

3. INSPECTION/ADJUSTMENT

FILLY LX 50

3

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SERVICE INFORMATION

GENERAL



WARNING

- Before running the engine, make sure that the working area is well-ventilated. Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas which may cause death to people.
- Gasoline is extremely flammable and is explosive under some conditions. The working area must be well-ventilated and do not smoke or allow flames or sparks near the working area or fuel storage area.

SPECIFICATIONS

ENGINE

Throttle grip free play : 2_ 6mm

Spark plug gap : 0.6_ 0.7mm

Spark plug : NGK C7HSA

Valve clearance : IN: 0.04mm

: EX: 0.04mm

Idle speed : 1900 \pm 100rpm

Engine oil capacity:

At disassembly : 0.85 liter

At change : 0.7 liter

Gear oil capacity :

At disassembly : 0.11 liter

At change : 0.10 liter

3. INSPECTION/ADJUSTMENT

Cylinder compression : 16 kg/cm²

Ignition timing: BTDC 28° /4000rpm

CHASSIS

Front brake free play : 10_ 20mm

Rear brake free play : 10_ 20mm

TIRE PRESSURE

| | 1 Rider | 2 Riders |
|-------|-----------------------|------------------------|
| Front | 1.5kg/cm ² | 1.75kg/cm ² |
| Rear | 2.0kg/cm ² | 2.25kg/cm ² |

TIRE SIZE:

Front : 90/90-10 50J

Rear : 100/80-10 53J

TORQUE VALUES

Front axle nut 5.0_ 7.0kgf-m

Rear axle nut 11_ 13kgf-m

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MAINTENANCE SCHEDULE

Perform the periodic maintenance at each scheduled maintenance period.

I: Inspect, and Clean, Adjust, Lubricate or Replace if necessary.

A: Adjust C: Clean R: Replace T : Tighten

| Item | Frequency | Whichever comes first ⇨ ↓ | Regular Service Mileage (km) | | | | | | | | | | | |
|--------------------------|-----------|--|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | | | 1000 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Engine oil | | R New Motorcycle 300km | R | | | R | | | R | | | R | | R |
| Engine oil filter screen | | | | | | C | | | | C | | | | |
| Fuel filter screen | | | | | | | | | | | | R | | |
| Gear oil | Note 3 | R New motorcycle 300km | | | | | R | | | | | R | | |
| Valve clearance | | | A | | | A | | | | A | | | | A |
| Carburetor | | | | | | I | | | | I | | | | C |
| Air Cleaner | Note 2,3 | Replace at every 3000km | | | | | | | | | | | | |
| Spark plug | | Clean at every 3000km and replace if necessary | | | | | | | | | | | | |
| Brake system | | | I | I | I | I | I | I | I | I | I | I | I | I |
| Drive belt | | | | | | | | | | I | | | | |
| Suspension | | | | | | I | | | | I | | | | I |
| Nut, bolt, fastener | | | | | | | | | | I | | | | |
| Tire | | | | | | I | | | | I | | | | I |
| Steering head bearing | | | I | | | | | I | | | | | | I |

- In the interest of safety, we recommend these items should be serviced only by an authorized KYMCO motorcycle dealer.

Note: 1. For higher odometer readings, repeat at the frequency interval established here.

2. Service more frequently when riding in dusty or rainy areas.

3. Service more frequently when riding in rain or at full throttle.

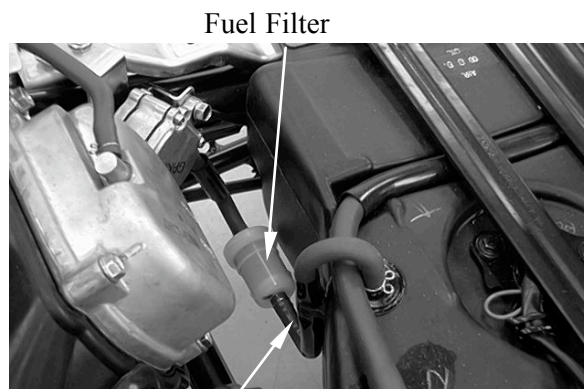
3. INSPECTION/ADJUSTMENT

FUEL FILTER

Remove the met-in box. (⇒2-3)

Check the fuel lines and replace any parts which show signs of deterioration, damage or leakage.

* Do not smoke or allow flames or sparks in your working area.



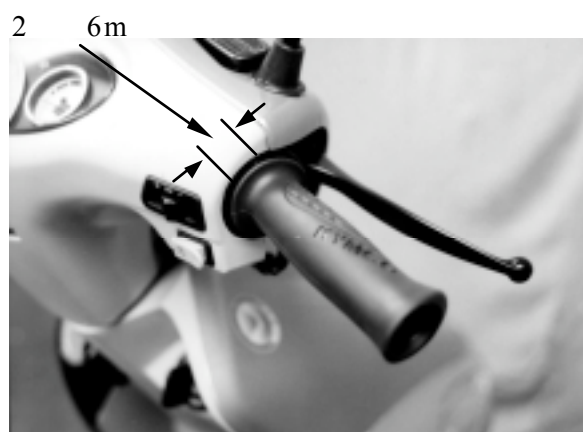
Fuel Filter

Fuel Line

THROTTLE OPERATION

Check the throttle grip for smooth movement. Measure the throttle grip free play.

Free Play: 2_ 6mm



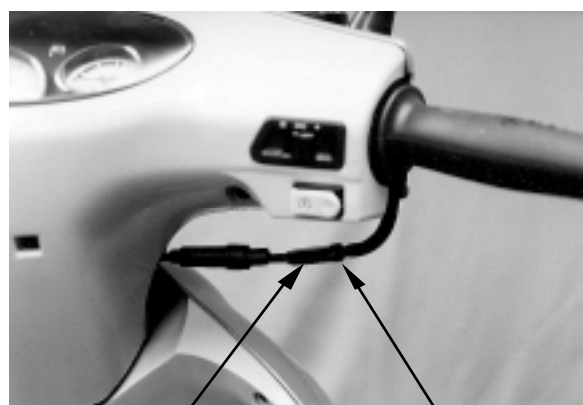
Major adjustment of the throttle grip free play is made at the carburetor side. Adjust by loosening the lock nut and turning the adjusting nut.



Lock Nut

Adjusting Nut

Minor adjustment is made with the adjusting nut at the throttle grip side. Slide the rubber cover out and adjust by loosening the lock nut and turning the adjusting nut.



Adjusting Nut

Lock Nut

3. INSPECTION/ADJUSTMENT

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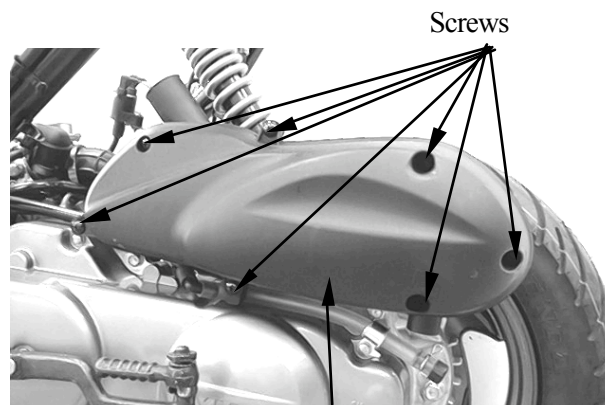
AIR CLEANER

AIR CLEANER REPLACEMENT

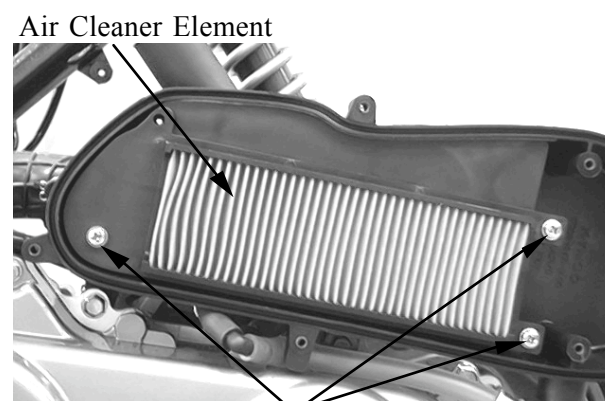
Remove the air cleaner case cover screws and the cover by removing the seven screws.

Remove the air cleaner element by removing the four screws.

Check the element and replace it if it is excessively dirty or damaged.



Air Cleaner Case Cover



bolts

CHANGE INTERVAL

More frequent replacement is required when riding in unusually dusty or rainy areas.

- *
 - The air cleaner element has a viscous type paper element. Do not clean it with any fluid.
 - Be sure to install the air cleaner element and cover securely.

SPARK PLUG

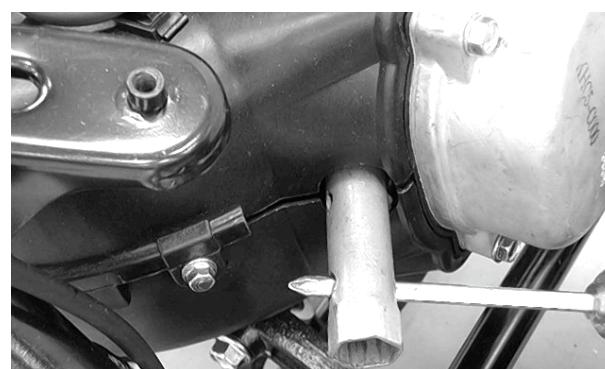
Remove the spark plug.

Check the spark plug for wear and fouling deposits.

Clean any fouling deposits with a spark plug cleaner or a wire brush.

Specified Spark Plug:

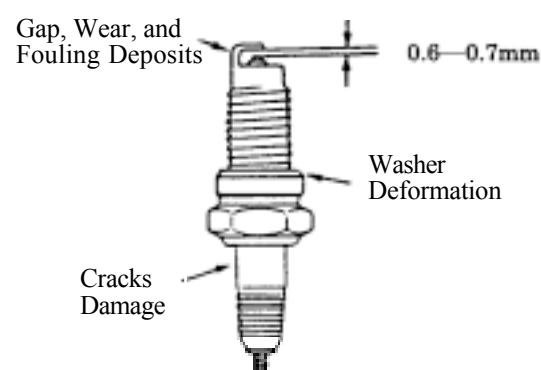
NGK: C7HSA



Measure the spark plug gap.

Spark Plug Gap: 0.6_ 0.7mm

- * When installing, first screw in the spark plug by hand and then tighten it with a spark plug wrench.



3. INSPECTION/ADJUSTMENT

VALVE CLEARANCE

- *

Inspect and adjust valve clearance while the engine is cold (below 35°C).

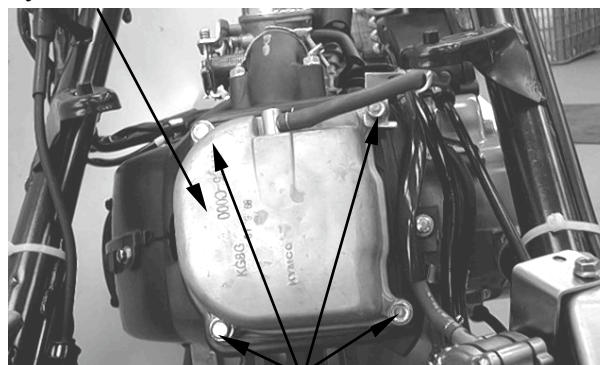
Remove the frame cover. (⇒2-3)

Remove the cylinder head cover. (⇒7-3)

Remove the two bolts on the right of the fan cover.

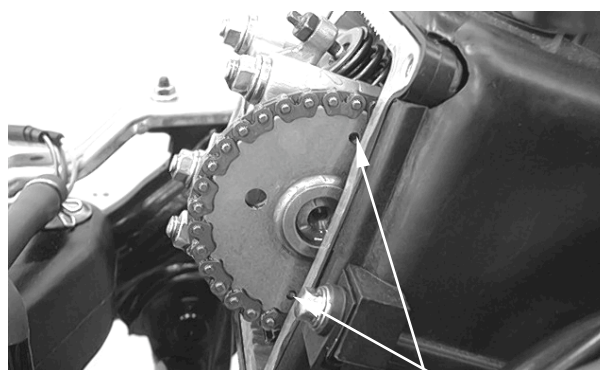
Remove the fan cover.

Cylinder Head Cover



Bolts

Turn the flywheel counterclockwise so that the "T" mark on the flywheel aligns with the index mark on the crankcase to bring the round hole on the camshaft gear facing up to the top dead center on the compression stroke.



Round Hole

Inspect and adjust the valve clearance.

Valve Clearance: IN : 0.04mm

EX: 0.04mm

Loosen the lock nut and adjust by turning the adjusting nut

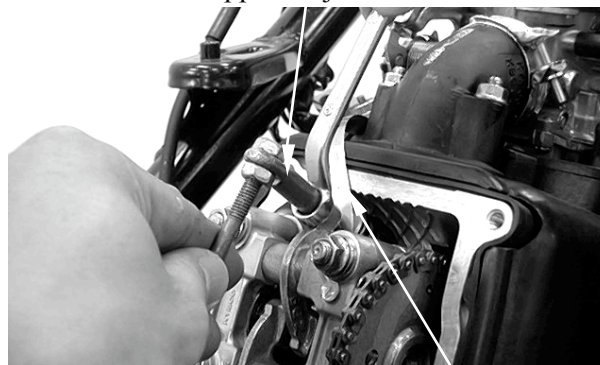
Special

Tappet Adjuster

- *

• Check the valve clearance again after the lock nut is tightened.

Tappet Adjuster



Feeler Gauge

CARBURETOR IDLE SPEED

- *

• The engine must be warm for accurate idle speed inspection and adjustment.

Remove the inspection cover.

Warm up the engine before this operation.

Start the engine and connect a tachometer.

Turn the throttle stop screw to obtain the specified idle speed.

Idle Speed: 1900 ± 100rpm

When the engine misses or run erratic, adjust the pilot screw.



Throttle Stop Screw

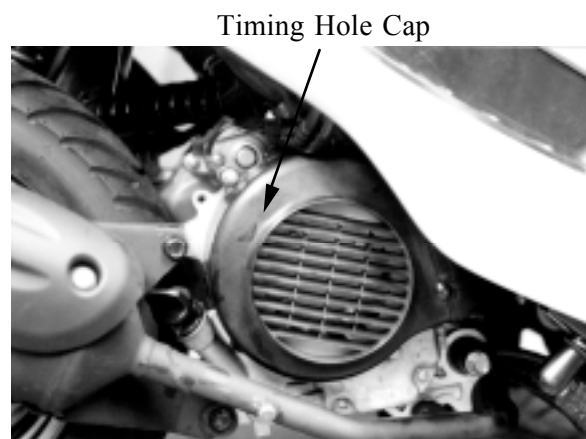
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IGNITION TIMING

- * The CDI unit is not adjustable. If the ignition timing is incorrect, check the ignition system. (⇒15-5)

Remove the right of the fan cover.



Check the ignition timing with a timing light. When the engine is running at idle speed, the ignition timing is correct if the "F" mark on the flywheel aligns with the index mark on the crankcase.



Also use a timing light to check the advance. Raise the engine speed to 4,000rpm and the index mark on the crankcase cover should be aligned with the advance mark on the flywheel.

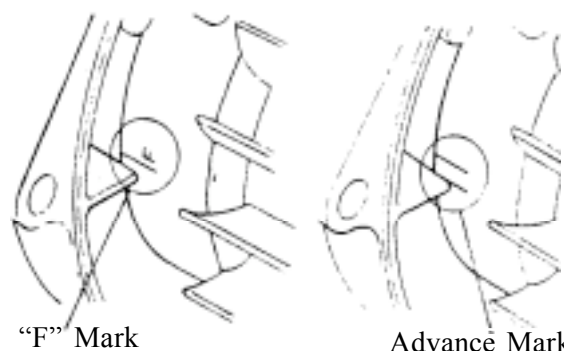
CYLINDER COMPRESSION

Warm up the engine before compression test. Remove the met-in box and center cover. (⇒2-3)

Remove the spark plug.

Insert a compression gauge.

Open the throttle valve fully and push the starter button to test the compression.

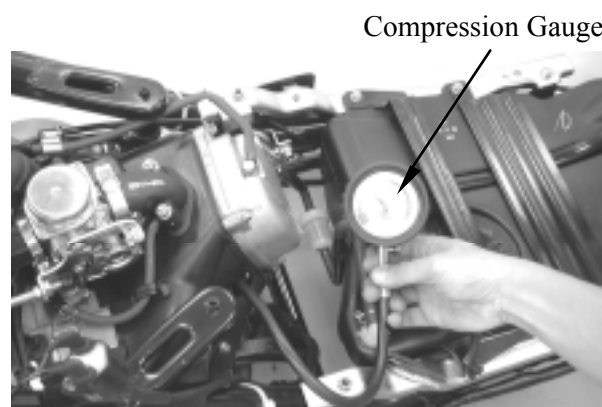


Compression: 16kg/cm²rpm

If the compression is low, check for the following:

- _Leaky valves
- _Valve clearance to small
- _Leaking cylinder head gasket
- _Worn piston rings
- _Worn piston/cylinder

If the compression is high, it indicates that carbon deposits have accumulated on the combustion chamber and the piston head.



3. INSPECTION/ADJUSTMENT

FINAL REDUCTION GEAR OIL OIL LEVEL CHECK

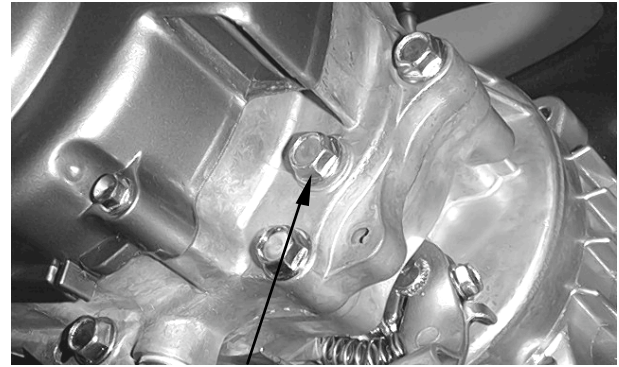
- * Place the motorcycle on its main stand on level ground for oil level check.

Stop the engine and remove the oil check bolt. The oil level shall be at the oil check bolt hole. If the oil level is low, add the recommended oil to the proper level.

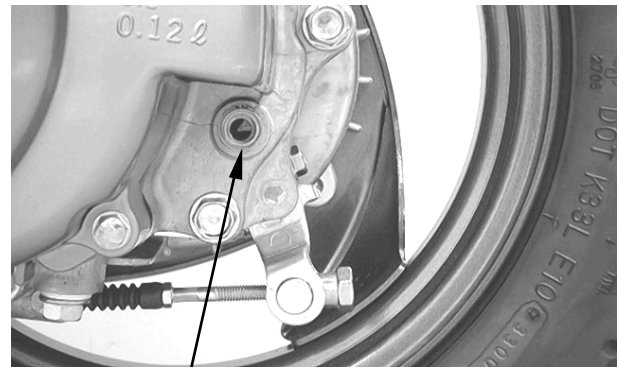
Recommended Oil: SAE90#

Install the oil check bolt.

- * Make sure that the sealing washer is in good condition.



Oil Check Bolt/Sealing Washer



Oil Check Bolt Hole Was

OIL CHANGE

Remove the oil check bolt.
Remove the oil drain bolt and drain the oil thoroughly.
Install the oil drain bolt.

Torque: 0.8~1.2kgf-m

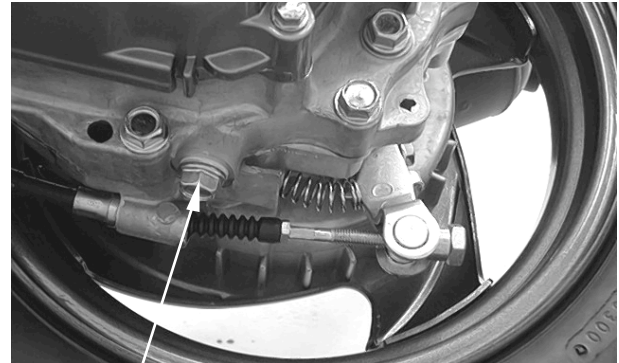
- * Make sure that the sealing washer is in good condition.

Fill with the recommended oil.

Oil Capacity: At disassembly : 0.11 liter
At change : 0.10 liter

Reinstall the oil check bolt and check for oil leaks.

Torque: 0.8~1.2kgf-m

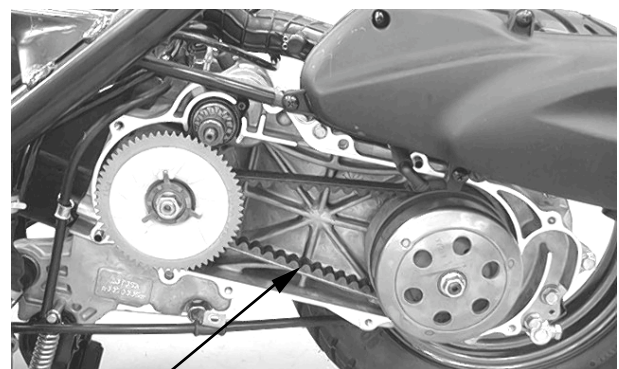


Oil Drain Bolt/ Sealing Washer

DRIVE BELT

Remove the left crankcase cover. (⇒9-2)
Inspect the drive belt for cracks or excessive wear.

Replace the drive belt with a new one if necessary and in accordance with the Maintenance Schedule.



Drive Belt

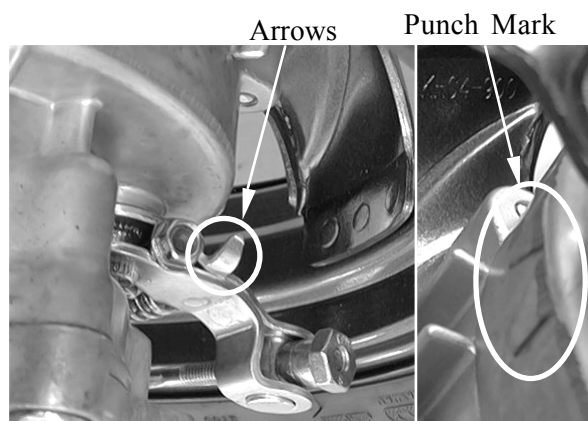
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BRAKE SHOE

Replace the brake shoes if the arrow on the wear indicator plate aligns with the punch mark on the brake panel when the brake is fully applied.

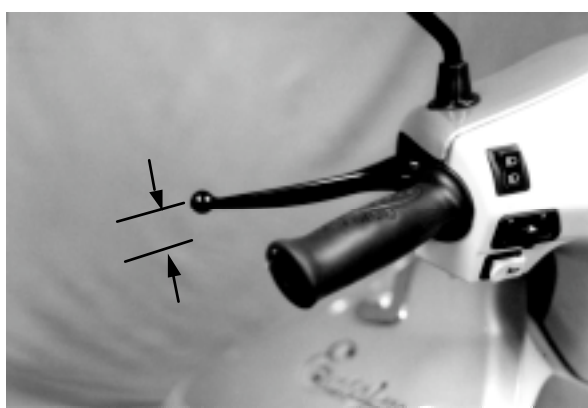
Refer to page 12-7 and 13-3 for brake shoe replacement.



REAR BRAKE

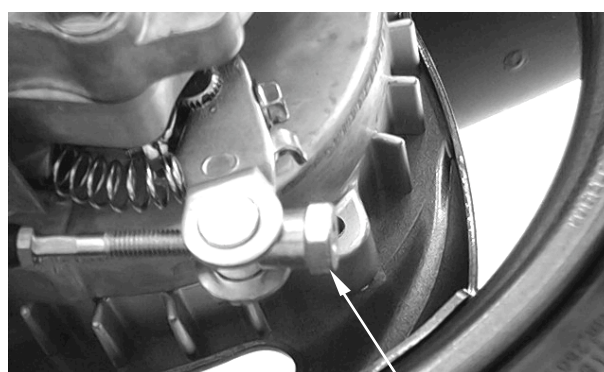
Measure the rear brake lever free play.

Free Play: 10_ 20mm



BRAKE ADJUSTING NUT

If the free play do not fall within the limit, adjust by turning the adjusting nut.

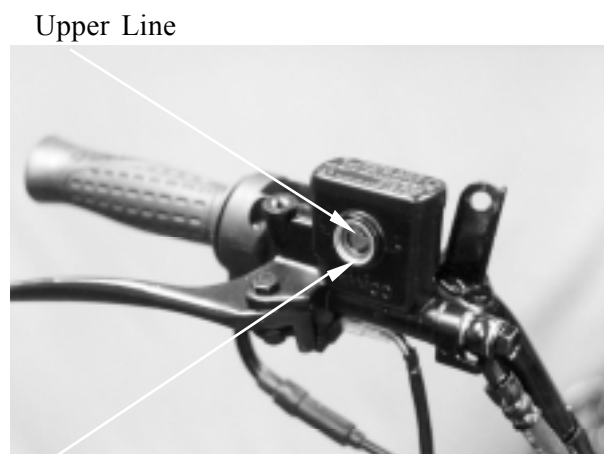


Adjusting Nut

BRAKE FLUID

Turn the steering handlebar upright and check if the rear brake fluid level should be between the upper and lower level lines.

Specified Brake Fluid: DOT-4 ◦

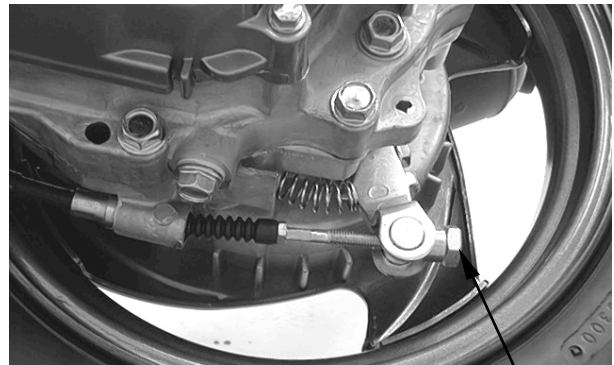


Upper Line

Lower Line

3. INSPECTION/ADJUSTMENT

If the free play do not fall within the limit, adjust by turning the adjusting nut.



Adjusting Nut

HEADLIGHT AIM

Turn the ignition switch ON and start the engine.

Turn on the headlight switch.

Adjust the headlight aim by turning the headlight aim adjusting screw.

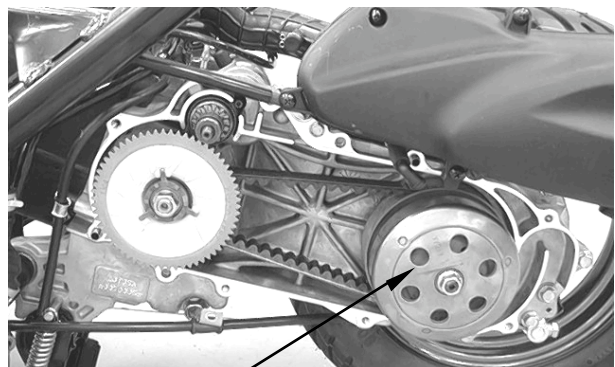


Adjusting Screw

CLUTCH SHOE WEAR

Start the engine and check the clutch operation by increasing the engine speed gradually.

If the motorcycle tends to creep, or the engine stalls, check the clutch shoes for wear and replace if necessary. (⇒9-11)



clutch

SUSPENSION

FRONT

Fully apply the front brake lever and check the action of the front shock absorbers by compressing them several times.

Check the entire shock absorber assembly for oil leaks, looseness or damage.



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REAR

Check the action of the rear shock absorber by compressing it several times.
Check the entire shock absorber assembly for oil leaks, looseness or damage.
Jack the rear wheel off the ground and move the rear wheel sideways with force to see if the engine hanger bushings are worn.



NUTS/BOLTS/FASTENERS

Check all important chassis nuts and bolts for looseness.
Tighten them to their specified torque values if any looseness is found. (⇒ 1-11)

WHEELS/TIRES

Check the tires for cuts, imbedded nails or other damages.

Check the tire pressure.

* Tire pressure should be checked when tires are cold.



TIRE PRESSURE

| | 1 Rider | 2 Riders |
|-------|------------------------|------------------------|
| Front | 1.5kg/cm ² | 1.75kg/cm ² |
| Rear | 2.00kg/cm ² | 2.25kg/cm ² |

TIRE SIZE

Front : 90/90-10 50J

Rear : 100/80-10 53J

Check the front axle nut for looseness.
Check the rear axle nut for looseness.
If the axle nuts are loose, tighten them to the specified torques.

Torques: Front : 5.0_ 7.0kgf-m

Rear : 11_ 13kgf-m



Front Axle Nut

3. INSPECTION/ADJUSTMENT

STEERING HANDLEBAR

Check that the control cables do not interfere with handlebar rotation.

Raise the front wheel off the ground and check that the steering handlebar rotates freely.

If the handlebar moves unevenly, binds, or has vertical movement, adjust the steering head bearing.

