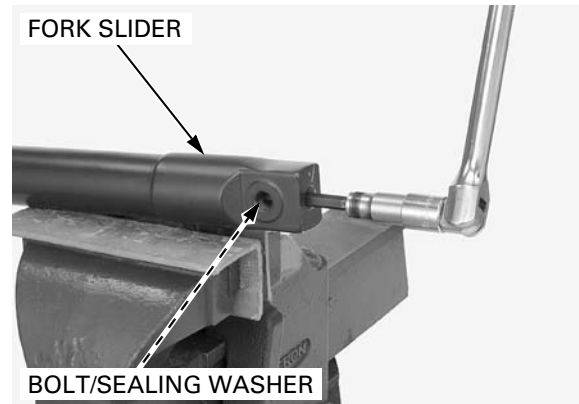


Do not over-tighten the vise on the fork slider.

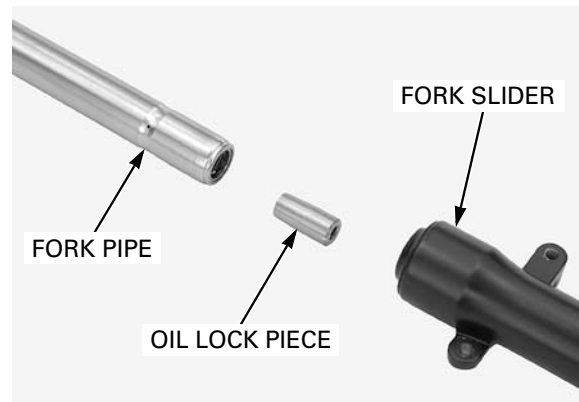
Set the fork slider in a vise with a piece of wood or soft jaws to avoid damage.

If the fork piston turns with the socket bolt, temporarily install the fork spring, spring seat, spring collar and fork cap.

Remove the fork socket bolt and sealing washer.

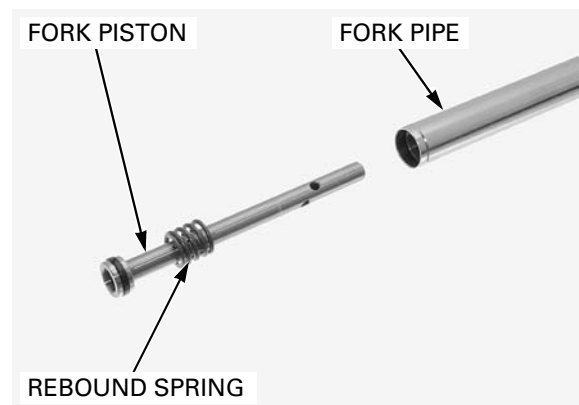


Remove the fork pipe and oil lock piece from the fork slider.



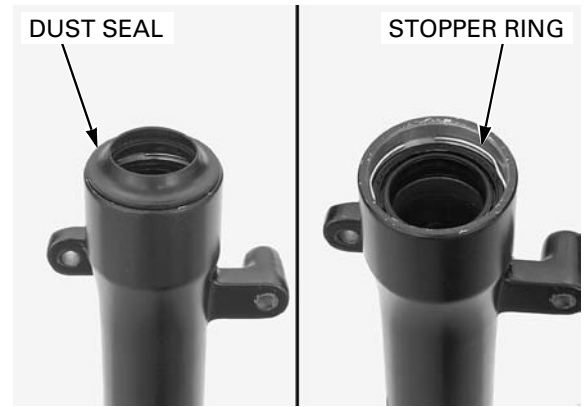
Do not remove the piston ring unless it is to replace with a new one.

Remove the fork piston and rebound spring from the fork pipe.



Be careful not to scratch the fork pipe.

Remove the dust seal and stopper ring.

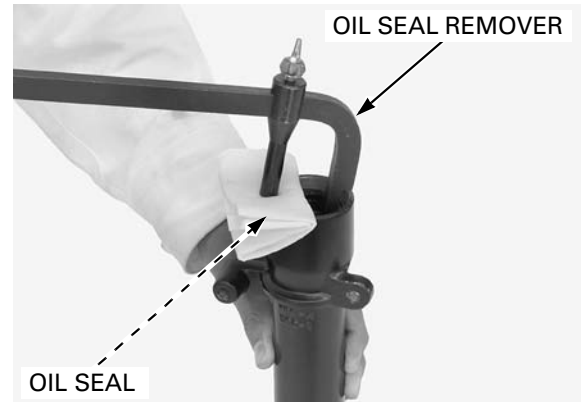


Be careful not to damage the fork slider.

Remove the oil seal using a special tool.

TOOL:
Oil seal remover

07748-0010001 or equivalent commercially available



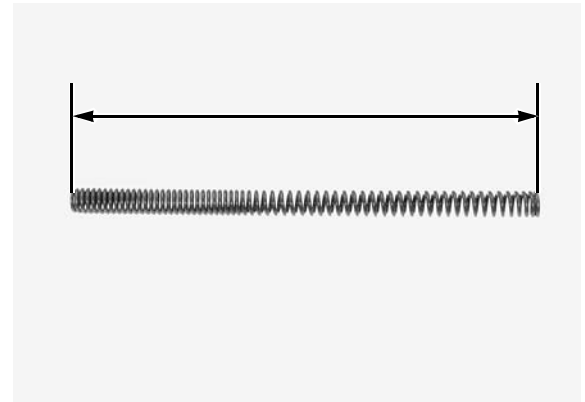
INSPECTION

FORK SPRING

Check the fork spring for fatigue or damage.

Measure the fork spring free length.

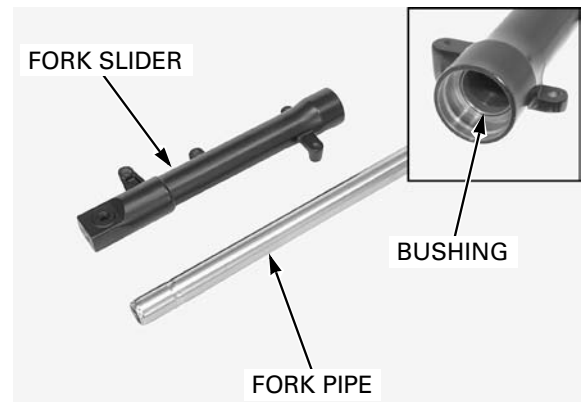
SERVICE LIMIT: 404.1 mm (15.91 in)



FORK PIPE/SLIDER/PISTON

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

Check the slider bushing for wear or damage.

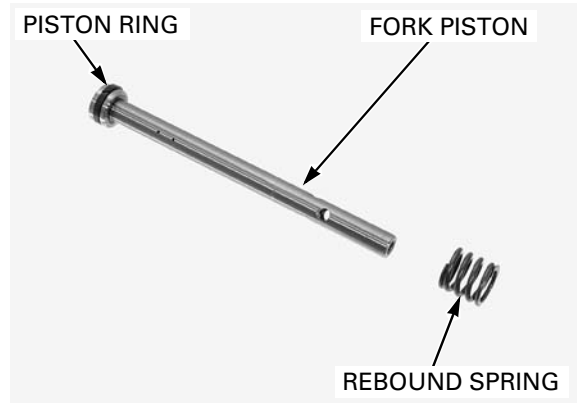


FRONT WHEEL/SUSPENSION/STEERING

Check the fork piston and piston ring for wear or damage.

Check the rebound spring for fatigue or damage.

Replace any components that are worn or damaged.

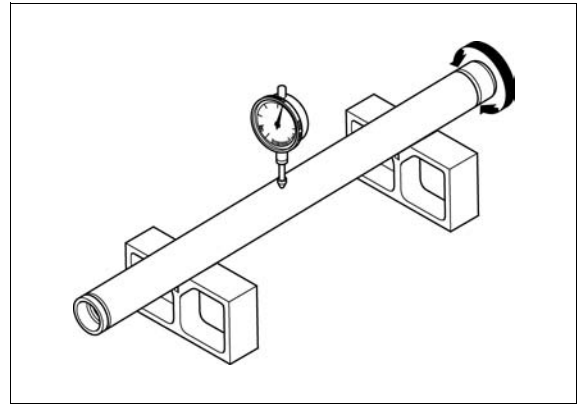


Place the fork pipe on V-blocks.

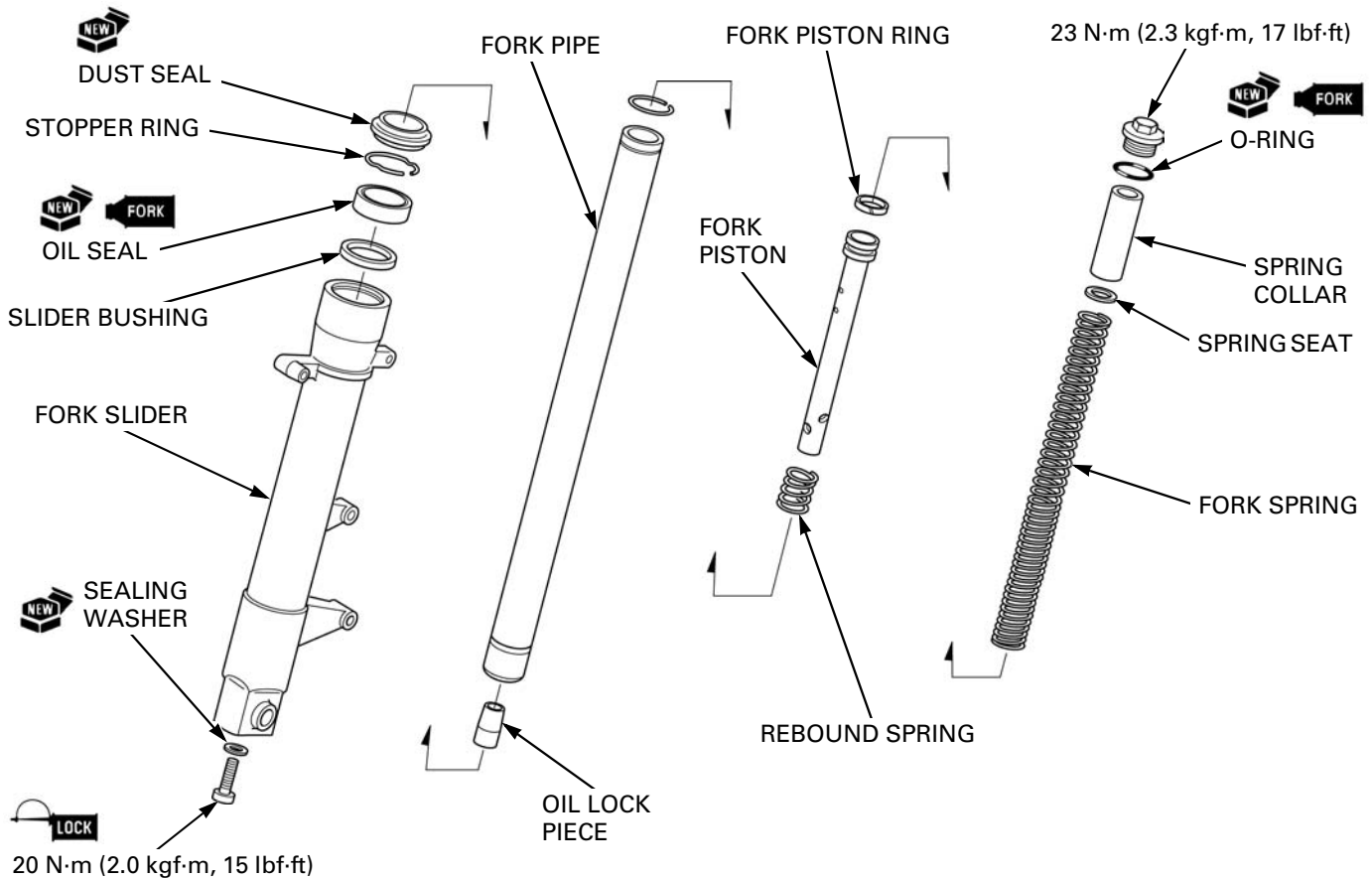
Turn the fork pipe and measure the runout using a dial indicator.

Actual runout is 1/2 of the total indicator reading.

SERVICE LIMIT: 0.20 mm (0.008 in)



ASSEMBLY



FRONT WHEEL/SUSPENSION/STEERING

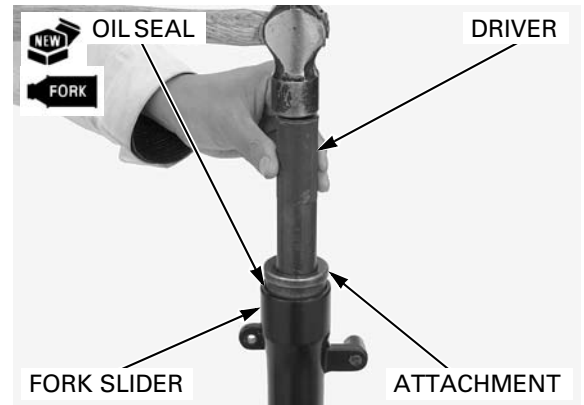
Before assembly, wash all parts with a high flash or non-flammable solvent and wipe them dry.

Apply fork fluid to a new oil seal lips, then install it into the fork slider with its marking facing up.

Drive in the oil seal into the fork slider until the stopper ring groove is visible, using the special tools.

TOOLS:

Driver 07749-0010000
Attachment, 42 x 47 mm 07746-0010300

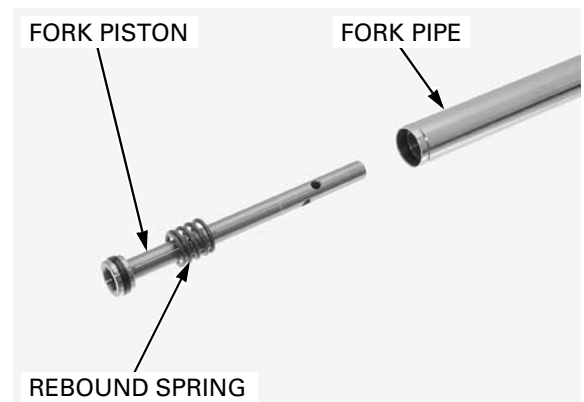


Install the stopper ring into the groove of the fork slider securely.

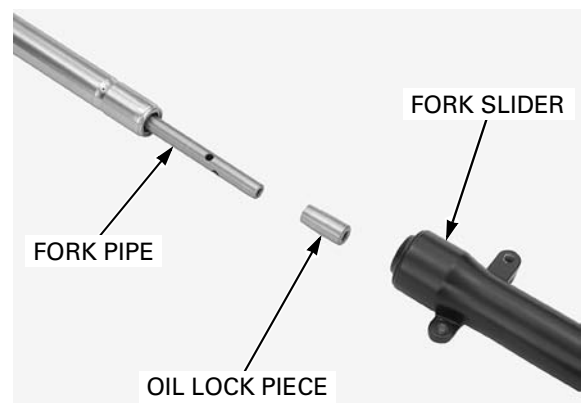
Install a new dust seal.



Install the rebound spring to the fork piston and install them into the fork pipe.



Install the oil lock piece onto the fork piston end.
Install the fork pipe into the fork slider.

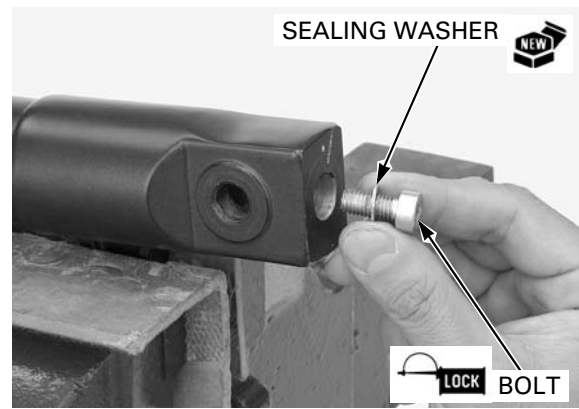


FRONT WHEEL/SUSPENSION/STEERING

Do not over-tighten the vise on the fork slider.

Set the fork slider in a vise with a piece of wood or soft jaws to avoid damage.

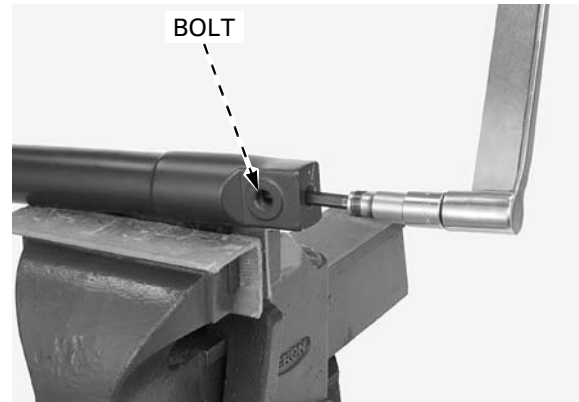
Install a new sealing washer to the fork socket bolt. Apply locking agent to the fork socket bolt threads and install it.



If the fork piston turns with the socket bolt, temporarily install the fork spring, spring seat, spring collar and fork bolt.

Tighten the fork socket bolt to the specified torque.

TORQUE: 20 N·m (2.0 kgf·m, 15 lbf·ft)



Pour the specified amount of recommended fork fluid into the fork pipe.

RECOMMENDED FORK FLUID (Except CM type):
Honda ULTRA CUSHION OIL 10W or equivalent

RECOMMENDED FORK FLUID (CM type only):
Pro Honda Suspension Fluid SS-8 (10W) or equivalent

FORK FLUID CAPACITY:
206 ± 2.5 cm³ (7.0 ± 0.08 US oz, 7.3 ± 0.09 Imp oz)

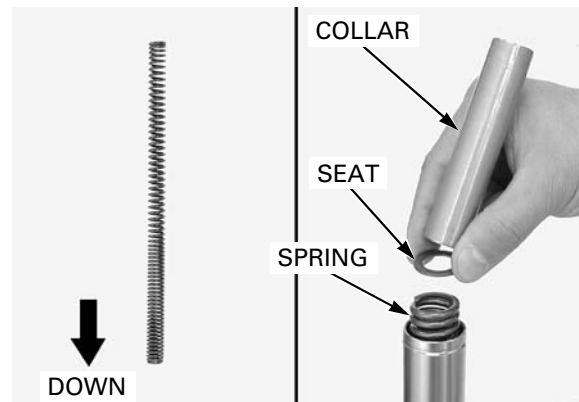
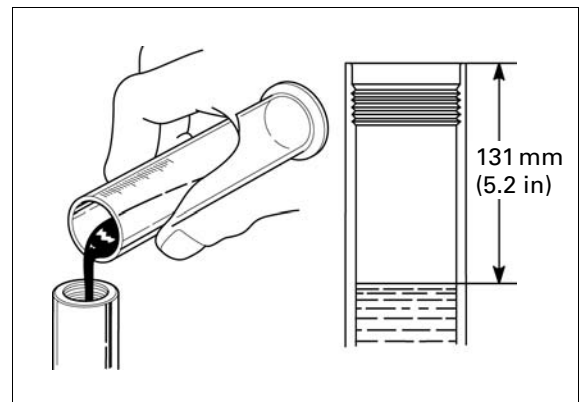
Slowly pump the fork pipe several times to remove any trapped air from the lower portion of the fork pipe.

Compress the fork pipe fully and measure the fluid level from the top of the fork pipe.

FLUID LEVEL: 131 mm (5.2 in)

Pull the fork pipe up and install the fork spring with the tightly wound coil side facing down.

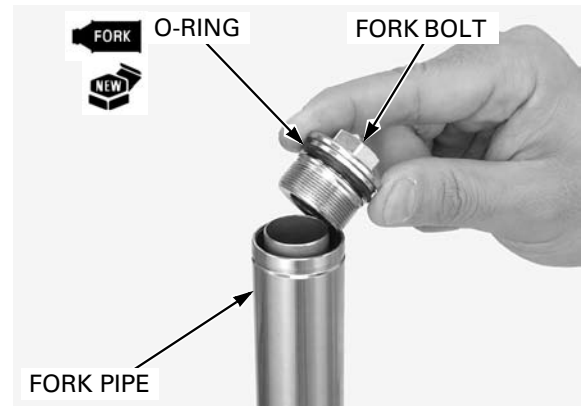
Install the spring seat and spring collar.



Apply fork fluid to a new O-ring and install it onto the fork bolt.

Tighten the fork bolt after installing the fork pipe into the fork bridges.

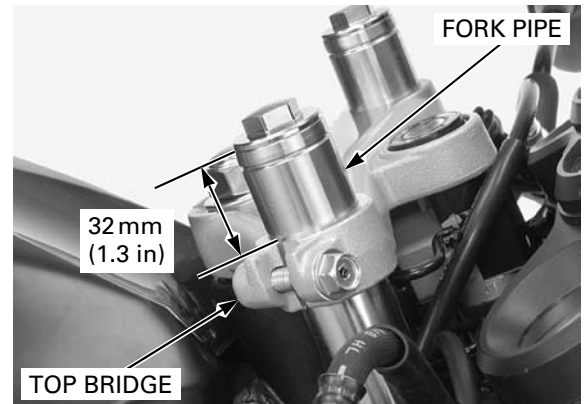
Loosely install the fork bolt by pushing it to the fork pipe.



INSTALLATION

Route the wires and cables properly (page 1-18).

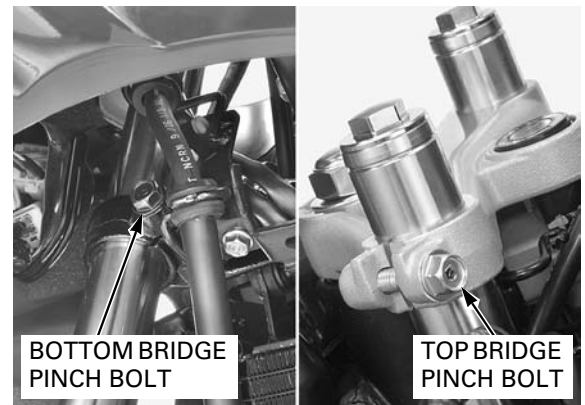
Install the fork leg through the bottom bridge and top bridge so that the height from the top bridge upper surface to the fork pipe end is 32 mm (1.3 in).



Tighten the bottom bridge and top bridge pinch bolts to the specified torque.

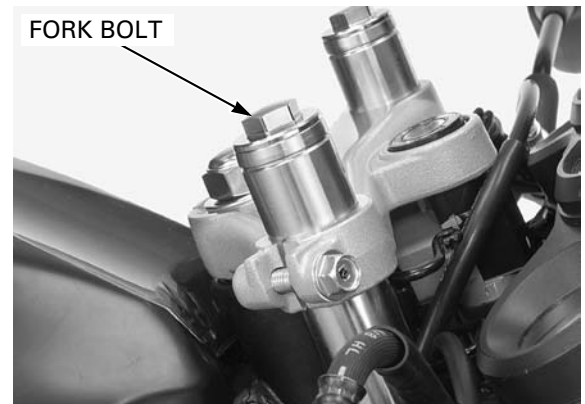
TORQUE:

- Bottom bridge pinch bolt:**
27 N·m (2.8 kgf·m, 20 lbf·ft)
- Top bridge pinch bolt:**
23 N·m (2.3 kgf·m, 17 lbf·ft)



If the fork bolt is loosened, tighten the fork bolt to the specified torque.

TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)



FRONT WHEEL/SUSPENSION/STEERING

Install the handlebars to both fork pipes while aligning the bosses on the handlebars with the cut outs on the top bridge.



Tighten both handlebar pinch bolts to the specified torque.

TORQUE: 27 N·m (2.8 kgf·m, 20 lbf·ft)

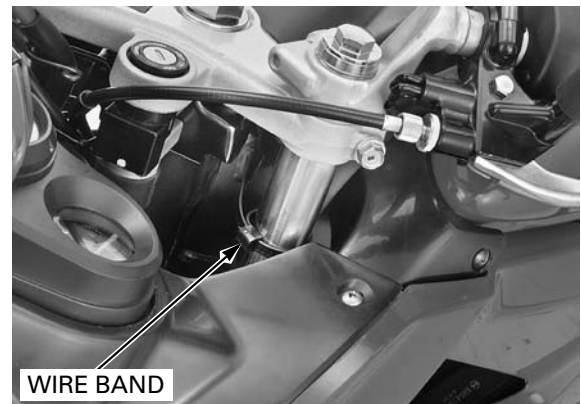
Install the stopper rings to the grooves of both fork pipes.



LEFT SIDE: Install the wire band to the fork pipe.

NOTE:

Route the wire properly (page 1-18).

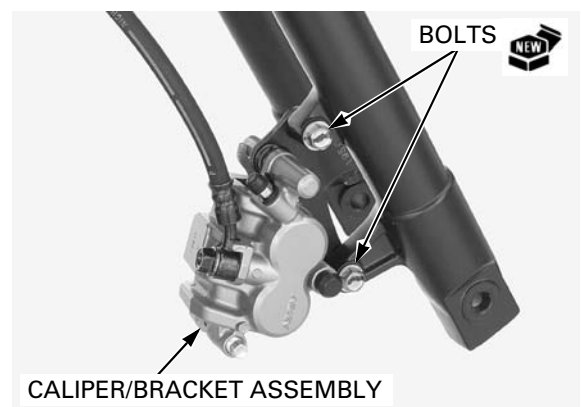


Install the brake caliper/bracket assembly and tighten new brake caliper mounting bolts to the specified torque.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)

Install the following:

- Front wheel (page 13-17)
- Front fender (page 2-11)

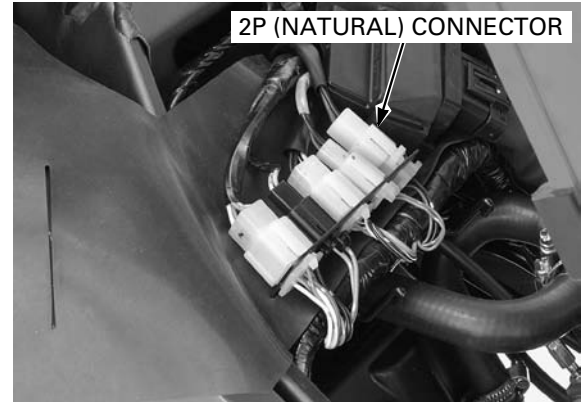


STEERING STEM

REMOVAL

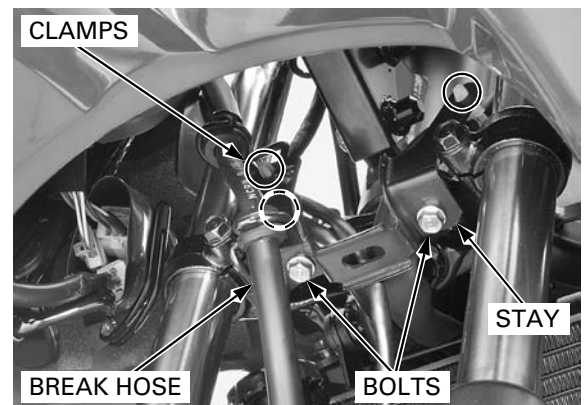
Lift and support the fuel tank (page 3-6).
Open the rubber sheet (page 6-10).

Disconnect the ignition switch 2P (Natural) connector.



Release the brake hose and wire harness clamps from the stay.

Remove the bolts and stay.

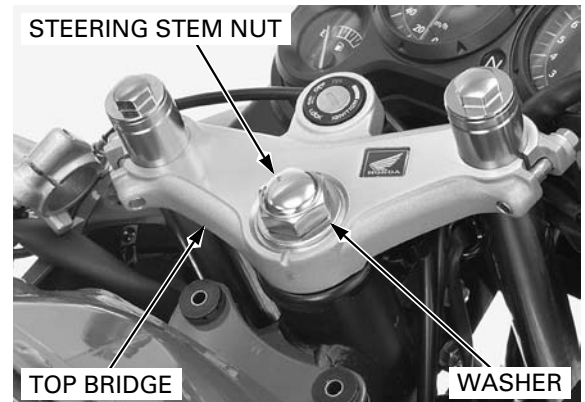


Remove the suitable support and close the fuel tank (page 3-6).

Loosen the steering stem nut.

Remove the fork legs (page 13-18).

Remove the steering stem nut, washer and top bridge.

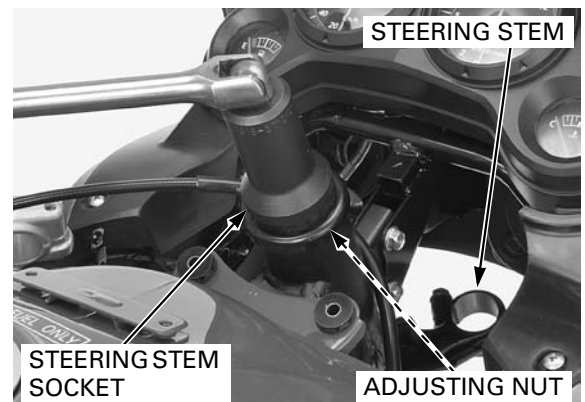


Loosen the steering stem adjusting nut using a special tool.

TOOL:

Steering stem socket **07916-3710101**

Hold the steering stem and remove the steering stem adjusting nut.

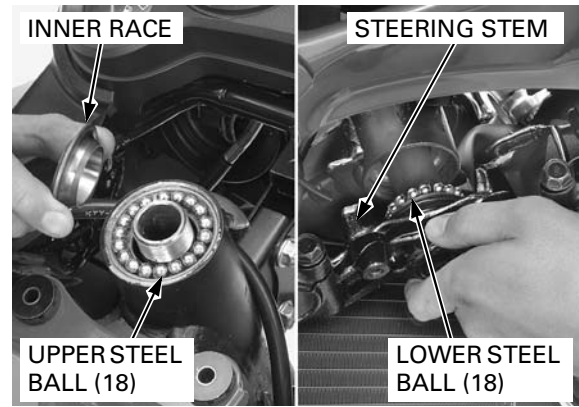


FRONT WHEEL/SUSPENSION/STEERING

*Be careful not to
loose the steel
balls.*

Remove the following:

- Upper bearing inner race
- Upper steel ball (18)
- Steering stem
- Lower steel ball (18)



BEARING REPLACEMENT

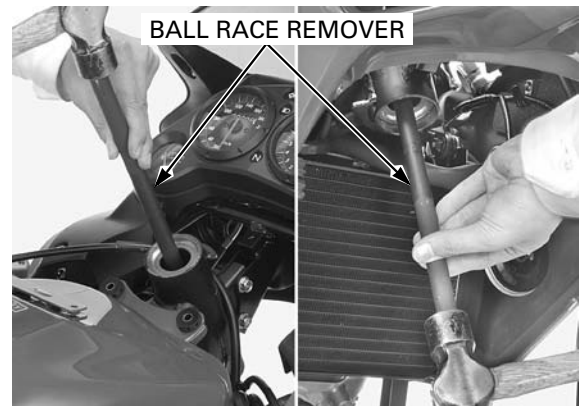
*Replace the steel
balls, outer and
inner races as a set.*

Drive out the upper and lower outer races using a special tool.

TOOL:

Ball race remover

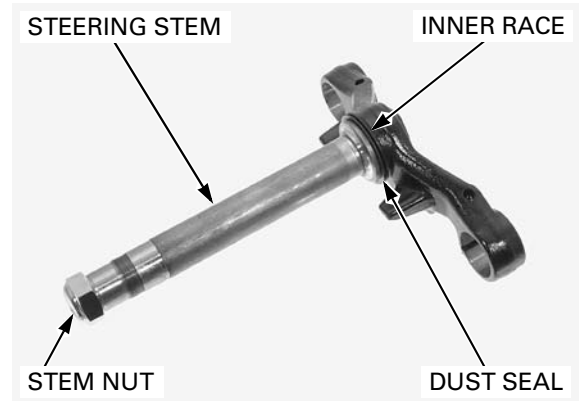
07GMD-KS40100



Temporarily install the steering stem nut onto the steering stem to prevent the threads from being damaged when removing the lower inner race from the steering stem.

Remove the lower inner race with a chisel or equivalent tools, being careful not to damage the steering stem.

Remove the steering head bearing dust seal.



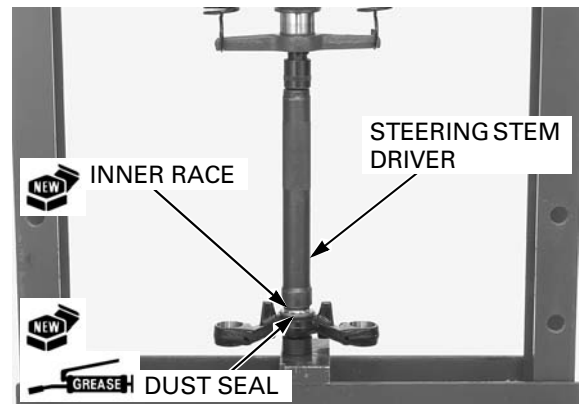
Apply specified grease (page 1-17) to a new steering head bearing dust seal lips and install it to the steering stem.

Install a new lower inner race using a hydraulic press and special tool.

TOOL:

Steering stem driver

07946-4300101

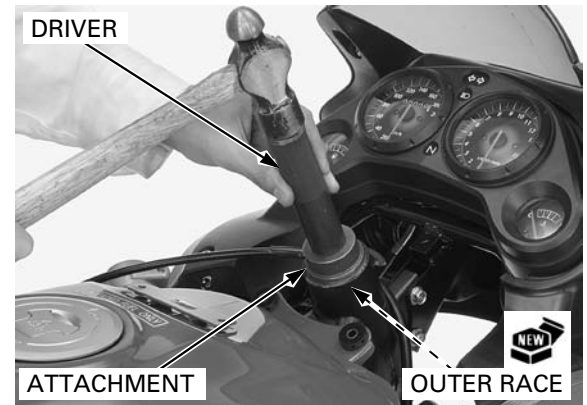


FRONT WHEEL/SUSPENSION/STEERING

Drive in a new upper outer race using the special tools.

TOOLS:

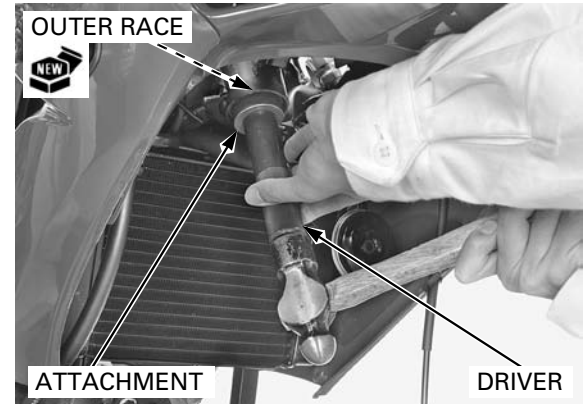
Driver 07749-0010000
Attachment, 42 x 47 mm 07746-0010300



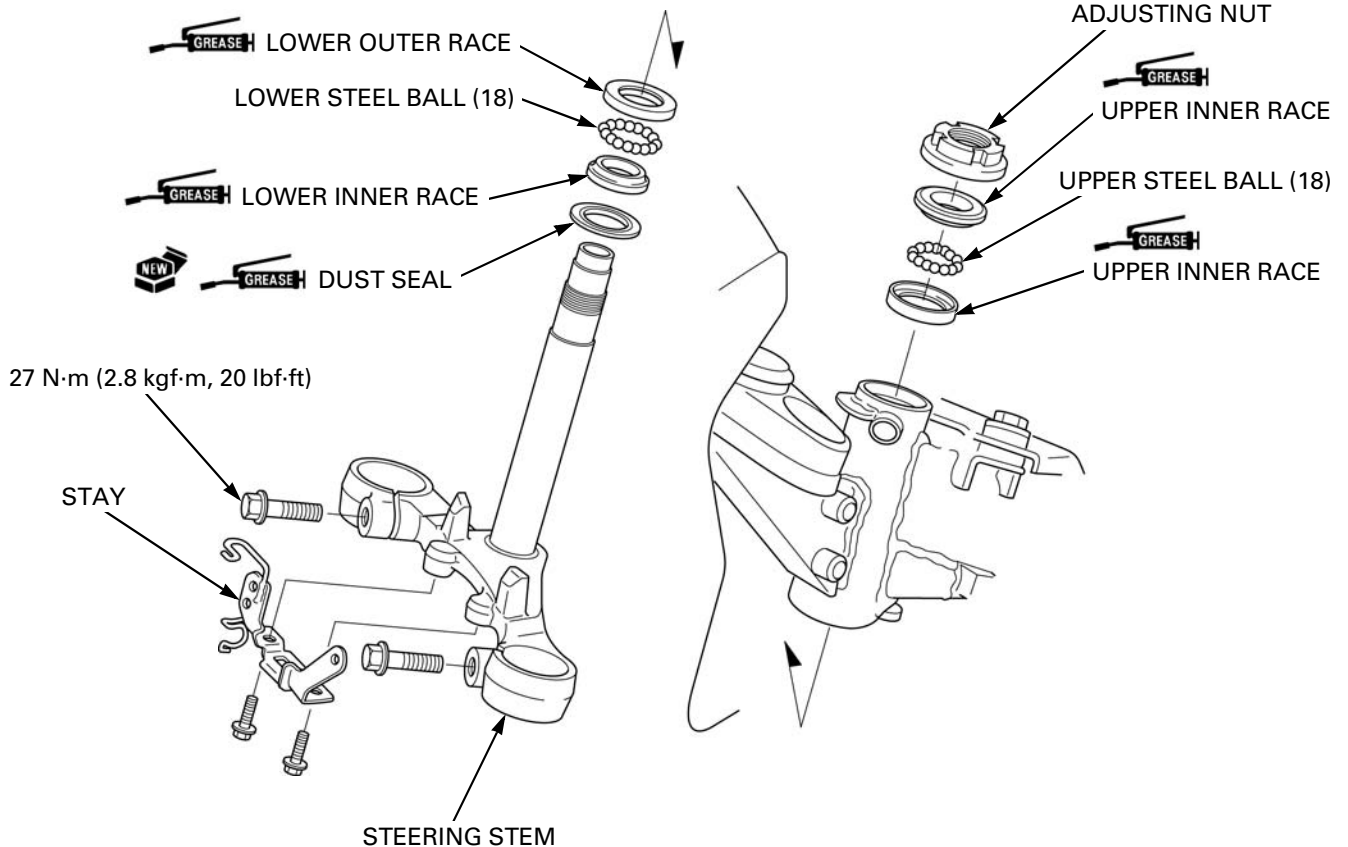
Drive in a new lower outer race using the special tools.

TOOLS:

Driver 07749-0010000
Attachment, 42 x 47 mm 07746-0010300



INSTALLATION

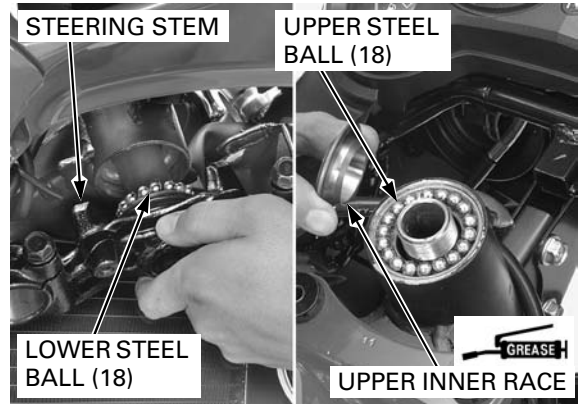


FRONT WHEEL/SUSPENSION/STEERING

Apply specified grease (page 1-17) to each inner races and outer races rolling surface.
Install the steel balls in the lower inner race and upper outer race.

Upper steel ball: 18 Pieces
Lower steel ball: 18 Pieces

Install the steering stem and upper inner race.

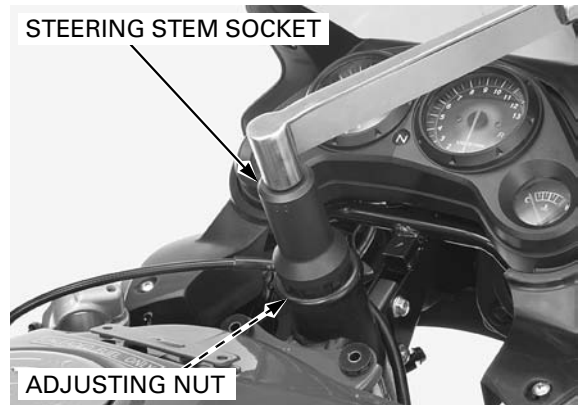


Install and tighten the steering stem adjusting nut to the specified torque using a special tool.

TOOL:

Steering stem socket **07916-3710101**

TORQUE: 27 N·m (2.8 kgf·m, 20 lbf·ft)



Move the steering stem left and right, lock-to-lock five times to seat the bearings.

Loosen the adjusting nut to torque of 0 N·m (0 kgf·m, 0 lbf·ft).

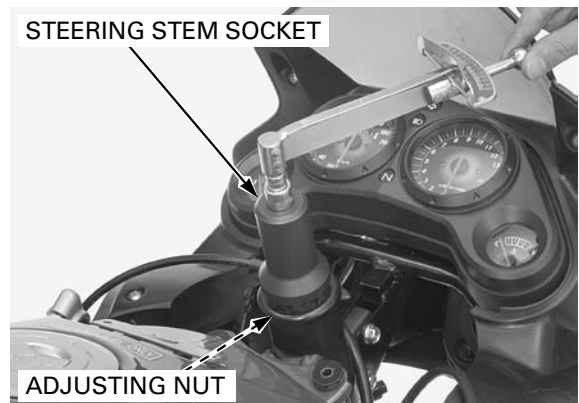


Retighten the adjusting nut to the specified torque using a special tool.

TOOL:

Steering stem socket **07916-3710101**

TORQUE: 1.0 N·m (0.1 kgf·m, 0.7 lbf·ft)



Install the top bridge.

Install the washer and steering stem nut, but do not tighten the steering stem nut yet.

Install the fork legs (page 13-25).

Tighten the steering stem left and right, lock-to-lock several times to make sure the steering stem nut to the specified torque.

TORQUE: 88 N·m (9.0 kgf·m, 65 lbf·ft)

Turn the steering stem left and right, lock-to-lock several times to make sure the steering stem moves smoothly without play or binding.

Route the wires, hose and cable properly (page 1-18).

Install the stay and bolts, tighten the bolts.

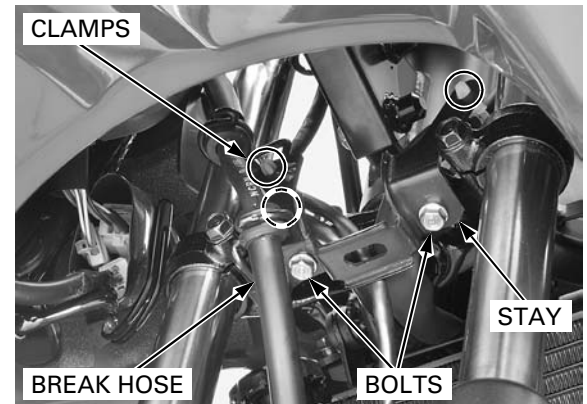
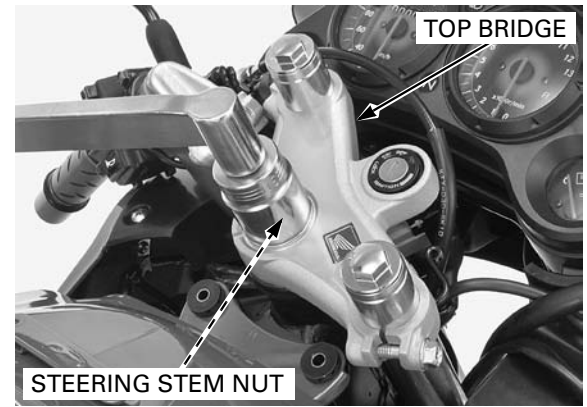
Install the wire harness clamps and brake hose to the stay.

Lift and support the fuel tank.

Connect the ignition switch 2P (Natural) connector.

Close the rubber sheet (page 6-15).

Remove the suitable support and close the fuel tank (page 3-6).



CLUTCH LEVER

REMOVAL/INSTALLATION

Remove the clutch lever pivot nut and bolt.
Remove the clutch lever and disconnect the clutch cable.

