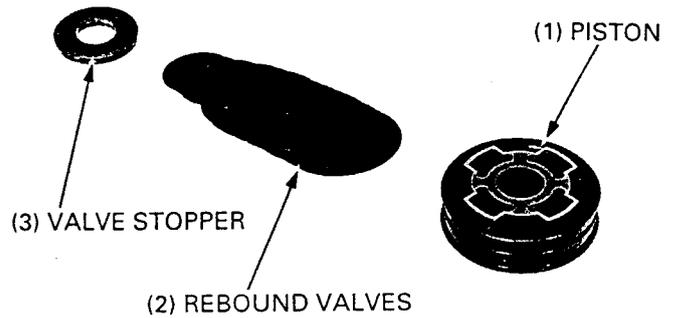


Install the piston onto the damper rod.

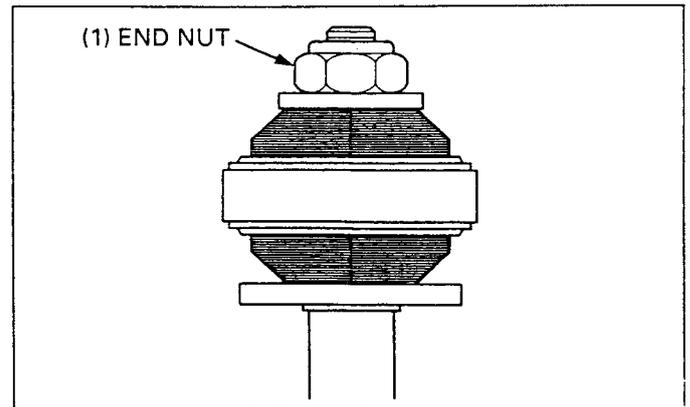
Install the rebound valves with their polished surfaces facing down.

Install the valve stopper.



NOTE

- Note the installation direction of the piston and valves.
- Be careful not to bind the valves when installing the piston onto the damper rod. Also, check that they are concentric with the damper rod.

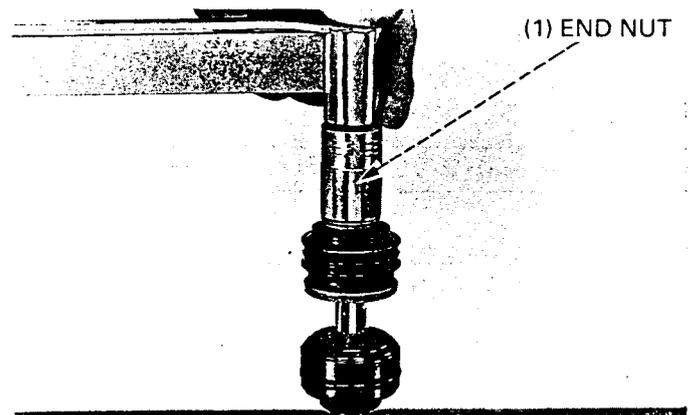


Install and tighten a new end nut to the specified torque.

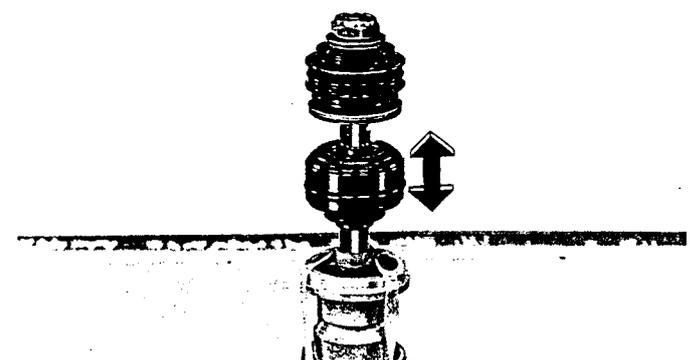
TORQUE: 37 N·m (3.8 kgf·m, 27 lbf·ft)

NOTE

- To prevent damage to the lower mount, use a shop towel or vise with soft jaws.



Coat the damper rod with fork fluid (SS8). Check the rod guide case by sliding it up and down fully to be sure there is no restriction.



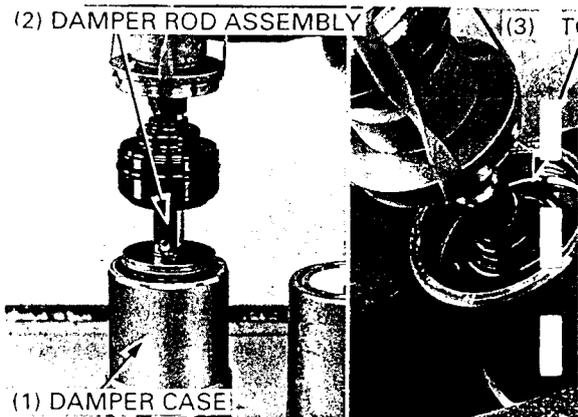
REAR WHEEL/SUSPENSION

Coat the damper case inner surface, piston and O-ring with fork fluid (SS8), and insert the damper rod assembly carefully.

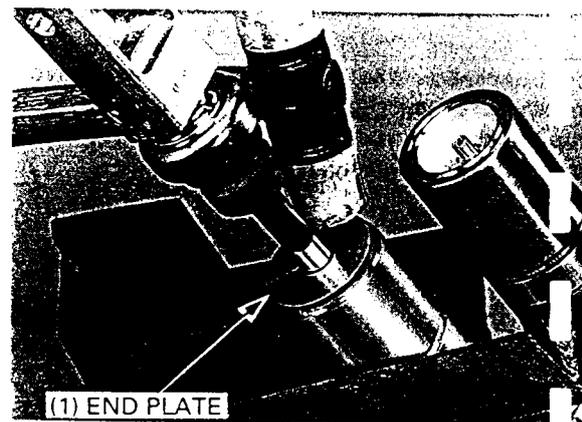
Install the stop ring into the groove in the damper case.

NOTE

- After assembling, check that the stop ring is seated in the groove of the damper case completely. You should not be able to pull it out of the damper case.



Drive the end plate squarely and evenly into the damper case, with a plastic hammer.



Hold the shock absorber gently in a vise by the damper case protected on both side by pieces of wood.

CAUTION

- *Do not overtighten the vise and distort the damper case.*

NOTE

- Hold the shock absorber at the angle shown.

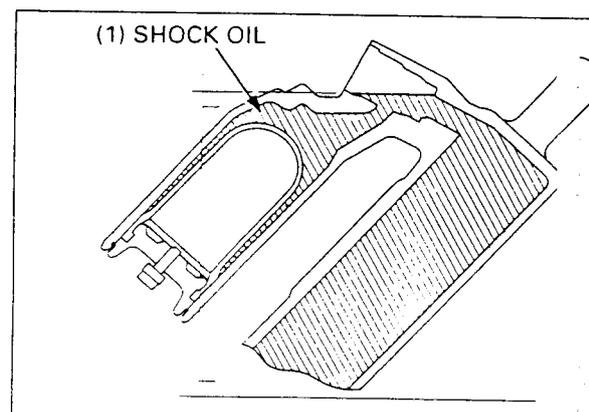
Fill the damper case and reservoir with the recommended oil through the damping adjuster hole.

RECOMMENDED SHOCK OIL: Fork fluid (SS8)

Slowly pump the damper rod until there are no bubbles in the oil that overflows from the damper case.

NOTE

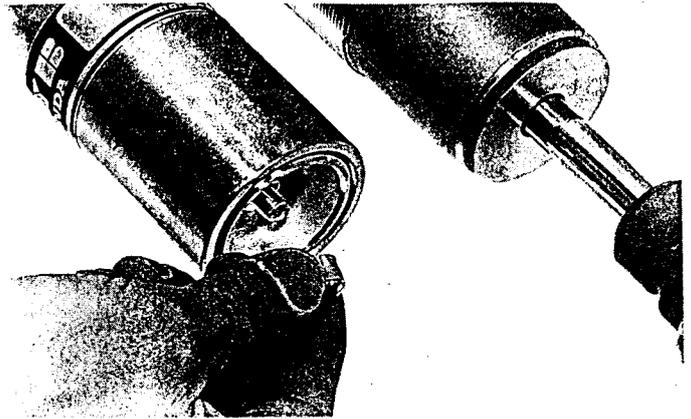
- Do not allow oil to flow out of the reservoir.



Temporarily charge the reservoir with 7.1 psi (49 kPa, 0.5 kg/cm²) of air slowly to inflate the bladder inside.

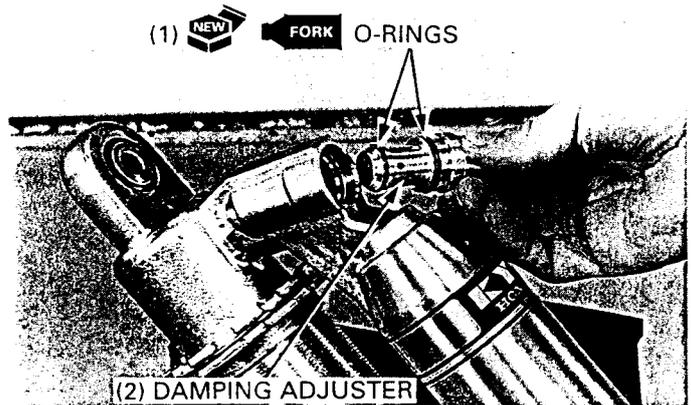
NOTE

- Check for any oil that may leak out of the valve while pressurizing. Replenish oil as necessary. Be sure that the reservoir pressure is correct with an accurate pressure gauge.

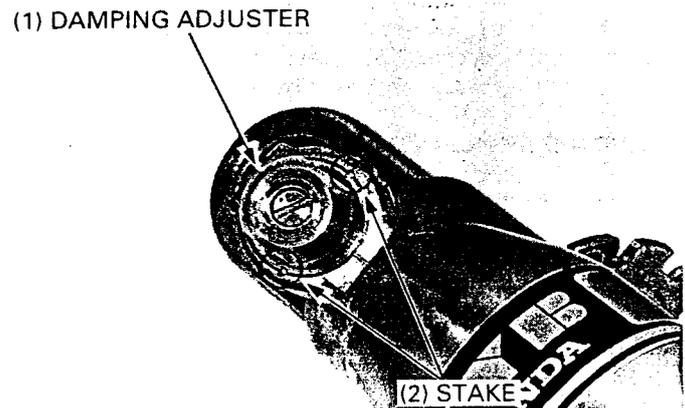


Fill the damper with the recommended shock oil up to the damping adjuster hole neck. Apply oil to the new O-rings and install them on the damping adjuster. Dip the damping adjuster in clean shock oil. Slowly install the damping adjuster, and tighten it to the specified torque.

TORQUE: 20 N·m (2.0 kgf·m, 14 lbf·ft)



Stake the damping adjuster as shown.

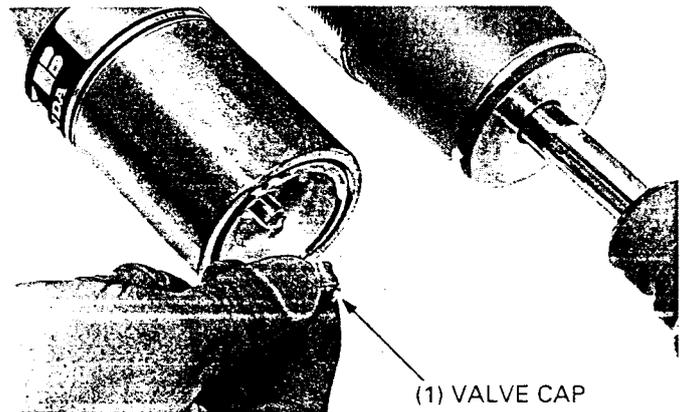


Wipe off all oil from the damper rod; oil left on the damper rod can lead to premature failure of the oil seal. Check for oil leaks. Release the 49 kPa (0.5 kg/cm², 7.1 psi) of air that was in the reservoir at precompression. Fill the reservoir with 981 kPa (10.0 kgf/cm², 142 psi) of nitrogen gas.

▲ WARNING

- *The shock absorber is fitted with a gas-filled reservoir.*
- *Use only nitrogen gas to pressurize the shock absorber.*
- *The use of an unstable gas can cause a fire or explosion resulting in serious injury.*

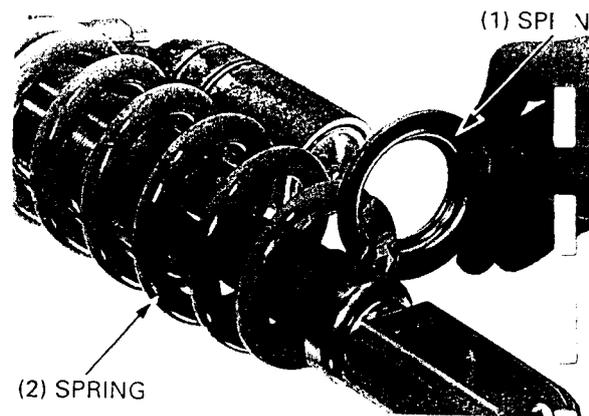
Install the valve cap.



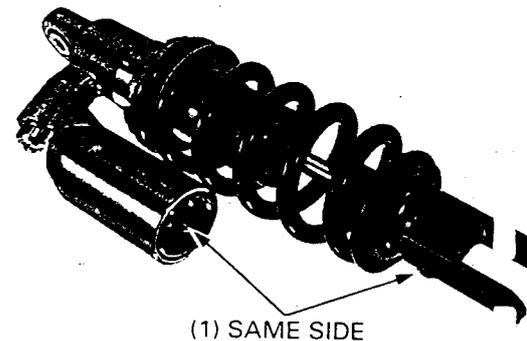
REAR WHEEL/SUSPENSION

Install the shock spring with its narrow wound end facing down.
Install the spring seat.

Temporarily tighten the adjusting nut and lock nut.



Turn the shock absorber lower mount so that the rebound adjuster screw is on the same side of the shock as the reservoir as shown.

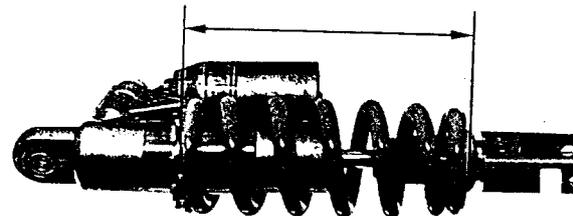


Turn the spring adjusting nut until the spring length measurement recorded at disassembly is reached or until the spring length is as specified below.

STANDARD SPRING INSTALLED LENGTH: 181.5 mm (7.15 in)

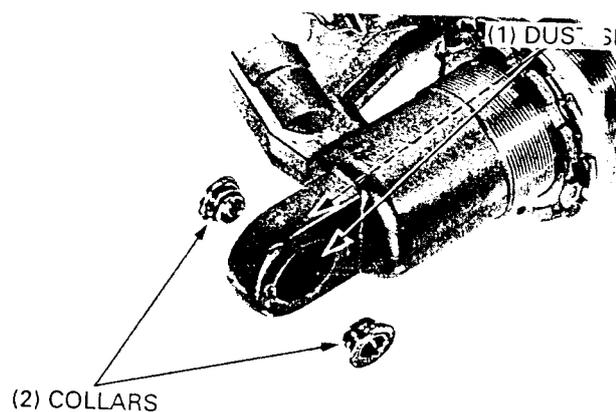
Hold the adjusting nut and tighten the lock nut.

Use this standard spring length just as a base line. See the owner's manual for detailed instructions on adjusting preload and damping settings for rider weight and setting damping for riding conditions and rider skill.

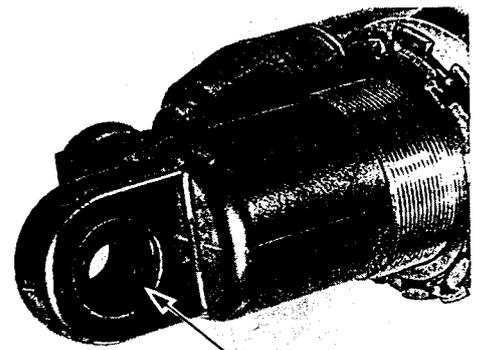


SPHERICAL BEARING REPLACEMENT

Remove the collars and dust seals.



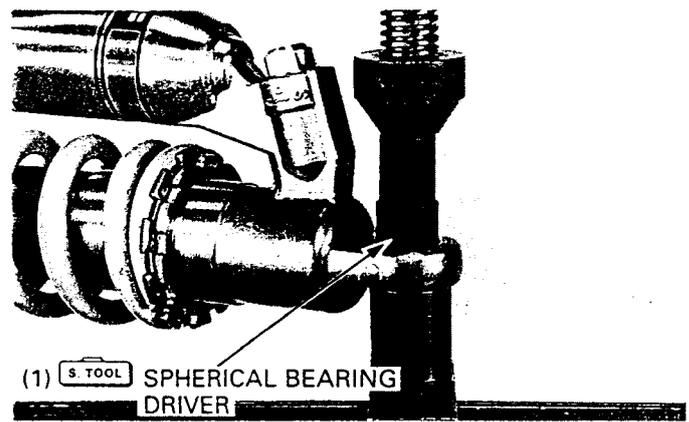
Remove the stop ring.



(1) STOPPER RING

Remove the spherical bearing with using the special tool and a hydraulic press.

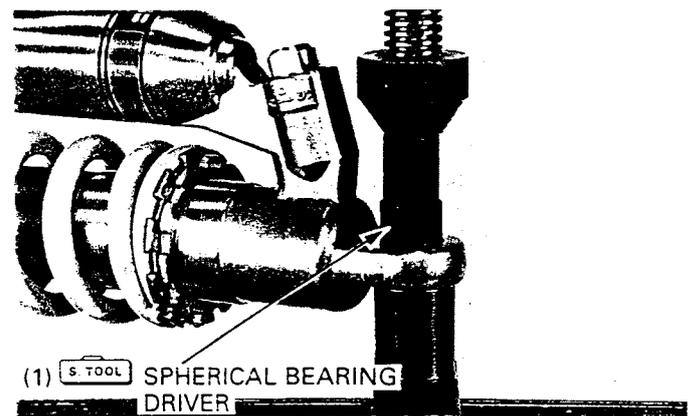
TOOL:
Spherical bearing driver 07HMF - KS60100



(1) S TOOL SPHERICAL BEARING DRIVER

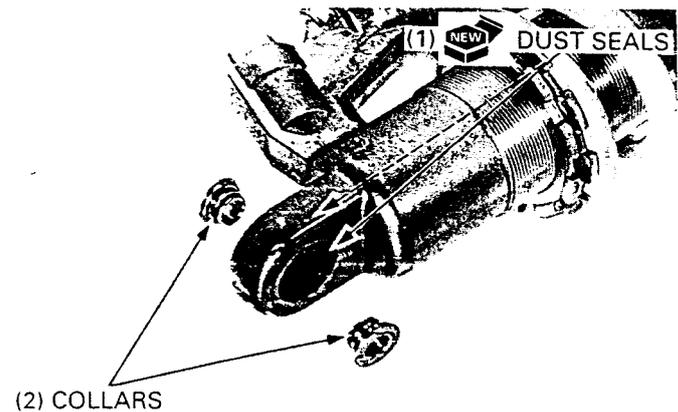
Apply grease to the new spherical bearing.
Install the stop ring into the groove of the upper mount securely.
Press the spherical bearing into the upper mount until it seats against the stop ring end, using the special tool and a hydraulic press.

TOOL:
Spherical bearing driver 07HMF - KS60100



(1) S TOOL SPHERICAL BEARING DRIVER

Install new dust seals.
Install the collars.



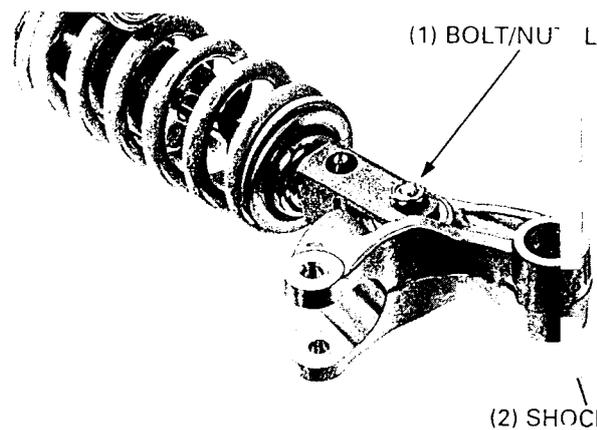
REAR WHEEL/SUSPENSION

INSTALLATION

Install the following:

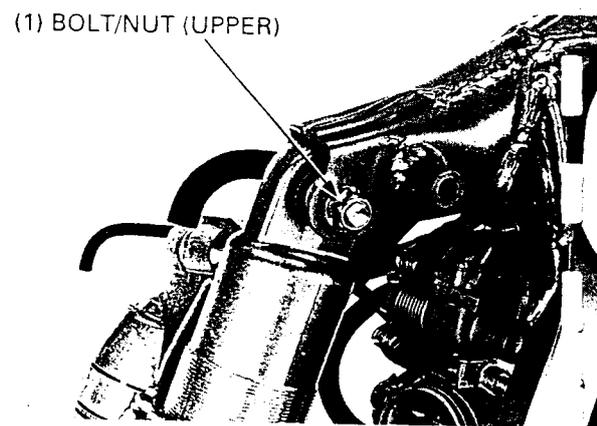
- Shock arm
- Shock absorber bolt/nut (lower)

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)



- Shock absorber/shock arm
- Shock absorber bolt/nut (upper)

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)



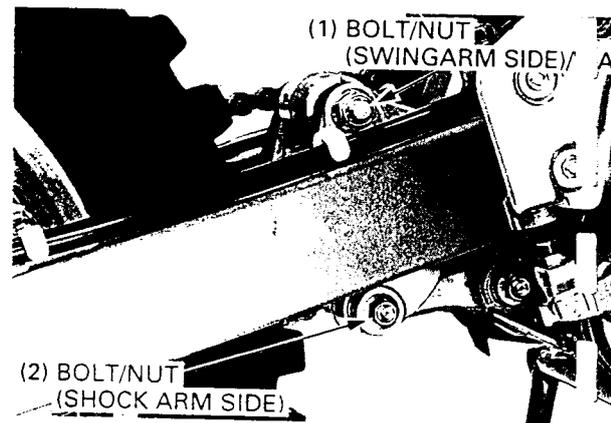
- Washer
- Shock link bolt/nut (shock arm side)

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)

- Shock arm bolt/nut (swingarm side)

TORQUE: 69 N·m (7.0 kgf·m, 51 lbf·ft)

Install the air cleaner housing (page 5-4).



SHOCK LINKAGE

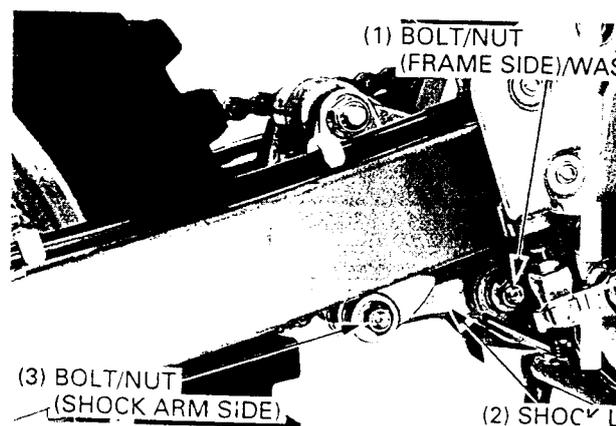
REMOVAL

Shock link

Raise the rear wheel off the ground with a box or work stand under the engine.

Remove the following:

- Shock link bolt/nut (shock arm side)
- Shock link bolt/nut (frame side)
- Washer
- Shock link



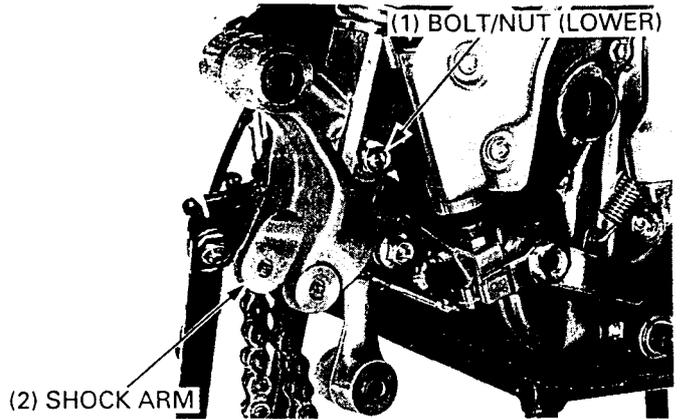
REAR WHEEL/SUSPENSION

Shock arm

Raise the rear wheel off the ground with a box or work stand under the engine.

Remove the following:

- Swingarm (page 14-28)
- Shock absorber bolt/nut (lower)
- Shock arm

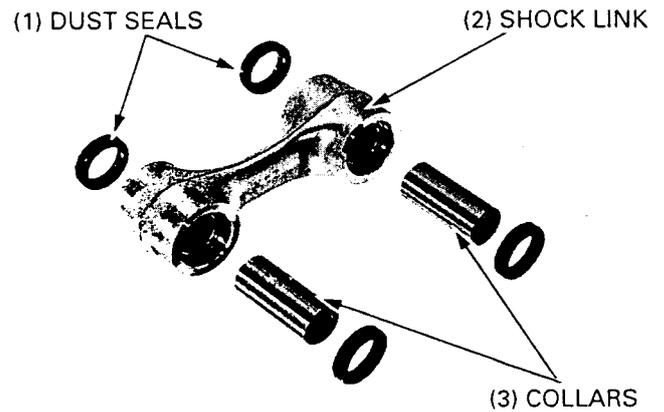


DISASSEMBLY

Shock link

Remove the following:

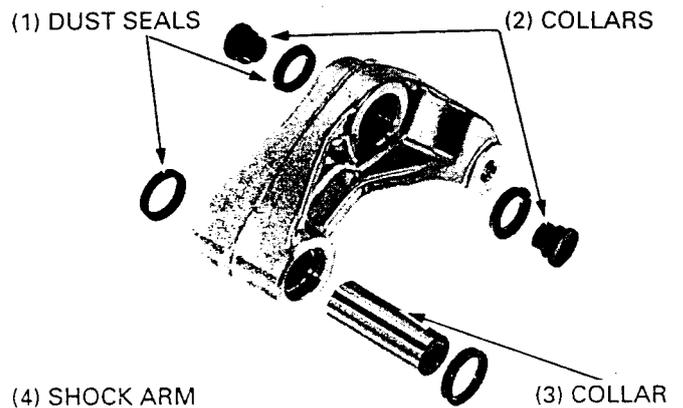
- Dust seals
- Collars
- Shock link



Shock arm

Remove the following:

- Dust seals
- Collar
- Spherical bearing collars
- Shock arm



INSPECTION

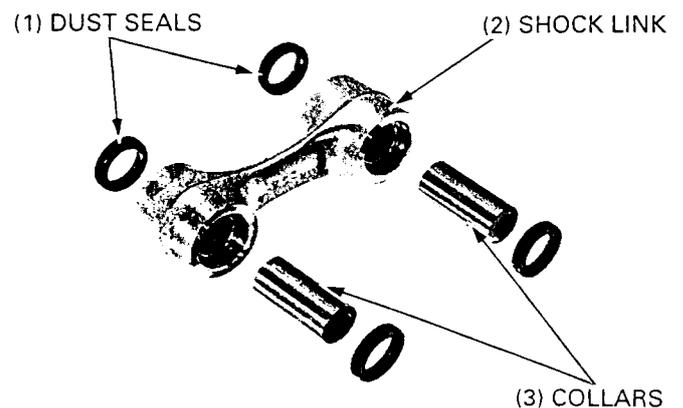
Shock link

Shock link crack or damage → Replace

Dust seal wear or damage → Replace

Collar damage → Replace

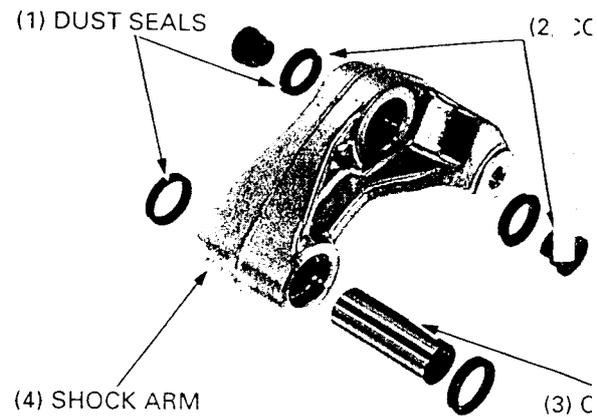
Needle bearing damage → Replace



REAR WHEEL/SUSPENSION

Shock arm

- Shock arm crack or damage → Replace
- Dust seal wear or damage → Replace
- Collar damage → Replace
- Needle bearing damage → Replace
- Spherical bearing damage → Replace
- Spherical bearing collar damage → Replace



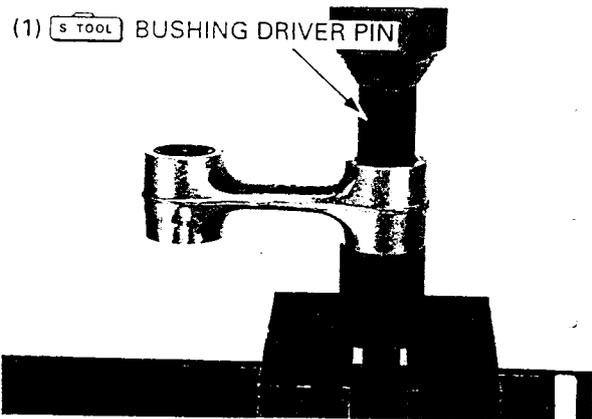
NEEDLE BEARING REPLACEMENT

Shock link

Remove the needle bearing using the special tool and a hydraulic press.

TOOL:

Bushing driver pin 07GMD - KT80100



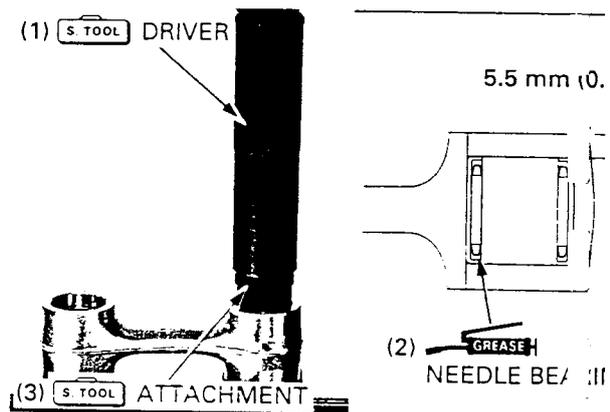
Apply grease to the new needle bearing.
Carefully press the needle bearings into the shock link side pivot to 5.5 mm (0.22 in) below the surface of the pivot on both sides using the special tools and a hydraulic press.

TOOL:

Driver 07749 - 0010000
Attachment, 24 x 26 mm 07746 - 0010700
Pilot, 17 mm 07746 - 0040400

NOTE

- Install the bearings with the marks facing out.

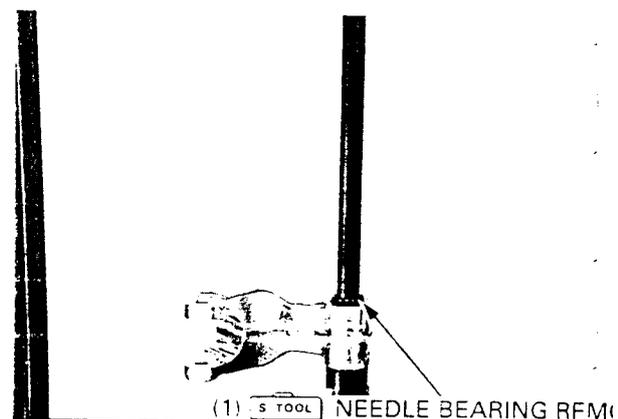


Shock arm

Remove the needle bearing using the special tool and a hydraulic press.

TOOL:

Needle bearing remover 07946 - KA50000



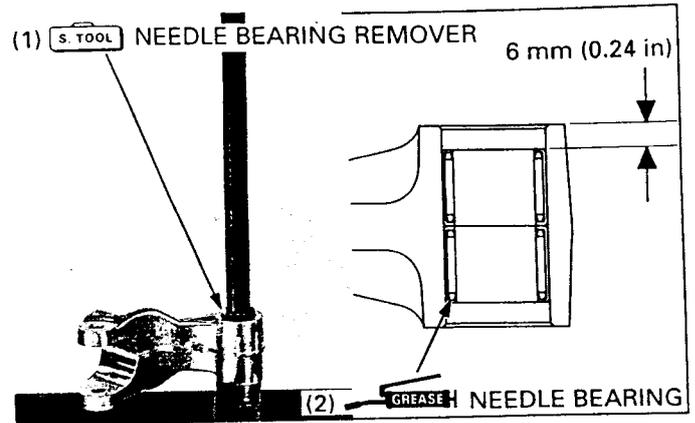
REAR WHEEL/SUSPENSION

Apply grease to the new needle bearing.
Carefully press the needle bearings into the swingarm side pivot to 6.0 mm (0.24 in) below the surface of the pivot on both sides using the special tool.

TOOL:
Needle bearing remover 07946 - KA50000

NOTE

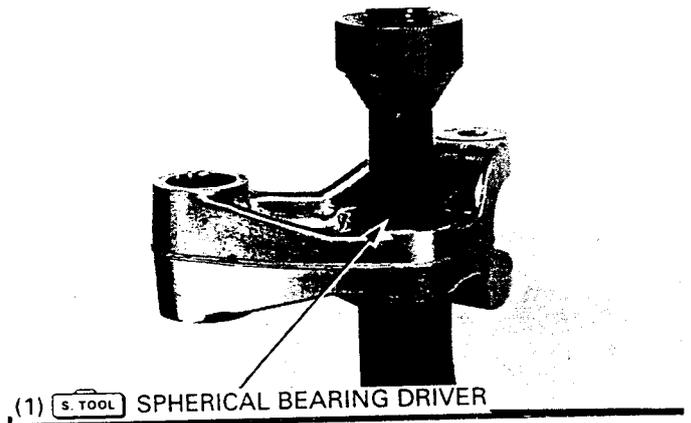
- Install the bearings with the marks facing out.



SPHERICAL BEARING REPLACEMENT

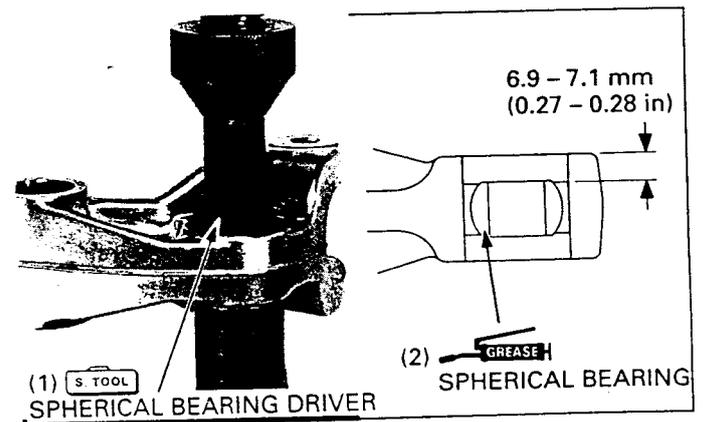
Remove the spherical bearing using the special tool and a hydraulic press.

TOOL:
Spherical bearing driver 07HMF - KS60100



Apply grease to the new spherical bearing.
Carefully press the spherical bearing into the shock arm to 6.9 - 7.1 mm (0.27 - 0.28 in) below the surface using the same tools.

TOOL:
Spherical bearing driver 07HMF - KS60100

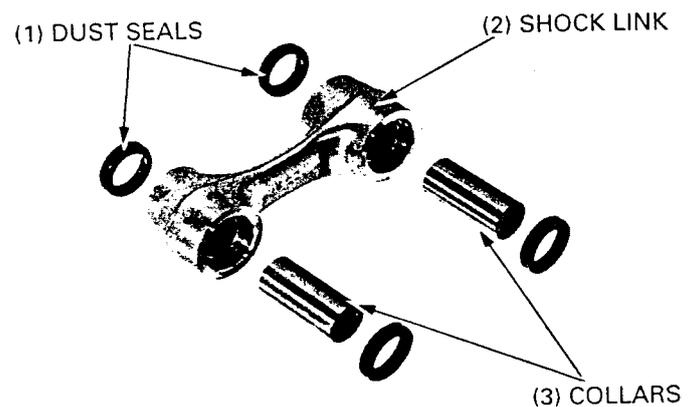


ASSEMBLY

Shock link

Assemble the following:

- Shock link
- Collars
- Dust seals

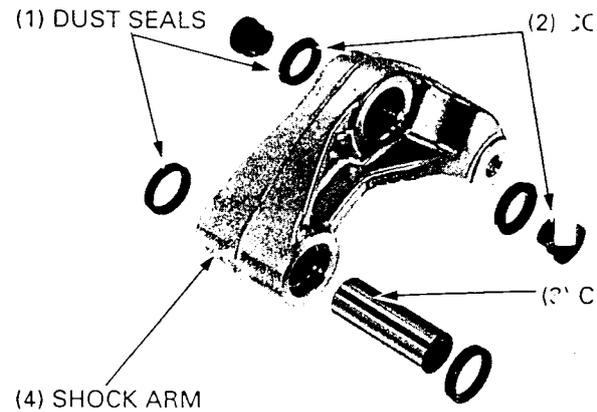


REAR WHEEL/SUSPENSION

Shock arm

Assemble the following:

- Shock arm
- Spherical bearing collars
- Collar
- Dust seals



INSTALLATION

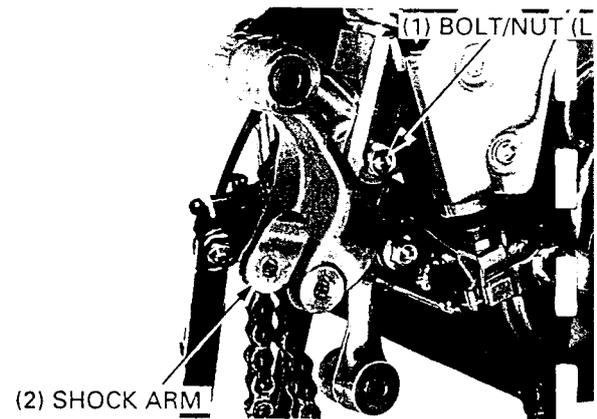
Shock arm

Install the following:

- Shock arm
- Shock absorber bolt/nut (lower)

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)

- Swingarm (page 14-33)



Shock link

Apply grease to the shock link nut (frame side) threads.

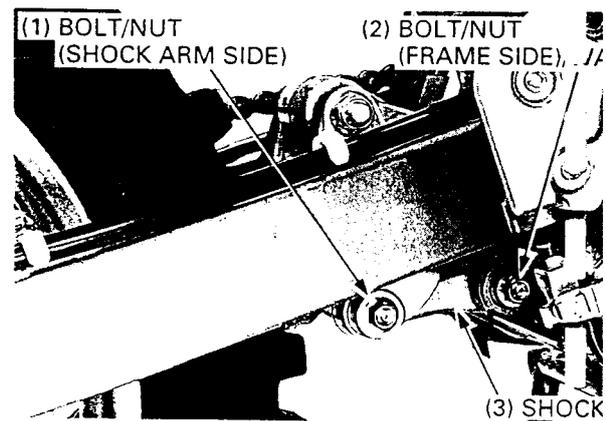
Install the following:

- Shock link
- Shock link bolt (frame side)
- Washer
- Nut

TORQUE: 49 N·m (5.0 kgf·m, 36 lbf·ft)

- Shock link bolt/nut (shock arm side)

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)

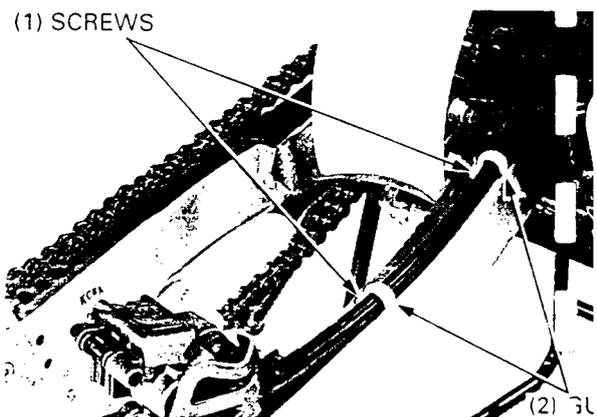


SWINGARM

REMOVAL

Remove the following:

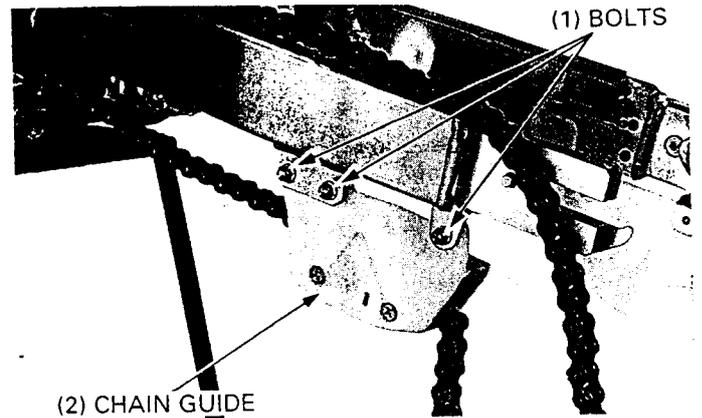
- Rear wheel (page 14-3)
- Screws
- Brake hose guides



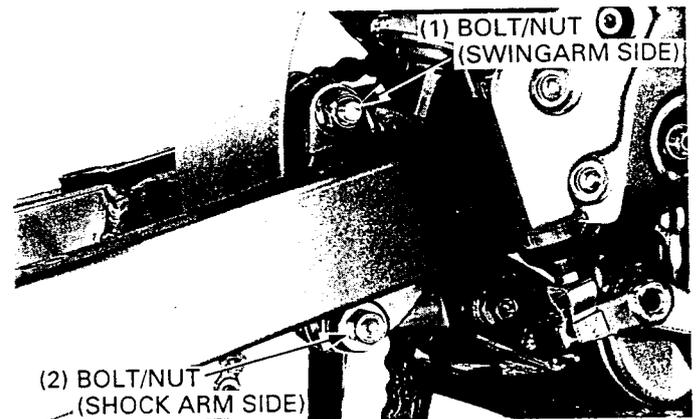
REAR WHEEL/SUSPENSION

Remove the following:

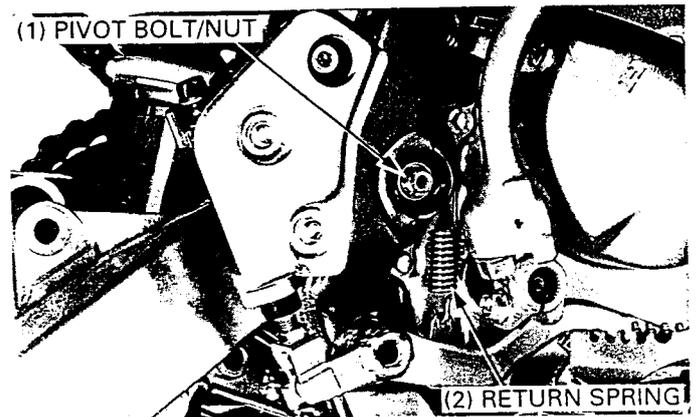
- Chain guide bolts
- Chain guide



- Shock link bolt/nut (shock arm side)
- Shock arm bolt/nut (swingarm side)



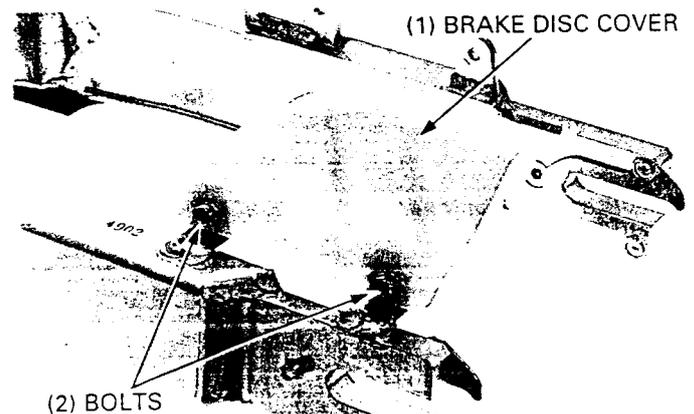
- Brake pedal return spring
- Swingarm pivot bolt/nut
- Swingarm



DISASSEMBLY

Remove the following:

- Bolts
- Brake disc cover

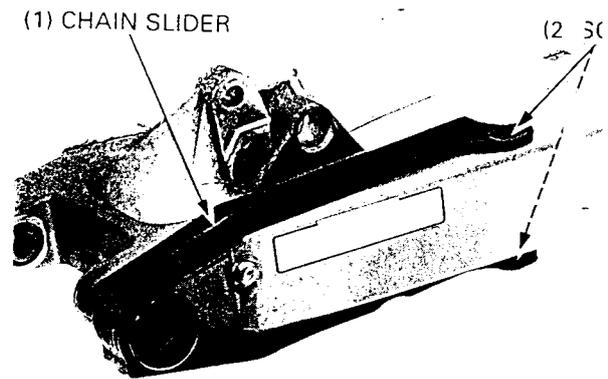


REAR WHEEL/SUSPENSION

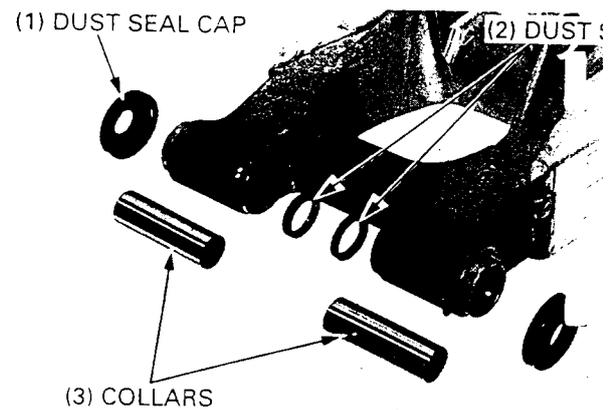
Remove the following:

- Chain slider screws
- Chain slider

Inspect the chain slider and replace if excessive worn or damaged.

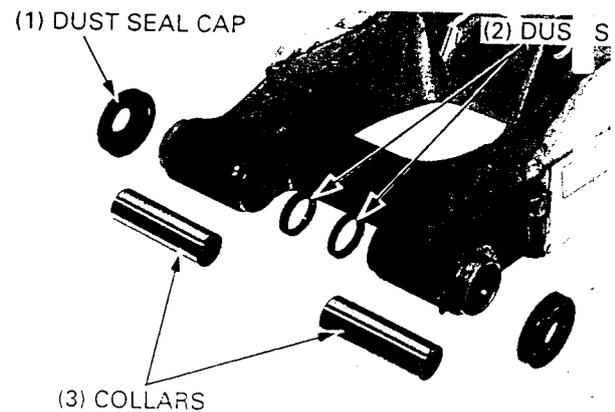


- Dust seal caps
- Dust seals
- Collars



INSPECTION

- Dust seal cap damage → Replace
- Dust seal damage → Replace
- Collar damage → Replace
- Needle bearing damage → Replace
- Swingarm damage → Replace

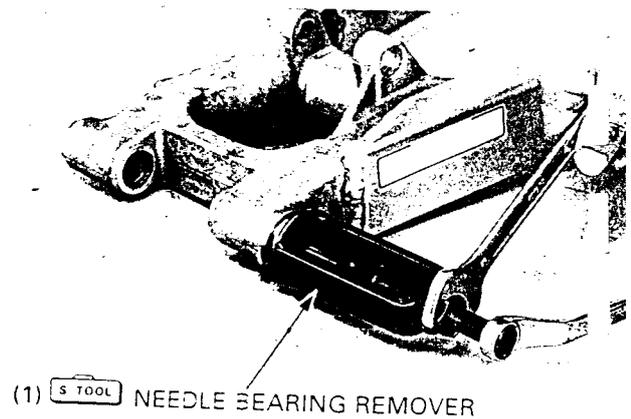


NEEDLE BEARING REPLACEMENT

Remove the outer needle bearings from the swingarm using the special tool.

TOOL:

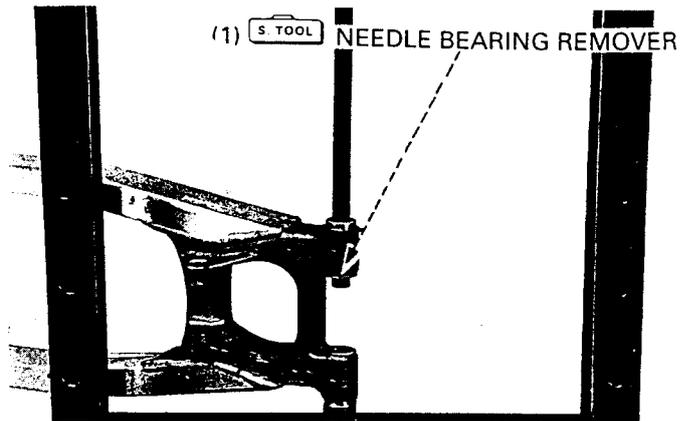
Needle bearing remover 07931 - MA70000



REAR WHEEL/SUSPENSION

Remove the inner needle bearings from the swingarm using the special tool and a hydraulic press.

TOOL:
Needle bearing remover 07946 - KA50000

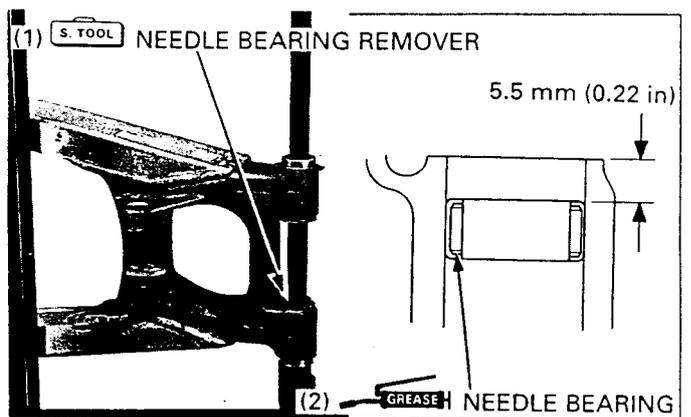


Apply grease to the new needle bearings. Carefully press the inner needle bearings into the shock arm side pivot to 5.5 mm (0.22 in) below the surface of the pivot on both sides.

TOOL:
Needle bearing remover 07946 - KA50000

NOTE

- Install the bearing with the marks facing out.

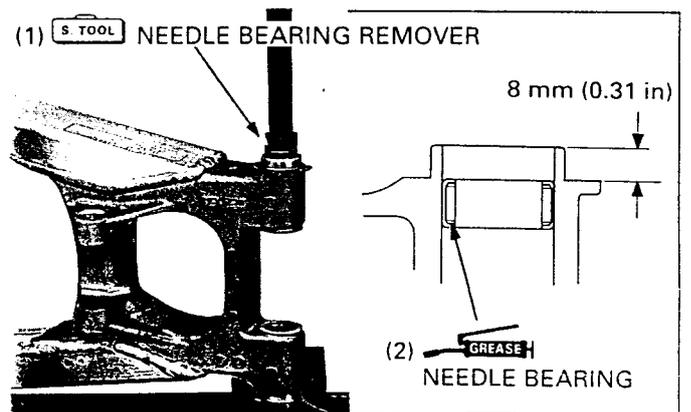


Apply grease to the new needle bearings. Carefully press the outer needle bearings into the frame side of the pivot to 8.0 mm (0.31 in) below the surface of the pivot on both sides.

TOOL:
Needle bearing remover 07946 - KA50000

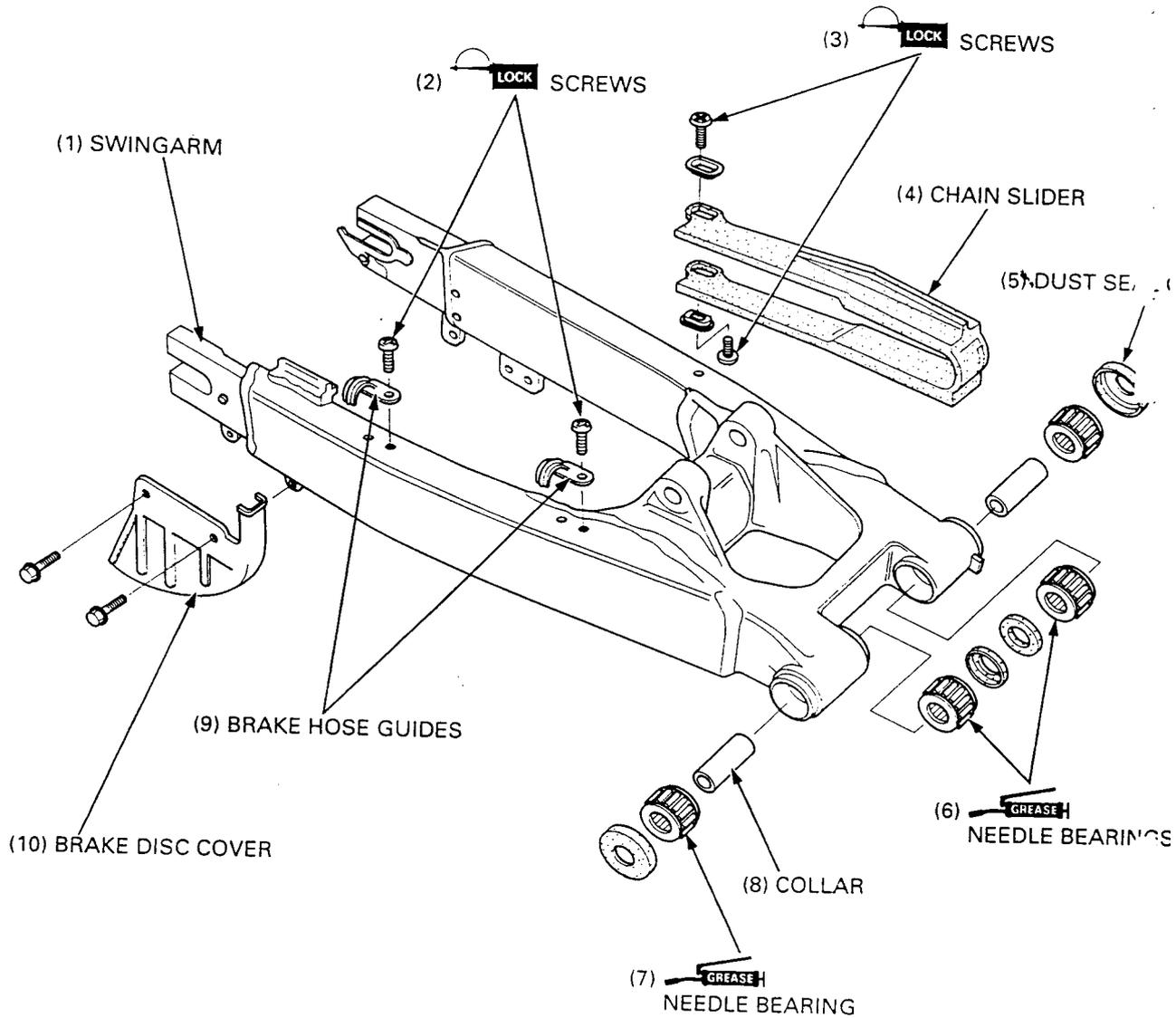
NOTE

- Install the bearings with the marks facing out.



REAR WHEEL/SUSPENSION

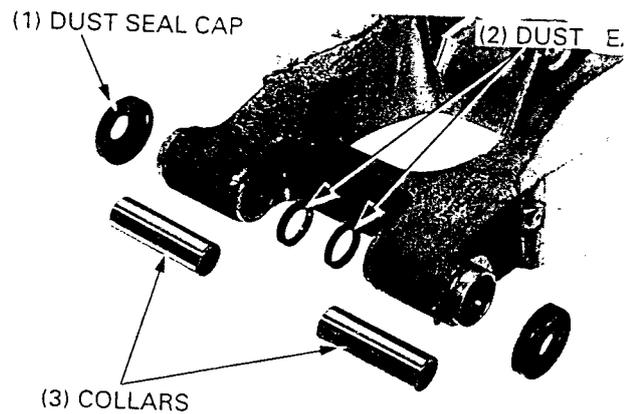
ASSEMBLY



Apply grease to the dust seal lip and dust seal cap lip.

Install the following:

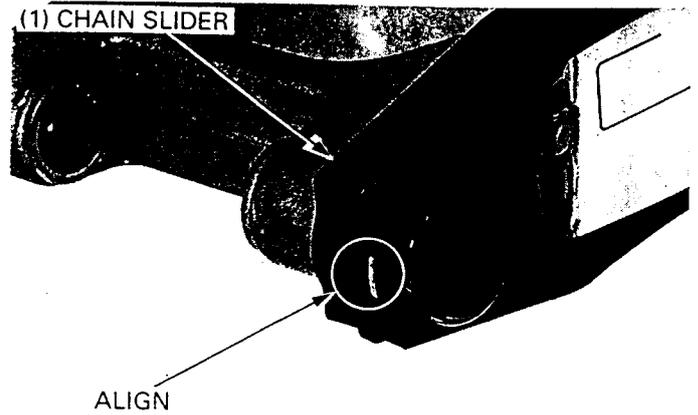
- Collars
- Dust seals
- Dust seal caps



Install the following:
 — Drive chain slider

NOTE

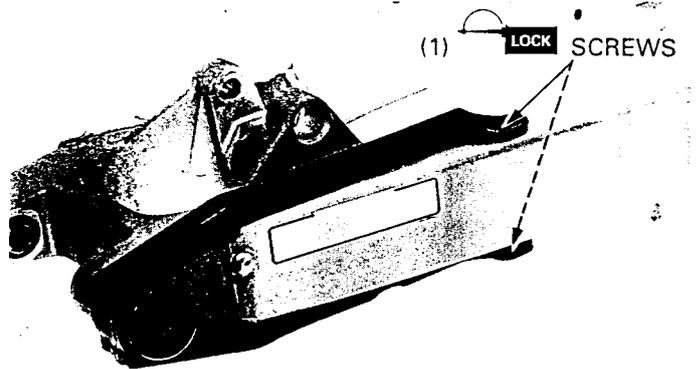
- Align the chain slider hole with the tang on the swingarm.



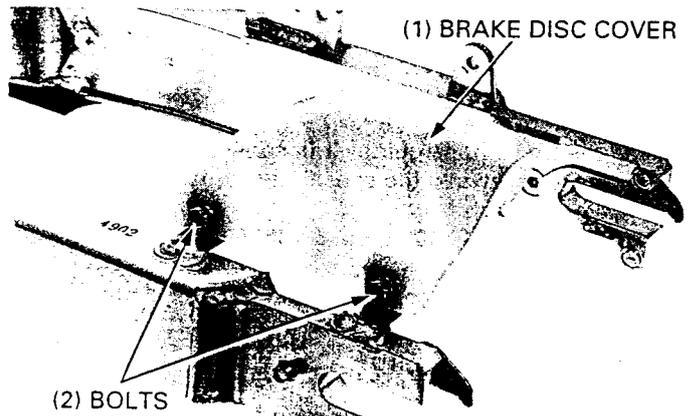
— Drive chain slider screws

NOTE

- Clean the screws and apply a locking agent to the them.



— Brake disc cover
 — Bolts



INSTALLATION

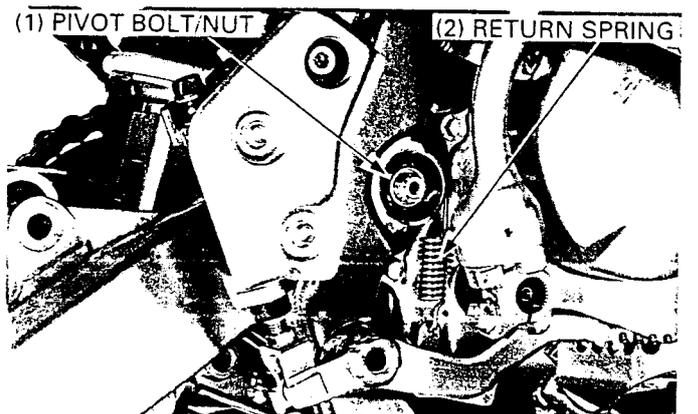
Apply thin coat of grease to the swingarm pivot bolt sliding surface.

Install the swingarm and pivot bolt.

Install and tighten the pivot nut.

TORQUE: 88 N·m (9.0 kgf·m, 65 lbf·ft)

Install the brake pedal return spring.



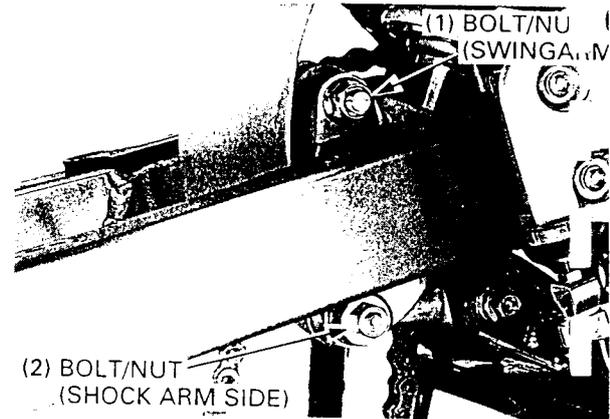
REAR WHEEL/SUSPENSION

Install the shock arm bolt/nut (swingarm side).
Tighten the nut to the specified torque.

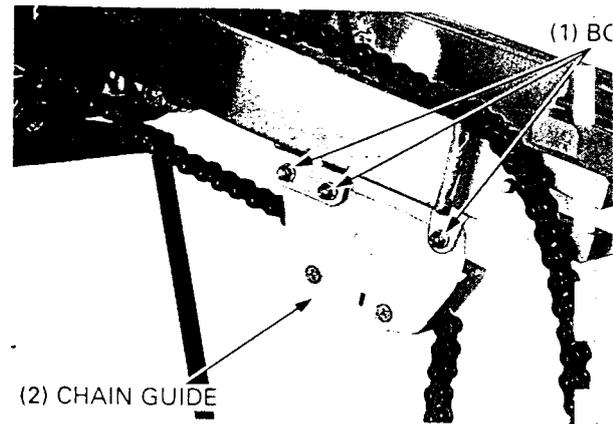
TORQUE: 69 N·m (7.0 kgf·m, 51 lbf·ft)

Install the shock link bolt/nut (shock arm side).
Tighten the nut to the specified torque.

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)



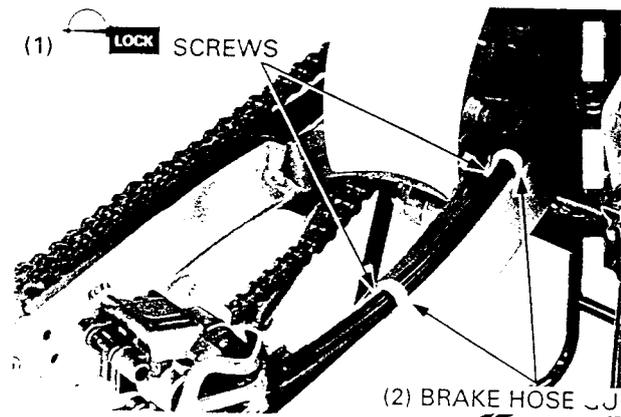
Install the drive chain guide.
Install and tighten the bolts.



Inspect the brake hose guides for damage and replace with new ones if necessary.
Clean the brake hose guides screws and apply a locking agent to them.
Install the brake hose guides and screws.
Tighten the screws to the specified torque.

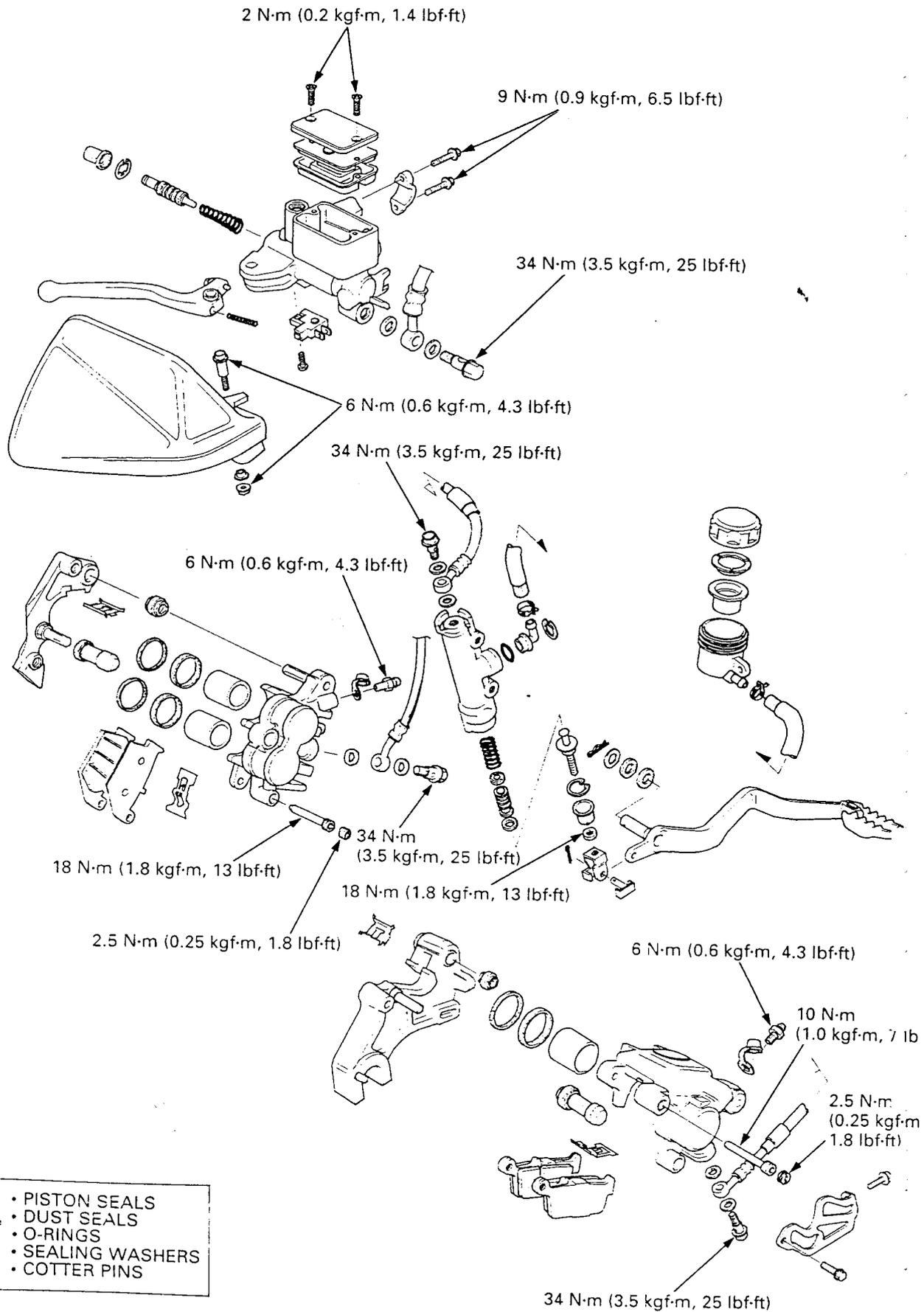
TORQUE: 4.3 Nm (0.43 kgf·m, 3.1 lbf·ft)

Install the rear wheel (page 14-8).



MEMO

BRAKE SYSTEM



- NEW**
- PISTON SEALS
 - DUST SEALS
 - O-RINGS
 - SEALING WASHERS
 - COTTER PINS