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HYOSUNG MOTORS & MACHINERY INC.

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SERVICE MANUAL

SERVICE MANUAL

99000-91201

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2-3 PERIODIC MAINTENANCE AND TUNE-UP PROCEDURES

CYLINDER HEAD NUT AND EXHAUST PIPE BOLTS

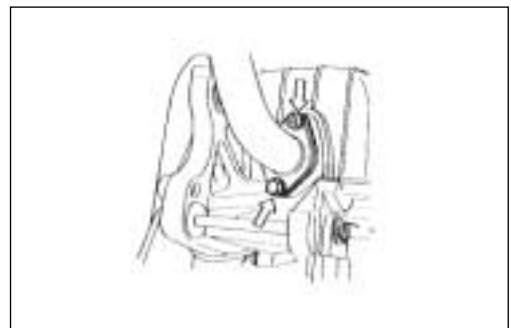
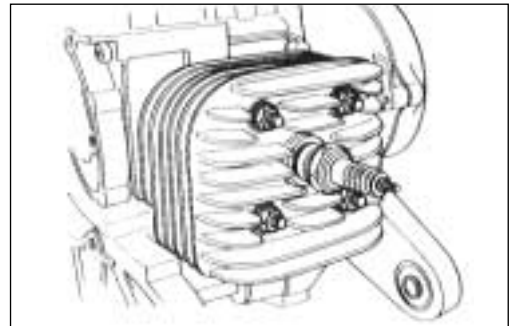
Tighten at Initially 1000km (600miles, 2months), and Every 4000km (2400miles, 6months) thereafter

Cylinder head nuts, when they are not tightened to the specified torque, may result in leakage of the compressed mixture and reduce output. Tighten the cylinder head nuts in the following procedure.

- Remove the frame side cover.(Refer to page 6-3)
- Remove the spark plug cap.
- Remove the cylinder head cover bolts.
(Refer to page 3-5)
- Tighten the nuts evenly one by one in stages until each one is tightened to the specified torque. Tighten the nuts in the order indicated.

Tightening torque

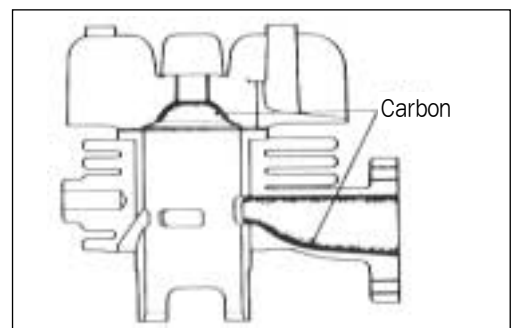
Cylinder head nut	8-12 N · m (0.8-1.2 kg-m, 6.0-8.5 lb-ft)
Exhaust pipe nut	8-12 N · m (0.8-1.2 kg-m, 6.0-8.5 lb-ft)



CYLINDER HEAD AND CYLINDER

Remove carbon Every 8000km (4800miles, 12months)

Carbon deposits in the combustion chamber and the cylinder head will raise the compression ratio and may cause preignition or overheating. Carbon deposited at the exhaust port of the cylinder will prevent the flow of exhaust gases, reducing the output. Remove carbon deposits periodically.



2-13 PERIODIC MAINTENANCE AND TUNE-UP PROCEDURES

GENERAL LUBRICATIONS

Proper lubrication is important for smooth operation and long life of each working part of the motorcycle. The major lubrication points are indicated below.

NOTE:

* Lubricate exposed parts which are subject to rust with motor oil grease.

* Before lubricating each part, clean off any rusty spots and wipe off any grease, oil dirt or grime.

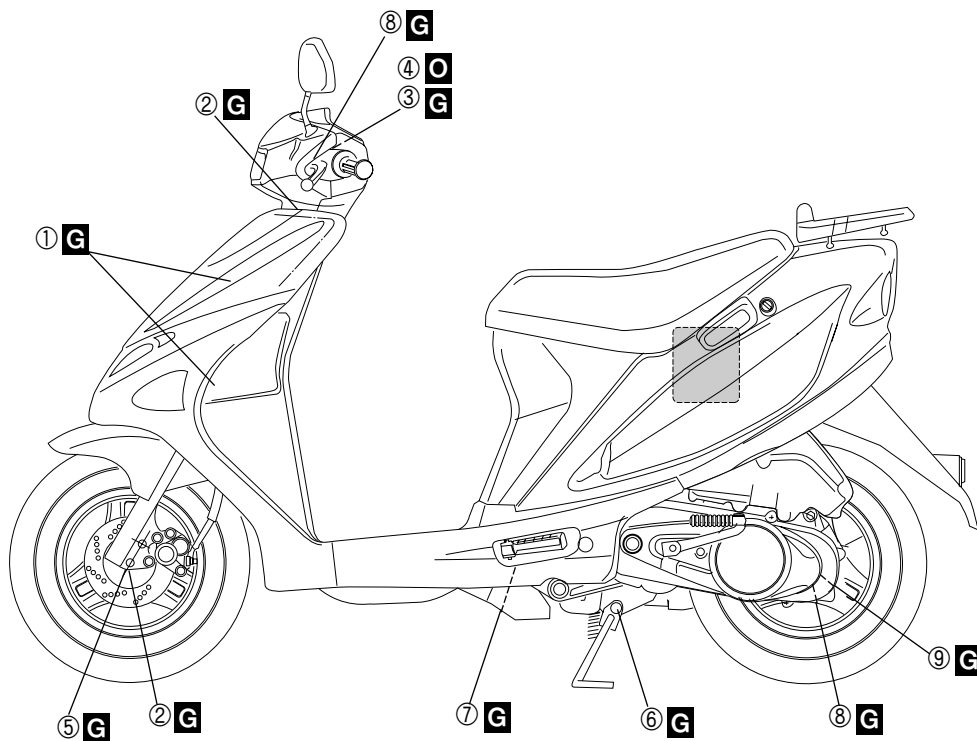
WARNING:

Be careful not to apply too much grease to the rear brake camshaft. If grease gets on the linings, brake slippage will result.

- ① Steering stem bearing
- ② Speedometer cable and drive gear box
- ③ Throttle grip
- ④ Throttle cable
- ⑤ Wheel bearing
- ⑥ Center stand
- ⑦ Engine mounting bracket pivoting portion
- ⑧ Rear brake lever and cable
- ⑨ Rear brake camshaft

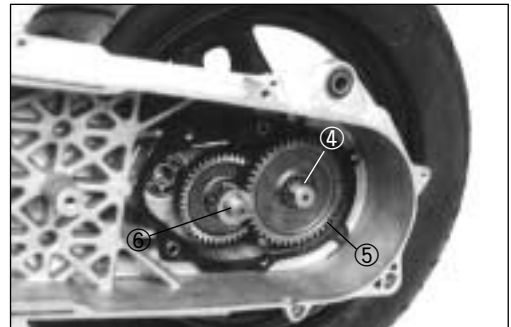
G: Grease

O: Oil



3-9 ENGINE

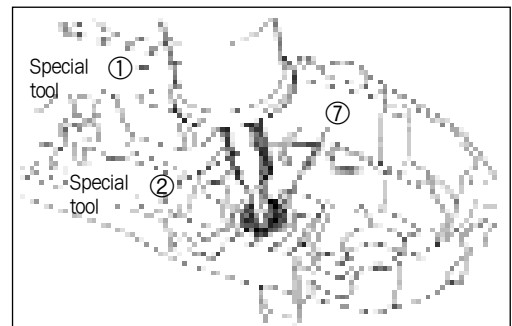
- Remove the circlip ④ and final driven gear ⑤.
- Remove the idle shaft ⑥.



- Remove the drive shaft bearing ⑦.

09930-30102	Sliding shaft
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09921-20210	Bearing remover
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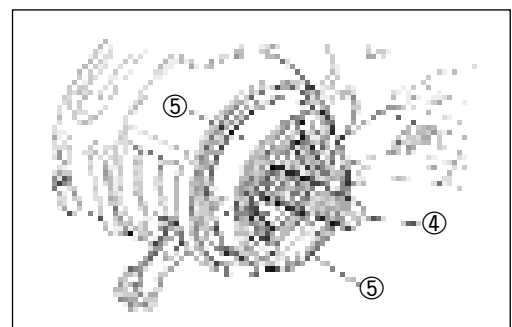


WHEEL, BRAKE

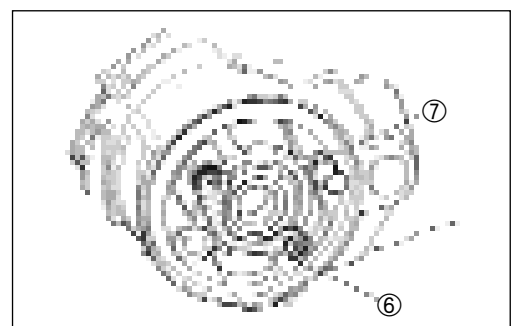
- Remove the rear axle nut ① and washer ②.
- Remove the rear wheel ③.



- Remove the brake shoes ⑤ and rear axle shaft ④.



- Remove the bearing retainer ⑥.



3-19 ENGINE

PISTON RINGS

Check each ring for end gap, reading the gap with a thickness gauge shown in the illustration. If the end gap is found to exceed the limit, indicated below, replace it with a new one.

The end gap of each ring is to be measured with the ring fitted squarely into the cylinder bore and held at the least worn part near the cylinder bottom, as shown in the illustration.

09900-20803	Thickness gauge
Service limit	0.75 mm(0.030 in)

As the piston ring wears, its end gap increases reducing engine power output because of the resultant blow by through the enlarged gap. Here lies the importance of using piston rings with end gaps within the limit.

Measure the piston ring free end gap to check the spring tension.

Service Limit	1st	3.7 mm(0.15 in)
	2nd	3.5 mm(0.14 in)

Fix the piston ring in the piston ring groove, measure the ring side clearance with the thickness gauge while matching the sliding surfaces of piston and ring.

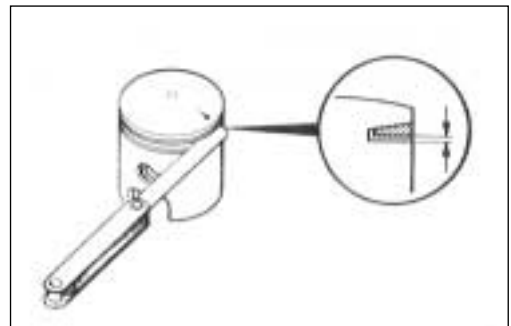
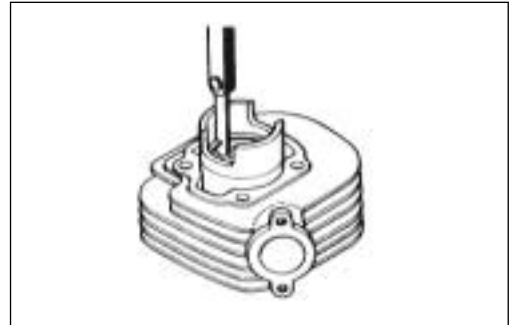
STD clearance	0.020-0.060 mm (0.0008-0.0024 in)
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REED VALVE

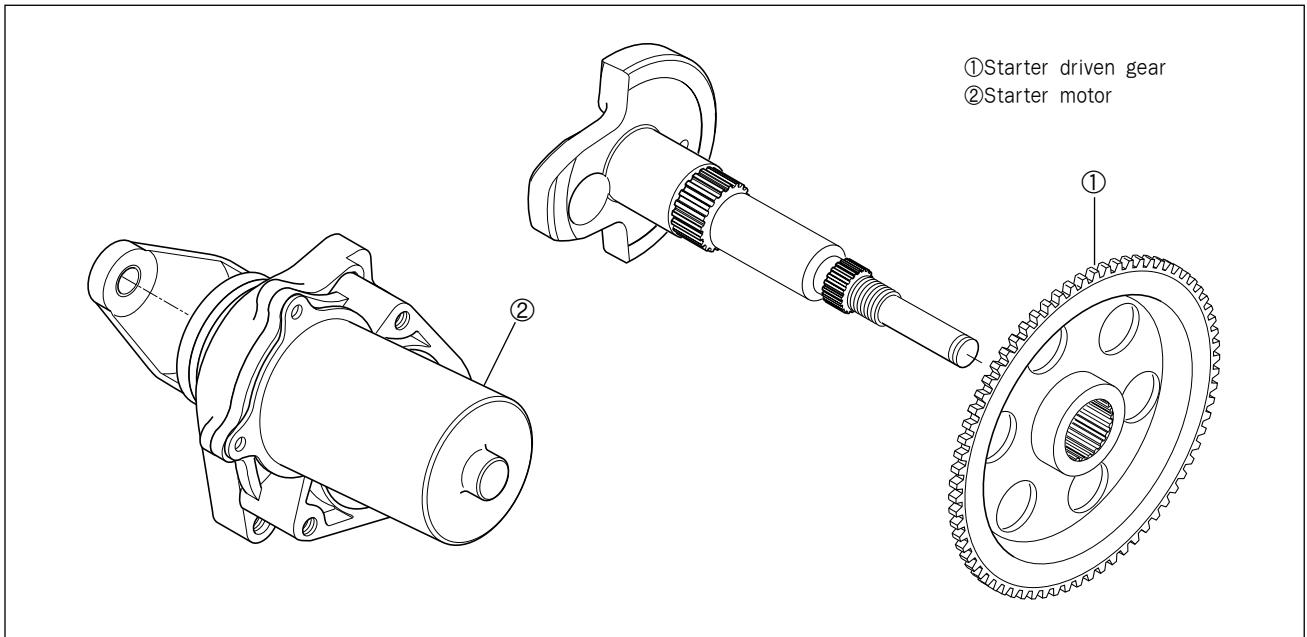
When reinstalling the reed valve and stopper plate to the body, align the both cut on the reed valve and stopper plate.

Apply Thread Lock "1324" to the stopper plate securing screws.

99000-32030	Thread Lock "1324"
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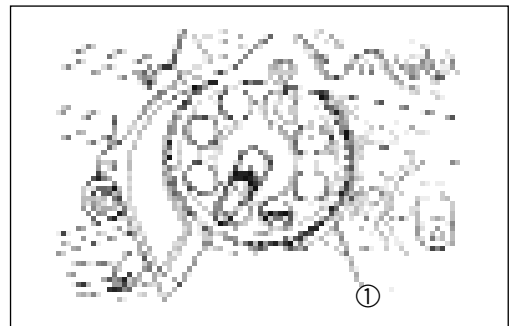
STARTER DRIVEN GEAR AND STARTER MOTOR



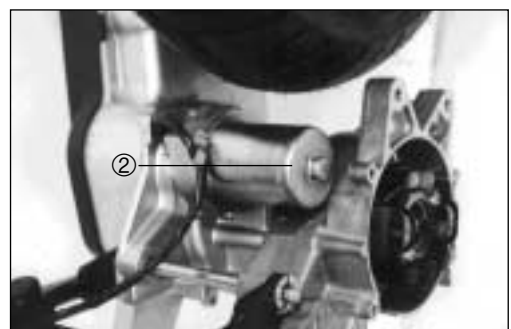
- Install the starter driven gear ① over the left crankshaft end.

NOTE:

The convex side of hub should face outside when installed in proper position.



- Install the starter motor ②.



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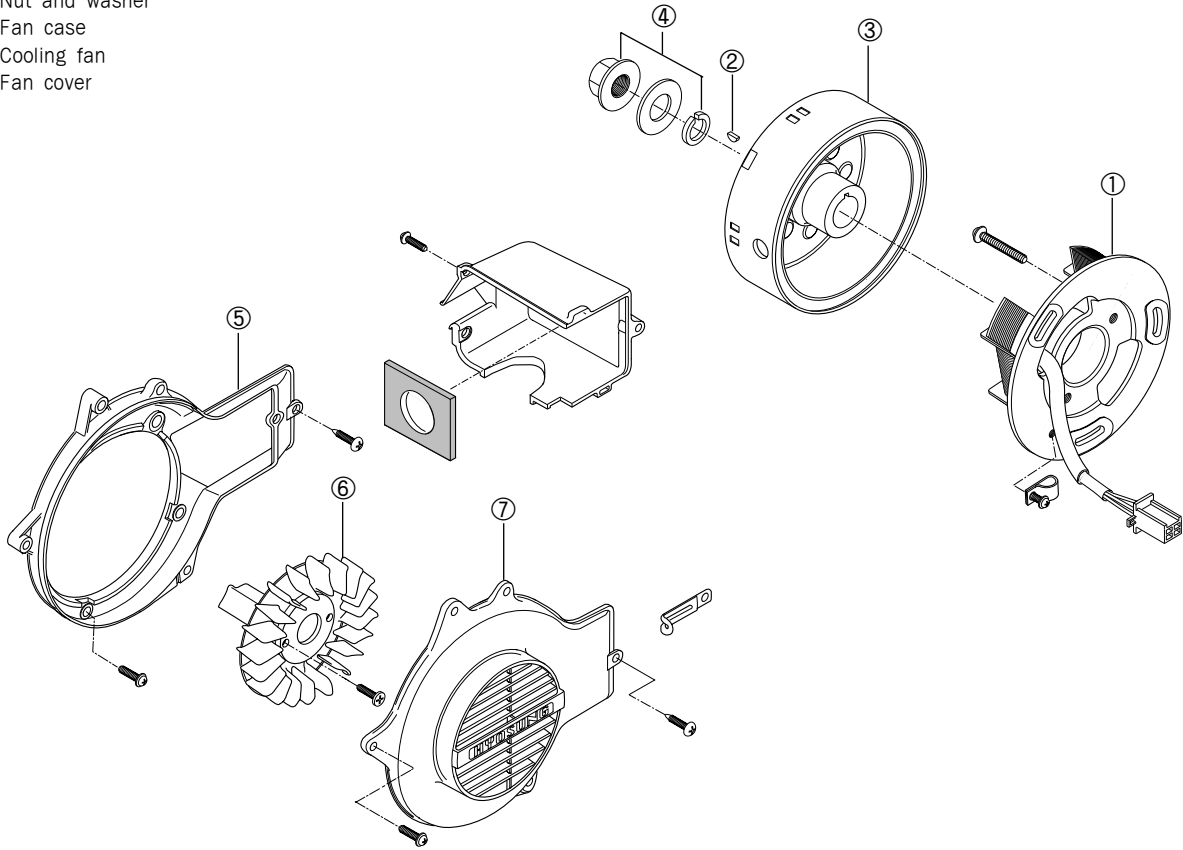
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3-39 ENGINE

MAGNETO

- ① Stator
- ② Key
- ③ Magneto rotor
- ④ Nut and washer
- ⑤ Fan case
- ⑥ Cooling fan
- ⑦ Fan cover



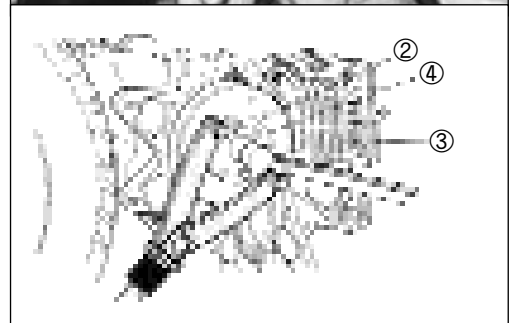
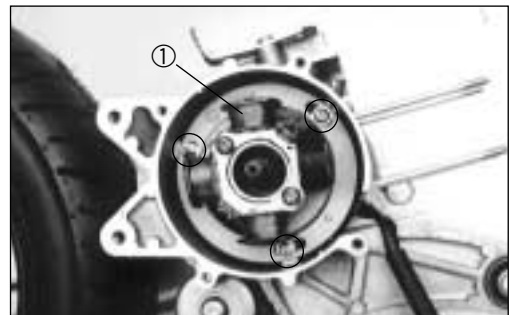
- Degrease the tapered portion of the crankshaft and also the magneto rotor.
- Install the stator ①.
- Install the key ②.
- Install the rotor ③.

- Apply THREAD LOCK "1324" to the rotor nut ④ and tighten it to the specified torque with the special tool.

99000-32030	THREAD LOCK "1324"
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09930-40113	Rotor holder
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Tightening torque	35-45 N · m (3.5-4.5 kg-m, 25.5-31.0 lb-ft)
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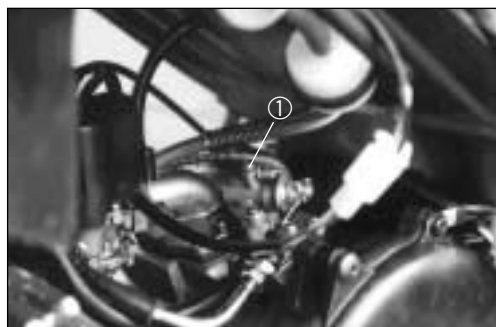


OIL PUMP

AIR BLEEDING

Whenever evidence is noted of some air having leaked into the oil pipe from the oil tank in a machine brought in for servicing, or if the oil pump has to be removed for servicing, be sure to carry out an air bleeding operating with the oil pump in place before returning the machine to the user.

To bleed air, hold the machine in standstill condition. Loosen the screw ① to let out air and after making sure that the trapped air has all been bled, tighten the screw good and hare.



CHECKING OIL PUMP

Use the special tool, to check the pump for capacity by measuring the amount of oil the pump draws during the specified interval.

- Remove the left side cover.
- Have the tool filled with HYOSUNG HYPOL OIL and connect it to the suction side of the pump.
- Run the engine at 3000 r/min.
- Holding engine speed at the same 3000 r/min., let the pump draw for 5 minutes. For this operation, the reading taken on the device should be 0.9~1.1 ml.



09900-21602	CCI oil gauge
Oil discharge amount	0.9-1.1 ml at 3000 r/min. for 5 minutes.

CAUTION:

During this inspection, strictly follow the following points.

- * **The machine should be rested on the center stand.**
- * **Do not touch the rear wheel while running the engine.**

5-9 ELECTRICAL SYSTEM

SWITCHES

Inspect each switch for continuity with the pocket tester referring to the chart. If it is found any abnormality, replace the repective switch assembly with new one.

WIRE COLOR

B	.....	Black
G	.....	Green
Gr	.....	Gray
Sb	.....	Light blue
Lg	.....	Light green
O	.....	Orange
R	.....	Red
W	.....	White
Y	.....	Yellow
B/R	.....	Black with Red tracer
B/W	.....	Black with White tracer
W/B	.....	White with Black tracer
Y/W	.....	Yellow with white tracer

LIGHTING SWITCH		
	Gr	YW
ON	○ ——— ○	○ ——— ○
OFF		

STARTER BUTTON		
	BW	YG
ON	○ ——— ○	○ ——— ○
OFF		

FRONT AND REAR BRAKE LIGHT SWITCH		
	O	WB
ON	○ ——— ○	○ ——— ○
OFF		

DIMMER SWITCH			
	W	Y	Gr
LO	○ ——— ○		○ ——— ○
HI		○ ——— ○	○ ——— ○

TURN SIGNAL LIGHT SWITCH			
	Lg	B	Sb
L		○ ——— ○	○ ——— ○
.			
R	○ ——— ○		○ ——— ○

HORN BUTTON		
	BW	G
ON	○ ——— ○	○ ——— ○
OFF		

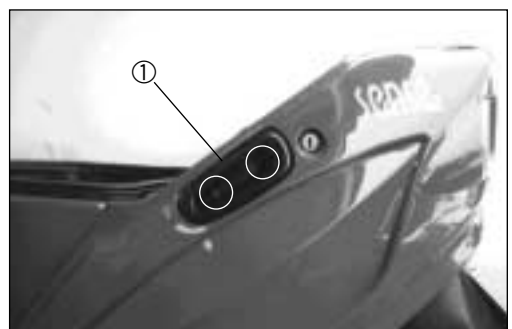
IGNITION SWITCH				
	BW	BR	R	O
LOCK	○ ——— ○	○ ——— ○		
OFF	○ ——— ○	○ ——— ○		
ON			○ ——— ○	○ ——— ○

LEFT SIDE COVER, LEFT SIDE LEG SHIELD

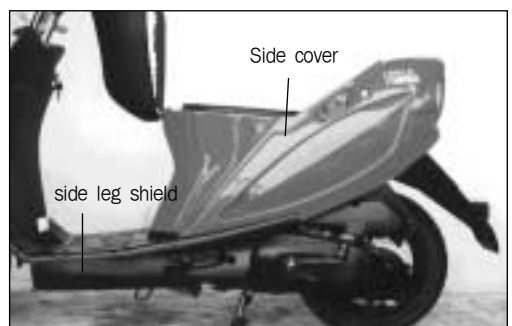
- Loosen the mounting screws.



- Remove the handle grip ① by removing the bolts.



- Remove the left side cover and left side leg shield at the same time.



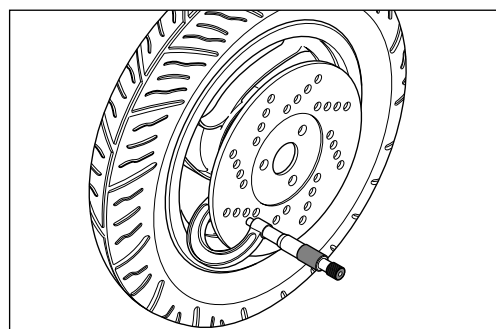
DISC PLATE REMOVAL AND DISASSEMBLY

- Remove the front wheel(Refer to page 6-8)
- Remove the disc plate(Refer to page 6-9)
- Install the disc plate(Refer to page 6-11)

DISC PLATE INSPECTION

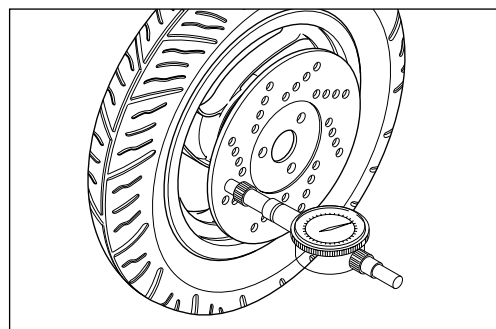
- Check the disc for wear with a micrometer. Its thickness can be checked with disc and wheel in place. Replace the disc if the thickness exceeds the service limit.

Service Limit	3.5 mm(0.14 in)
09900-20205	Micrometer(0-25 mm)



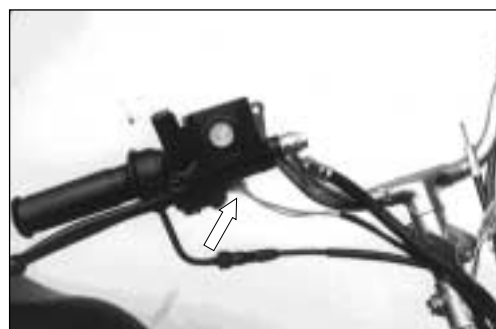
- With the disc mounted on the wheel, check the disc for face runout with a dial gauge as shown. Replace the disc if the runout exceeds the service limit.

Service Limit	0.3 mm(0.012 in)
09900-20606	Dial gauge(1/100 mm)
09900-20701	Magnetic stand

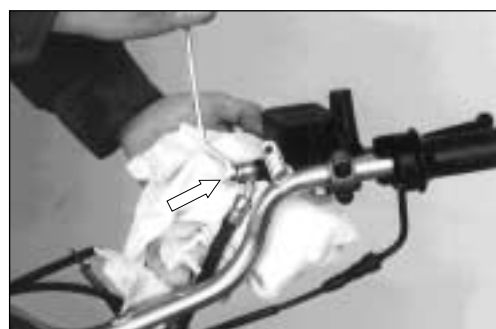


MASTER CYLINDER REMOVAL AND DISASSEMBLY

- Remove the handlebar cover(Refer to page 6-1)
- Disconnect the front brake light switch lead wires.



- Place a cloth underneath the union bolt on the master cylinder to catch spilled drops of brake fluid. Unscrew the union bolt and disconnect the brake hose/master cylinder joint.



CAUTION:

Completely wipe off any brake fluid adhering to any part of motorcycle. The fluid reacts chemically with paint, plastics, rubber materials, etc.

WHEEL

Refer to page 6-10.

TIRE

Refer to page 6-10.

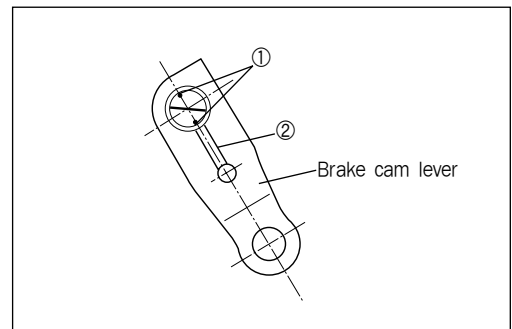
REASSEMBLY AND REMOUNTING

Reassemble and remount the rear wheel and brake in the reverse order of removal, and disassembly.

BRAKE CAM LEVER

- When installing the brake cam lever, align the punched mark ① of camshaft with the slit ② on cam lever.

Tightening torque	6-9 N · m (0.6-0.9 kg · m, 4.5-6.5 lb-ft)
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BRAKE SHOE

- Apply grease to the camshaft and pin before installing the brake shoes.

99000-07C00	Grease "G2"
-------------	-------------

CAUTION:

Be careful not to apply too much grease to the camshaft and pin. If grease gets on the lining, brake effectiveness will be lost.



REAR AXLE NUT

- Tighten the rear axle nut to the specified torque.

Tightening torque	60-90 N · m (6.0-9.0 kg · m, 43.5-65.0 lb-ft)
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