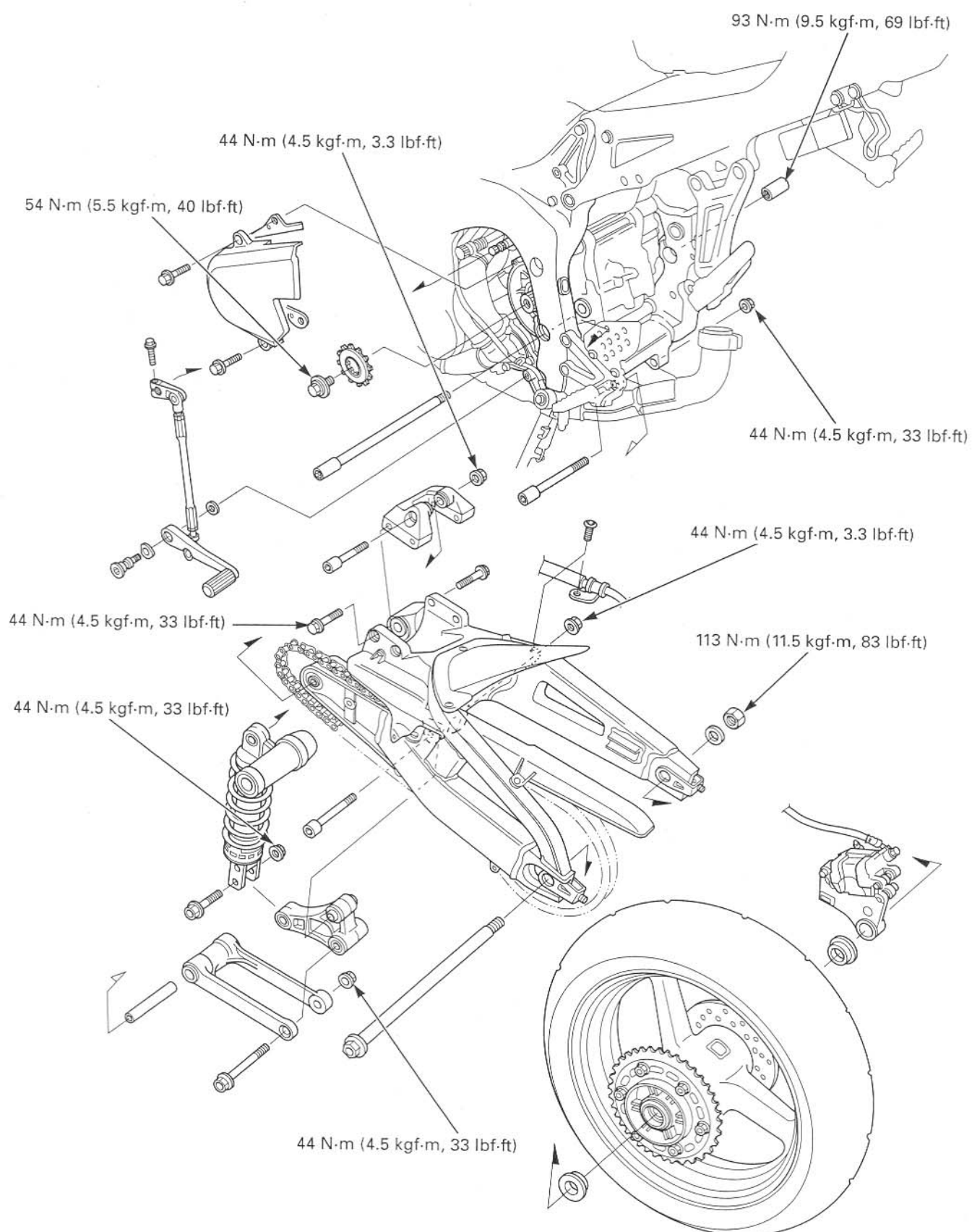


15. REAR WHEEL/SUSPENSION

COMPONENT LOCATION	15-2	SHOCK ABSORBER	15-15
SERVICE INFORMATION	15-3	SUSPENSION LINKAGE	15-18
TROUBLESHOOTING	15-7	SWINGARM	15-21
REAR WHEEL	15-8		

REAR WHEEL/SUSPENSION COMPONENT LOCATION



SERVICE INFORMATION

GENERAL

- A contaminated brake disc or pad reduces stopping power. Discard contaminated pads and clean a contaminated disc with a high quality brake degreasing agent.
- After the rear wheel installation, check the brake operation by applying the brake pedal.
- The shock absorber contains nitrogen under high pressure. Do not allow fire or heat near the shock absorber.
- Before disposal of the shock absorber, release the nitrogen (page 15-17).
- When servicing the rear wheel and suspension, support the motorcycle using a safety stand or hoist.
- Use only tires marked "TUBELESS" and tubeless valves on rim marked "TUBELESS TIRE APPLICABLE".
- Use genuine Honda replacement bolts and nuts for all suspension pivot and mounting point.
- When installing the swingarm, be sure to tighten the swingarm pivot fasteners to the specified torque in the specified sequence. If you mistake the tightening torque or sequence, loosen all pivot fasteners, then tighten them again to the specified torque in the correct sequence.
- Refer to the brake system information (page 16-4).

SPECIFICATIONS

Unit: mm (in)

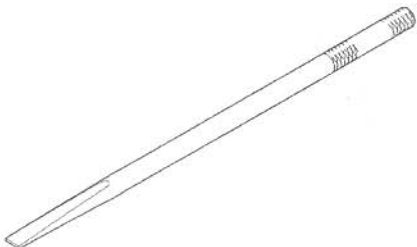
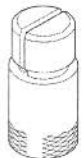
ITEM			STANDARD	SERVICE LIMIT
Minimum tire tread depth			—	2.0 (0.08)
Cold tire pressure	Driver only		290 kPa (2.90 kgf/cm ² , 42 psi)	—
	Driver and passenger		290 kPa (2.90 kgf/cm ² , 42 psi)	—
Axle runout			—	0.2 (0.01)
Wheel rim runout	Radial		—	2.0 (0.08)
	Axial		—	2.0 (0.08)
Wheel balance weight			—	60 g (2.1 oz) max.
Drive chain	Size/link	DID	DIDH525HV-120ZB	—
		RK	RK525ROZ1-120LJ-FZ	—
	Slack		25 – 35 (1 – 1-3/8)	—
Shock absorber	Spring pre-load adjuster standard position		Position 3	—
	Rebound damping adjuster initial setting		1-3/4 turns out from full hard	—
	Compression damping adjuster initial setting		2 turns out from full hard	—

TORQUE VALUES





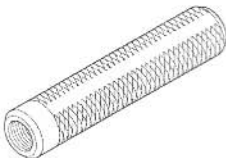




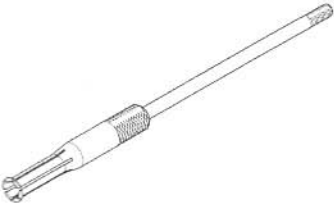
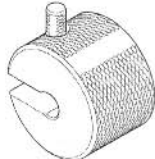

Rear brake disc bolt	42 N·m (4.3 kgf·m, 31 lbf·ft)	ALOC bolt: replace with a new one
Final driven sprocket nut	64 N·m (6.5 kgf·m, 47 lbf·ft)	U-nut
Rear axle nut	113 N·m (11.5 kgf·m, 83 lbf·ft)	U-nut
Rear shock absorber upper mounting nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	U-nut
Rear shock absorber lower mounting nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	U-nut
Shock link-to-frame pivot nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	U-nut
Shock arm-to-shock link nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	U-nut
Shock arm-to-swingarm nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	U-nut
Rear shock absorber bracket mounting bolt	44 N·m (4.5 kgf·m, 33 lbf·ft)	
Drive chain slider bolt	8.8 N·m (0.9 kgf·m, 6.5 lbf·ft)	ALOC bolt: replace with a new one
Swingarm pivot pinch bolt	27 N·m (2.7 kgf·m, 20 lbf·ft)	
Swingarm pivot nut	93 N·m (9.5 kgf·m, 69 lbf·ft)	
Drive sprocket special bolt	54 N·m (5.5 kgf·m, 40 lbf·ft)	

REAR WHEEL/SUSPENSION


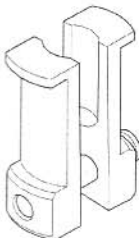

TOOLS

<p>Bearing remover shaft 07GGD-0010100</p> 	<p>Bearing remover head, 25 mm 07746-0050800</p> 	<p>Driver 07749-0010000</p> 
<p>Driver 07949-3710001</p> 	<p>Driver shaft 07946-MJ00100</p> 	<p>Driver head 07946-MJ00201</p> 
<p>Attachment, 37 x 40 mm 07746-0010200</p> 	<p>Attachment, 42 x 47 mm 07746-0010300</p> 	<p>Attachment, 52 x 55 mm 07746-0010400</p> 
<p>Attachment, 24 x 26 mm 07746-0010700</p> 	<p>Attachment, 22 x 24 mm 07746-0010800</p> 	<p>Attachment 40 x 42 mm 07746-0010900</p> 

REAR WHEEL/SUSPENSION

<p>Pilot, 17 mm 07746-0040400</p> 	<p>Pilot, 20 mm 07746-0040500</p> 	<p>Pilot, 25 mm 07746-0040600</p> 
<p>Attachment, 28 X 30 mm 07946-1870100</p> 	<p>Remover handle 07936-3710100</p> 	<p>Bearing remover, 17 mm 07936-3710300</p> 
<p>Pilot, 22 mm 07746-0041000</p> 	<p>Pilot, 28 mm 07746-0041100</p> 	<p>Pilot, 28 mm 07JAD-PH80400</p> 
<p>Bearing remover, 20 mm 07936-3710600</p> 	<p>Remover weight 07741-0010201</p>  <p>or 07936-371020A (U.S.A. only)</p>	<p>Attachment, 34 mm 07ZMD-MBW0100</p> 

REAR WHEEL/SUSPENSION

<p>Attachment, 37 mm 07ZMD-MBW0200</p> 	<p>Needle bearing remover 07HMC-MR70100</p> 	<p>Spherical bearing driver 07HMF-KS60100</p> 
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TROUBLESHOOTING**Soft suspension**

- Weak shock absorber spring
- Incorrect suspension adjustment
- Oil leakage from damper unit
- Insufficient tire pressure

Hard suspension

- Incorrect suspension adjustment
- Damaged rear suspension pivot bearings
- Bent damper rod
- Bent swingarm pivot
- Tire pressure too high

Rear wheel wobbling

- Bent rim
- Worn or damaged rear wheel bearings
- Faulty rear tire
- Unbalanced rear tire and wheel
- Insufficient rear tire pressure
- Faulty swingarm pivot bearings

Rear wheel turns hard

- Faulty rear wheel bearings
- Bent rear axle
- Rear brake drag
- Drive chain too tight

Rear suspension noise

- Faulty rear shock absorber
- Loose rear suspension fasteners
- Worn rear suspension pivot bearings

Steers to one side or does not track straight

- Bent rear axle
- Axle alignment/chain adjustment not equal on both sides

REAR WHEEL/SUSPENSION

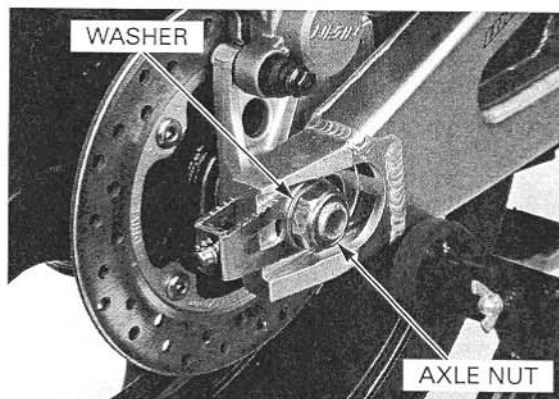
REAR WHEEL

REMOVAL

Support the motorcycle using a safety stand or a hoist, raise the rear wheel off the ground.

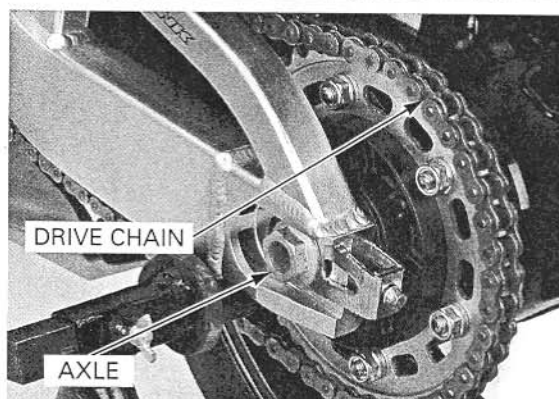
Adjust the drive chain slack fully (page 4-21).

Remove the axle nut and washer.



Push the rear wheel forward.
Remove the rear axle.

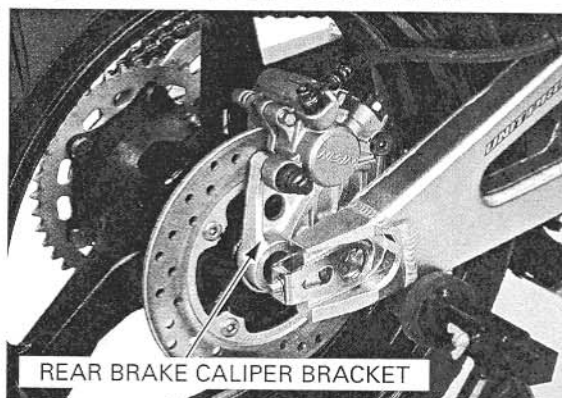
Derail the drive chain from the driven sprocket.



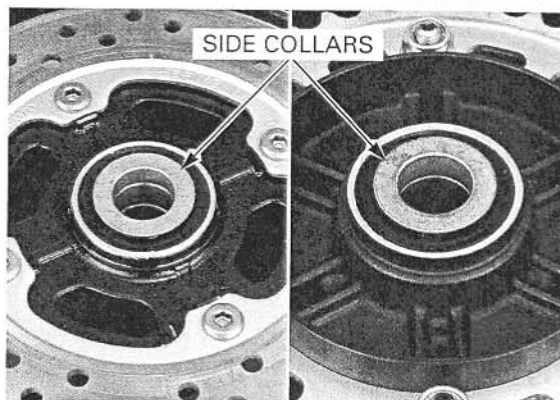
Do not hang the caliper by the brake hose. Do not twist the brake hose. Do not operate the brake pedal after removing the rear wheel.

Remove the rear brake caliper bracket by moving it backward.

Remove the rear wheel.



Remove the side collars.

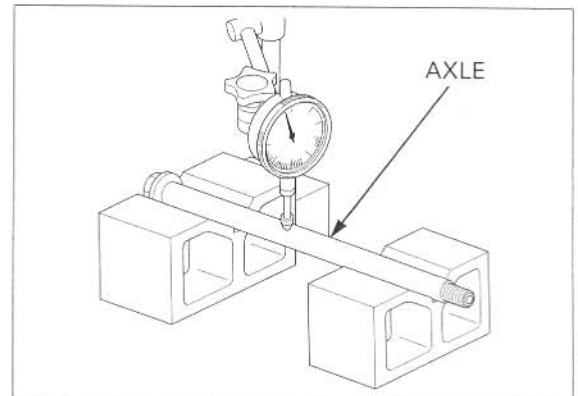


INSPECTION

Axle

Place the axle on V-blocks and measure the runout. Actual runout is 1/2 the total indicator reading.

SERVICE LIMIT: 0.2 mm (0.01 in)

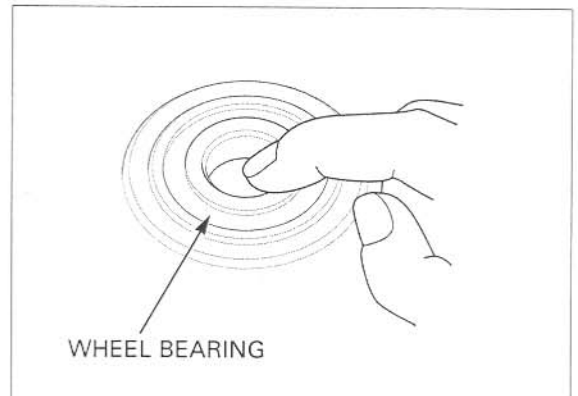


Wheel bearing

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

Replace the wheel bearings in pairs.

Remove and discard the bearings if the races do not turn smoothly and quietly, or if they fit loosely in the hub or driven flange.



Wheel rim runout

Check the rim runout by placing the wheel in a turning stand.

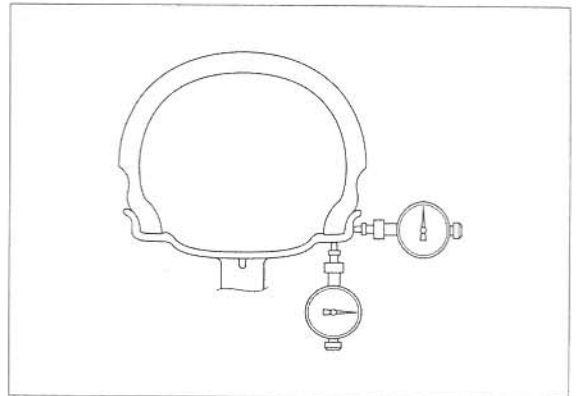
Spin the wheel slowly and read the runout using a dial indicator.

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)



Driven sprocket

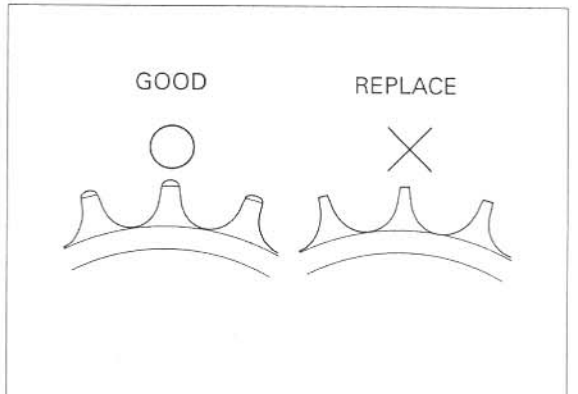
Check the condition of the final driven sprocket teeth.

Replace the sprocket if worn or damaged.

- If the final driven sprocket requires replacement, inspect the drive chain and drive sprocket.
- Never install a new drive chain on a worn sprocket or a worn chain on new sprockets. Both chain and sprocket must be in good condition or the replacement chain or sprocket will wear rapidly.

Wheel balance

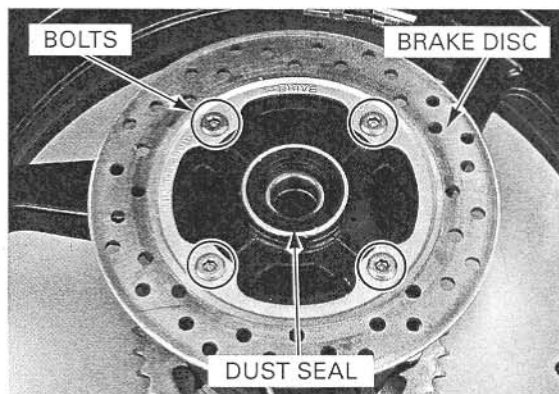
Refer to the wheel balance servicing (page 14-14).



REAR WHEEL/SUSPENSION

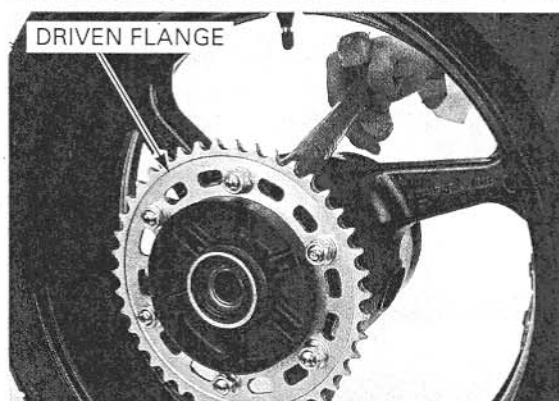
DISASSEMBLY

Remove the bolts and brake disc.
Remove the right dust seal.

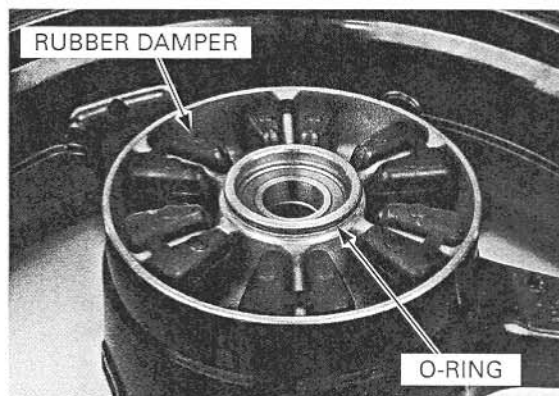


If you will be disassemble the driven flange, loosen the driven sprocket nuts and bolts before removing the driven flange from the wheel hub.

Remove the driven flange assembly from the left wheel hub.



Remove the wheel rubber dampers.
Remove the O-ring.

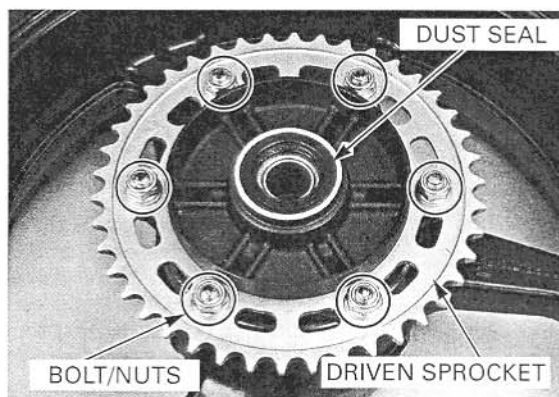


Driven flange bearing removal

Loosen the driven sprocket nuts.

Remove the driven flange from the wheel hub, then remove the driven sprocket nuts, sprocket and bolts.

Remove the dust seal.



REAR WHEEL/SUSPENSION

Press the driven flange collar out of the driven flange bearings.

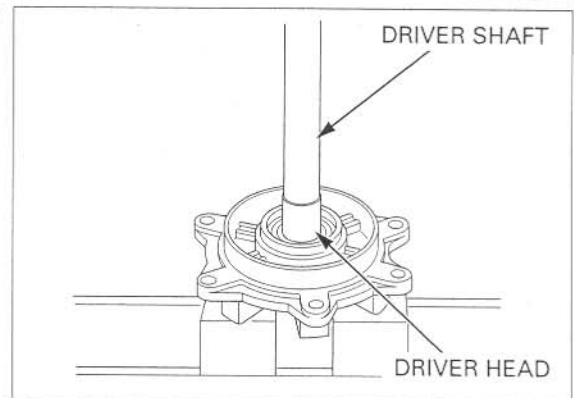
TOOLS:

Driver shaft

07946-MJ00100

Driver head

07946-MJ00201



Drive out the driven flange bearings using the special tools.

TOOLS:

Driver

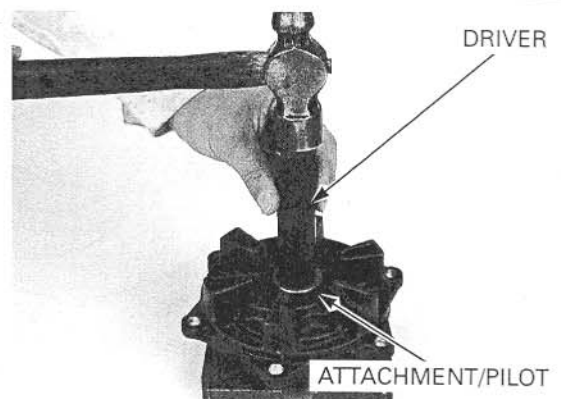
07749-0010000

Attachment, 40 X 42 mm

07746-0010900

Pilot, 28 mm

07JAD-PH80400



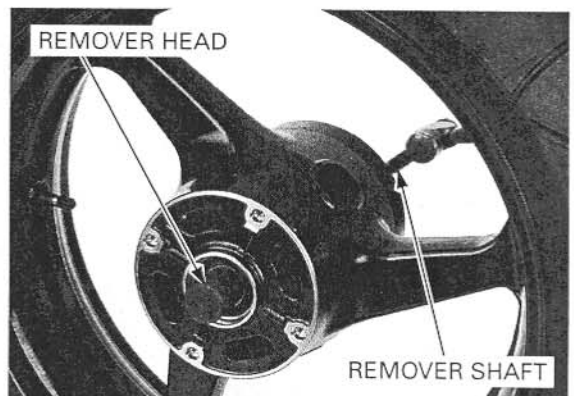
Wheel bearing removal

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:

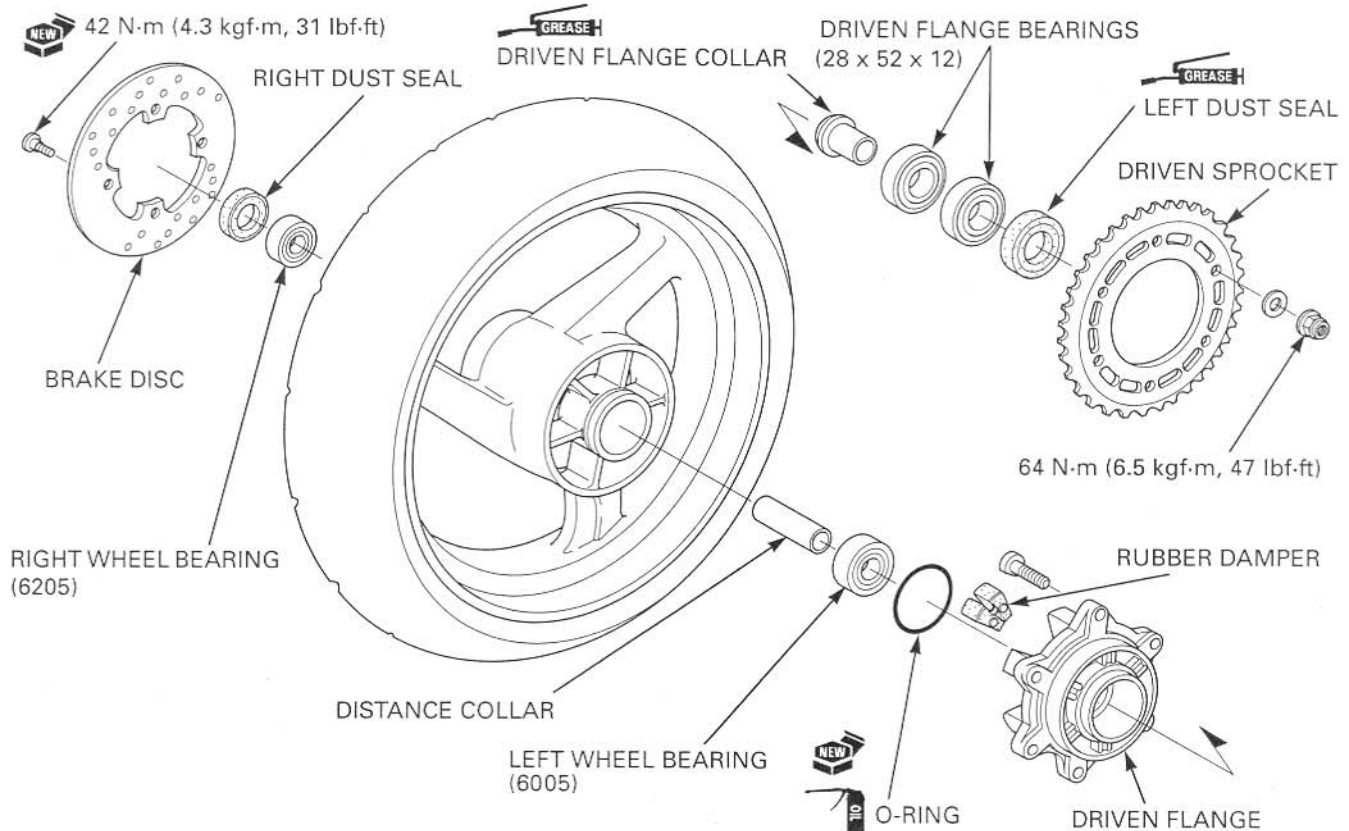
Bearing remover head, 25 mm 07746-0050800

Bearing remover shaft 07GGD-0010100



REAR WHEEL/SUSPENSION

ASSEMBLY



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

Wheel bearing installation

Drive in a new left bearing squarely.

TOOLS:

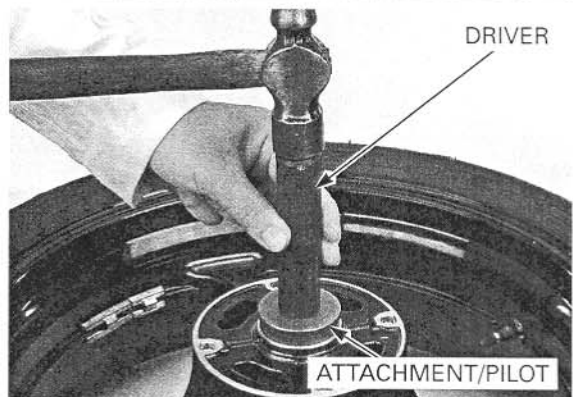
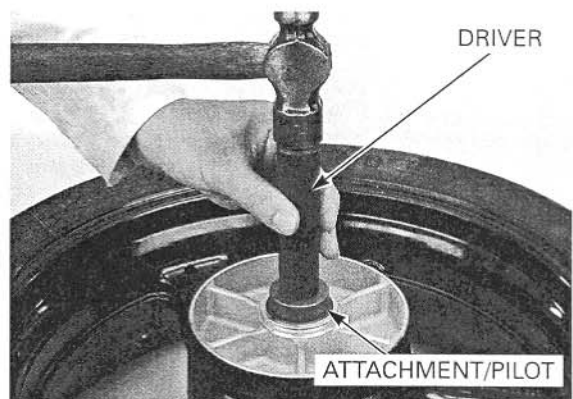
Driver	07749-0010000
Attachment, 42 X 47 mm	07746-0010300
Pilot, 25 mm	07746-0040600

Install the distance collar

Drive in a new right bearing squarely.

TOOLS:

Driver	07749-0010000
Attachment, 52 X 55 mm	07746-0010400
Pilot, 25 mm	07746-0040600

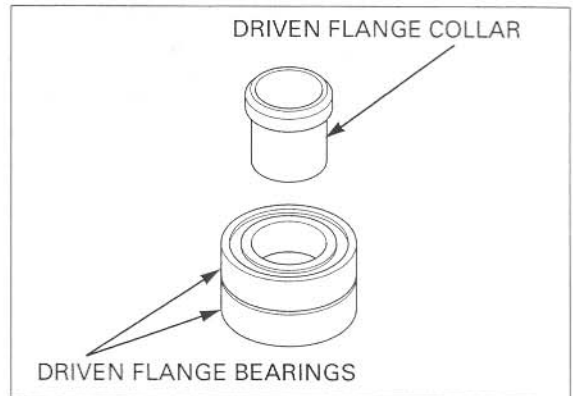


REAR WHEEL/SUSPENSION

Press the driven flange collar in the new driven flange bearings until it is fully seated.

TOOLS:

Driver	07749-0010000
Attachment, 28 X 30 mm	07946-1870100
Pilot, 25 mm	07746-0040600

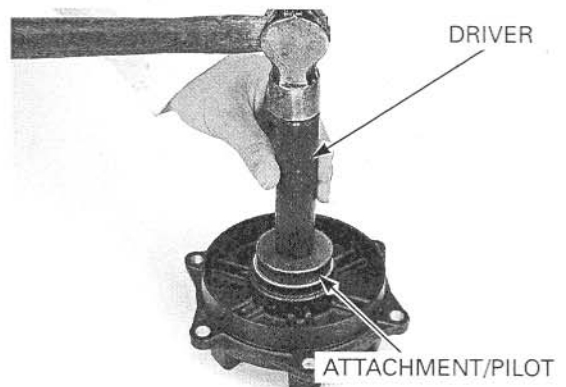


Driven flange bearing installation

Drive the new driven flange bearings/collar into the driven flange using the special tools.

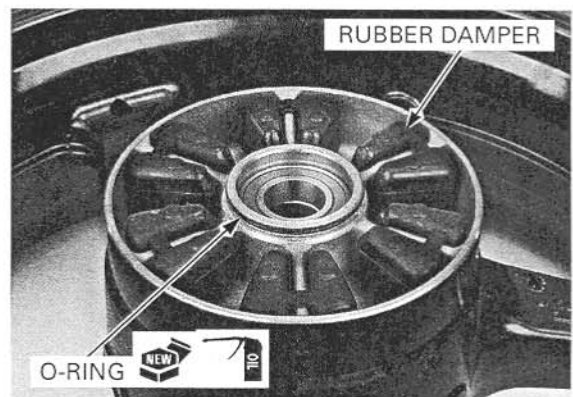
TOOLS:

Driver	07749-0010000
Attachment, 52 X 55 mm	07746-0010400
Pilot, 25 mm	07746-0040600



Install the wheel rubber dampers into the wheel hub.

Apply oil to a new O-ring and install it into the groove of the wheel hub.

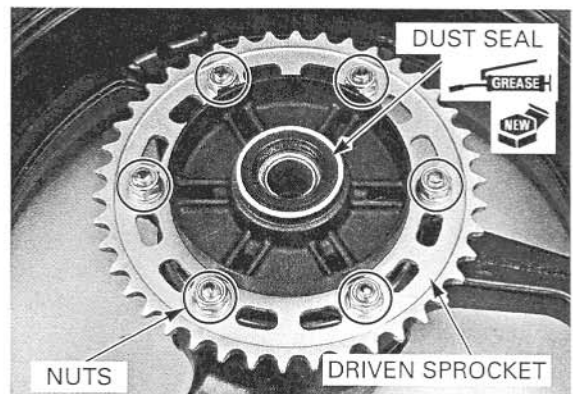


Install the driven flange assembly into the left wheel hub.

If the driven sprocket was removed, install the driven sprocket bolt, sprocket and tighten the nuts to the specified torque.

TORQUE: 64 N·m (6.5 kgf·m, 47 lbf·ft)

Apply grease to a new dust seal lip, then install it into the driven flange.

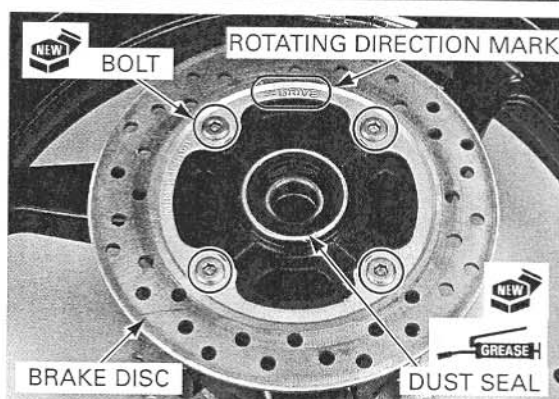


REAR WHEEL/SUSPENSION

Install the brake disc with its rotating direction mark facing out.
Tighten the new brake disc bolts to the specified torque.

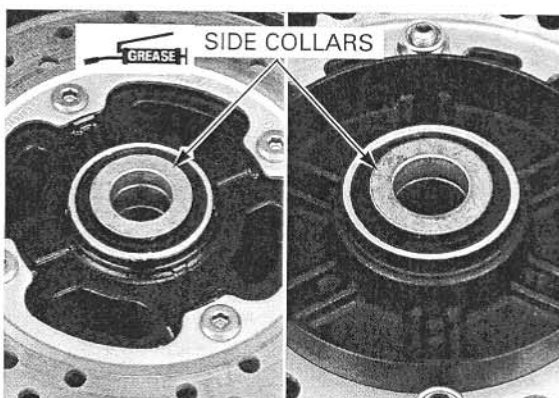
TORQUE: 42 N·m (4.3 kgf·m, 31 lbf·ft)

Apply grease to a new dust seal lip, then install it into the wheel hub.



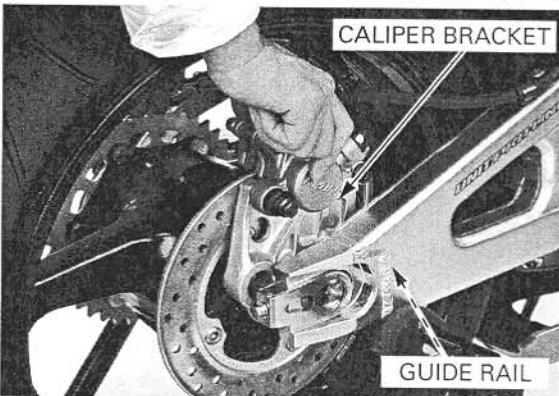
INSTALLATION

Apply grease to the side collars inside and grooves.
Install the side collars.



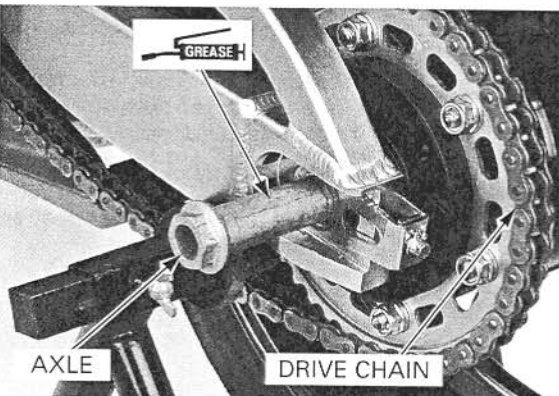
Be careful not to damage the brake pads.

Install the rear brake caliper bracket onto the guide rail of the swingarm while place the rear wheel into the swingarm.



Install the drive chain over the driven sprocket.

Apply a thin coat of grease to the axle.
Install the rear axle from the left side.



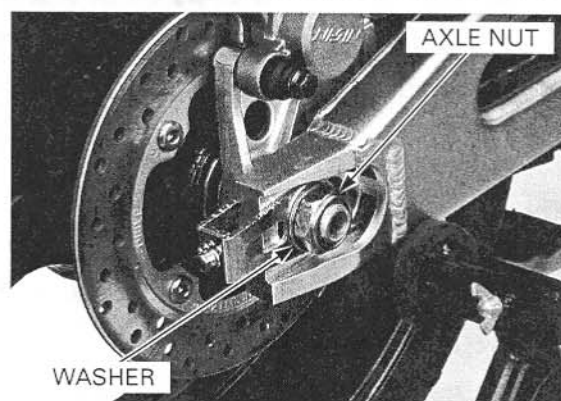
REAR WHEEL/SUSPENSION

Install the washer and axle nut.

Adjust the drive chain slack (page 4-21).

Tighten the axle nut to the specified torque.

TORQUE: 113 N·m (11.5 kgf·m, 83 lbf·ft)



SHOCK ABSORBER

REMOVAL

Support the motorcycle using a hoist or equivalent, and raise the rear wheel off the ground.

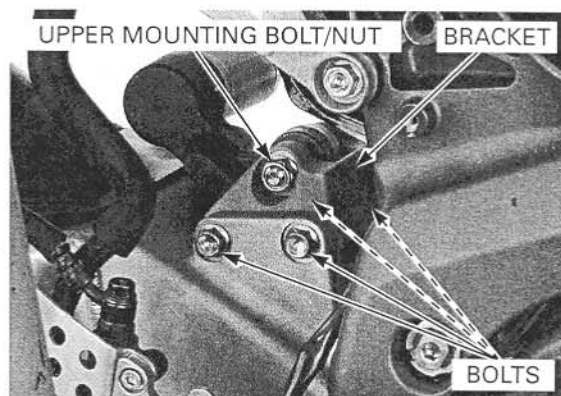
Remove the following:

- Rear fender (page 3-16)
- Muffler (page 3-20)
- Rear wheel (page 15-8)

California type only Remove the EVAP Canister (page 4-20).

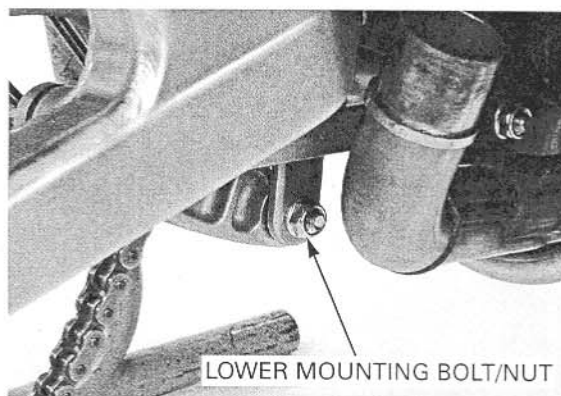
Remove the shock absorber upper mounting bolt/nut.

Remove the four bolts and rear shock absorber upper mounting bracket from the swingarm.



Remove the shock absorber lower mounting bolt/nut.

Remove the shock absorber through the top of the swingarm.



INSPECTION

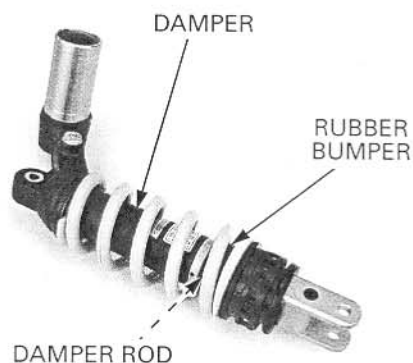
Visually inspect the shock absorber for damage.

Check the following:

- Damper rod for bends or damage
- Damper unit for deformation or oil leaks
- Rubber bumper for wear or damage

Inspect all the other parts for wear or damage.

If necessary, replace the shock absorber as an assembly.

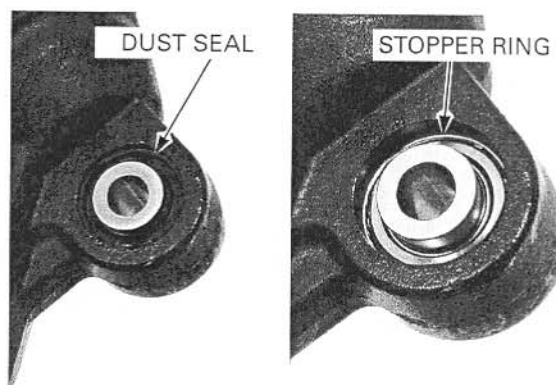


REAR WHEEL/SUSPENSION

SPHERICAL BEARING REPLACEMENT

Remove the dust seals.

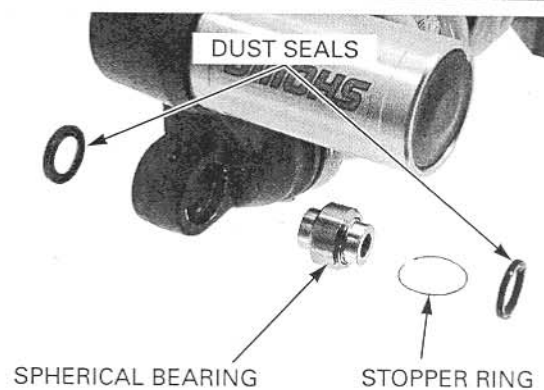
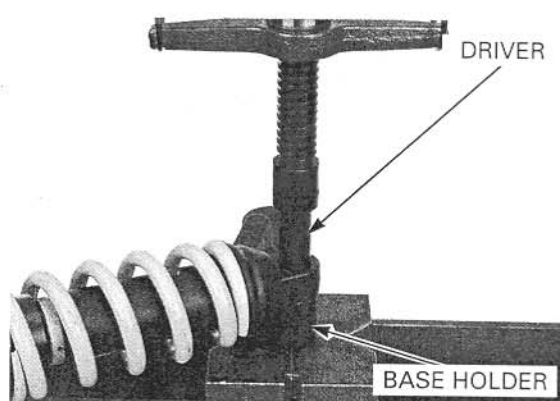
Remove the stopper ring.



Prepare the following items for the spherical bearing removal.

- Metal pipe for the base holder: I.D. 27 mm, or other suitable collar.
- Metal pipe for the driver: I.D. 17 mm, O.D. 23 mm X 51 mm length, or other suitable collar.

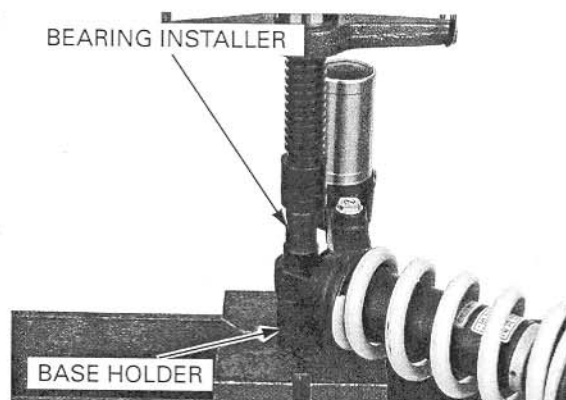
Press the spherical bearing out of the shock absorber upper mount using the above items.



Press a new spherical bearing into the upper mount from the left side using the suitable collar and special tool.

TOOLS:

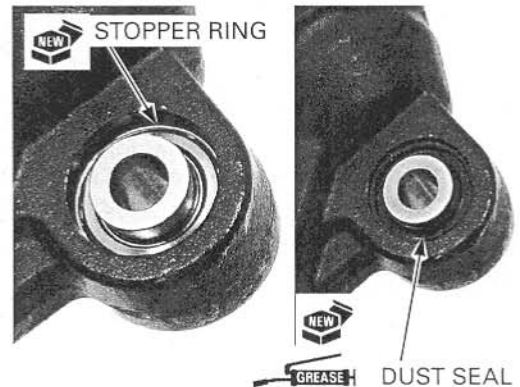
Spherical bearing driver 07HMF-KS60100



REAR WHEEL/SUSPENSION

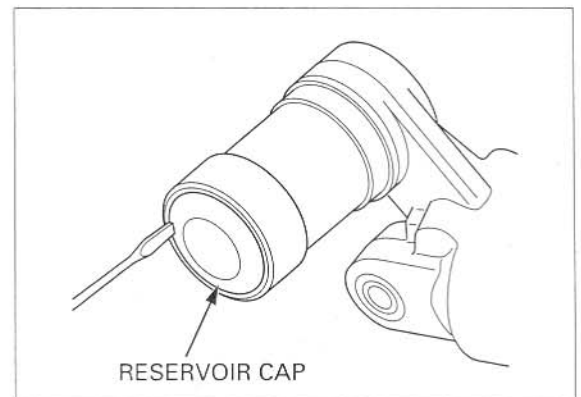
Install a new stopper ring into the groove of the rear shock absorber upper mount securely.

Apply grease to the new dust seal lips and install them into the upper mount.



SHOCK ABSORBER DISPOSAL PROCEDURE

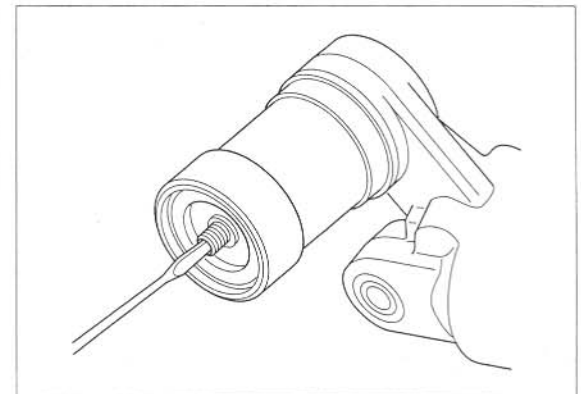
Remove the damper reservoir cap.



Do not remove the valve core until pressure is released.

Put on safety glasses, then release the nitrogen from the reservoir by depressing the valve core.

- Point the valve away from you to prevent debris getting in your eyes.
- Before disposal of the shock absorber, release the nitrogen by pressing the valve core. Then remove the valve from the shock absorber reservoir.



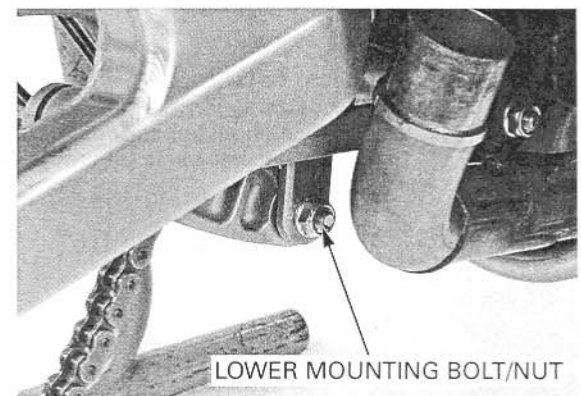
INSTALLATION

Set the shock absorber onto the shock arm with the rebound damping adjuster facing left.

Install the lower mounting bolt.

Tighten the lower mounting nut to the specified torque.

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)



REAR WHEEL/SUSPENSION

Install the rear shock absorber upper mounting bracket and four bolts.
Tighten the bolts to the specified torque.

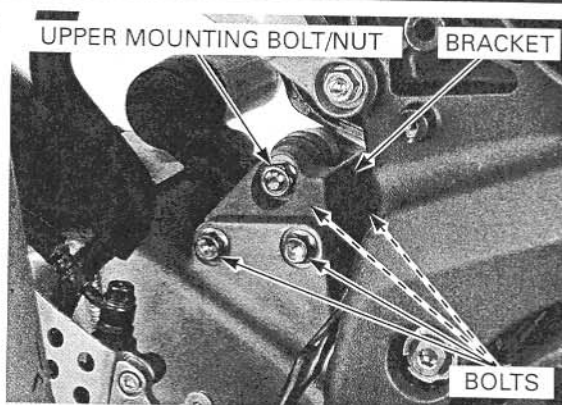
TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)

Install the upper mounting bolt.
Tighten the upper mounting nut to the specified torque.

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)

Install the following:

- Rear wheel (page 15-14)
- Muffler (page 3-22)
- Rear fender (page 3-18)
- EVAP canister (california type only) (page 4-20)



SUSPENSION LINKAGE

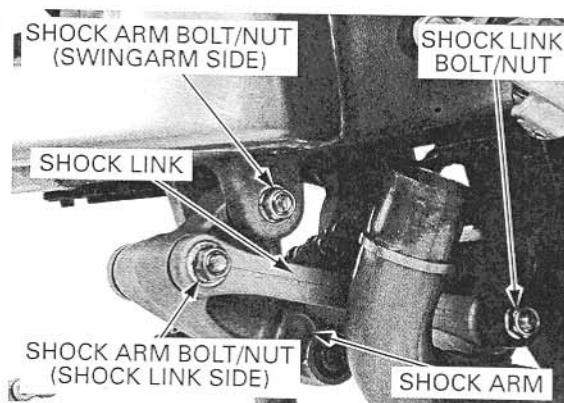
REMOVAL

Support the motorcycle using a hoist or equivalent, and raise the rear wheel off the ground.

Remove the shock absorber (page 15-15).

Remove the following:

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

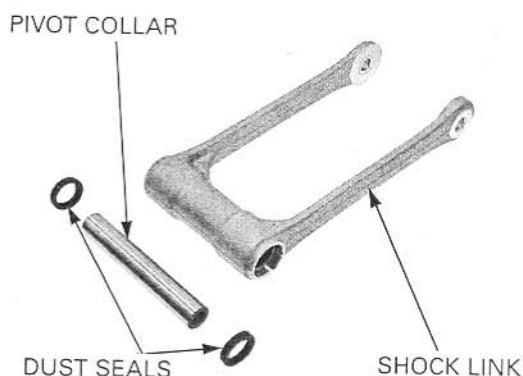


Remove the pivot collar and dust seals from the shock link.

Check the dust seals and pivot collar for wear, damage or fatigue.

Check the needle bearings for damage or loose fit.
Check the shock link for cracks or damage.

If the needle bearings are damaged, replace them.



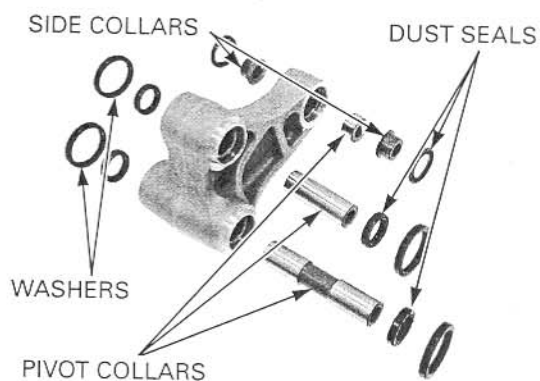
Remove the following:

- Pivot collars
- Thrust washers
- Dust seals
- Side collars

Check the dust seals, thrust washers and collars for wear, damage or fatigue.

Check the needle bearings for damage or loose fit.
Check the shock arm for cracks or damage.

If the needle bearings are damaged, replace them.



BEARING REPLACEMENT

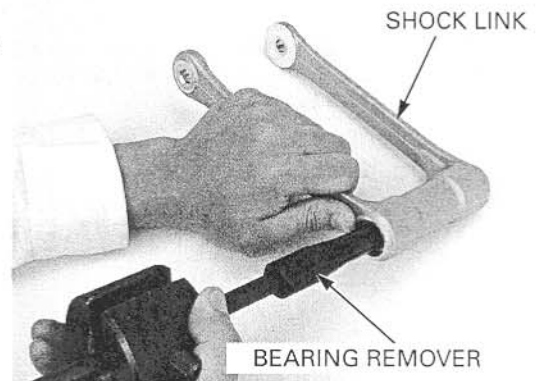
SHOCK LINK NEEDLE BEARING

Remove the pivot collar and dust seals.

Remove the needle bearings from the shock link using the special tools.

TOOLS:

Bearing remover, 17 mm	07936-3710300
Remover handle	07936-3710100
Remover weight	07741-0010201 or 07936-371020A



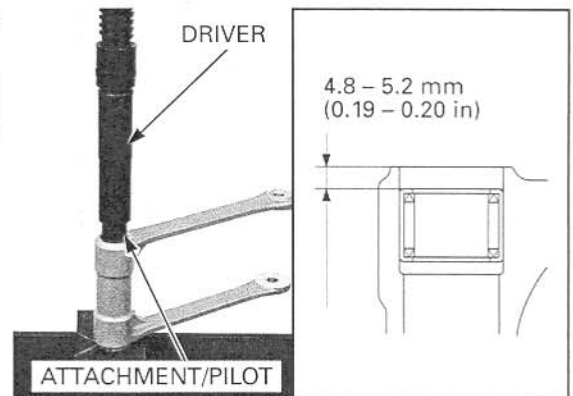
Press the needle bearing into the shock link with the marked side facing out.

Pack the new needle bearings with multi-purpose grease.

Press the new needle bearings into the shock link so that the needle bearing surface is lower 4.8 – 5.2 mm (0.19 – 0.20 in) from the end of the shock link using the special tools.

TOOLS:

Driver	07749-0010000
Attachment, 22 X 24 mm	07746-0010800
Pilot, 17 mm	07746-0040400



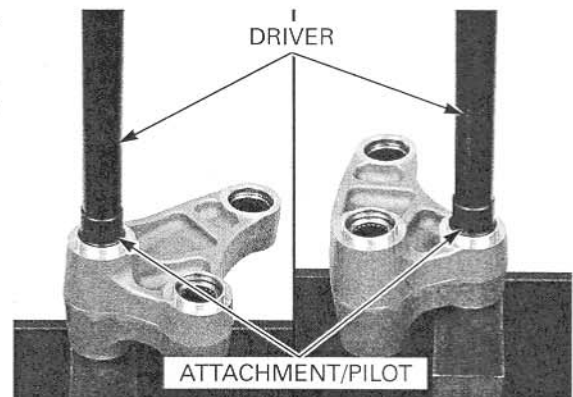
SHOCK ARM NEEDLE BEARING

Remove the pivot collars, thrust washers, side collars and dust seals.

Press the needle bearings (shock link side, swing-arm side) out of the shock arm using the special tools and a hydraulic press.

TOOLS:

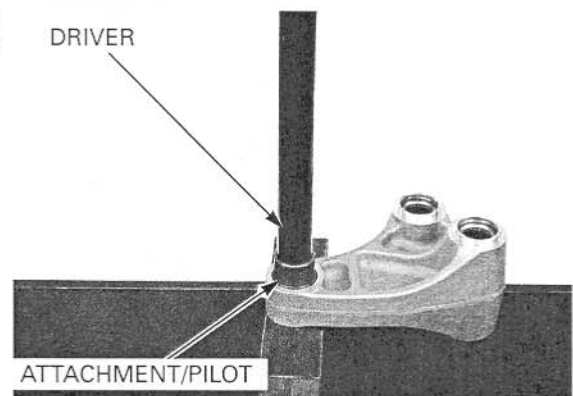
Driver	07949-3710001
Attachment, 22 X 24 mm	07746-0010800
Pilot, 17 mm	07746-0040400



Press the needle bearing (shock absorber side) out of the shock arm using the special tools and a hydraulic press.

TOOLS:

Driver	07949-3710001
Attachment, 24 X 26 mm	07746-0010700
Pilot, 22 mm	07746-0041000



REAR WHEEL/SUSPENSION

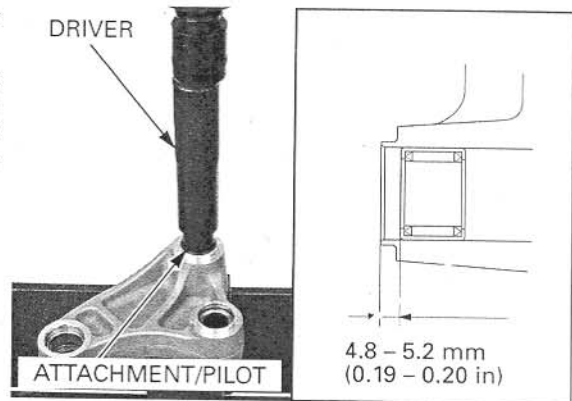
Press the needle bearing into the shock arm with the marked side facing out.

Pack the new needle bearings with multi-purpose grease.

Press the new needle bearings into the shock link side pivot with the special tools and a hydraulic press so that the needle bearing surface is lower 4.8 – 5.2 mm (0.19 – 0.20 in) from the end of the shock arm surface.

TOOLS:

Driver	07749-0010000
Attachment, 22 X 24 mm	07746-0010800
Pilot, 17 mm	07746-0040400



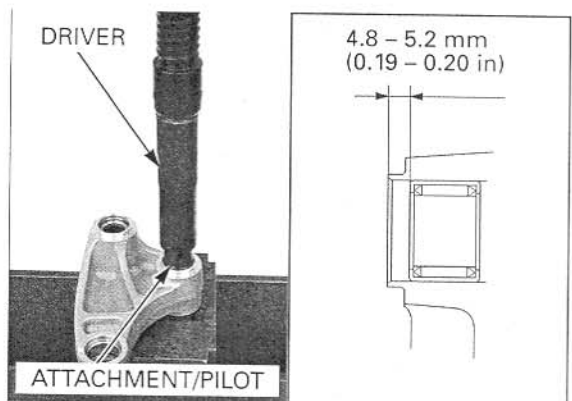
Press the needle bearing into the shock arm with the marked side facing out.

Pack the new needle bearings with multi-purpose grease.

Press the new needle bearings into the swingarm side pivot with the special tools and a hydraulic press so that the needle bearing surface is lower 4.8 – 5.2 mm (0.19 – 0.20 in) from the end of the shock arm surface.

TOOLS:

Driver	07749-0010000
Attachment, 22 X 24 mm	07746-0010800
Pilot, 17 mm	07746-0040400

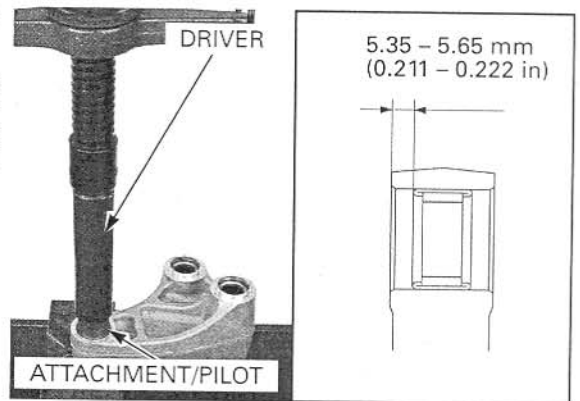


Pack the new needle bearing with multi-purpose grease.

Press the new needle bearing into the shock absorber side pivot with the special tools and a hydraulic press so that the needle bearing surface is lower 5.35 – 5.65 mm (0.211 – 0.222 in) from the end of the shock arm surface.

TOOLS:

Driver	07749-0010000
Attachment, 24 X 26 mm	07746-0010700
Pilot, 22 mm	07746-0041000

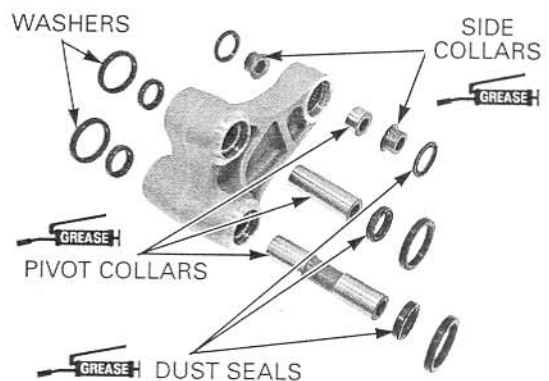


INSTALLATION

Apply multi-purpose grease NLGI No.2 (molybdenum disulfide additive) to the dust seal lips, collars and needle bearings.

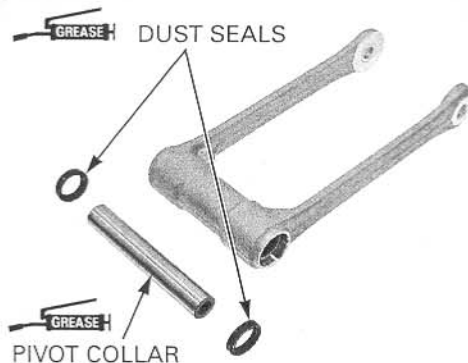
- Make sure the needle bearing rollers of shock absorber side are in position before installing.
 - Number of needle rollers: 27

Install the pivot collars, side collars, dust seals and thrust washers to the shock arm.



REAR WHEEL/SUSPENSION

Apply multi-purpose grease NLGI No.2 (molybdenum disulfide additive) to the dust seal lips, pivot collar and needle bearings. Install the pivot collar and dust seals to the shock link.



Apply oil to the shock arm nut threads and flange surface.

Temporarily install the following:

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

Tighten the nuts to the specified torque.

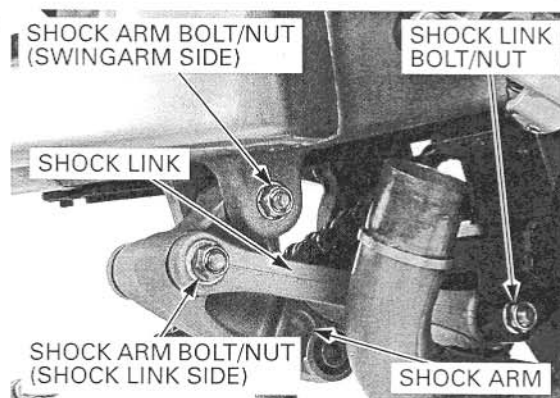
TORQUE:

Shock link-to-frame pivot nut:
44 N·m (4.5 kgf·m, 33 lbf·ft)

Shock arm-to-shock link nut:
44 N·m (4.5 kgf·m, 33 lbf·ft)

Shock arm-to-swingarm nut:
44 N·m (4.5 kgf·m, 33 lbf·ft)

Install the shock absorber (page 15-17).



SWINGARM

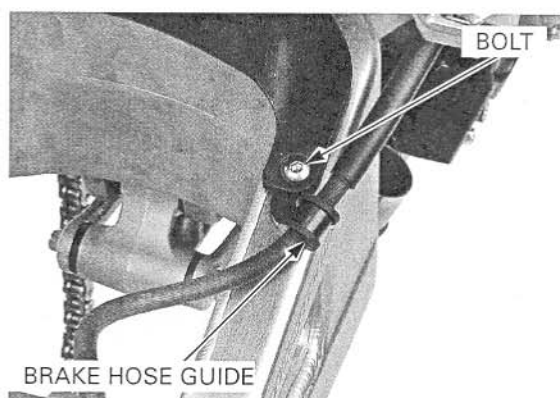
REMOVAL

Remove the following:

- Rear wheel (page 15-8)
- Shock absorber (page 15-15)

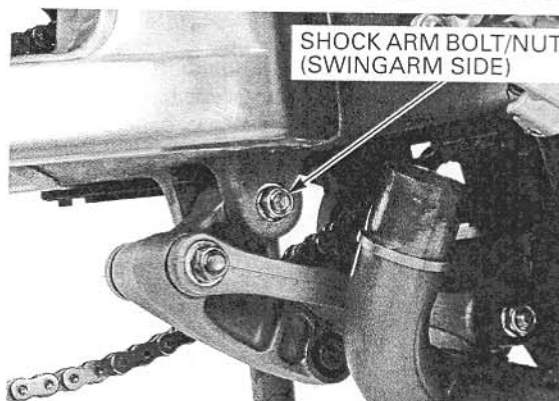
California type only Remove the EVAP canister (page 4-20).

Remove the bolt and rear brake hose guide from the swingarm.

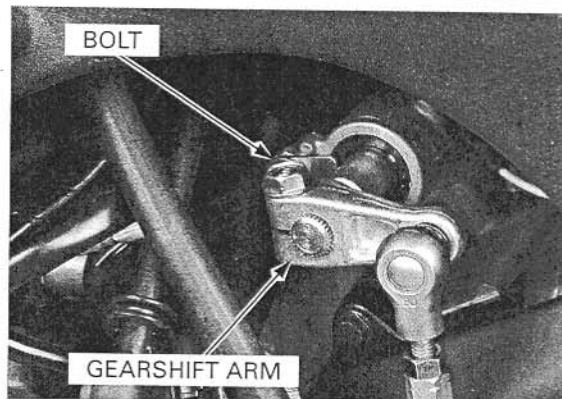


REAR WHEEL/SUSPENSION

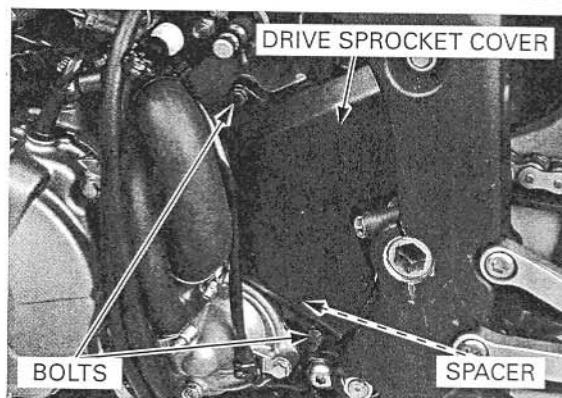
Remove the shock arm bolt/nut (swingarm side).



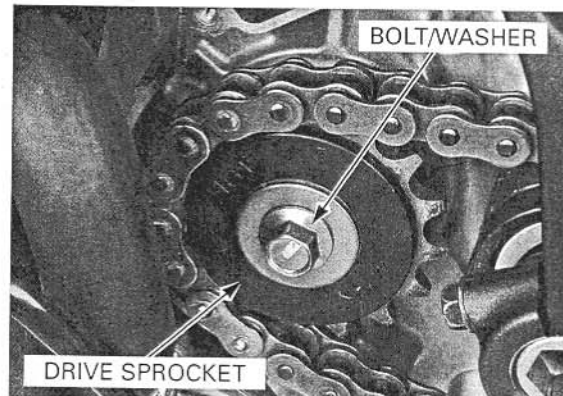
Remove the bolt and disconnect the gearshift arm from the gearshift spindle.



Remove the bolts, spacer and drive sprocket cover.

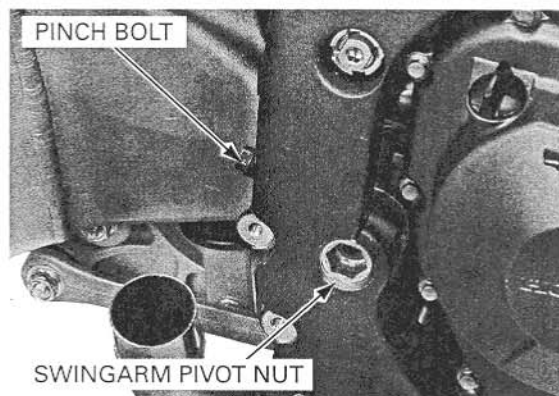


Remove the bolt, washer and drive sprocket.

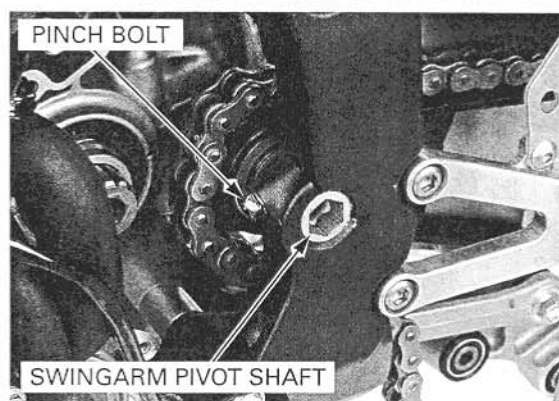


REAR WHEEL/SUSPENSION

Loosen the swingarm right pivot pinch bolt and remove the swingarm pivot nut.

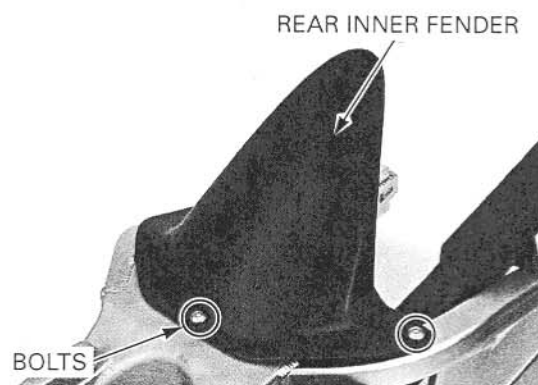


Loosen the swingarm left pivot pinch bolt.
Remove the pivot shaft and the swingarm.

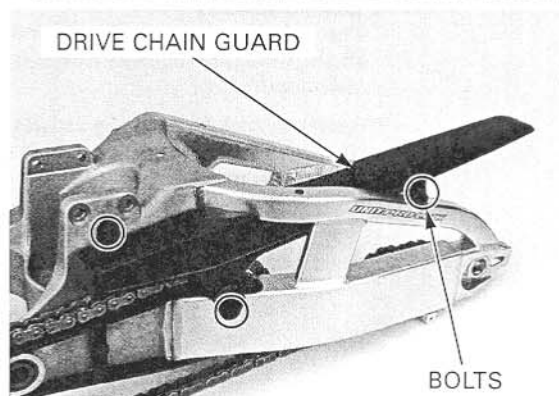


DISASSEMBLY/INSPECTION

Remove the two bolts and rear inner fender.



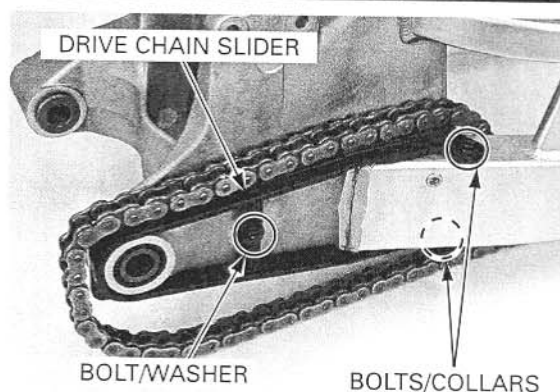
Remove the three bolts and drive chain guard.



REAR WHEEL/SUSPENSION

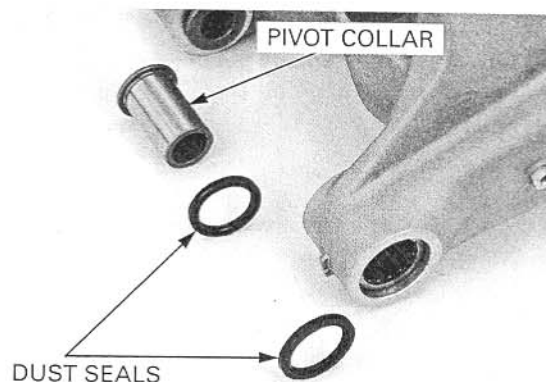
Remove the three bolts, washer, collars and drive chain slider.

Check the drive chain slider for wear or damage.



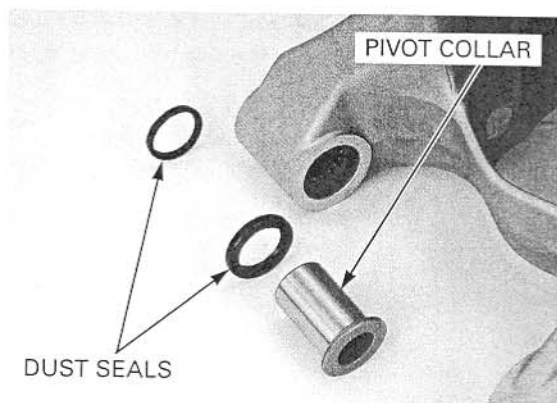
Remove the pivot collar and dust seals from the swingarm left side pivot.

Check the dust seals and pivot collar for damage or fatigue.



Remove the pivot collar and dust seals from the swingarm right side pivot.

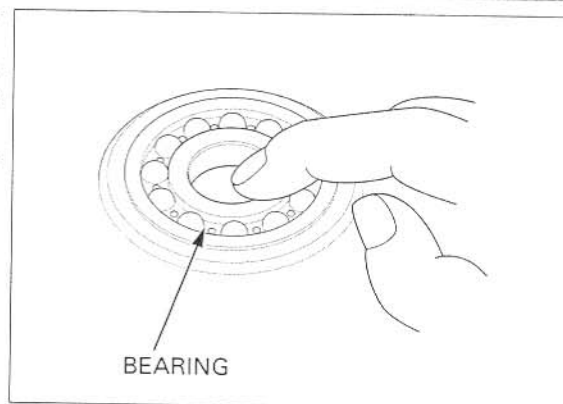
Check the dust seals and pivot collar for damage or fatigue.



Turn the inner race of right side pivot ball bearing with your finger.

The bearing should turn smoothly and quietly. Also check that the bearing outer race fits tightly in the swingarm pivot.

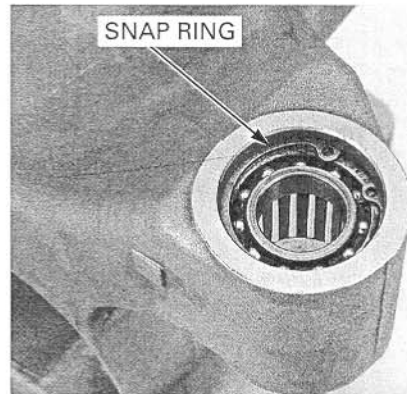
Remove and discard the bearing if the races do not turn smoothly and quietly, or if they fit loosely in the swingarm pivot.



REAR WHEEL/SUSPENSION

PIVOT BEARING REPLACEMENT

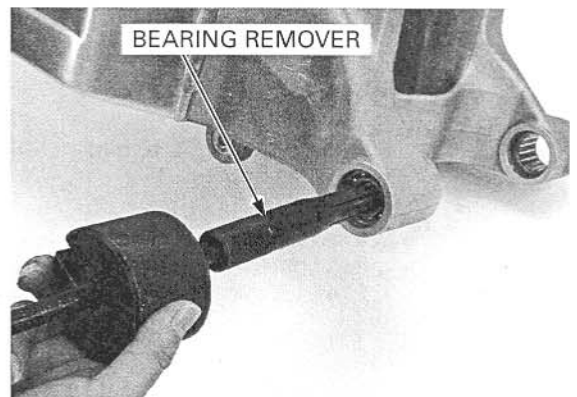
Remove the snap ring from the swingarm right side pivot.



Remove the right side pivot ball bearing using the special tools.

TOOLS:

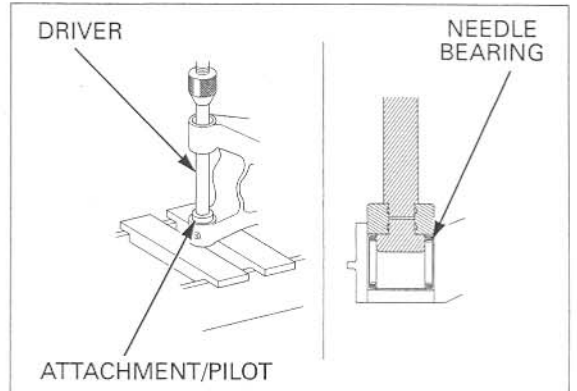
Bearing remover handle	07936-3710100
Bearing remover, 20 mm	07936-3710600
Remover weight	07741-0010201 or 07936-371020A



Remove the left side pivot needle bearing from the swingarm pivot using the special tools.

TOOLS:

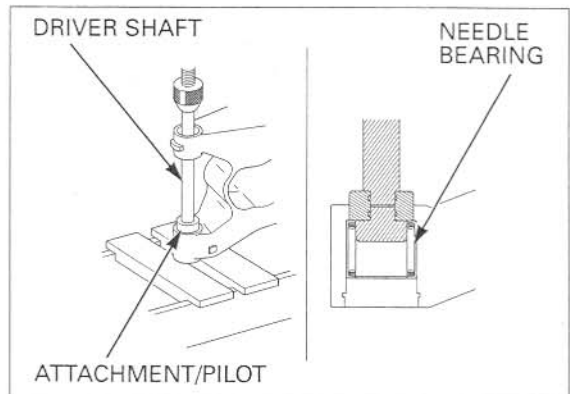
Driver	07949-3710001
Attachment, 37 mm	07ZMD-MBW0200
Pilot, 28 mm	07746-0041100
or	
Driver shaft	07946-MJ00100
Attachment, 37 mm	07ZMD-MBW0200
or	
Driver shaft	07946-MJ00100
Needle bearing remover	07HMC-MR70100



Press the right side pivot needle bearing out using the special tools and a hydraulic press.

TOOLS:

Driver	07949-3710001
Attachment, 34 mm	07ZMD-MBW0100
Pilot, 28 mm	07746-0041100
or	
Driver shaft	07946-MJ00100
Attachment, 34 mm	07ZMD-MBW0100



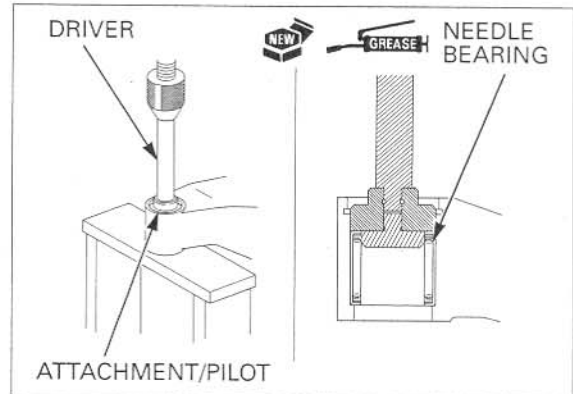
REAR WHEEL/SUSPENSION

Press the needle bearing into the swingarm with the marked side facing out.

Pack a new needle bearing with grease. Press the needle bearing into the swingarm right pivot until it seats using the special tools and a hydraulic press.

TOOLS:

Driver	07749-0010000
Attachment, 37 mm	07ZMD-MBW0200
Pilot, 28 mm	07746-0041100

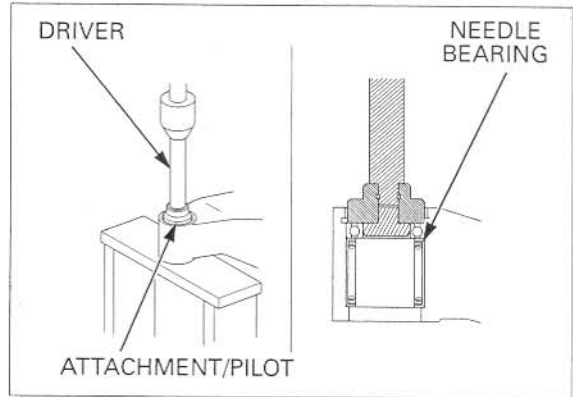


Press the radial ball bearing into the swingarm with the marked side facing out.

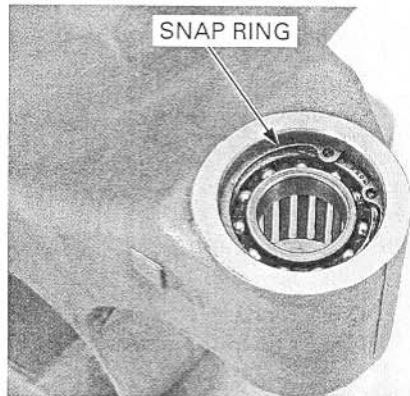
Press the new radial ball bearing in using the special tools and a hydraulic press.

TOOLS:

Driver	07749-0010000
Attachment, 37 X 40 mm	07746-0010200
Pilot, 20 mm	07746-0040500
or	
Driver	07749-0010000
Attachment, 37 mm	07ZMD-MBW0200
Pilot, 20 mm	07746-0040500



Install the snap ring into the groove securely.

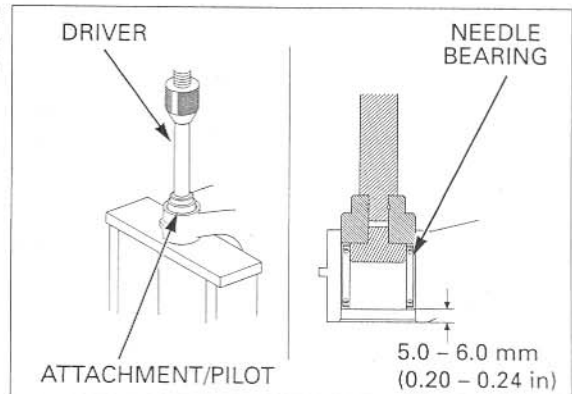


Press the needle bearing into the swingarm pivot so that the needle bearing surface is 5.0 – 6.0 mm (0.20 – 0.24 in) below the end of the swingarm pivot surface using the special tools and a hydraulic press.

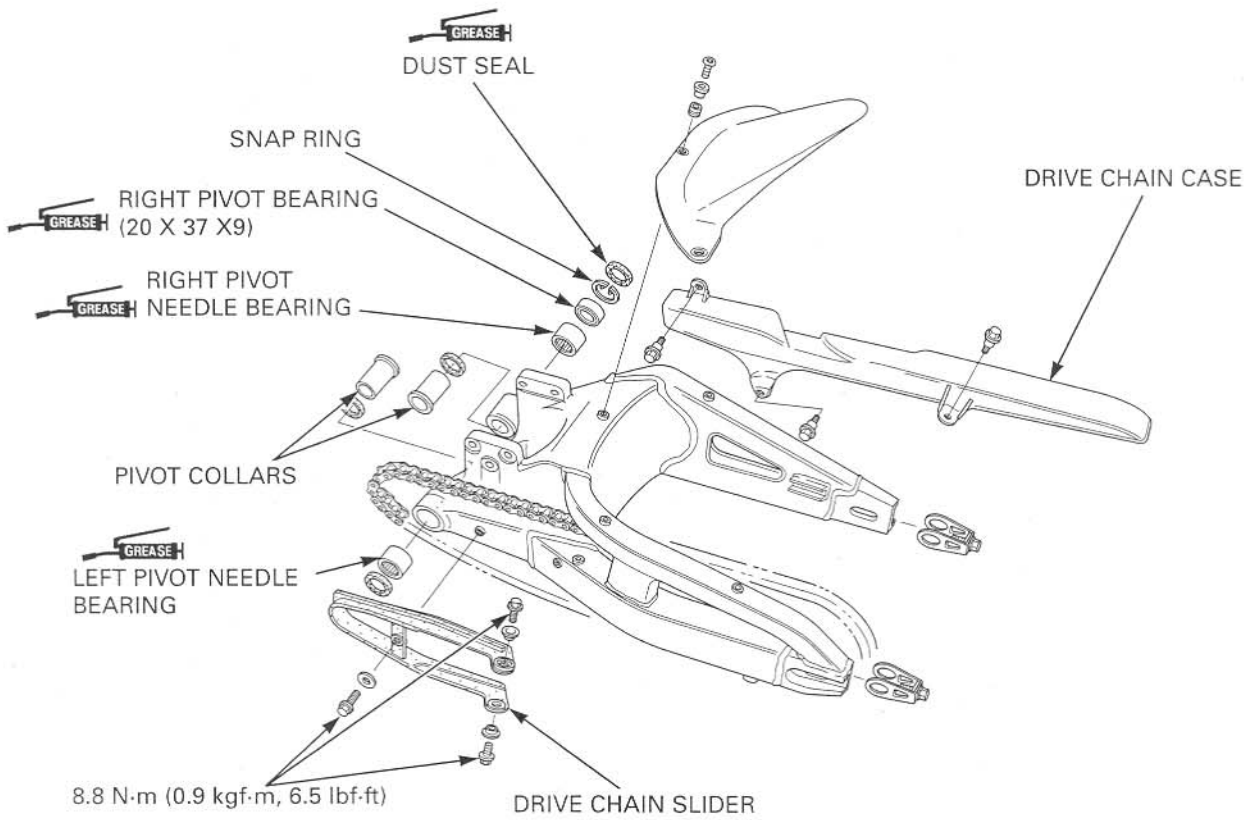
Press a new left side pivot needle bearing into the swingarm pivot so that the needle bearing surface is 5.0 – 6.0 mm (0.20 – 0.24 in) below the end of the swingarm pivot surface using the special tools and a hydraulic press.

TOOLS:

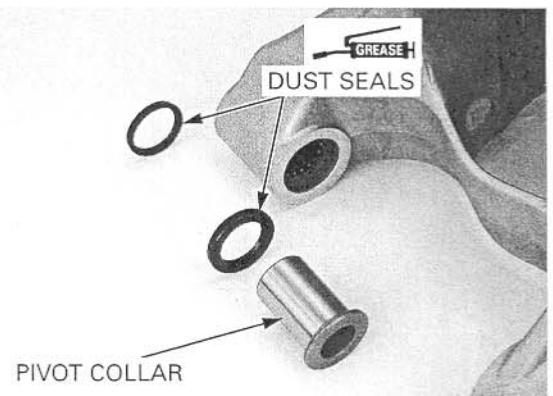
Driver	07749-0010000
Attachment, 37 X 40 mm	07746-0010200
Pilot, 28 mm or	07746-0041100
or	
Driver	07749-0010000
Attachment, 37 mm	07ZMD-MBW0200
Pilot, 28 mm	07746-0041100



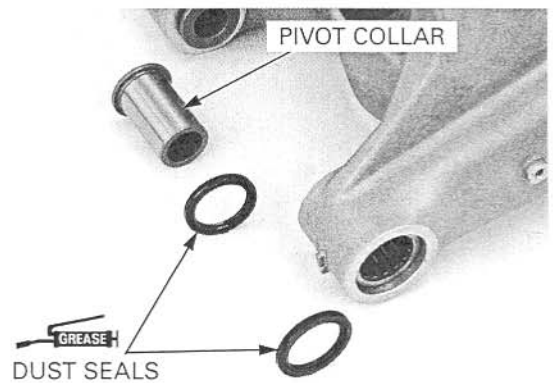
ASSEMBLY



Apply grease to the dust seal lips, then install the dust seals and pivot collar into the right swingarm pivot.

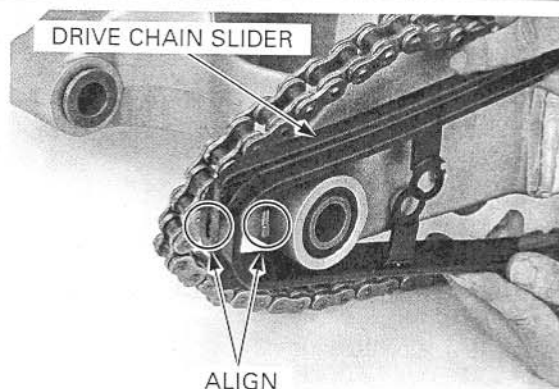


Apply grease to the dust seal lips, then install the dust seals and pivot collar into the left swingarm pivot.



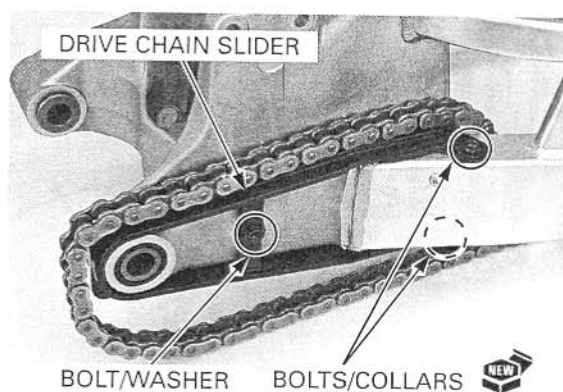
REAR WHEEL/SUSPENSION

Install the drive chain slider aligning its slit with the boss on the swingarm.

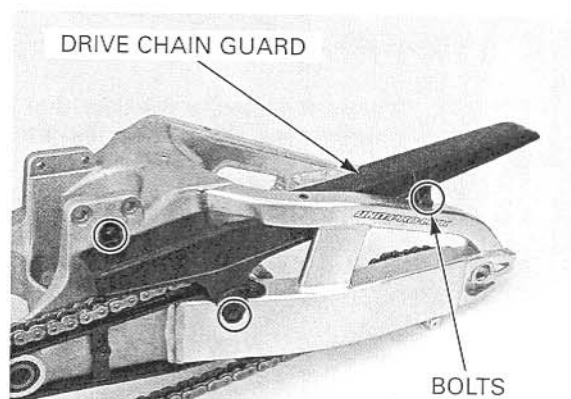


Install and tighten the washer, collars and new drive chain slider mounting bolts to the specified torque.

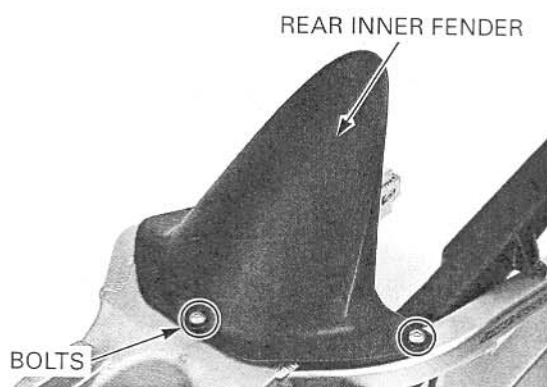
TORQUE: 8.8 N·m (0.9 kgf·m, 6.5 lbf·ft)



Install the drive chain guard, three bolts and tighten the bolts securely.



Install the rear inner fender and bolts.

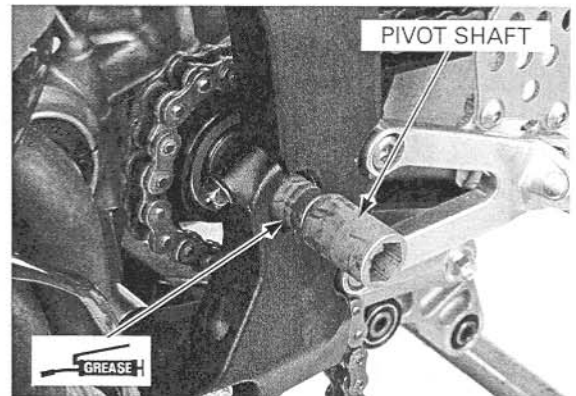


INSTALLATION

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

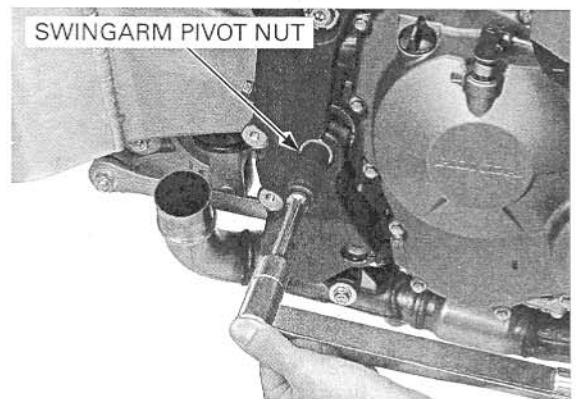
Install the swingarm between the engine and frame.

Install the swingarm pivot shaft from the left side through the frame, swingarm pivot and engine.



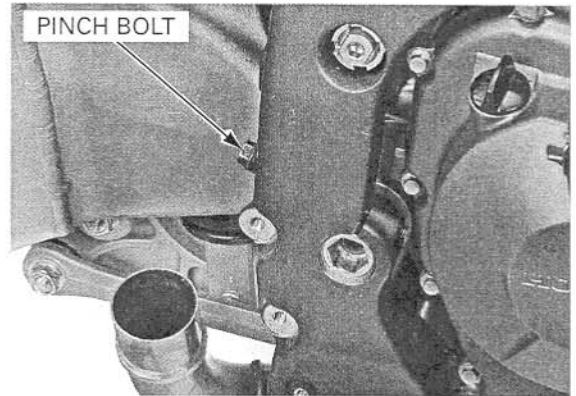
Install and tighten the swingarm pivot nut to the specified torque.

TORQUE: 93 N·m (9.5 kgf·m, 69 lbf·ft)



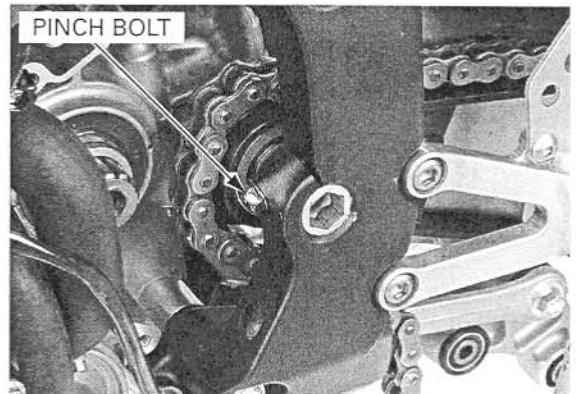
Tighten the right swingarm pivot pinch bolt to the specified torque.

TORQUE: 27 N·m (2.7 kgf·m, 20 lbf·ft)



Tighten the left swingarm pivot pinch bolt to the specified torque.

TORQUE: 27 N·m (2.7 kgf·m, 20 lbf·ft)

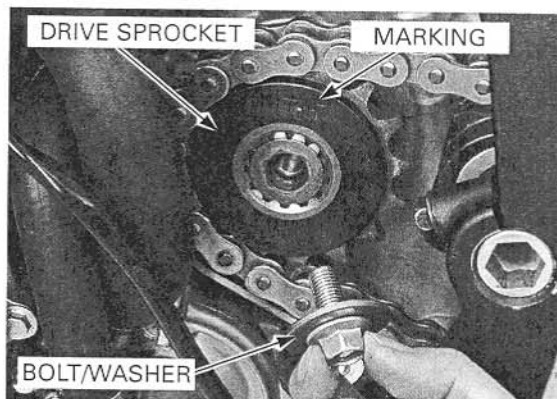


REAR WHEEL/SUSPENSION

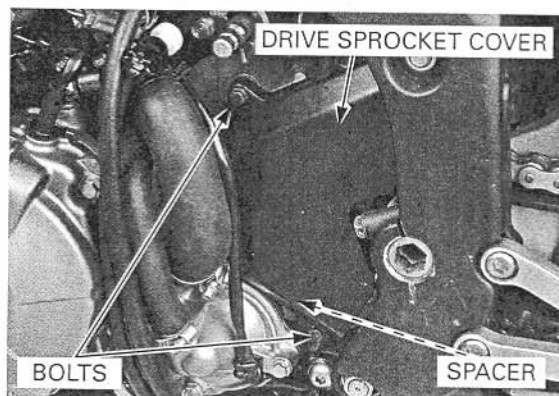
Install the drive sprocket with its marks facing out.

Install the washer and special bolt, then tighten the bolt to the specified torque.

TORQUE: 54 N·m (5.5 kgf·m, 40 lbf·ft)

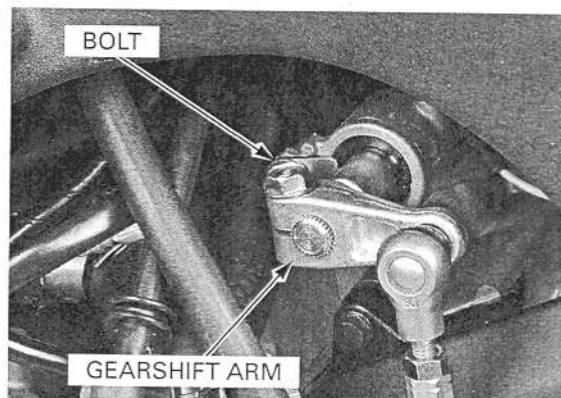


Install the spacer and drive sprocket cover, tighten the bolts securely.



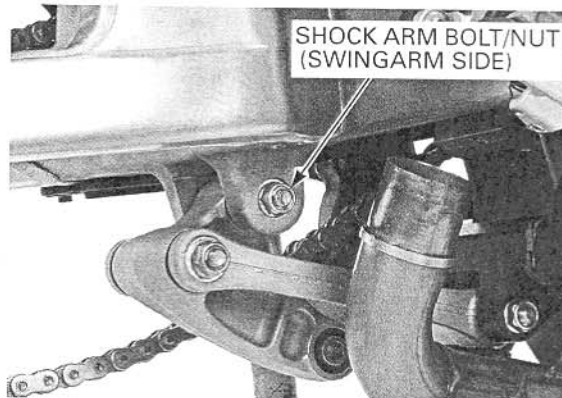
Install the gearshift arm aligning its slit with the punch mark on the gearshift spindle.

Tighten the bolt securely.



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

TORQUE: 44 N·m (4.5 kgf·m, 33 lbf·ft)



REAR WHEEL/SUSPENSION

Install the rear brake hose guide, bolt onto the swingarm and tighten the bolt securely.

Install the following:

- Shock absorber (page 15-17)
- Rear wheel (page 15-14)

