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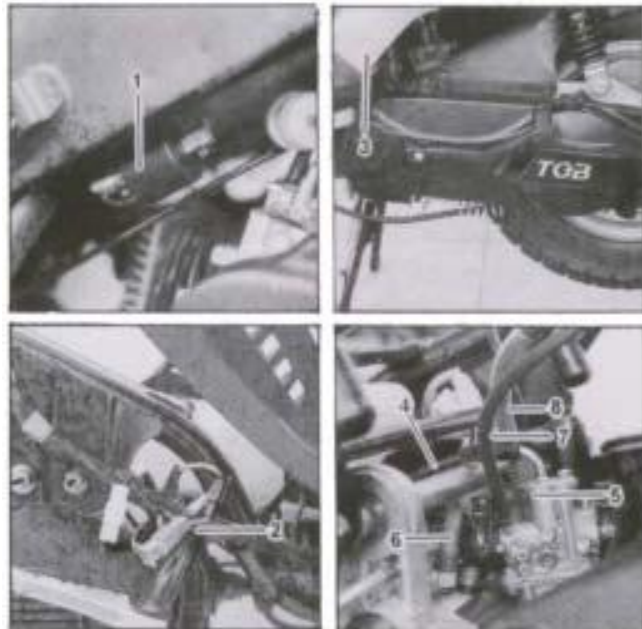
4-1 NOTICE FOR DISASSEMBLY INSPECTION

1. In order to avoid mixing and loss of disassembled parts before reassembling, the disassembled parts have to be arranged according to their function during the process.
2. The damage to Cover and Frame should be avoided while disassembling and assembling.
3. Remove the negative (-) terminal of Battery before working.
4. While reassembling, make sure that all parts are normal.
5. Specified oil should be adopted on turning and sliding parts. Specified grease should also be applied on specified positions.
6. Dust, dirt and unusual articles should be avoided while reassembling.
7. When important revolving and reciprocating parts, such as Cylinder Head, Cylinder, Piston, Piston-Ring, and Crank, have been replaced, the vehicle can not go for full speed running immediately. Preliminary running should be applied below 4000 rpm within 500km.
8. While assembling, the main lip of oil seal should face inwards (oil chamber) and the anti-dust sub-lip should face outwards.
Apply an even layer of specified grease onto the lip before it is pressed to its location with balanced force by specified jigs.
9. While pressing the bearing into the hole, apply balanced force to the outer ring of bearing by specified jigs.
While pressing the bearing into the main shaft, apply balanced force to the inner ring of bearing by specified jigs.

4-2 Removal and installation of Engine

4-2-1 Removal of Engine

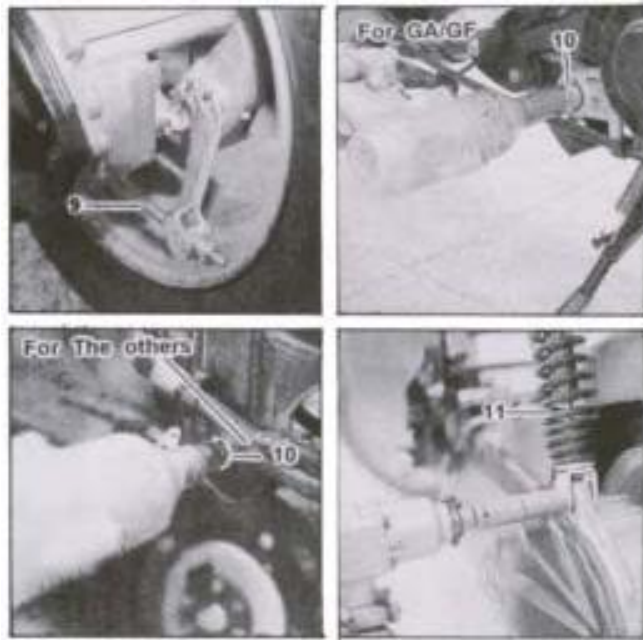
- A. Remove Ignition Coil Lead (1)
Flywheel Magneto Lead (2) Engine
Earth Ground Lead (3) Auto-Choke
cable (4) .
- B. Remove the Throttle Cable on
Carburetor Piston (5).
- C. Remove Oil Hose (6).
- D. Remove Negative Pressure Hose (7)
and Remove Fuel Hose (8).
- E. Remove Rear Brake Cable (9).



F. Remove Engine Mounting Shaft (10).

G. Remove Rear Shock Absorber (11)

H. Lift Body



4-2-2 Installation of Engine

A. Lift the body and point the bottom end hole of crank case bracket to the two front holes of engine crank case.

Install Engine Mounting Shaft and lock.

B. Install Ignition Coil, Flywheel Magneto, Engine Earth, and Auto-Choke Cable.

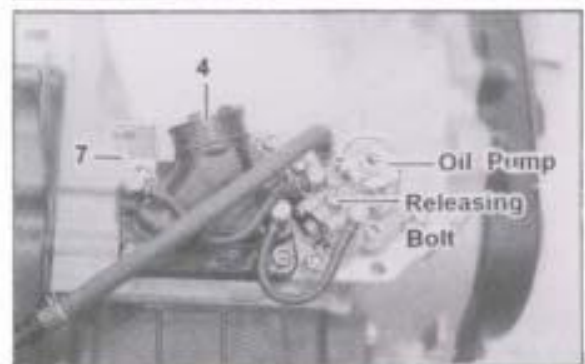
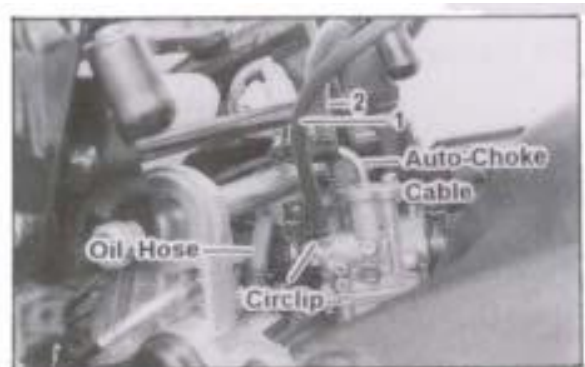
C. Install Oil Hose. Release the bubble by releasing Bolt on the Oil Pump to let the oil flow.

Relock the Bolt until no bubble appears.

D. Install Carburetor negative pressure hose (1), fuel hose(2).

Make sure to lock the circlip.

E. Install Rear Shock Absorber(3) by passing through the absorber bolt from the left of scooter body.



- F. Install Rear Brake Cable (4) and adjust the gap of rear brake lever in 15~35mm.



4-3 Disassembly and Assembly of Engine

4-3-1 Disassembly Sequence of Engine

1. Remove the Muffler.
2. Remove the Kick Starter.
Remove the Clutch.
Remove the Spring of Kick Starter Rod.
Remove the Kick Starter Shaft Comp.
3. Remove the Spring Seat.
Remove the Washer.
Remove the Left Hand Starter.
Remove the Right Hand Starter.
Remove the Drive Face. Remove the V-Belt.
Remove the Movable Drive Face Comp.
Remove the Spacer.
Detailed Disassembly:
Remove the Cover.
Remove the Movable Drive Plate.
Remove the Rotor Assembly.
Remove the Guide Block.
Remove the O-Ring.
4. Remove the Nut of Clutch Housing.
Remove the Clutch Housing. Remove the Driven Belt Pulley. Detailed Disassembly:
Remove Nut of Driven Pulley Assy.
Remove Clutch Assy. Remove the Spring.
Remove the Spring Sheet. Remove the Roller Pin.
Remove the Fixed Shaft Assy. Remove the Needle Roller Bearing. Remove the C Type Circlip.
Remove the Ball Bearing. Remove the O-Ring. Remove the Oil Seal.
5. Remove the Fan Cover. Remove the Cooling Fan. Remove the Fan Case.
Remove the Air Filter.
Remove the Nut of Flywheel Magneto.
Remove the Flywheel Magneto.
Remove the Coil Assy.
6. Remove the Starting Motor.
Remove the Cap of Starter Idler Gear.
Remove the Starting Gear.

- Remove the Pinion Gear Assy.
- 7. Remove the In-take Pipe Assy.
Remove the Reed Valve.
- 8. Remove the Oil Pump Assy.
Remove the Oil Pump Driven Gear.
- 9. Remove the Ignition Coil.
Remove the Spark Plug.
Remove the Cylinder Cover.
Remove the Cylinder Head.
Remove the Cylinder.
- 10. Remove the Snap Ring of Piston Pin.
Remove the Piston Pin.
Remove the Piston.
Remove the Piston Ring.
Remove the Needle Bearing.
- 11. Drain the Gear oil.
Remove the Cover of Gear Box.
Remove the Drive Shaft.
Remove the Snap Ring of Rear Axle Gear. Remove the Washer of Idle Shaft.
Remove the Rear Axle Gear.
Remove the Idling Shaft. Remove the Washer.
Remove the Snap Ring.
Remove the RH and LH Bearings and Oil Seal of Main Shaft.
- 12. Remove the Nut of Rear Wheel.
Remove the Rear Wheel.
Remove the Lining of Rear Brake.
Remove the Rear Wheel Shaft.
Remove the Cam Con-Rod of Rear Brake.
Remove the Cam of Rear Brake.
Remove the oil seal, Bearing of Rear Shaft.
- 13. Remove the Spring of Center Stand.
Remove the Shaft of Center Stand.
Remove the Center Stand.
- 14. Remove the Right Hand Crank Case.
Remove the Crank Shaft Assy.
Remove the Oil Seal of Right Hand Crank Case.
Remove the Bearing of Right Hand Crank Case.
Remove the Bush Comp.
Remove the Oil Seal of Left Hand Crank Case.
Remove the Bearing of Left Hand Crank Case.

4-3-1 Disassembly of Engine:

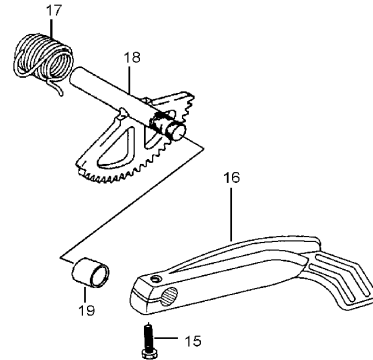
(Muffler, Kick Starter Lever Assy, Drive Pulley Assy.)

1. Removal of Muffler

2. Removal of Kick Starter Lever Assy:

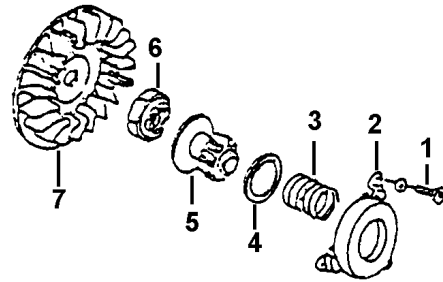
- A. Remove the hexagon bolt (15) of kick-starter lever assy (16) and remove the kick-starter lever assy.
- B. Remove the fixed screw of clutch cover.
- C. Remove the Spring (17) of kick starter shaft .
- D. Remove the kick-starter shaft (18). E.

Remove the bush (19) of kick-starter shaft



3. Removal of Drive Pulley:

- A. Remove screw (1).
- B. Remove spring seat (2). C. Remove spring (3).
- D. Remove washer (4).
- E. Remove the left hand starter assy (5).
- F. Remove the RH starter (6).



WARNING

Because it is LH thread inside the RH starter, it is necessary to use deep bush while removing (to avoid contact with the crank shaft), and remove the RH starter by using pneumatic wrench turns to right hand. If it turns to left hand, the wrong direction, it will damage the crankshaft easily.

Special Tool: GA5000051F35.

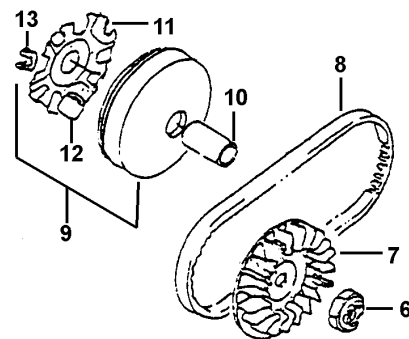
- ⊙ If manual wrench, instead of pneumatic wrench, is adopted, stop tool will be needed. Special Tool: GA5000051F3.



- G. Remove Movable Drive Face (7).
- H. Remove V-Belt (8).
- I. Remove Drive Pulley Assy (9) and Spacer (10)
- ⊙ Press the Movable Drive Plate and Drive Pulley Face while removing the Drive Pulley Face Assy in order to avoid the roller to stand up.
- J. Disassembly of Driven Pulley Face Assy:

Remove Movable Drive

Plate (11), roller (12) and guide



Disassembly of Engine: (Removal of Driven Pulley Assy)

4. Removal of Driven Pulley Assy:

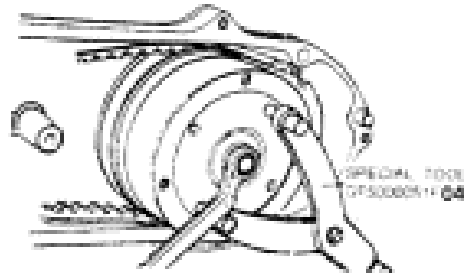
- A. Remove Nut of Clutch Housing with pneumatic wrench or stop tool as shown.

Special Tool: GA5000051F04.

- B. Remove the Clutch Housing.

- C. Remove the Driven Pulley Assy.

- D. Apply Special tool to prohibit the rotation of Clutch Assy.

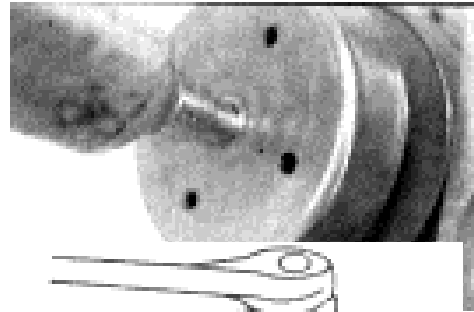


Warning:

It is not allowed to release the nut quickly because the components will fly out and cause injury. Release lightly will be enough.

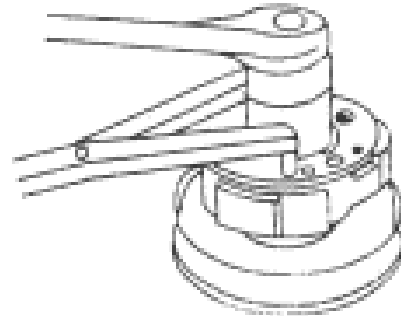
Special Tool: GA5000051F04.

- E. Press tightly the both sides of Clutch, unscrew and remove the Nut.



Warning:

Press tightly the Clutch Assy while unscrewing the Nut, so that the spring will not jump out. Release slowly after the nut is removed.



- F. Remove the Clutch Assy. G. Remove the spring.

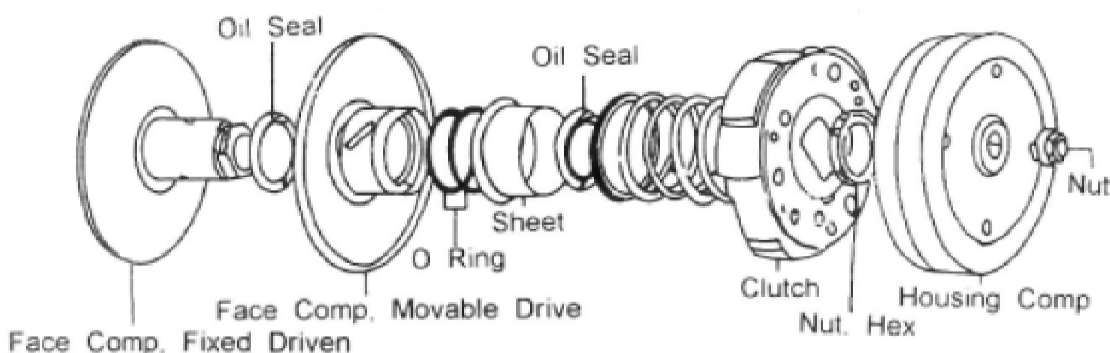
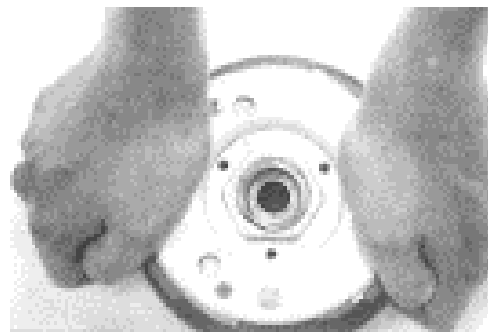
- H. Remove the Spring Sheet by screwdriver or by hand.

- I. Remove the Guide Pin.

- J. Remove the Fixed Driven Face Assy. K.

Remove the Needle Bearing.

- L. Remove the C-type Snap Ring.



Disassembly of Engine: (Removal of Flywheel Magneto and Starter Motor)

5. Removal of Flywheel Magneto:

- A. Remove the Screw of Air Filter and remove the air filter.
- B. Remove the Screw of Fan-Cowling and remove Fan-Cowling.
- C. Remove the Screw of Cooling Fan and remove the Cooling-Fan and Fan Case.
- D. Tools should be adopted to prevent the rotation of Flywheel Magneto. Remove Flange Nut of Flywheel Housing.

Special Tools: GA5000051F04

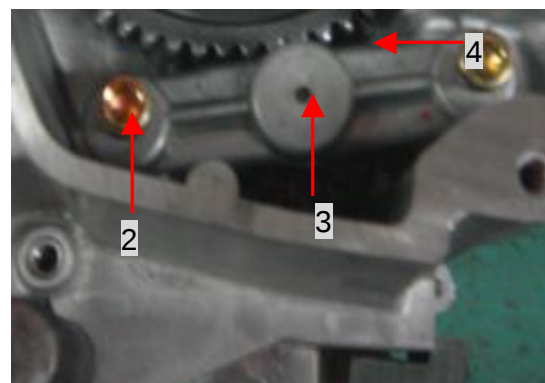
- E. Apply tools to lock on the thread hole of Flywheel Housing, hook the end of Crank Shaft and remove the Flywheel Housing

Special Tool: GA5000051F22

- F. Remove Key.
- G. Disassemble Screw of Coil and remove the coil.

6. Removal of Starter Motor:

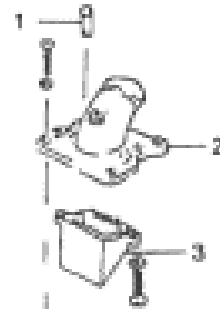
- A. Remove the Screw (1) of Starter Motor and remove the Starter Motor.
- B. Remove the Drive Gear
- C. Remove the Screw (2) of Idling Gear Cover.
- D. Remove the Idling Gear Cover (3) and Speed clutch (4).



Disassembly of Engine: (Removal of In-Take Pipe, Oil-Pump and Cylinder)

7. Removal of In-take Pipe:

- A. Remove the Fixed Plate of Fender (1).
- B. Remove the In-take Pipe (2).
- C. Remove the Reed Valve (3).

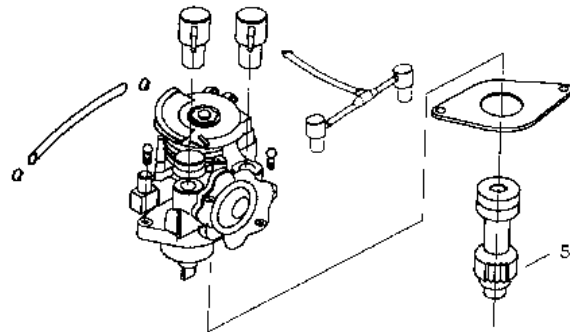


8. Removal of Oil-Pump:

- A. Remove Oil Pump (4).
- B. Remove Oil Pump Driven Gear (5).

9. Cylinder

- A. Remove the Ignition Coil.
- B. Remove the Spark Plug.
- C. Remove Cylinder Cowling.
- D. Unscrew the Cylinder Screw by diagonal step.
- E. Remove Cylinder Head, Cylinder Gasket and Cylinder.

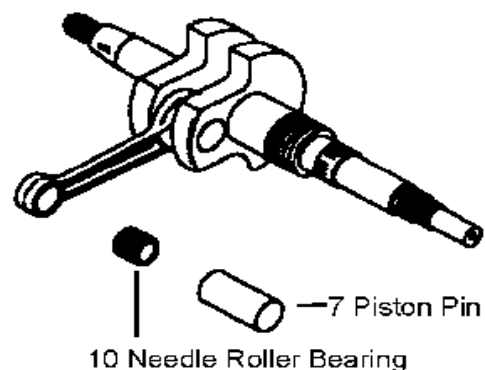
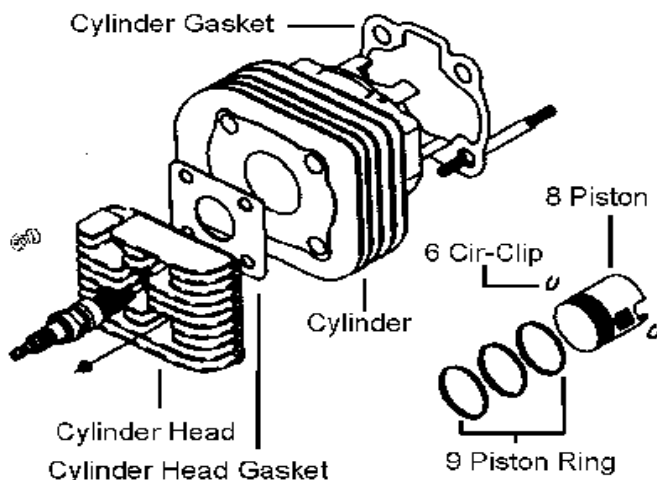


10. Piston

- A. Remove Piston Pin Cir-clip (6).
The used Circlip must be discarded and never to use again, otherwise it will be barred between piston and cylinder for looseness, and the engine is broken.
- B. Remove Piston Pin (7).
- C. Remove Piston (8)
- D. Remove Piston Ring (9).

Over expanding is not allowed while removing Piston Ring, otherwise the Piston Ring will break or crack.

- E. Remove Piston Pin Bearing (10).



Disassembly of Engine: (Removal of Reducing Gear)

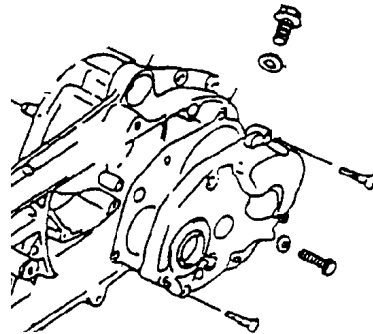
11. Removal of Reducing Gear:

A. Drain the oil in the reducing gearbox.

The Drain Screw of Engine has two designs, in the clutch cover or under the crank case.

B. Unscrew the Fixed Screw lightly and evenly by diagonal step.

C. Remove Gear Box Cover. Tap with plastic hammer if it cannot be removed.



D. Remove the Drive Shaft (1) from the Gear Box Cover.

E. Remove the Cir-clip (2) of Rear Shaft.

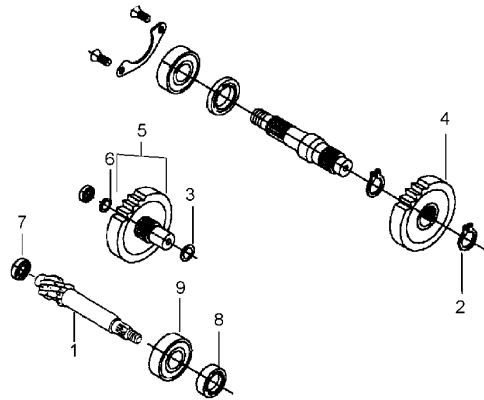
F. Remove the Left Hand Washer (3) of Idling shaft.

G. Remove the Gear (4) of Rear Shaft.

H. Remove the Gear (5) of Idling Shaft.

I. Remove the Right Hand Washer (6) of Idling shaft.

J. Hook the Right Hand Bearing (7) of Drive Shaft with special tool and remove the Bearing.



Special Tool: GA5000051F12.

K. Remove the Oil Seal (8) of Drive Shaft on the Gear Box Cover with screwdriver.

L. Remove the Left Hand Bearing (9) of Drive Shaft on the Gear Box Cover with special tool.

Special Tool: GA5000051F20.



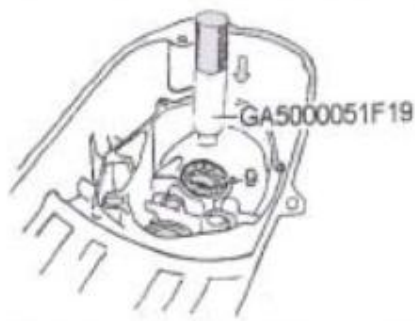
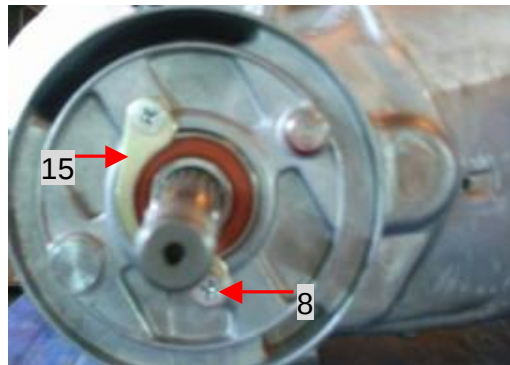
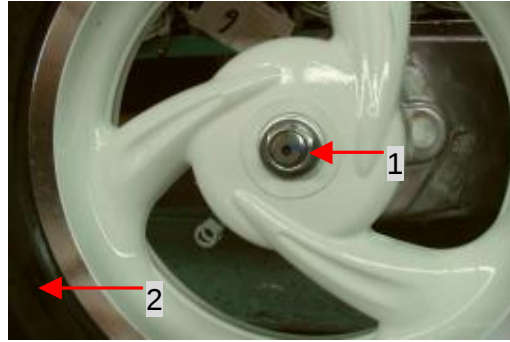
Disassembly of Engine: Removal of Rear Wheel

12. Removal of Rear Wheel:

- A. Remove the Fixed Nut (1) and washer of Rear Wheel and remove the wheel (2).
- B. Tap the Rear Wheel Shaft lightly from the Wheel End to the Gear Box to remove the Rear Wheel Shaft (3).
- C. Remove the Brake Lining (4). D. Remove the Spring (5).
- E. Remove the Cam Lever (6) of Rear Brake.
- F. Remove the Brake Cam (7).
- G. Remove the Screw (8) and Retainer (15) of Bearing.
- H. Remove the Bearing (9) of Rear Wheel Axle.

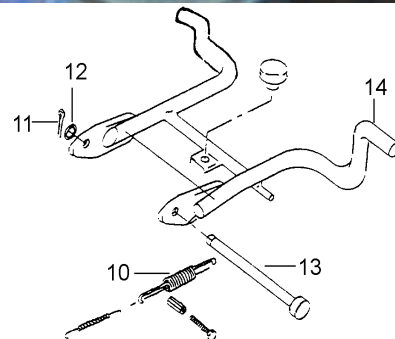
Special Tool: GA5000051F19.

- I. Remove the Oil Seal of Rear Wheel Axle with screwdriver.



13. Removal of Center Stand:

- A. Remove Spring (10).
- B. Remove Cotter Pin (11) and Washer (12).
- C. Draw out Shaft of Center Stand (13).
- D. Remove Center Stand (14).



Disassembly of Engine: (Removal of Crank Case)

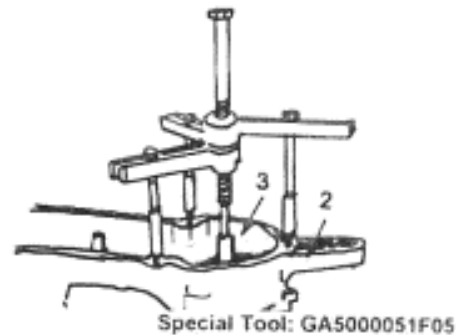
14. Removal of Crank Case:

- A. Release Fixing Screw(1) by diagonal step.



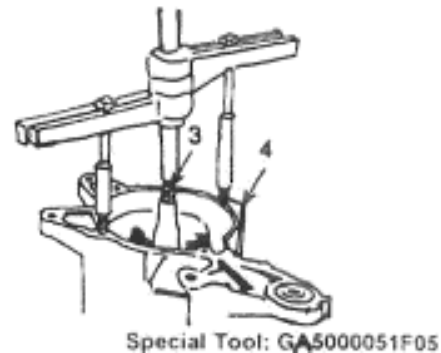
- B. Use a special tool to lock Crank Case (2) and Crank Shaft (3) to remove RH Crank Case.

Special Tool: GA5000051F05



- C. Use a special tool to lock LH Crank Case (4) and Crank Shaft (3) to push out the Crank Shaft.

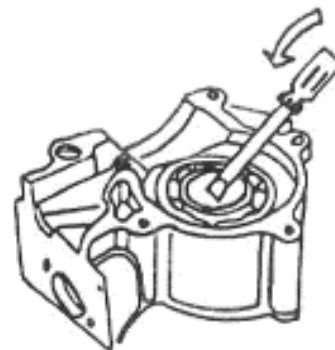
Special Tool: GA5000051F05



- D. Dig out the Oil Seal of RH Crank Shaft with a screwdriver.

- E. Remove the bearing of RH Crank Shaft with a special tool.

Special Tool: GA5000051F19.

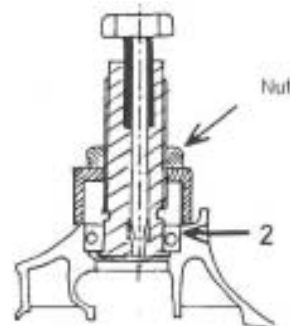


F. Pull the Oil Seal (1) of LH crank Shaft with a screwdriver and remove the oil seal by tapping.

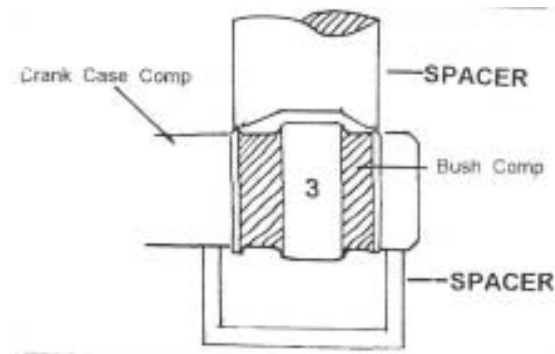


G. Remove the bearing (2) of LH crankshaft by tightening the nut of the special tool.

Special Tool: GA5000051F21



H. Put the crankcase on the spacer shown. Push the outer ring of the bush with another spacer. And press the bush out with a vice.

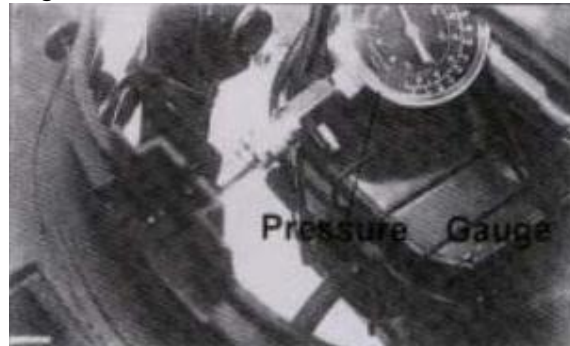


Reassembly: Assemble with the reverse sequence of disassembly.

4-3-2 Inspection of Engine Components

1. Measurement of Compression Pressure of Engine:

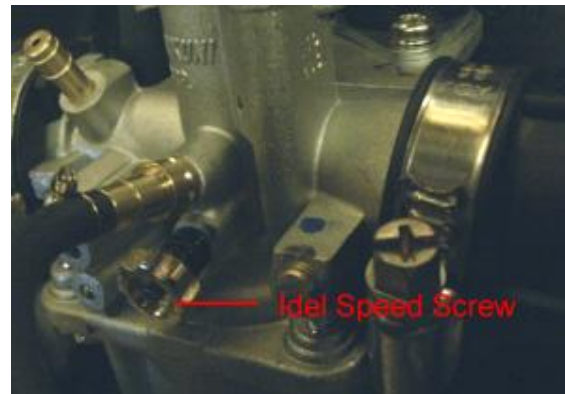
- A. Start the engine to warm running up with a full-charged battery.
- B. Remove the spark plug and install the pressure gauge.
- C. Fully open the throttle lever and start the starter motor.
Read the indicator value on the pressure gauge.



Compression Pressure:

Standard 6.8kg/cm²/500rpm

Limit 5.0kg/cm²



2. Turn the throttle stopping screw (1) and adjust to the revolution of 1800±100rpm
3. Turn the adjusting screw (2) of throttle cable and keep the clearance of steel cable in the throttle cable in 2~4mm (counted by outside diameter of throttle lever) .



4. Inspection and Replacement of Reducing Gear oil:

A. Erect the Center Stand. .

B. Remove the refilling bolt(3) on the LH crankcase.

Make sure if the gear oil reaches the bottom of refilling bolt.

C. Remove the refilling bolt(3) and drain bolt

(4) to drain the gear oil.

D. Relock the drain screw (4).

Screw Torque: 40 ~ 70kg.cm

E. Refill 90cc of TGB gear oil from the oil inlet.

F. Tighten the oil inlet bolt.

Screw Torque: 90 ~150 kg. cm



5. Inspection of Cylinder:

A. Check if any damage appears on the bore.

B. Check if any damage or crack appear on surface.

C. Excessive carbon deposit in the air outlet has to be cleaned.

D. Replace if the cylinder bore exceeds 41.07mm. (50C.C) 50.07 mm (90 C.C)

E. Repair will be needed if the flatness exceeds 0.1mm.

6. Inspection of Cylinder Head:

A. Inspect any crack or damage on surface.

B. Excessive carbon deposit in the combustion chamber has to be cleaned.

C. Repair will be needed if the flatness exceeds 0.1mm.

7. Inspection of Piston Pin:

A. Check for unusual damage, abrasion or color.

B. Replaced when the exterior diameter is less than 9.98mm (50C.C), 1.98mm (90 C.C).

8. Inspection of Piston:

A. Check for unusual damage, crack or abrasion.

B. Measure the exterior diameter at 15mm (50C.C), 20mm (90C.C.) height above the piston bottom and the perpendicular to the pin hole.

Replaced if it is less than 40.89mm. (50 C.C.) ,49.89 (90 C.C.)

C. Replaced when the piston pin hole exceeds 10.04mm (50.C.C), 12.04 mm (90 C.C.)

9. Inspection of Piston Ring:

A. Check for unusual abrasion, damage or carbon deposit.

- B. Put the piston ring into the cylinder and measure the clearance of opening by thickness gauge. Replaced if it exceeds 0.8mm.
 - C. Put the piston ring into the piston, press tightly and measure the clearance between piston ring and the groove with thickness gage. Replaced if it exceeds the limit of 0.02 ~ 0.07mm.
10. Inspection of Crank Shaft:
- A. Check for unusual abrasion and damage from the appearance.
 - B. Support the two bearings of crank shaft with V-shaped blocks and measure the deflection of two ends by indicator guage. Replaced if it exceeds 0.08mm.
11. Inspection of Reed Valve:
- A. There should be no clearance between the reed and the reed valve seat.
 - B. Check for any break from the appearance. Replaced if the flatness of contact surface exceeds 0.08mm.
12. Inspection of V-Belt:
- A. There should be no oil stain, crack and unusual damage from the appearance.
 - B. Replaced if the belt width is less than 15.0mm.
13. Inspection of Clutch Housing:
- A. Inspect for any unusual damage and color change.
 - B. Replaced if the inside diameter exceeds 110.40nm.
14. Inspection of Clutch Spring:
- A. Inspect crack and damage from the appearance.
 - B. Replaced when the free length at curved hook is above 25.5mm.
15. Inspection of CVT Spring:
- Replaced if the free length of spring is less than 100mm.
16. Inspection of Clutch Lining:
- A. Check for oil stain, crack and unusual damage from the appearance.
 - B. Replaced if the thickness of lining is less than 2.0mm.
17. Inspection and Cleaning of Air Cleaner:
- A. Remove the two slide hooks on Air Cleaner Cover.
 - B. Remove Screw and Filter.
 - C. Check for any damage and foreign material in the air cleaner. Clean the inside of the air cleaner.
 - D. Clean the Filter with cleaning oil or diesel fuel.
 - E. Dry the Filter and soak in 10g of TGB Supper Oil
- No. GA50400002.

4-3-3 Assembly Sequence of Engine

1. Assemble the Bearing of LH Crankcase.
Assemble the Oil Seal of LH Crankcase.
Assemble the Bush.
Assemble the Bearing of RH Crankcase.
Assemble the Oil Seal of RH Crankcase.
Assemble the Crank Shaft.
Assemble the RH Crankcase.
2. Assemble the Center Stand.
Assemble the Shaft of Center Stand.
Assemble the Spring of Center Stand.
3. Assemble the Cam of Rear Brake.
Assemble the Cam Lever of Rear Brake.
⊙ Assemble the Oil Seal
⊙ Assemble the Bearing.
Assemble the Rear Wheel Axle.
Assemble the Lining of Rear Brake.
Assemble the Rear Wheel.
⊙ Assemble the Washer.
Assemble the Nut of Rear Wheel.
4. Assemble the RH Bearing of Rear Axle.
Assemble the Cir-clip of Rear Axle.
Assemble the Washer.
Assemble the Idling Shaft.
Assemble the Rear Axle Gear.
Assemble the Cir-clip of Rear Axle Gear.
⊙ Assemble the Oil Seal of Drive Shaft.
⊙ Assemble the LH Bearings of Drive Shaft.
Assemble the Drive Shaft.
Assemble the Cover of Gear Box. Refill the Gear Oil.
5. Assemble the Needle Roller Bearing of Con-Rod.
Assemble the Piston Ring.
Assemble the Piston. Assemble the Piston Pin.
Assemble the Cir-clip of Piston Pin.
6. Assemble the Cylinder. Assemble the Cylinder Head.
Assemble the Cylinder Cowling.

Assemble the Spark Plug.
Assemble the Ignition Coil.

7. Assemble the Oil Pump Driven Gear.
Assemble the Oil Pump Assy.

8. Assemble the Reed Valve.
Assemble the In-take Pipe Assy.

9. Assemble the Pinion Gear Assy.
Assemble the Starting Gear.
Assemble the Cap Set of Starter Idler Gear.
Assemble the Starting Motor.

10. Assemble the Coil Assy.
Assemble the Flywheel Magneto.
⊙ Tighten the Nut of Flywheel Magneto.

11. Assemble the Fan Case.
Assemble the Air Cleaner.
Assemble the Cooling Fan.
Assemble the Fan Cowling.
Assemble the Muffler.

12. Assemble the Oil Seal of Movable Driven Face Comp.
Assemble the O-Ring.
Assemble the Ball Bearing of Fixed Driven Face Comp.
Assemble the C Type Cir-clip.
Assemble the Needle Roller Bearing.
Assemble the Fixed Driven Face Comp.
Assemble the Roller Pin.
Assemble the Spring Sheet.
Assemble the Spring.
Assemble Clutch Assy.
⊙ Tighten Nut of Driven Pulley Assy.
Assemble the Driven Pulley Assy.
Assemble the Clutch Housing.
Assemble the Nut of Clutch Housing Comp.

13. Assemble the O-Ring of Movable Drive Face Comp.
Assemble the Guide Block.

Assemble the Roller Set.

Assemble the Movable Drive Plate.

Assemble the Cover

Assemble the Spacer.

Assemble the Movable Drive Face Comp.

◎ Assemble the Kick RH Starter.

Assemble the Kick LH Starter.

Assemble the Washer.

Assemble the Spring Holder.

14. Assemble the Kick Starter Shaft Assy.

Assemble the Spring.

Assemble the Clutch Cover.

Assemble the Kick Starter Lever Assy.

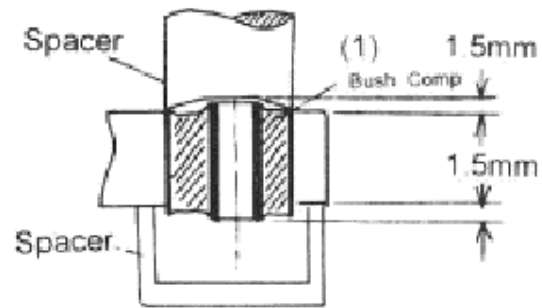
Remark:"◎"means that special tools are needed.

4-3-3. Assembly of Engine:

1. Assembly of Crank Case

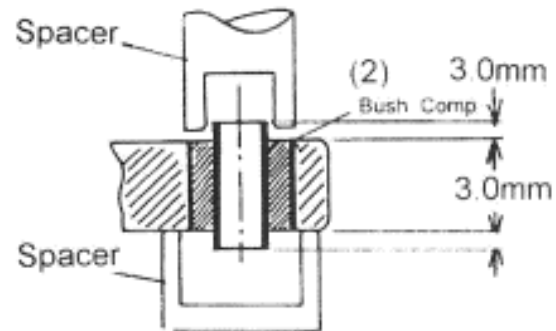
A. Assemble the front Bush (1) of crankcase with a vice.

- ⊙ The knurled side of Bush should face inwards when installing the buffer into the LH and RH crankcases.
- ⊙ Extrude 1.5mm to both sides when installing the Bush into the lug of crank case.



B. Assemble the Bush (2) of rear shock absorber of left crankcase with sleeve and vice.

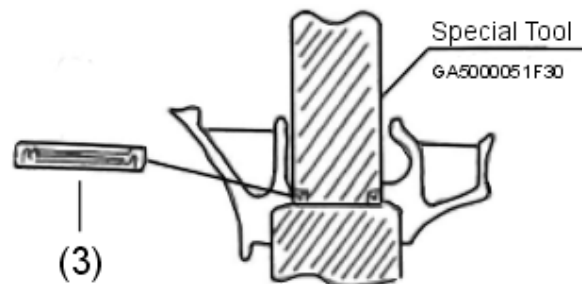
- ⊙ Extrude 3.0mm to both sides when installing the bush into the rear lug of crank case.
- ⊙ The size of Spacer pressed into the Bush should be a little less the exterior diameter of outer ring of Bush. The Spacer must be pressed onto the outer ring, not the inner ring.



C. Apply a thin layer of grease

GA50400005 onto the lip of oil seal of the right hand crank case and install the oil seal (3) with special tool.

Special Tool: GA5000051F30



- ⊙ Slanting of oil seal and damage to the lip when press fitted shall not be allowed.

D. Add about 0.3cc of engine oil (JASO FC)

(GA50400002) into the bearing(4) of right hand crank shaft and press the bearing into the right hand crank case with special tool.

Special Tool: GA5000051F16



E. Apply a thin layer of grease

GA50400005 onto the lip of oil seal of the left hand crank case and install the oil seal with special tool.

Special Tool: GA5000051F32

Slanting of oil seal and damage to the lip shall not be allowed.

F. Add about 0.3cc of engine oil

(GA50400002) into the bearing (I) of left hand crank shaft and press the bearing into the left hand crankcase with special tool.

Special Tool: GA5000051F15

G. Apply about 0.3cc of engine oil on the bigger end of Con-Rod of Crank Shaft, Draw the Crank Shaft (2) into the Right Hand Crankcase (3) with special tool.

Special Tool: GA5000051F08

◎ Avoid damage to the Lip of Oil Seal while drawing in.

Knocking on the crankshaft is not allowed and dust and dirt into the crank chamber should be avoided.

H. Apply seal agent (GA50400001) evenly to the contact surface of RH and LH crank cases. ◎ Do not apply too thick.

Avoid entering of seal agent into joints and the crank chamber.

I. Install knock-pin.

J. Assemble RH crank case (3) and LH crankcase (4).

◎ Avoid damage and overturning of the Lip of oil Seal.

K. Tighten the crank case screw.

Screw Torque: 50~80 kg-cm

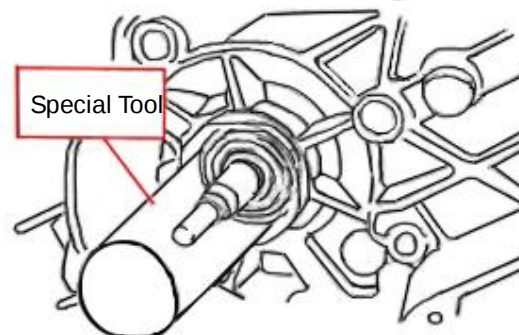
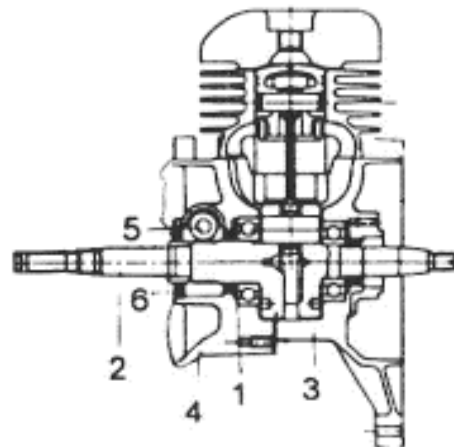
◎ Try to see if the operation of crank shaft is smooth.

L. Apply about 10cc of grease (GA50400005) onto the oil-pump driven gear's chamber of crankcase.

M. Insert the oil-pump driven gear (5).

N. Press in the oil seal (6) of oil-pump driven gear with special tool.

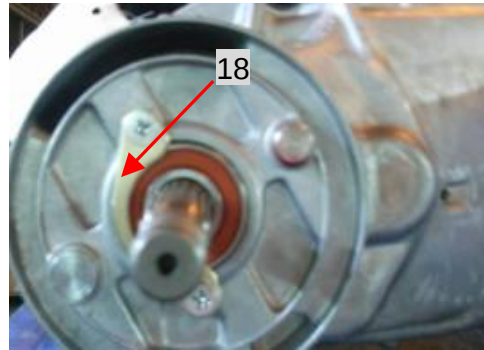
Special Tool: GA5000051F31



2. Assembly of Center Stand

A. Install Center Stand (1).

B. Insert the shaft (2) of center stand. C. Install washer (3) and cotter pin (4) D. Hook the spring of center stand to the bolt of crank case.



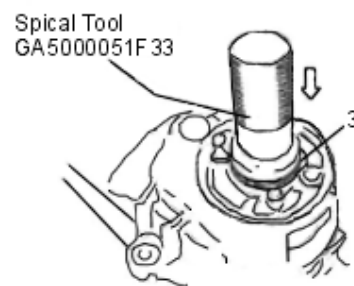
3. Assembly of Rear Wheel

A. Apply a layer of grease GA50400005) onto the lip of oil seal of Rear Axle and press into the left hand crank case with special tool.

Special Tool: GA5000051F33

B. Punch in the right bearing of rear axle with special tool.

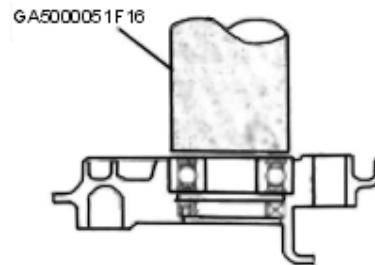
Special Tool: GA5000051F16.



C. Install the bearing retainer (18) and lock the screw.

Screw Torque: 120~130 kg-cm

D. Apply a little gear oil (GA50400004) to the rear axle and press into the reducing gear chamber of the crank case.



E. Apply a little grease (GA50400005) to the shaft (1) of the Cam of rear brake and then install into the crank case.

F. Tighten the cam bolt (2) and cam lever (3) of rear brake.

Screw Torque: 60~90 kg-cm

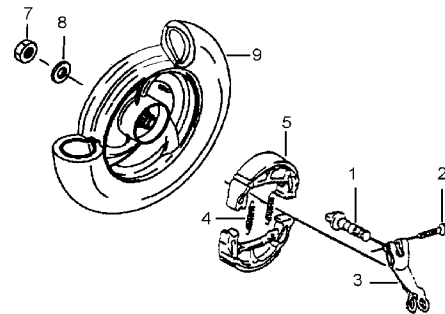
G. Apply a thin layer of grease (GA50400005) to the cam of rear brake.

H. Hook the spring (4) and then inlay the rear brake lining (5).

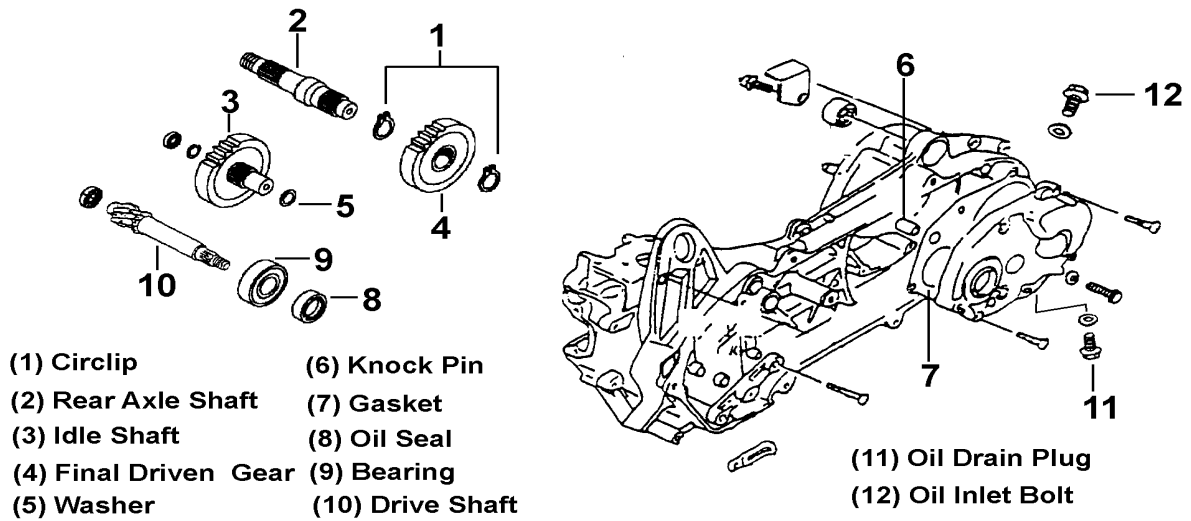
I. Install rear wheel (6).

J. Tighten rear wheel nut (7) and washer (8)

Screw Torque: 600~900 kg-cm



4. Assembly of Reducing Gear



A. Apply a little gear oil (GA50400004) on the right hand bearing of rear axle, and then evenly press into the reducing gear chamber. with fixture.

Special Tool: GA5000051F18

B. Mount cir-clip (1) on the rear axle(2). C. Install idle shaft washer(5).

D. Apply a little gear oil (GA50400004) on the bearing contact surface of idle shaft.

E. Install the final driven gear(4). Install cir-clip of rear axle. F. Install idle shaft washer(5). Install idle shaft (3)

G. Assemble knock-pin(6) .

H. Install the gasket(7) of gear box cover.

I. Apply grease (GA50400005) on the lip of oil seal(8) of drive shaft and then press into the gear box cover with special tool.

Avoid damage to the lip of oil seal. Install horizontally and slanting is not allowed.

Special Tool: GA5000051F30

J. Press in the LH bearing (9)of drive shaft with special tool.

Special Tool: GA5000051F17

K. Press the drive shaft(10) evenly into the gear box cover. .

L. Install the gear box cover and lock the bolt in sequence by diagonal step. M. Lock the drain bolt (11).

Screw Torque : 90~150 kg- cm

The drain hole for engine is located on the gear box cover or outside the crank case, for we have two designs.

N. Fill 90cc of TGB gear oil (GA50400004) Q. Tighten the refilling bolt(12).

Screw Torque : 90 kg-cm

The refilling hole for engine is located on the gear box cover or outside the crank case, for we have two designs.

5. Assembly of Piston

A. Apply TGB oil (GA50400002) on the needle roller bearing at the small end of con-rod.

B. Install the piston ring (3) on the piston (2). (FOR 50C.C.)

a. The 2nd ring (6) is engraved 2R mark, which should face upwards while installing. Put the expansion ring (8) insert into the piston first, and then install the 2nd ring.

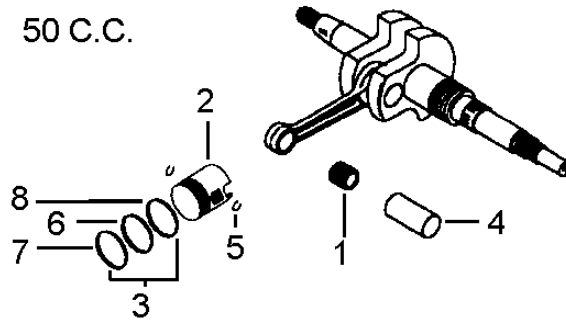
b. There is a cone surface on the 1st ring (7), place the engraved surface with R mark upwards while installing.

⊙ The opening of piston ring should point to the knock-pin(9) of piston while installing.

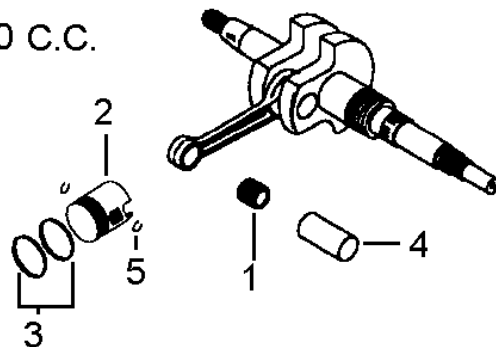
⊙ Do not put too much force while open to let the piston through, so that the piston ring will not be damaged.

※For 90C.C. engine, there are two cone piston Rings without expansion ring.

50 C.C.



90 C.C.



C. Install the cir-clip (5) of piston pin into the cir-clip groove of piston.

⊙ The cir-clip has to be actually installed into the groove, or it will cause cylinder jam during operation.



6. Assembly of Cylinder:

A. Apply a little TGB oil.

(GA50400002) to piston pin (3) and then insert into the piston hole.

B. Install the cir-clip (4) of piston pin and make sure to rotate the opening of the circlip to be kept away from the concave area of the piston.

⊙The cir-clip has to be actually installed to its position, or it will cause cylinder jam during operation.

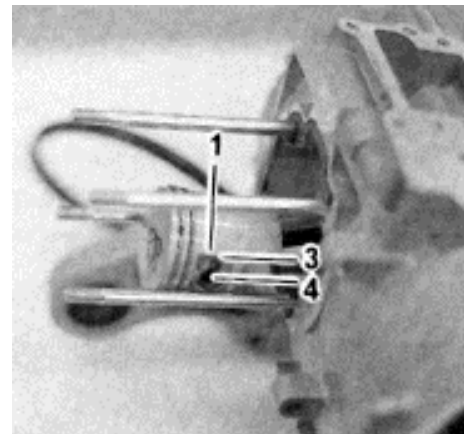
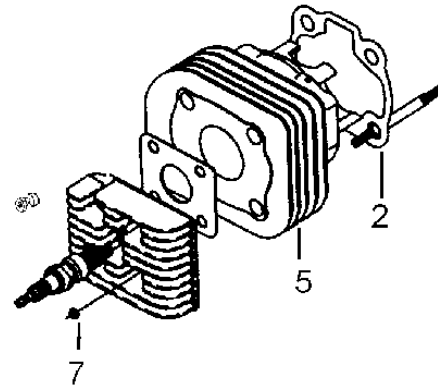
C. Apply more than 3cc of TGB oil (GA50400002) evenly on the inside of the cylinder and the outside of the piston.

D. Install cylinder gasket (2).

E. Install piston (1) into cylinder.

⊙The arrow mark on the piston has to be install to ward the exhaust port.

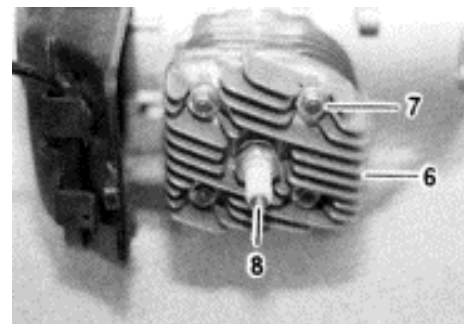
F. Install cylinder head gasket.



G. Install cylinder head (6).

H. Screw the flanged nut (7) of cylinder head by diagonal step.

Screw Torque: 120~130 kg-cm

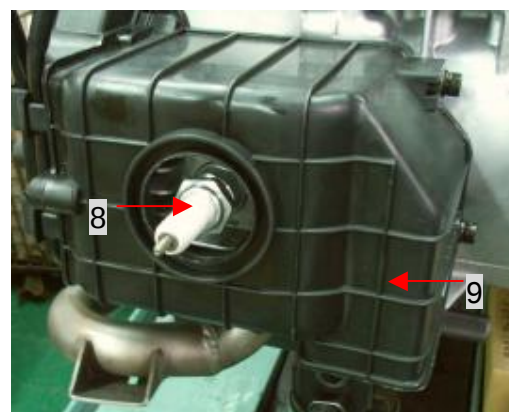


I. Install the cylinder cowling (9). J.

Tighten the spark plug (8).

Screw Torque: 250~300 kg-cm

K. Point the extruded part of ignition coil to the groove of cylinder cowling and then tighten the screw.



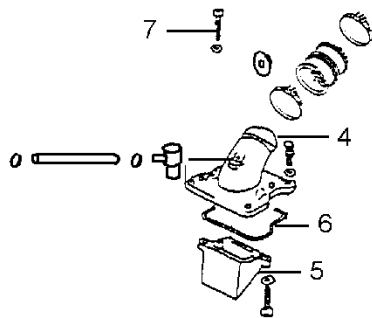
7. Assembly of Oil-Pump:

- A. Apply a layer of grease (GA50400005) on the sliding part and gear tooth of oil-pump driven gear (1) and then insert into the crankcase.
- B. Install the oil-pump (2).



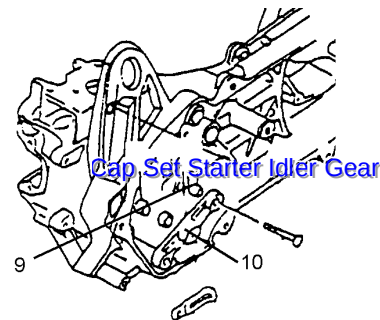
8. Assembly of Reed Valve:

- A. Install the reed valve (5) on the in-take pipe.
- B. Install the gasket (6) and the in-take pipe (4) into the crankcase.
- C. Screw the fender bracket (7) on the in-take pipe.

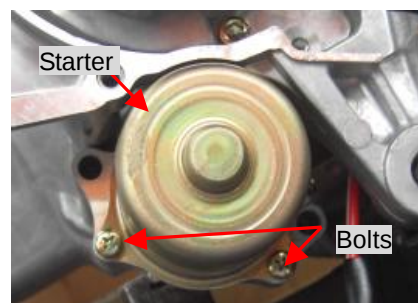
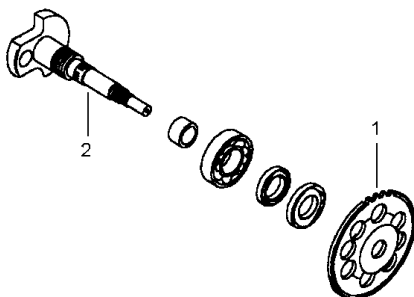


9. Assembly of Starter Motor:

- A. Apply a thin layer of grease (GA50400004) on the shaft of pinion gear assy and then install into the crankcase.
- B. Install two knock-pins (9).
- C. Install starter idle gear cap (10) and screw (3)

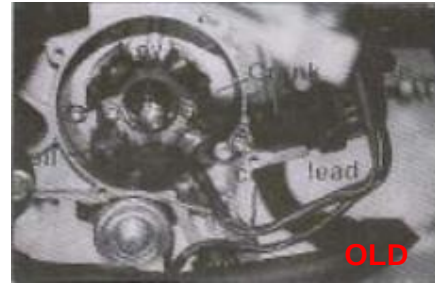


- D. Install the starter gear(l) into the left hand crank shaft(2).
- E. Install the starter motor and tight the bolt with cable clamp.



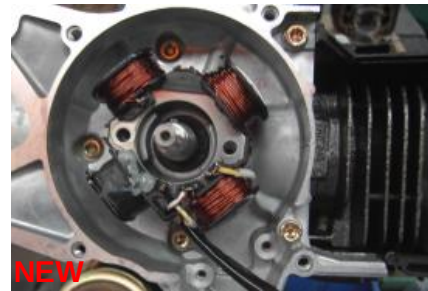
10. Assembly of Flywheel Magneto

A. Screw the coil.

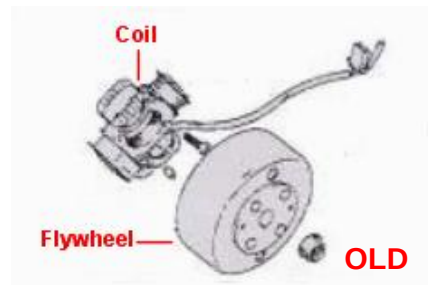


B. Let the coil lead go through the opening of Crank Case.

C. Install pick-up (1)

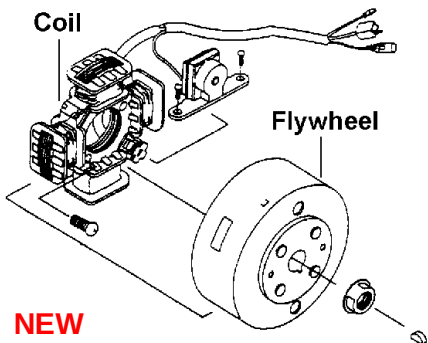


D. Clean the taper of crank shaft and install the key.
Tap lightly to its position.



E. Install the flywheel magneto.

⊙ Avoid the drop of key and make sure to the position of the flywheel magneto.



F. Use tool to avoid the turning of flywheel magneto.

Special Tool: GA5000051F04

Screw Torque: 350~450 kg-cm

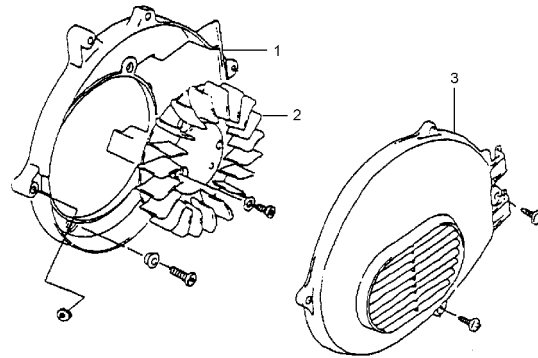


11. Assembly of Cooling Fan:

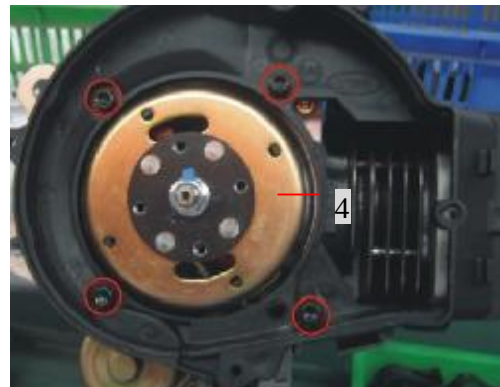
A. Install fan case (1).

⊙ The lead has to go through the groove of right hand crank case and damage should be avoided.

B. Install cooling fan(2). C. Install fan cowling (3) .



⊙ The starter motor and flywheel magneto lead (4) have to be installed into the lead groove, as shown.



12. Assembly of Movable Driven Pulley Assy :

A. Install the ball bearing (1) into the fixed driven face comp (2).

⊙ The outer diameter of bearing press fitted with the hole of face comp.
Pay attention to press to the outer ring by special tool.

B. Install C-type cir-clip(3).

C. Install the needle roller bearing(4) .

D. Apply grease (GA50400003) on the lip of oil seal (5) and press in the movable driven face comp (6), one for top and bottom each.

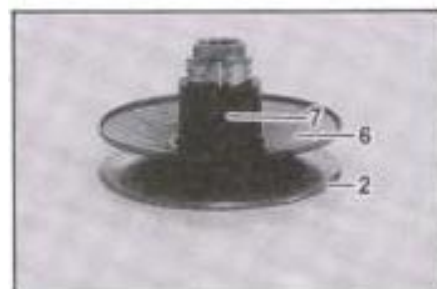
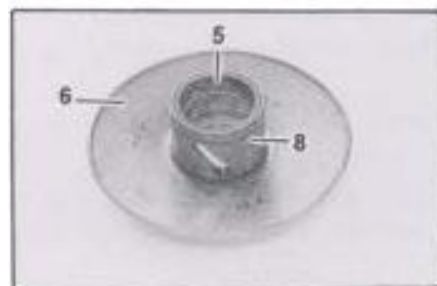
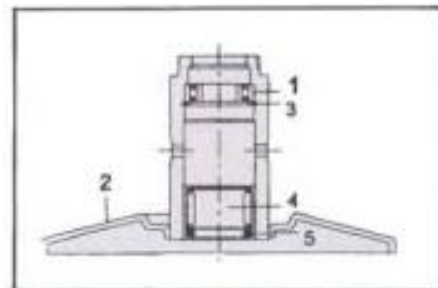
E. Install the fixed driven face comp (2).into the movable driven face comp(6).

⊙ Void damage to the lip of oil seal.

F. Install three roller guide pins (7).

G. Install two O-rings (8).

H. Apply about 5g of grease (GA50400005) to the groove of the



Cam.

- I. Apply a little grease (GA50400005) to the inside of spring sheet and manually push the spring sheet in lightly.
- J. Install the spring.
- K. Press the clutch shoe assy with both hands, and then screwing the nut (9) with one hand still pressing the clutch shoe assy
- L. Use tool to tighten the nut of clutch shoe assy.

Screw Torque: 400~600 kg-m

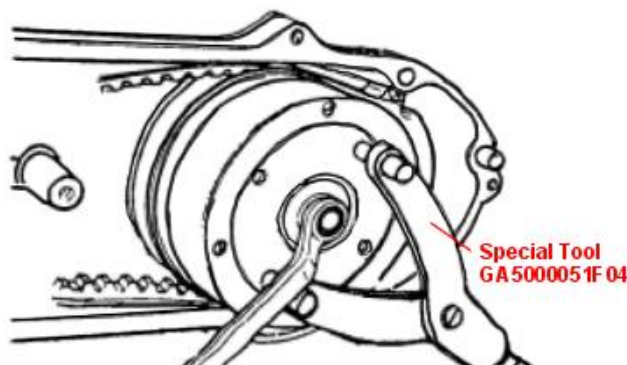
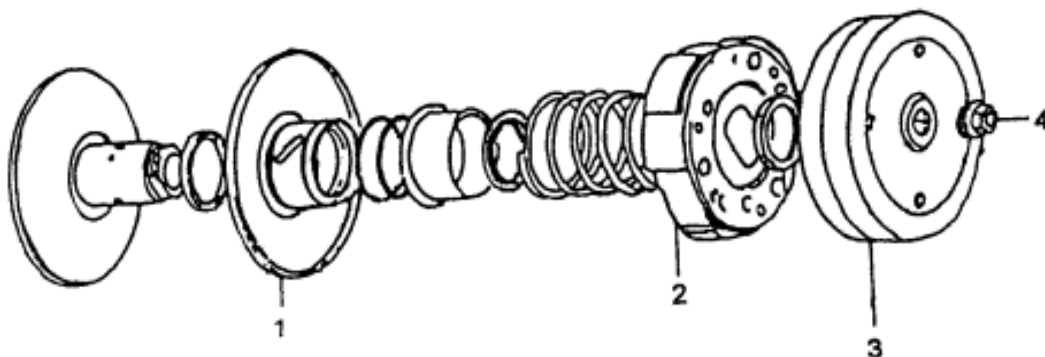
Special Tool: GA5000051F04



- M. Move the movable driven face (1) of movable driven pulley assy towards the clutch (2) by hand. Install V-belt and then install to the drive shaft. Wipe cleanly the grease on belt surface and the pulley surface.
- N. Install the clutch housing (3).
- O. Screw the nut (4) of clutch housing with tool to stop turning or use pneumatic wrench.

Sew Torque: 400~600 kg-m

Special Tool: GA5000051F04

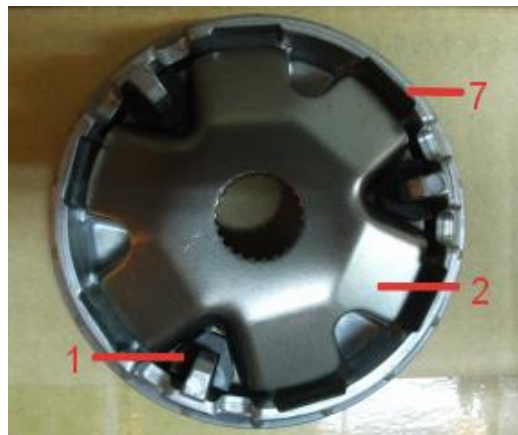


13. Assembly of Drive Pulley Assy

- A. Apply about 3 ~ 4g of grease (GA50400008) to the roller groove of drive pulley and then install the roller assy into the groove.
Not apply grease at new.



- B. Inlay the guide block (1) into the movable drive plate(2) and then install the movable drive plate(2) into the movable drive face comp(7) .

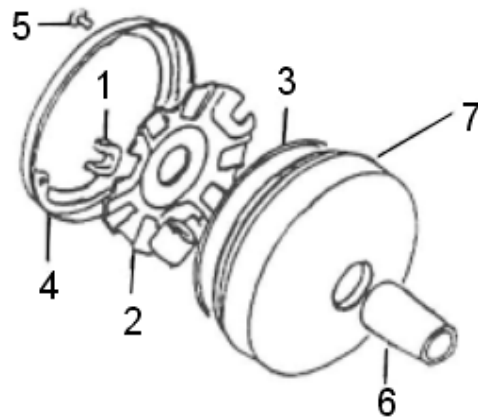


- C. Install the O-ring (3) and the the cover (4).

- D. Tighten the screw (5)

◎Press the movable drive plate all the time while installing, or the roller will turn to stand up and requiring re-adjustment .

- E. Apply a thin layer of grease (GA50400008) to the hole of movable drive face comp and then inserted by the spacer(6).



F. Clean the grease on the surface of drive pulley and then install into the left hand crankshaft.

⊙ Press the movable drive plate with fingers all the time while installing, or the roller will stand up.

G. Install the fixed drive face (1).

H. Tighten the right hand starter (2).

Screw Torque: 400~600 kg-cm

* WARNING *

Special deep socket sleeve should be adopted while screwing.

* WARNING *

This component is left hand threaded, thus turning counterclockwise to screw will be necessary when assemble. Use general sleeve or trying too hard to tighten will cause damage to the thread of left hand crank shaft which will cause to the replacement of crank shaft assy.

Special Tool: GA5000051F35

I. Install the left hand starter (3).

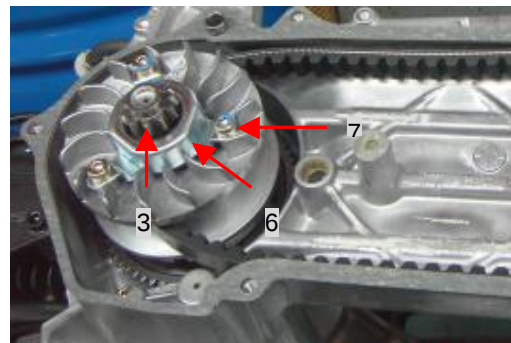
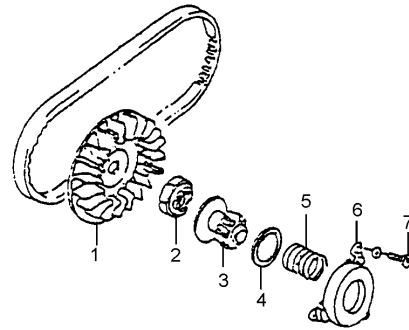
J. Install the washer (4) .

K. Install the spring (5).

L. Install the spring holder (6).

M. Tighten the screw (7).

N. Rotate the fixed drive face lightly to ensure a smooth joint for V-belt.



14. Assembly Kick starter Lever Assy.

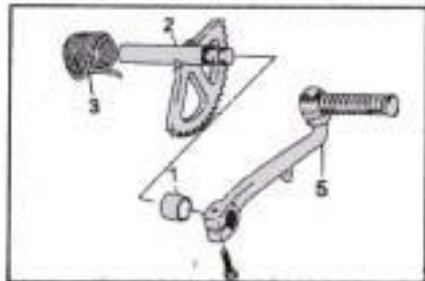
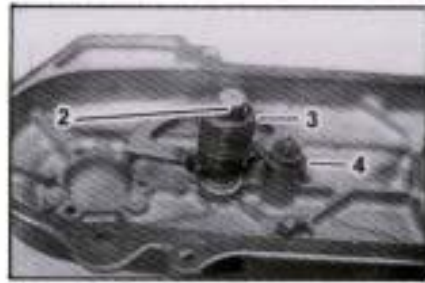
- A. Apply a layer of grease (GA50400005) inside the bush (1) and then press into the clutch cover.
- B. Apply a thin layer of grease (GA50400005) to the kick-starter shaft (2) and then install the spring (3).
- C. Hook the claw of spring to the hook (4) of clutch cover.
- D. Install two knock-pins.
- E. Install gasket and washer of clutch cover.
 - ⊙ The gasket and washer are made into two sizes: 0.5mm and 1.5mm thick-Choose according to the original thickness.
- F. Install the clutch cover and screw the mounting screw by diagonal step.
- G. Install the kick-starter lever (5) and screw the bolt.

Screw Torque: 80~120 kg-cm

- ⊙ The kick starter lever and the horizontal line of clutch cover should form an angle of 15 degrees downward.

15. Assembly of Muffler

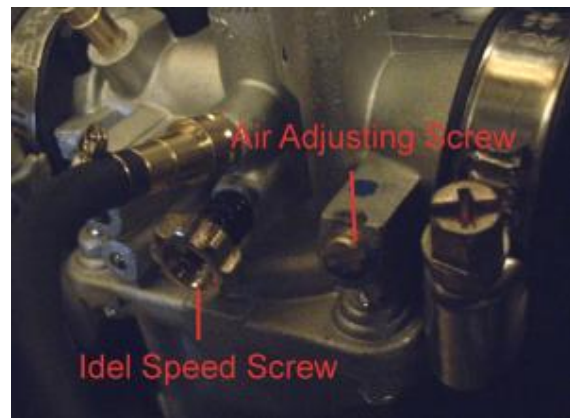
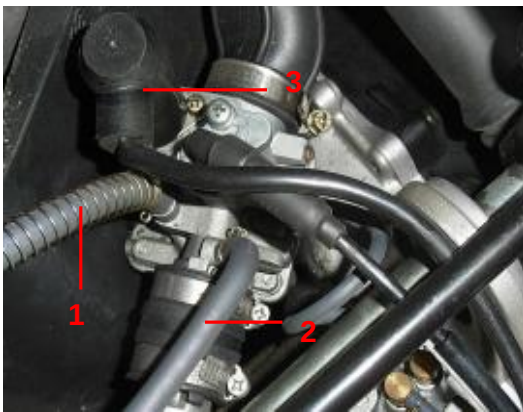
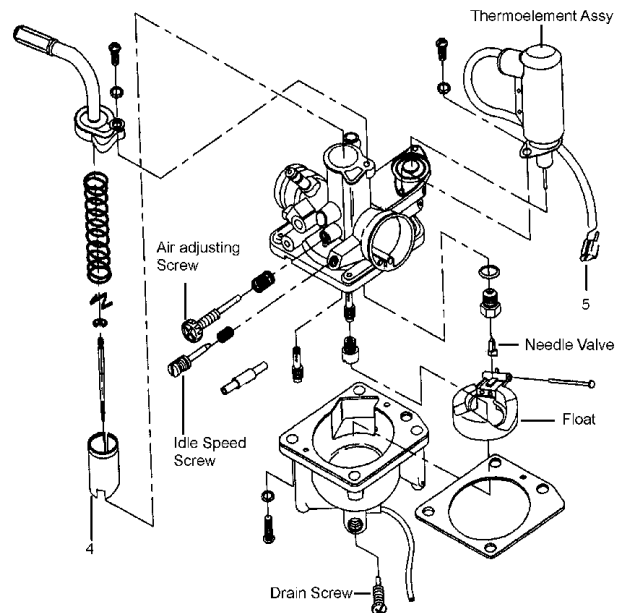
- A. Install the muffler (6), Put on the bolt (8) and nut first.
- B. Screw the bracket bolt (7) of Exhaust pipe.
Screw Torque: 180~280 kg-cm
- C. Tighten the bolt (8) and nut of muffler.
Screw Torque: 80~120 kg-cm



4-4. REMOVAL AND ASSEMBLY OF CARBURETOR :

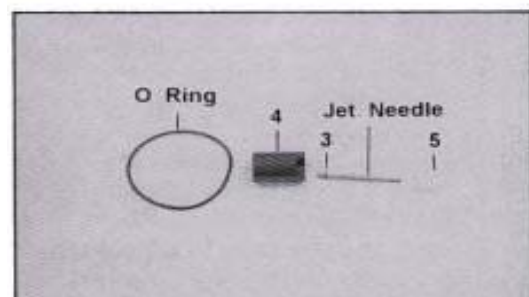
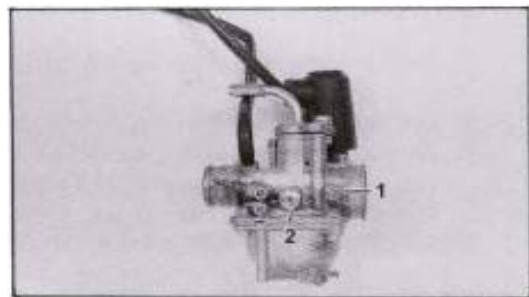
Removal of Carburetor :

1. Removal of Carburetor:
 - A. Remove the right hand side cover.
 - B. Remove the air cleaner.
 - C. Remove the fuel-hose (1).
 - D. Remove the negative pressure hose (2).
 - E. Remove the carburetor cap (3) and piston Valve (4).
 - F. Remove the auto-choke terminal (5).
 - G. Remove the carburetor.



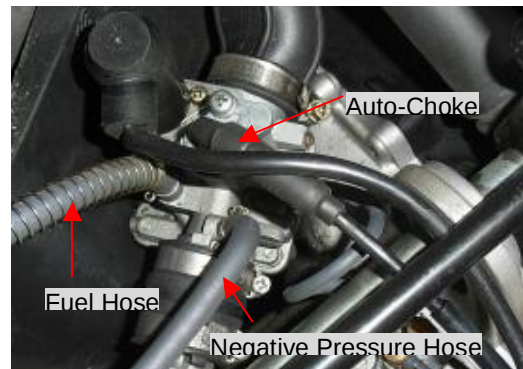
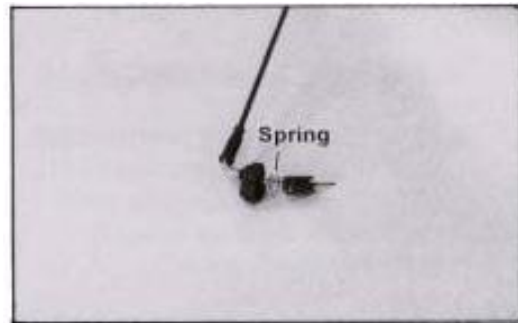
Inspection and Assembly of Carburetor

2. Inspection of Carburetor:
 - A. Inspect and clean the jets and airway of the carburetor.
Cleaning by compressed air.
 - B. Check if the float operates normally to its position.
 - C. It is forbidden to use metal to remove dirt appearing on the surface, or it will cause damage to the surface. Blow the dirt off by compressed air.
Replace it if necessary.
 - D. Idle Setting With An Air-Adjusting Screw
Check that the throttle cable has about 1mm free play when the position valve (4) is fully



closed. Always adjust the idle setting with the engine fully warm.

Screw in the idle-speed screw (2) to obtain a slightly higher idling speed than normal; then adjust the air-adjusting screw (1) to obtain the most even running. Then unscrew the idle-speed screw again until you obtain the normal idling speed. Finally, to obtain the best engine running, it is worth rechecking by very carefully readjusting the air-adjusting screw.



4-5 INSPECTION OF ELECTRIC ITEMS

Notice for Inspection and Arrangement of Electric Components:

- A. Use pocket tester for inspection and testing of electric parts.
- B. The battery for Testing should be of full charging.
- C. The setting of the position of Tester Range has to be performed accurately.
- D. The value of electric testing will vary in accordance with the Tester and the temperature, thus it should be an estimate value only.

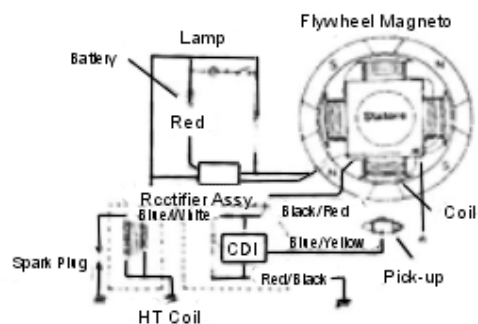
4-5-1 Removal and Inspection of Ignition and Charging System

1. Ignition and Charging Circuit:

A. Figure 1 Circuit Description:

With regard to the generation of the flywheel magneto:

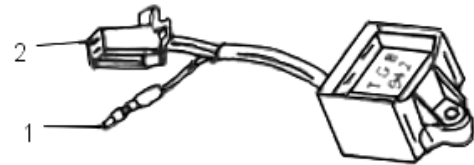
- a. CDI and HT coil (ignition coil) are adopted to control the ignition and angle for high voltage parts:
- b. Regulating rectifier is adopted to supply and control lamp and charging voltage for low voltage parts.



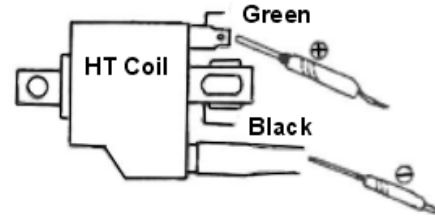
B. Inspection of Ignition Coil and C.D.I.:

- a. C.D.I.(CAPACITOR DISCHARGE IGNITION)

bullet type terminal(1) is for Flywheel Magneto's input, red/black Wire is for ground and white/blue Wire is for output at terminal(2).



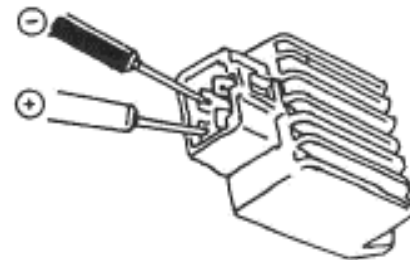
- b. Ignition angle's standard is 15° /4000 RPM
Ignition coil (Fig. 3) testing range X 1 K Ω
Use electric tester to check resistance value (Fig.3), must fit to " 8K Ω $\pm$ 10%"



C. Inspection of Rectifier

- a. Testing Range - X 1 K Ω
b. Terminals shall not connect with the rectifier surface.
c. Check the electric resistance value between each wire.

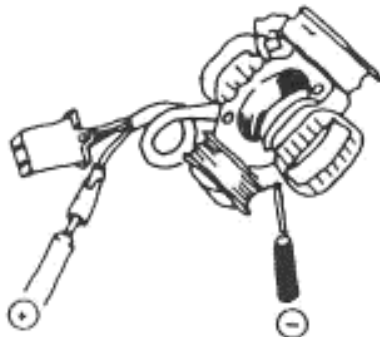
Electric Resistance of Rectifier				
Red	White/Black	Yellow/White	Red	Black/White
White/Red	∞	∞	∞	∞
Yellow/White	∞	∞	∞	5~100K
Red	∞	∞	∞	
Black/White	∞	5~100K	∞	



D. Inspection of Coil Assy.

- a. Test the electric resistance value between each wire.
b. Testing Range - X 1 K

Electric Resistance of Coil Assy			
Tester Connect to Wire		Electric Resistance	
Red $\oplus$	Black $\ominus$		
Yellow/White	Ground	Lamp	0.76 Ω $\pm$ 20%
White/Red	Ground	Charge	0.97 Ω $\pm$ 20%
Black/Red	Ground	High Voltage	224 Ω $\pm$ 20%



E. Inspection of Charging Voltage

- a. Connect the voltmeter to the "+" and "-" terminals of battery.
- b. Range: DC V
- c. Keep wheel away from the ground while testing.
- d. Testing Methods & Conditions:
 - *Run the engine to 5000rpm.
 - * Test the voltage value when the high beam of headlamp is on.
 - * Test the voltage value when the high beam of headlamp is off.
 - * Charging Voltage: 13~15V



F. Inspection of Spark Plug

- a. Remove the spark plug cap (Figure 2)
- b. Remove the spark plug.
- c. Check for any dirt and damage of electrode with eyes.
- d. Clean with special tool or wire brush if it is dirty.
- e. Replace spark plug if complete recovery is impossible.

G. Inspection of Spark Plug

- a. The gap between electrode and ground electrode should be correctly adjusted and kept between 0.6~0.7mm (For 50C.C.)
0.9~1.0mm (For 90C.C.)
- b. Models of Applicable Spark Plug:

50C.C. NGK BP6HS / BPR6HS

90C.C. BP7HS-10 / BPR7HS-10



4-5-2 Removal and Inspection of Starter Mechanism

A. Circuit of Starter Mechanism:

a. Circuit Description:

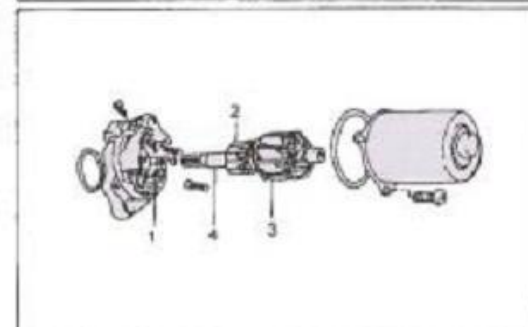
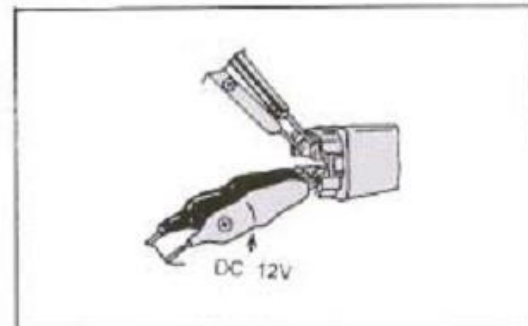
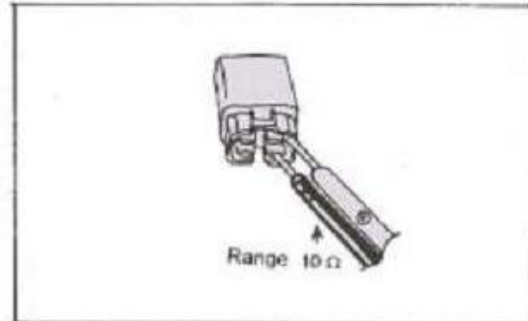
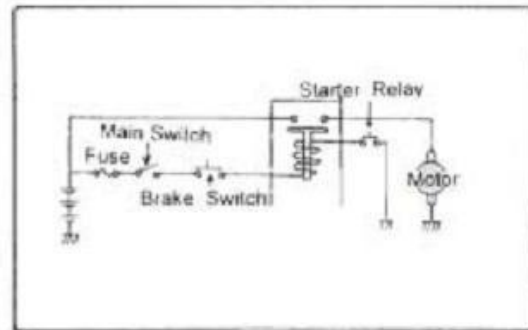
Ignition Switch ON Brake Switch ON
Starter Relay Starter Switch ON
Starter Motor started.

B. Inspection of Starter Relay:

- Test the Ohmic value between each terminal of the coil. (see Figure 2)
 - Set up the range as $\times 10\Omega$.
 - The value of electric resistance of the starter relay must be 5070, replace when value out of this range.
- C. Connect the coil end with 12V Power supply (as Figure 2), a beep sound means they are connected.

D. Inspection of Starter Motor:

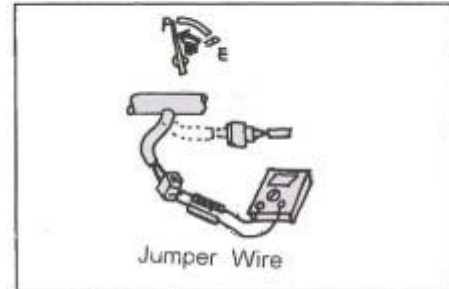
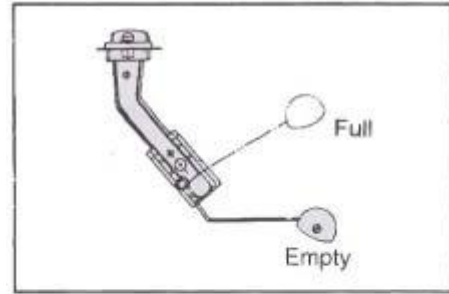
- Inspect weariness and roughness of contact surface on carbon brush (1).
- Inspect the surface weariness and burning of the commutator (2).
- Measure the outside diameter of the commutator (2).
- The commutator and the armature core (3) or shaft (4) should not be passed through between.
- Each segment and the commutator should be passed through.
- The standard length of carbon brush should be 5.5mm. Replace if it is under 3.0mm.
- The standard outside diameter of commutator should be 16mm. Replace if it is under 15.5mm.



4-5-3 Removal and Inspection of Fuel Meter and Fuel Level Gage

A. Inspection of Fuel Meter:

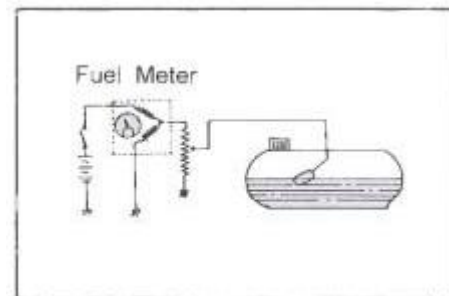
To perform this Testing, lift the seat and remove the right hand frame cover, then disconnect the B/W and Y/B lead connects of the fuel gauge-sending unit. Connect a jumper wire between B/W and Y/B wires coming from the main wiring harness. With the ignition switch turned ON, the fuel meter should indicate "F".



B. Inspection of Fuel Level Gauge:

The relation between the position of the fuel gauge float and resistance is shown in the following table.

Float Position	Resistance
Float on Top (Full)	Approx 10
Float at Bottom (Empty)	Approx 90

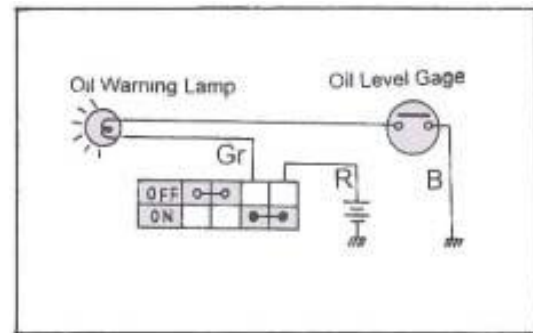


4-5-4 Removal and Inspection of Turn-Signal Indicator, Oil Warning Indicator and Level Gage

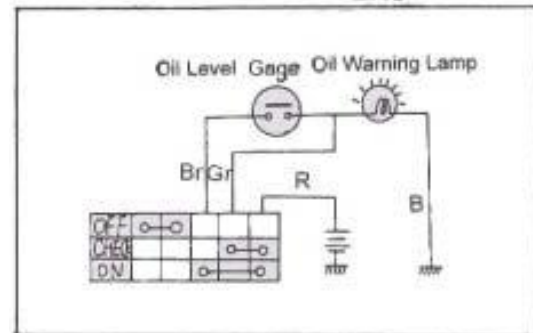
A. Circuit of Signal Light: Ignition Switch ON
Turn Signal Relay ON
Turn Signal Switch ON
Turn Signal Indicator ON.

B. Inspection of Oil Warning Lamp:

- When the ignition switch is at the position of "※" between "on" and "off", the oil warning indicator must be lit.
- When the "start" button is pressed, the oil warning indicator must be lit also.
- The indicator must be lit when the gray and brown wires are connected ;
Disengage the connector of oil level gage (Figure), The indicator must be off.

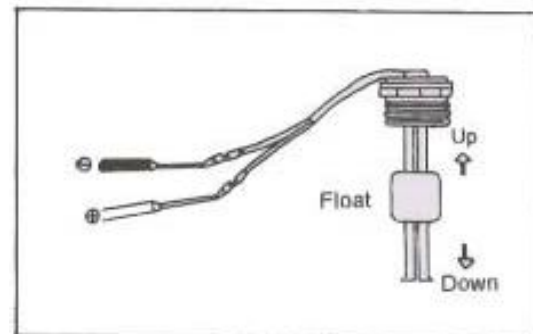


FOR THE OTHERS



C. Inspection of Oil Level Gage:

- When the float of the oil level gage lower down, it is with passing through.
- When the float of the oil level gage rises up, it is without passing through.



4-6. REMOVAL AND INSPECTION OF BODY PARTS

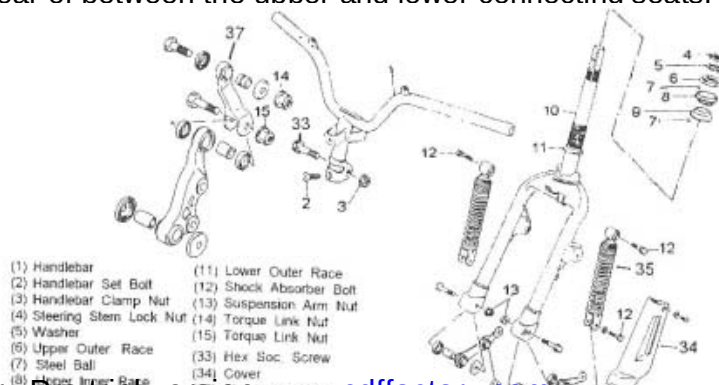
Removal and Inspection of Front Fork

4-6-1 Removal of Front Fork

- A. Remove front-leg shield.
- B. Remove the front cover of handle.
- C. Remove the speedometer cable.
- D. Remove the brake hose (19).
- E. Remove the brake caliper (32).
- F. Remove the wheel.
- G. Remove the flange bolt (2) and hexagon socket screw (33) of handle.
- H. Release the bearing locknut (4) with a tool. Special Tool: GA5000070F01
- I. Remove the upper steering race (outer)(6).
- J. Remove the steel ball (7) of front fork mounting tube.
- K. Remove the front fork cover (34).
- L. Remove the front shock absorber (35).
- M. Remove the brake con-rod.
- N. Remove the bracket of brake lining.
- O. Remove the lower steering race (inner)(9) and upper steering race (inner)(8).
- P. Knock out the lower steering race (11) by a round bar with sharp angle.

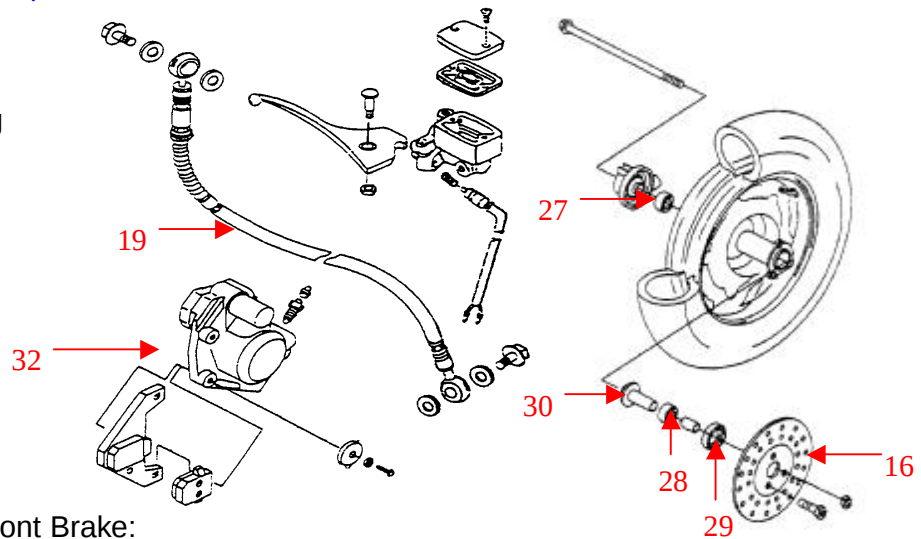
4-6-2 Inspection of Front Fork:

- A. Check for any unusual wear of the sliding spacer.
- B. Check for any damage and wear to the oil seal of shield cover.
- C. Check for any unusual wear of front fork arms.
- D. Check for any unusual wear of brake con-rod bush.
- E. Check for any unusual wear of spacer.
- F. Check for any damage to the oil seal lip of cover and if the grease inside is dried up or lost.
- G. Check for any unusual wear of the spacer of brake lining bracket.
- H. Check for any unusual wear of the steering race.
- I. Check if the shock absorber spring is decayed or leaking oil and check for any unusual wear of between the upper and lower connecting seats.



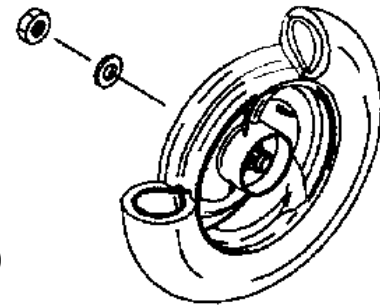
4-6-3 Removal and Inspection of Brake

- (16) Brake Disk
- (19) Brake Hose
- (27) Right Bearing
- (28) Left Bearing
- (29) Oil Seal
- (30) Collar Set
- (32) Caliper



1. Disassembly of Front Brake:

- A. Remove the hose assy of brake (19), brake caliper(32), speedometer cable , and brake disk(16).
- B. Remove the brake disk (16).
- C. Remove the oil seal (29).
- D. Remove the collar set(30).
- E. Remove the right hand bearing (27). F. Remove the left hand bearing (28).



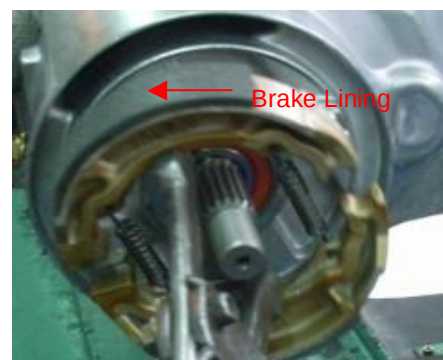
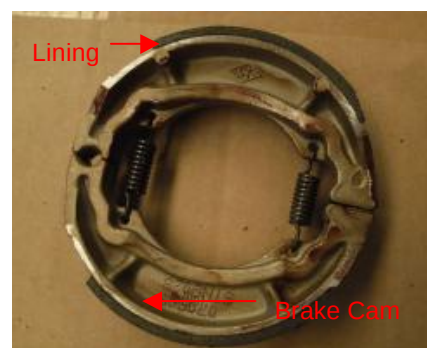
2. Inspection of Brake Parts:(FOR Front and Rear Brake)

- A. Inspection of Brake Drum:
 - a. Testing the inner diameter of brake.
 - b. Check for any unusual wear mark on the drum.

Inner Diameter of Brake Drum (mm)			
Standard	110	Limit	Replaced over 110.7

B. Inspection of Brake Lining :

- a. Measure the outside diameter perpendicular to the brake cam and anchor-pin on the brake lining.
- ☉Confirm if the assembly of the brake lining is correct and if the brake cam completely returns to the original place.
- b. Check for any crack or damage on each part.
- c. Check for any grease stain on the lining.



Dimension of Brake Lining (mm)			
Standard	109.2	Limit	Replaced over 106

C. Inspection of the Return Spring of Brake Lining:

- Testing the free length of the spring with a vernier caliper.
- Check for any wear and crack on the spring.

Free Length of the Return Spring of Brake Lining (mm)			
Standard	32.6-33.0	Limit	Exchanged over 35.0

D. Inspection of the Brake Cam:

- Check for any rust or unusual wear on the brake cam.
- Make sure the brake cam runs smoothly.
- Make sure to apply sufficient grease to the brake cam and lining anchor-pin.

E. Inspection of Front Brake:

- Check the gap between the ends of front brake lever.

Gap of Front Brake Lever 20 ~ 30 mm

- Add brake oil.
- Check the brake lining.

F. Inspection of Rear Brake:

- Check the gap between the ends of rear brake lever.
- Move the adjusting nut of brake cable clockwise to proper gap.

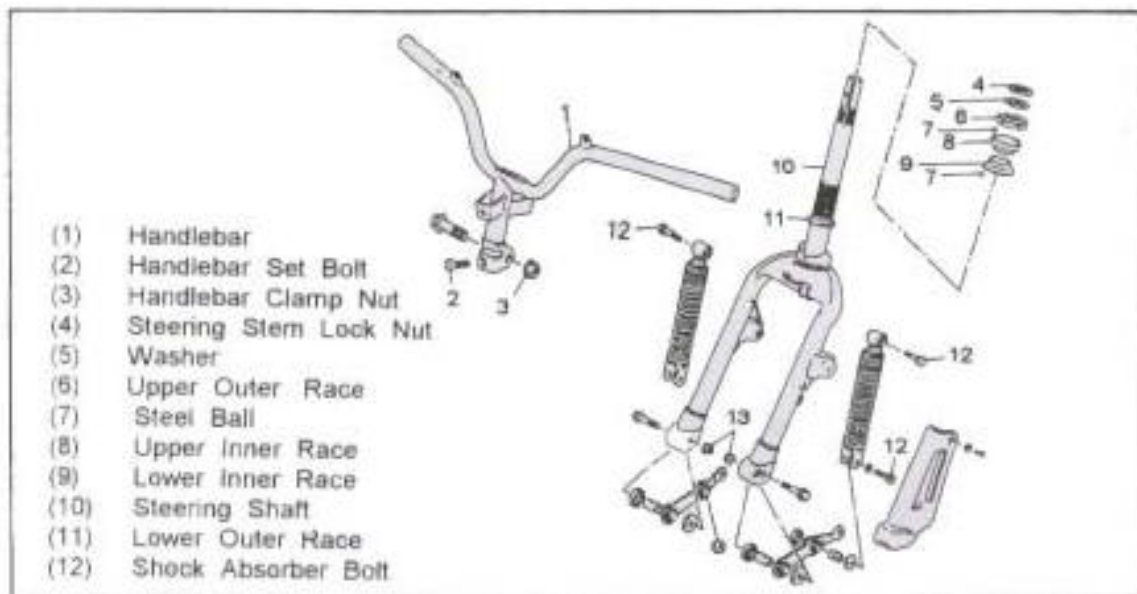
Gap of Rear Brake Lever 15~35 mm



4-6. Disassembly and Inspection of Body Parts Assembly of Front Brake and Wheel

4-6-4 Assembly of Front Brake and Front Wheel:

- A. Tighten the disc brake (1).
- B. Install the gear assy of speedometer (2) on the right hand side.
- C. Install the wheel (3).
- D. Screw the front axle nut (4).
- Screw Torque: 330 520 kg-cm
- E. Tighten the front suspension arm (5).
- Screw Torque: 180 300 kg-cm
- F. Tighten the brake caliper (6).
- G. Tighten the cover of front fork (7).



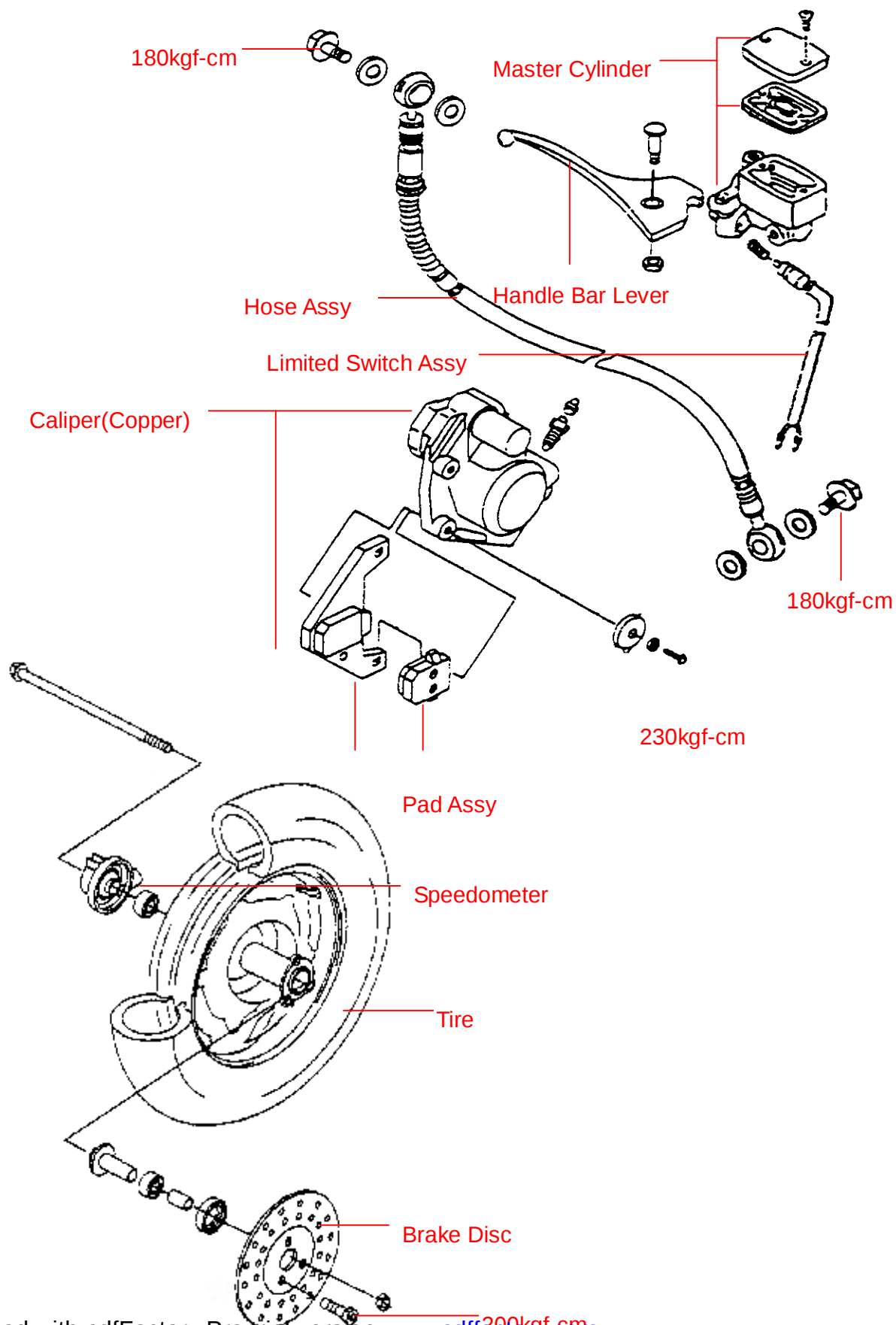
4-6 Disassembly and Inspection of Body Parts

4-6-5 Inspection of Steering Mechanism

- A. Lift the front wheel to inspect.
- B. Grasp the front end of the front fork and move to and from to see if any part is loose.
- C. Turn the handle bar to left and right to see if it moves smoothly.
- D. If the handle bar is too heavy or loose, adjust the upper steering race (outer).
- E. Remove the front fender before making adjustment.
- F. Release the bearing locknut (4) of upper steering race (outer). Move the upper steering race (outer) to make adjustment.
- G. The bearing locknut should be loosened or screwed with universal vice.
- Screw Torque: 600~1000 kg-cm
- ◎If the upper steering race (outer) still does not move smoothly after the adjustment,

it is possible that the race and steel ball are damaged or lack of grease. Disassemble to inspect.

4-7 BH1-F Built-in braking system:





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Adding of braking fluid:

- Stand the scooter at its main rest on a leveled floor.
- Turn open the fuel tank cap and add in designated braking fluid to the maximum.

Warning: 1) Add in designated braking fluid, a different fluid would cause hazardous chemical reaction, leading to failure in braking.
2) Keep water off the fluid cup or the boiling point would drop to produce air block, leading to failure in braking.
3) In case of spill of braking fluid to plastic parts, wipe it off with a rag for aestheticism.

B. Checking and adjustment of free braking gaps.

Note: front brake free gap of 10 ~ 20 mm

Adjustment of braking gap

<Remove>: • Front windshield
• Turn lose the securing nuts, tighten the screws.

Remark : 1) Turn it clockwise to enlarge the gap.
2) Turn it counterclockwise to reduce the gap.
3) Keep the free gap at between 10 ~ 20 mm and tighten the nut.

