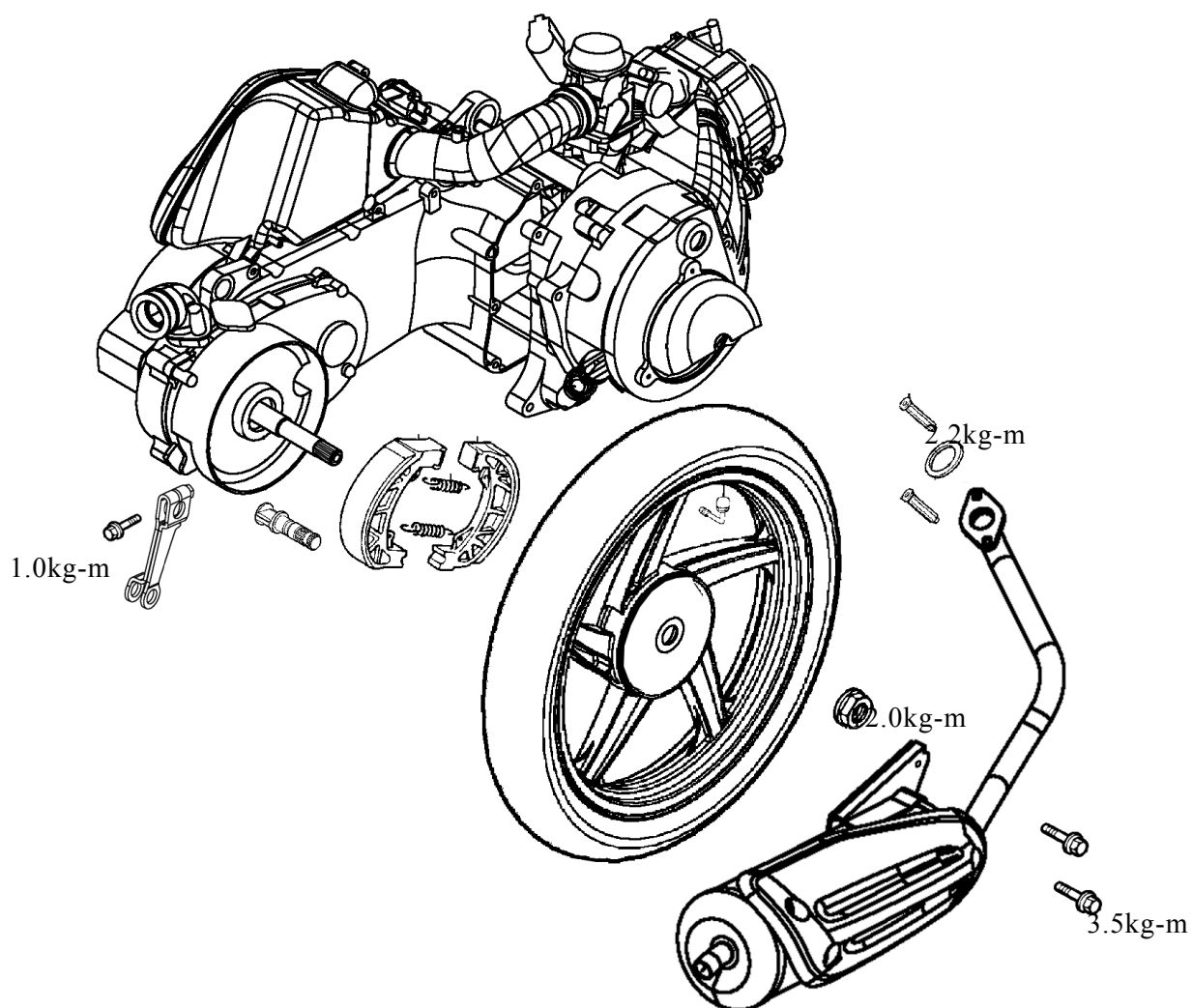

REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

| | |
|------------------------------|------|
| SERVICE INFORMATION..... | 13-2 |
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13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION



13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

SERVICE INFORMATION

GENERAL INSTRUCTIONS

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

SPECIFICATIONS

| Item | | | Standard (mm) | Service Limit (mm) |
|--|---------------------|--------|---------------|--------------------|
| | Rim runout | Radial | □ | 2.0 |
| Rear wheel | | Axial | □ | 2.0 |
| | Rear brake drum I.D | | 130 | 131 |
| Rear brake lining thickness | | | 4.204 | 2.102 |
| Rear shock absorber spring free length | | | 200.5 | 194 |

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.
Remove the rear shock absorber.
Remove the link flake.
Remove the rear wheel.



INSPECTION

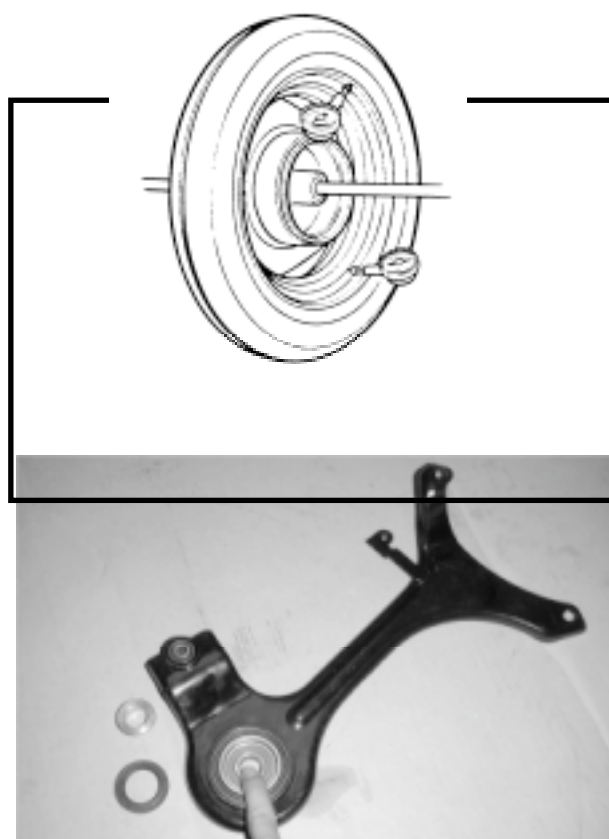
Measure the rear wheel rim runout.

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.



Turn the inner race of each bearing with your finger to see if they turn smoothly and quietly. Also check if the outer race fits tightly in the hub.

Replace the bearings if the races do not turn smoothly, quietly, or if they fit loosely in the hub.

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



13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

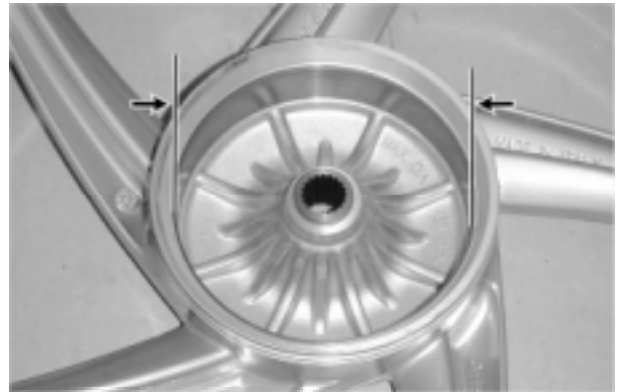
REAR BRAKE

Remove the rear wheel. (⇒13-3)

Inspect the rear brake drum.

Measure the rear brake drum I.D.

Service Limits: 131mm replace if over

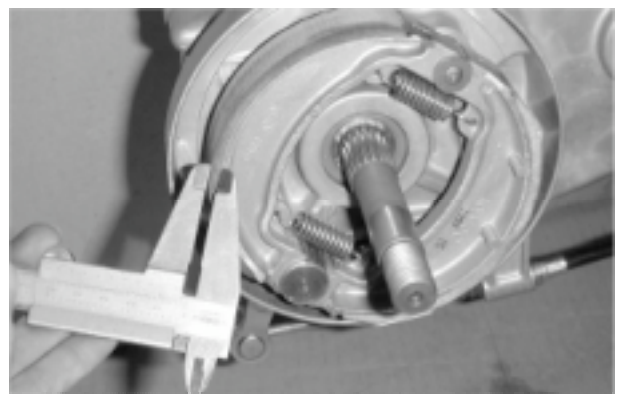


BRAKE LINING INSPECTION

Measure the brake lining thickness.

Service Limit: 2.0mm replace if below

* Keep oil or grease off the brake linings.

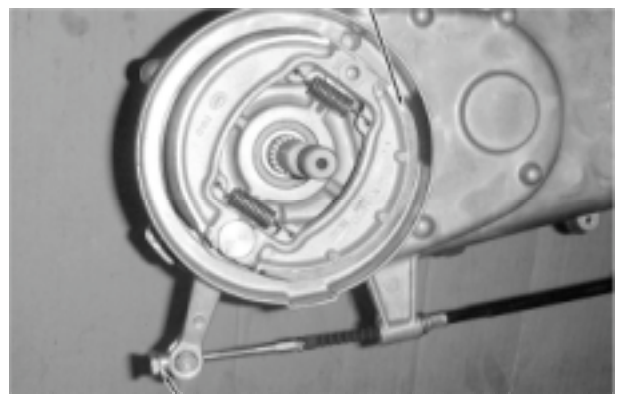


Brake Shoe

REAR BRAKE DISASSEMBLY

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

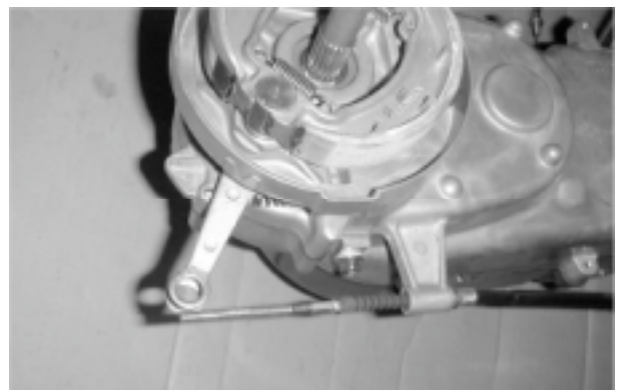
Remove the rear brake shoes.



Adjusting Nut

Remove the brake arm bolt to remove the brake arm.

Remove the brake cam.

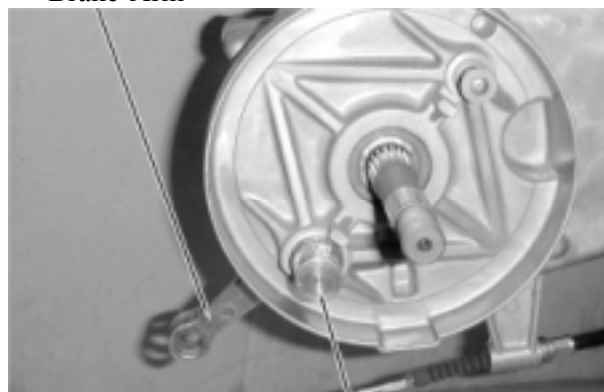


13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

REAR BRAKE ASSEMBLY

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

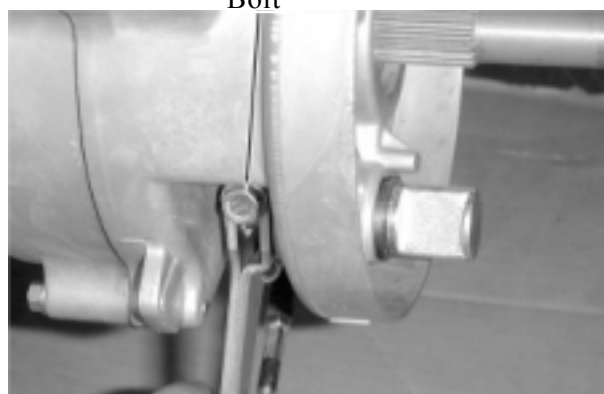
Brake Arm



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

Brake Cam

Bolt



*

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.

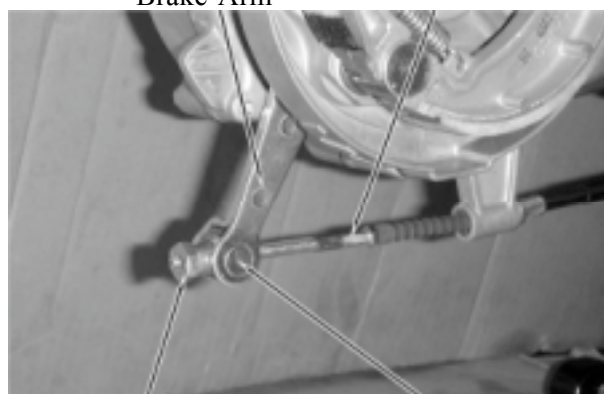
Torque: 1.0kg-m

Install the brake arm return spring.

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

Brake Arm

Brake Cable



Adjusting Nut

Brake Arm Pin

Bolt



Bolt

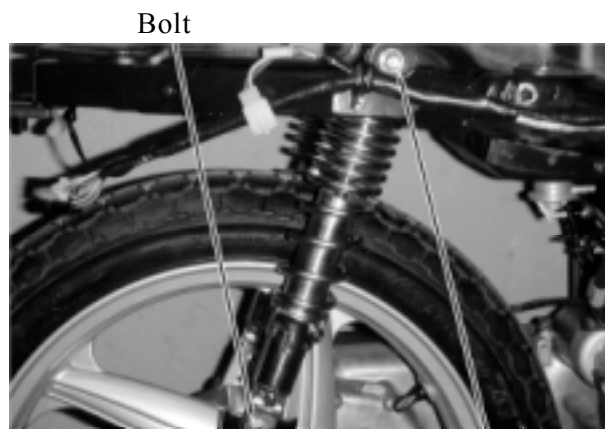
REAR SHOCK ABSORBER

REMOVAL

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

13. REAR WHEEL/REAR BRAKE/ REAR SUSPENSION

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



Bolt

ADJUSTABLE REAR CUSHION

To suit scooter behaviour to load condition rear cushion could be adjusted in spring preload.

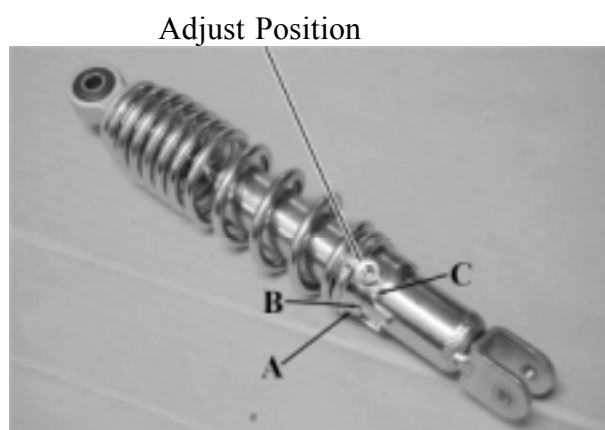
It is possible to adjust rear cushion in three positions:

A position "soft"

B position "medium"

C position "hard"

When you adjust rear cushion, the spring preload of rear cushions must be the same.



Adjust Position

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

