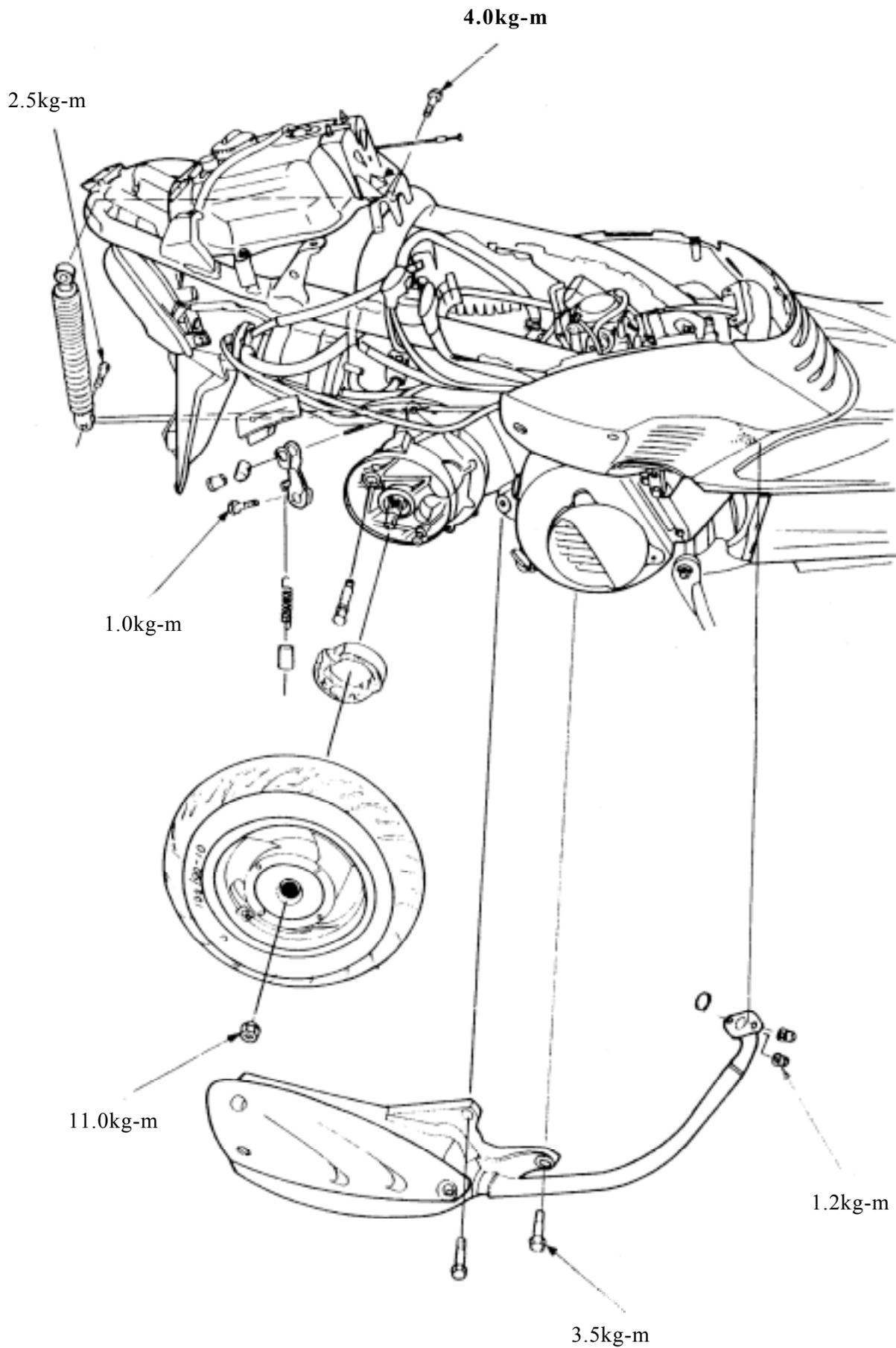


# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

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# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

SERVICE INFORMATION .....	13-1	REAR BRAKE.....	13-2
TROUBLESHOOTING.....	13-1	REAR SHOCK ABSORBER.....	13-5
REAR WHEEL .....	13-2		

## SERVICE INFORMATION

### GENERAL INSTRUCTIONS

- During servicing, keep oil or grease off the brake drum and brake linings.

### SPECIFICATIONS

Item		Standard (mm)	Service Limit (mm)
Rear wheel	Rim runout	Radial	□
		Axial	□
	Rear brake drum I.D		110
Rear brake lining thickness		4.0	2.0
Rear shock absorber spring free length		219.5	213

### TORQUE VALUES

Rear axle nut	11.0_	13.0kg-m
Rear shock absorber upper mount bolt	4.0kg-m	
Rear shock absorber lower mount bolt	2.5kg-m	
Exhaust muffler joint lock nut	1.2kg-m	
Exhaust muffler lock bolt	3.5kg-m	
Brake arm bolt	1.0kg-m	

### TROUBLESHOOTING

#### Rear wheel wobbling

- Bent rim
- Faulty tire
- Axle not tightened properly

#### Soft rear shock absorber

- Weak shock absorber spring
- Faulty damper

#### Poor brake performance

- Brake not adjusted properly
- Worn brake linings
- Worn brake shoes at cam contacting area
- Worn brake cam
- Worn brake drum

# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

## REAR WHEEL

### REMOVAL

Remove the exhaust muffler joint lock nuts and exhaust muffler lock bolts.  
Remove the exhaust muffler. (⇒2-6)  
Remove the rear axle nut to remove the rear wheel.

Rear Axle Nut



### INSPECTION

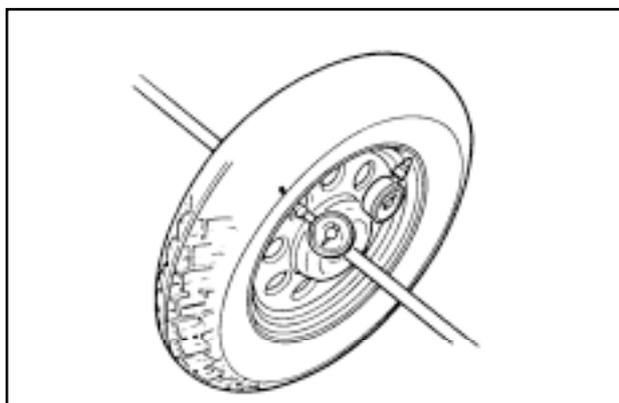
Measure the rear wheel rim runout.

#### Service Limits:

**Radial:** 2.0mm replace if over

**Axial:** 2.0mm replace if over

If the rim runout exceeds the specified service limits, check the final shaft bearing for excessive play and the final shaft for bending. Inspect the rear wheel and wheel rim for runout.



### INSTALLATION

Install the rear wheel and apply SAE30# engine oil to the axle shaft threads. Then, tighten the rear axle nut.

**Torque:** 11.0\_ 13.0kg-m

Install the exhaust muffler. (⇒2-6)

Tighten the exhaust muffler joint lock nuts and exhaust muffler lock bolt.

#### Torque:

Exhaust muffler joint lock nut: 1.2kg-m

Exhaust muffler lock bolt: 3.5kg-m

Rear Axle Nut



## REAR BRAKE

Remove the rear wheel. (⇒13-2)

Inspect the rear brake drum.

Measure the rear brake drum I.D.

**Service Limits:** 111mm replace if over



# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

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## BRAKE LINING INSPECTION

Measure the brake lining thickness.

**Service Limit:** 2.0mm replace if below

- \* 

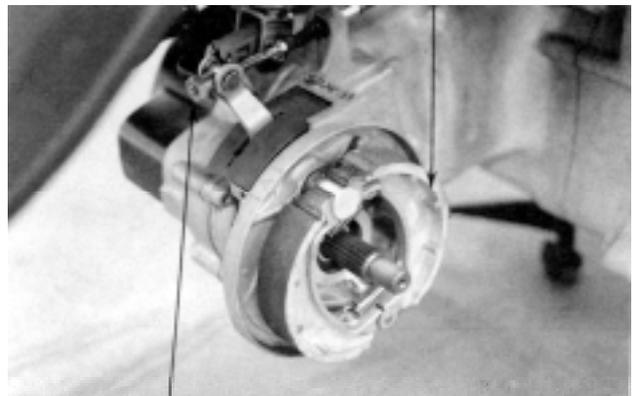
Keep oil or grease off the brake linings.
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Brake Arm      Brake Shoe

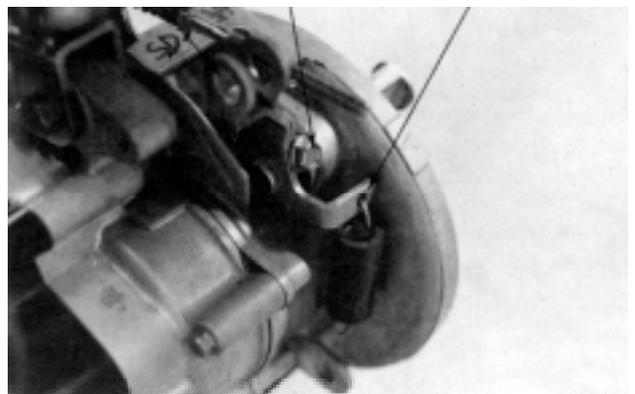
## REAR BRAKE DISASSEMBLY

Remove the rear brake adjusting nut and disconnect the rear brake cable.  
Remove the rear brake shoes.



Adjusting Nut  
Brake Arm    Bolt    Wear Indicator Plate

Remove the brake arm bolt to remove the brake arm, wear indicator plate and felt seal.  
Remove the brake cam.



Brake Arm      Brake Cam

## REAR BRAKE ASSEMBLY

Apply grease to the anchor pin.  
Apply grease to the brake cam and install it.  
Install the brake shoes.



## 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

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Apply engine oil to the felt seal and install it to the brake cam.  
Install the wear indicator plate and brake arm.

- \* 

Align the wide groove on the wear indicator plate with the wide tooth of the brake cam.
---

Install and tighten the brake arm bolt.

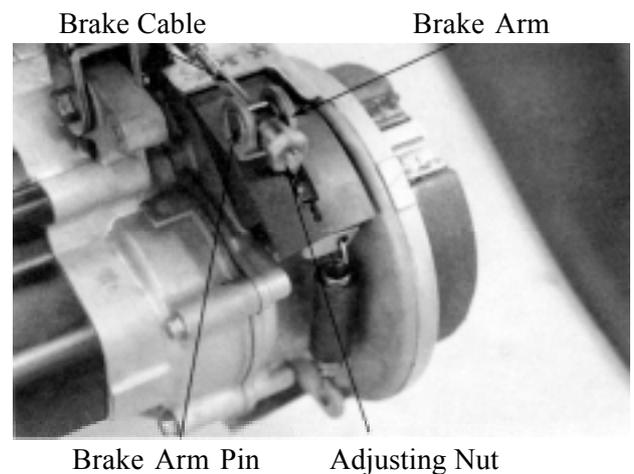
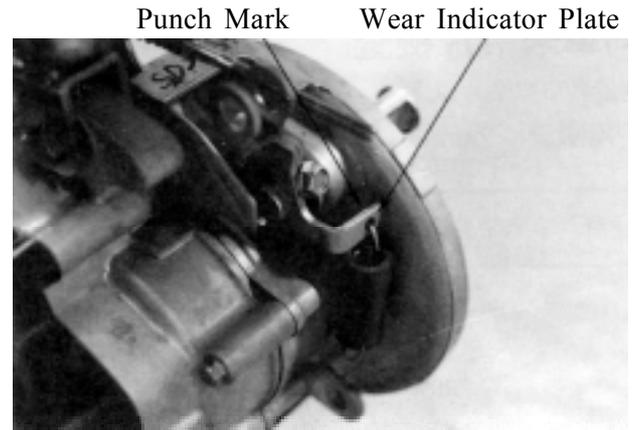
- \* 

Align the scribed line on the brake arm with the punch mark on the brake cam.
---

**Torque:** 1.0kg-m

Install the brake arm return spring.

Install the brake arm pin.  
Connect the brake cable and install the adjusting nut.  
Install the rear wheel. (⇒ 13-2)  
Adjust the rear brake lever free play.  
(⇒ 3-8)



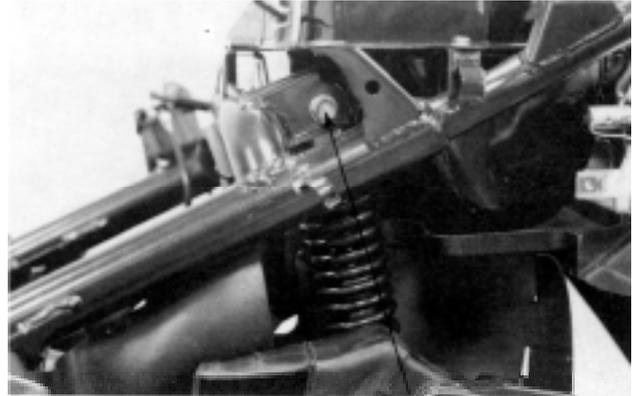
# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

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## REAR SHOCK ABSORBER

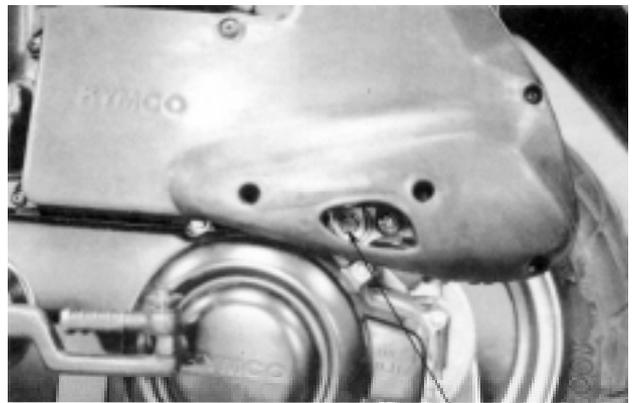
### REMOVAL

Remove the frame body cover. (⇒2-2)  
Remove the air cleaner case. (⇒5-13)



Bolt

Remove the rear shock absorber upper and lower mount bolts.  
Remove the rear shock absorber.



Bolt

Rear Shock Absorber Compressor

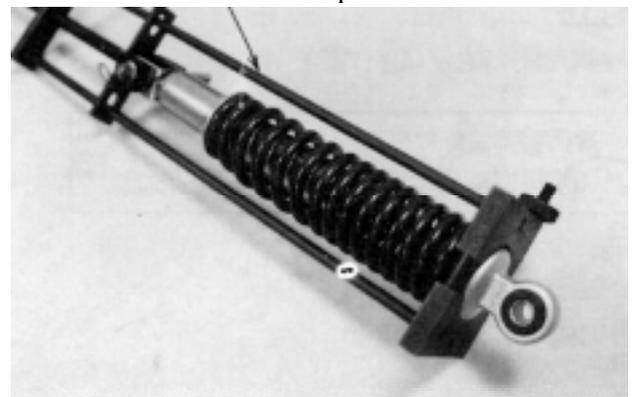
### DISASSEMBLY

Install the rear shock absorber compressor as the figure shown.

\* 

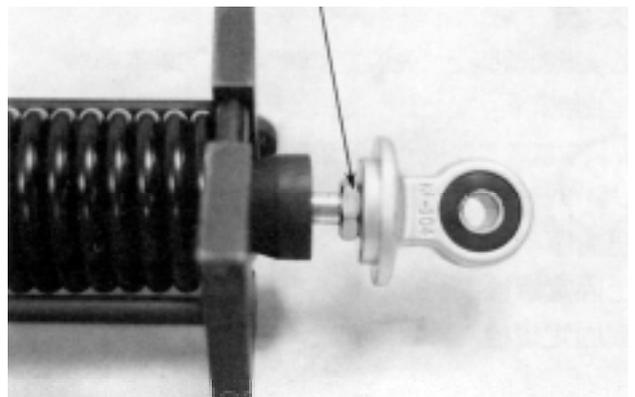
Install the rear shock absorber lower joint into the rear shock absorber compressor.
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Compress the rear shock absorber spring.



Lock Nut

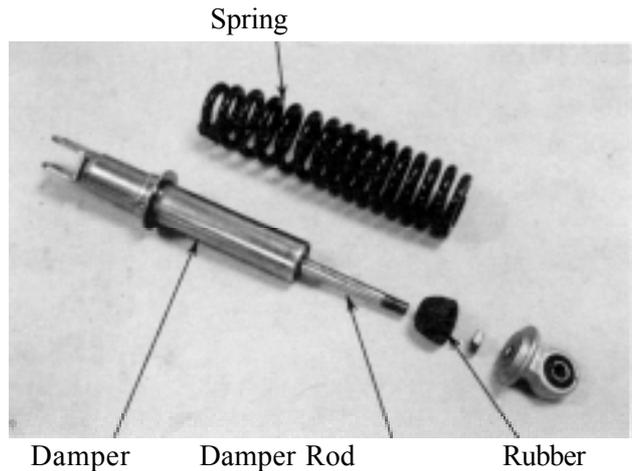
Loosen the lower joint lock nut.  
Remove the lower joint.  
Remove the lock nut, rubber and damper.



# 13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

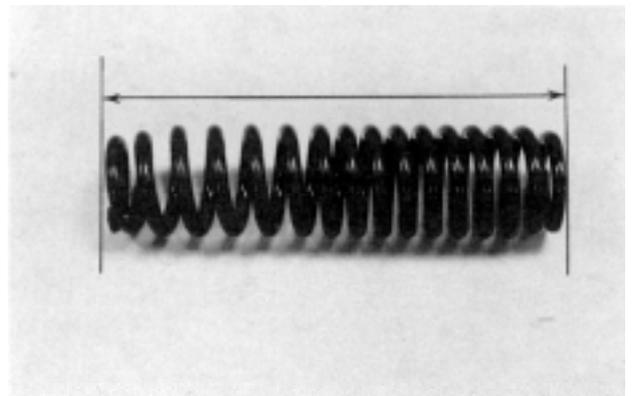
## INSPECTION

Inspect the damper rod for bending or damage.  
Inspect the damper for oil leaks.  
Inspect the damper rubber for deterioration or damage.



Measure the front shock absorber spring free length.

**Service Limit:** 213mm replace if over



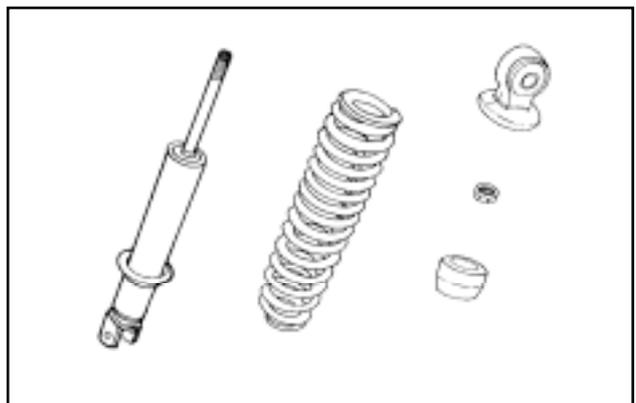
## ASSEMBLY

Assemble the rear shock absorbers in the reverse order of disassembly.

- \* Install the shock absorber spring with loosely wound coils facing down.
- \* Apply locking agent to the lock nut threads and tighten the lock nut.

Tighten the lock nut.

**Torque:** 3.5\_ 4.8kg-m



## INSTALLATION

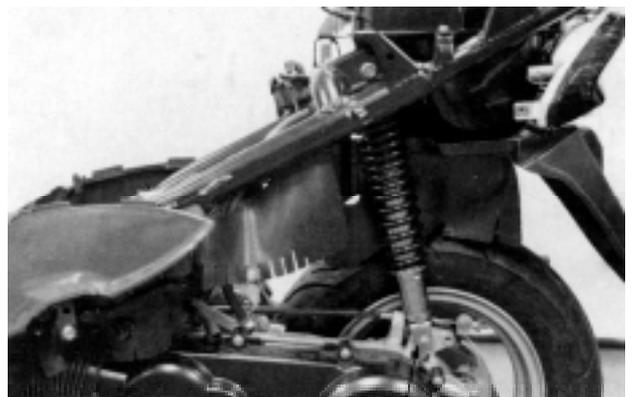
Install the rear shock absorber. First install the upper mount bolt and then the lower mount bolts and tighten them.  
Install the air cleaner case and tighten the two bolts.

Install the frame body cover.

**Torque:**

Upper Mount Bolt: 4.0kg-m

Lower Mount Bolt: 2.5kg-m



Lower Mount Bolt