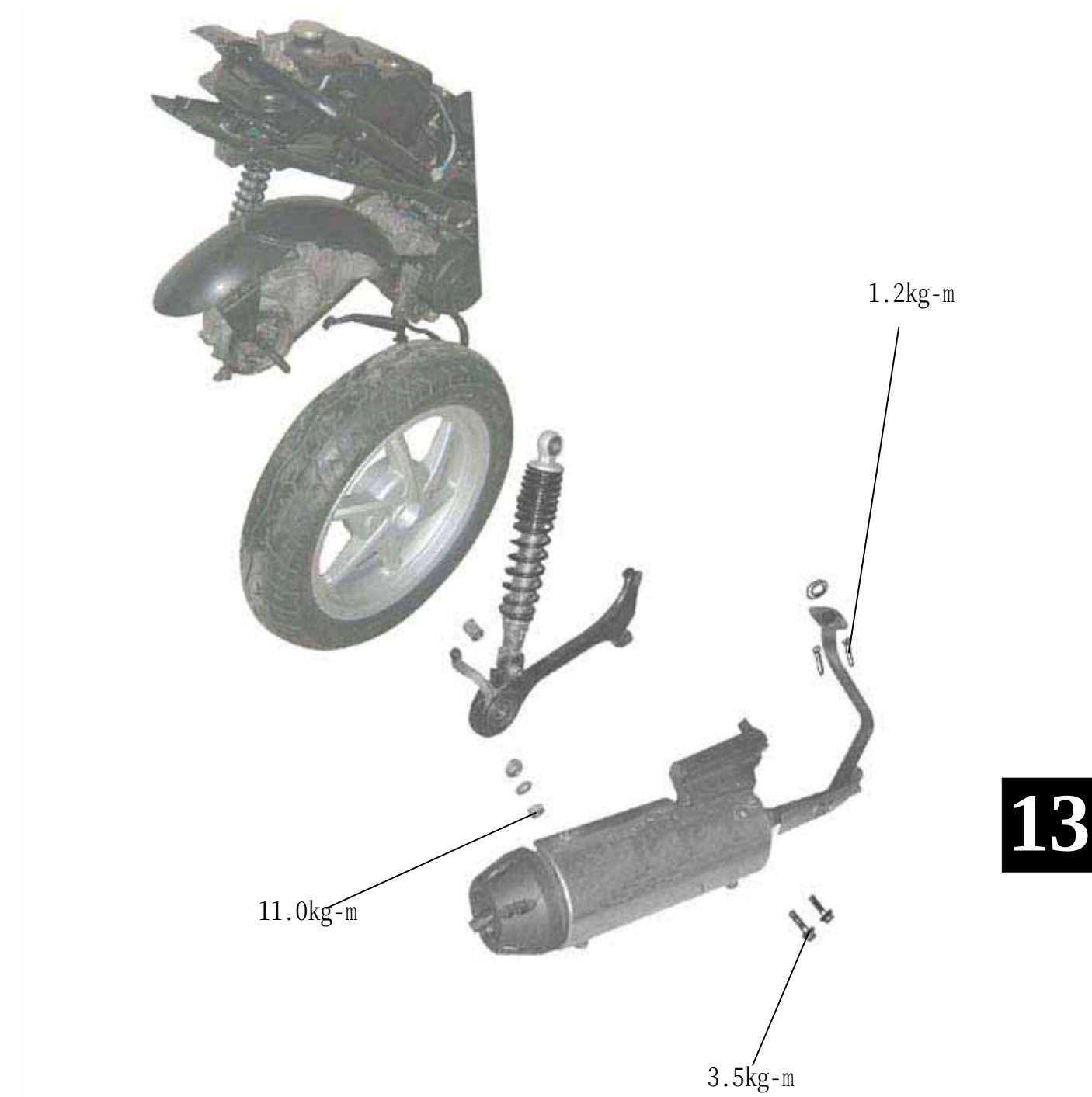


13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

KYMCO
SUPER8 50



13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION



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SERVICE INFORMATION	13-1	REAR BRAKE.....	13-3
TROUBLESHOOTING	13-1	REAR SHOCK ABSORBER.....	13-4
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	—	2.0
		Axial	—	2.0
	Rear brake drum I.D		131	130
Rear brake lining thickness			4.0	2.0
Rear shock absorber spring free length			225	210

TORQUE VALUES

Rear axle nut	11~13kgf-m
Rear shock absorber upper mount bolt	3.5~4.5kgf-m
Rear shock absorber lower mount bolt	2.4~3.0kgf-m
Exhaust muffler joint lock nut	1.0~1.4kgf-m
Exhaust muffler lock bolt	3.0~3.6kgf-m

Special Tool

Cushion Assemble & Disassemble Tool

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

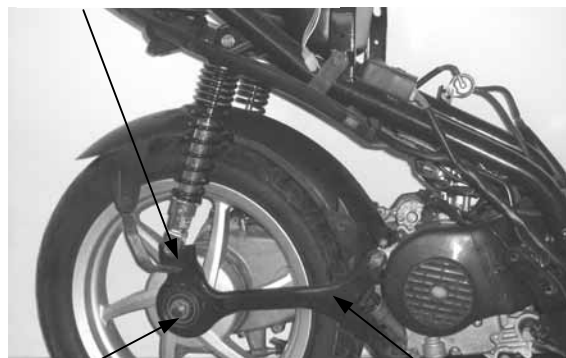
13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

REAR WHEEL

REMOVAL

Remove the exhaust muffler. (⇒2-5)
Remove the rear axle nut and rear shock absorber bolt.
Remove the rear axle side collar and rear fork.
Remove the rear wheel.

Rear Shock Absorber Bolt



Rear Axle Nut

Rear Fork

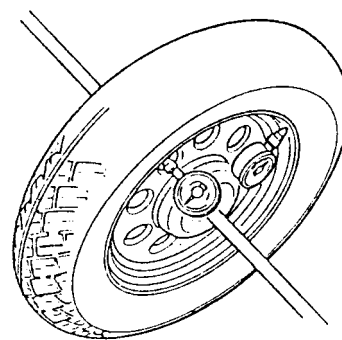
INSPECTION

Measure the rear wheel rim runout.

Service Limits:

Radial: 2.0mm replace if over

Axial: 2.0mm replace if over



Inspect the rear brake drum.
Measure the rear brake drum I.D.

Service Limits: 130mm replace if over



INSTALLATION

Install the rear wheel in the reverse order of removal.

Tighten the rear axle nut.

Torque: 11.0-13.0kgf-m

Install the exhaust muffler.

Torque:

Exhaust muffler joint lock nut: 1.0~1.4kgf-m

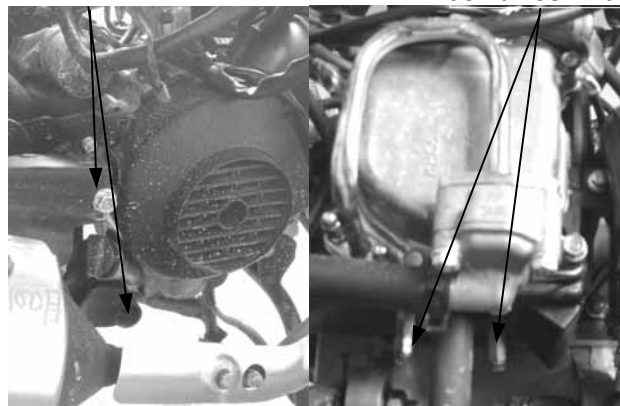
Exhaust muffler lock bolt: 3.0~3.6kgf-m



First install and tighten the exhaust muffler joint lock nuts and then the exhaust muffler lock bolts.

Lock Bolts

Joint Lock Nuts



13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION



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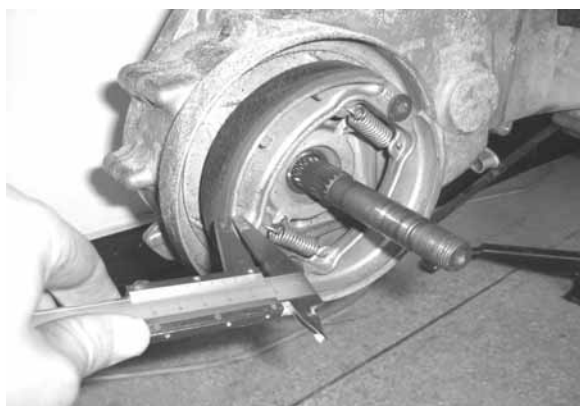
REAR BRAKE

BRAKE LINING INSPECTION

Measure the brake lining thickness.

Service Limit: 2.0mm replace if below

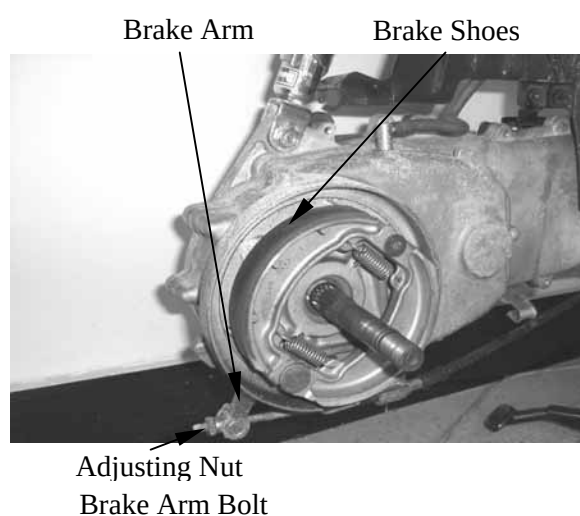
* Keep oil or grease off the brake linings.



REAR BRAKE DISASSEMBLY

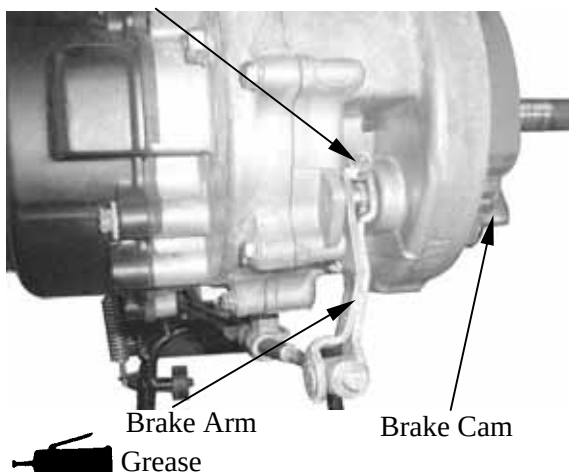
Remove the rear brake adjusting nut and disconnect the rear brake cable.

Remove the rear brake shoes.



Remove the brake arm bolt to remove the brake arm.

Remove the brake cam.

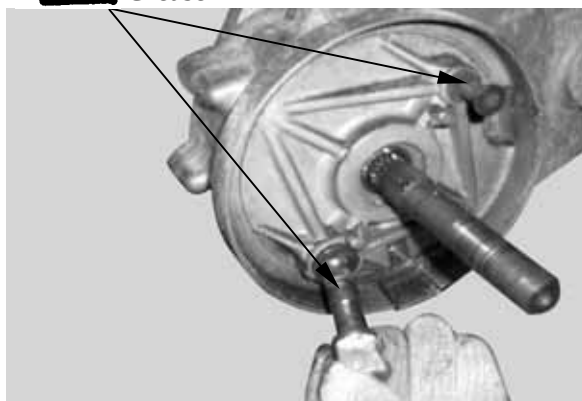


REAR BRAKE ASSEMBLY

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

Apply a small amount of engine oil to the felt seal and install it to the brake cam.
Install the brake arm.



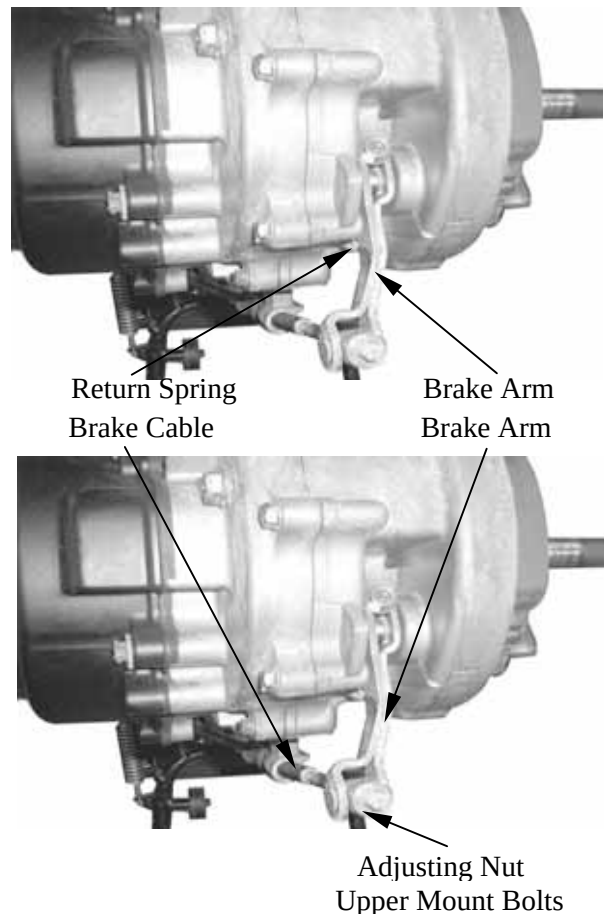
Align the wide groove on the wear indicator plate with the wide tooth of the brake cam.

Install and tighten the brake arm bolt.



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

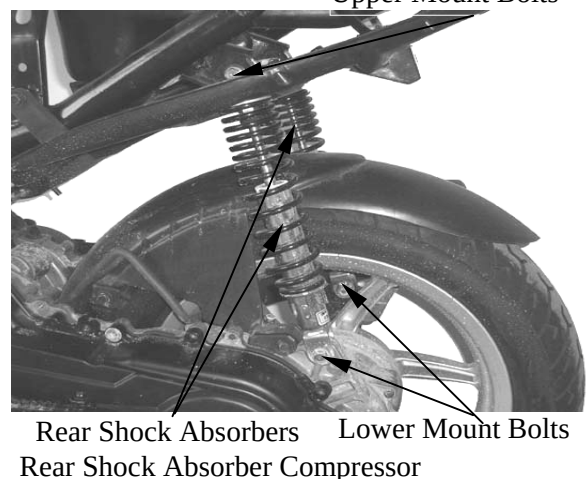
Install the brake arm return spring.
Install the brake arm pin.
Connect the brake cable and install the adjusting nut.
Install the rear wheel. (⇒13-2)
Adjust the rear brake lever free play. (⇒3-8)



LEFT REAR SHOCK ABSORBER REMOVAL

Remove the frame body cover. (⇒2-3)
Remove the air cleaner case. (⇒5-19)

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



DISASSEMBLY

Install the rear shock absorber compressor as the figure shown.



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

Compress the rear shock absorber spring.

Special

Cushion Assemble & Disassemble Tool



Cushion Assemble & Disassemble Too

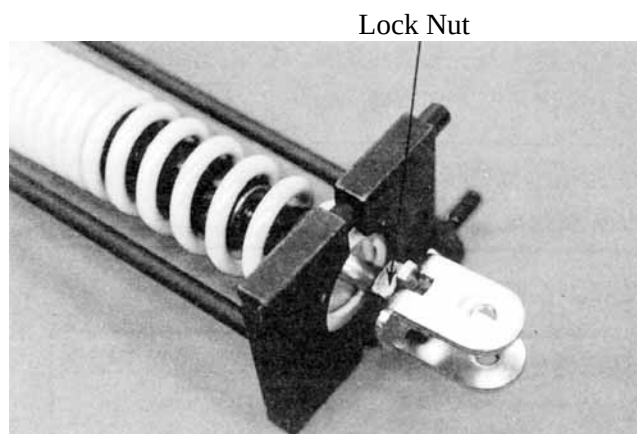
13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION



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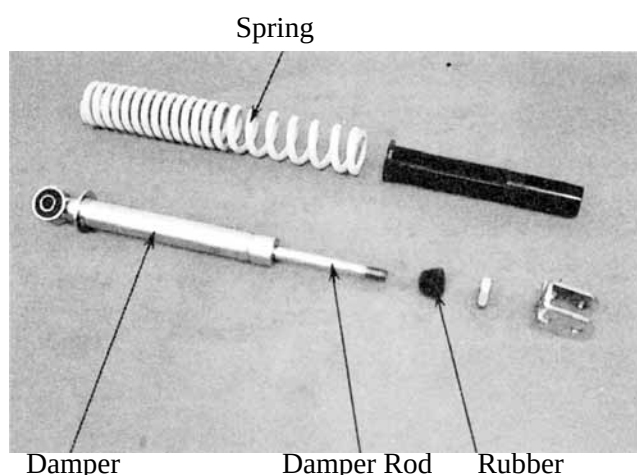
INSPECTION

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



Measure the rear shock absorber spring free length.

Service Limit: 210mm replace if over

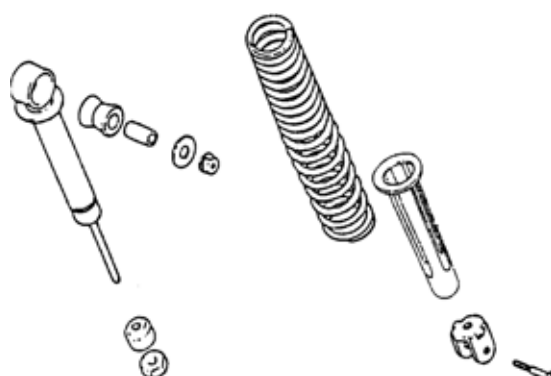
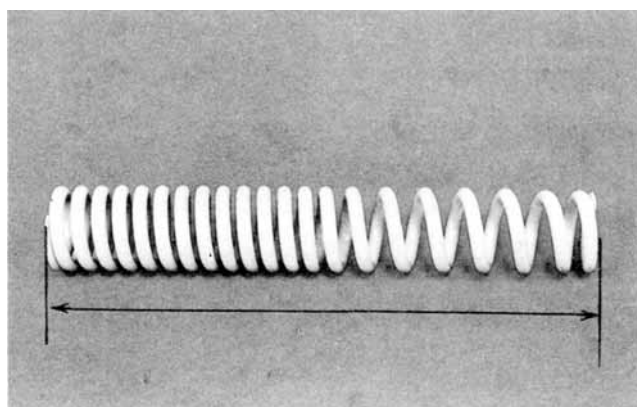


ASSEMBLY

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.



13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

INSTALLATION

Install the rear shock absorber.
Install the rear shock absorber upper mount bolt and then the lower mount bolt.
Tighten the bolts.

Torque:

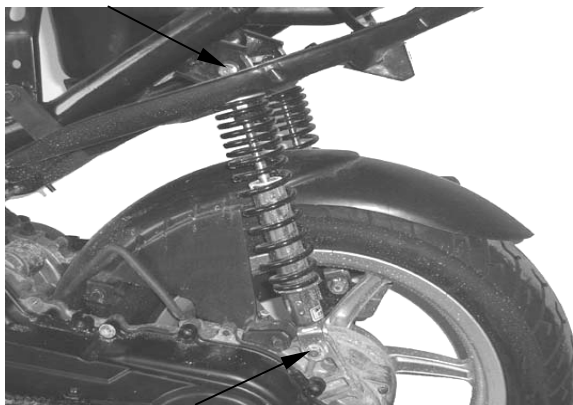
Upper Mount Bolt: 3.5~4.5kgf-m

Lower Mount Bolt: 2.4~3.0kgf-m

Install the air cleaner case. (⇒5-15)

Install the frame body cover. (⇒2-3)

Upper Mount Bolt



Lower Mount Bolt