PERIODIC MAINTENANCE

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PERIODIC MAINTENANCE SCHEDULE

The chart below lists the recommended intervals for all the required periodic service work necessary to keep the vehicle operating at peak performance and economy.

More frequent servicing should be performed on vehicles that are used under severe conditions.

PERIODIC MAINTENANCE CHART

• ENGINE

Interval	Initial 1 month	Every 3 months	Every 6 months	page	
Air cleaner element	Clean at least every month			2 - 3	
Cylinder head nuts	Tighten	Tighten		2 - 4	
Cylinder head and cylinder			Remove carbon	2 - 4	
Carburetor	Inspect		Inspect	2 - 6	
Spark plug	Clean	Clean	Replace	2 - 5	
Fuel line	Inspect	Inspect		0.0	
	Replace every 4 years			2-0	
Transmission oil	Inspect		Inspect	2 - 7	
Drive chain	Inspect and lubricate every month 2 - 10			2 - 10	
Sprockets	Inspect Inspect —		6 - 17		

• CHASSIS

Interval Item	Initial 1 month	Every 3 months	Every 6 months	page
Brakes	Inspect	Inspect		2 - 7
Steering	Inspect	Inspect	—	2 - 12
Tire	Inspect every month · Check pressure each time ride. 2 - 2			2 - 11
Chassis bolts and nuts	Tighten Tighten —			2 - 12
General lubrication		Lubricate		2 - 2

LUBRICATION POINTS

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



1 King pin

- 2 Front wheel bearing
- ③ Steering shaft holder
- ④ Rear brake cable
- (5) Rear axle housing
- 6 Drive chain

- Front brake cable
- (8) Throttle cable
- (9) Throttle lever
- 10 Front brake cam shaft

O - Motor oil, G - Grease

NOTE :

- Sefore lubricating each part, clean off any rusty spots and wipe off any grease, oil, dirt or grime.
- Lubricate exposed parts which are subject to rust, with either motor oil or grease whenever the vehicle has been operated under wet or rainy condition.

MAINTENANCE PROCEDURES

AIR CLEANER

NOTE : Clean at least Every month.

If the air cleaner is clogged with dust, intake resistance will increased with a resultant decrease in output and an increase in fuel consumption.

Check and clean the element in the following manner.

- Stand the vehicle in the standing position.
- Remove the four bolts ①.
- Remove the clamp screw 2.
- Remove the air cleaner case 5.
- Remove the element ④ from the cap ③.
- Fill a washing pan of a proper size with nonflammable cleaning solvent. Immerse the element in the cleaning solvent and wash it clean.
- Squeeze the cleaning solvent out of the washed element by pressing it between the palms of both hands : do not twist or wring the element or it will develop tears.
- Immerse the element in HYOSUNG genuine oil and squeeze the oil out of the element leaving it slightly wet with oil.
- Fit the cleaner element to frame properly.

- Before and during the cleaning operation, inspect the element for tears. A torn element must be replaced.
- Be sure to position the element snugly and correctly, so that no incoming air will bypass it. Remember, rapid wear of piston rings and cylinder bore is often caused by a defective or poorly fitted element.

A Non-flammable cleaning solventB 2-stroke engine oil.







CYLINDER HEAD NUTS

NOTE : Tighten Initial 1 month and Every 3 months.

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

First loosen the nuts and tighten the 4 nuts enenly one by one in stages until each one is tightened to the specified torque. Tighten the nuts in the order indicated.

Cylinder head nut : 8~12 N · m (0.8~1.2 kg · m)



CYLINDER HEAD AND CYLINDER

NOTE :

Remove carbon Every 6 months.

Carbon deposits in the combustion chamber and the cylinder head will raise the compression ratio and may cause pre-ignition 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.



SPARK PLUG

NOTE :

Inspect Initial 1 month and Every 3 months, Replace Every 6 months.

Neglecting the spark plug maintenance eventually leads to difficult starting and poor performance. If the spark plug is used for a long period, the electrode gradually burns away and carbon builds up along the inside part. In accordance with the Periodic Inspection Chart, the plug should be removed for inspection, cleaning and to reset the gap.

- Carbon deposits on the spark plug will prevent good sparking and cause misfiring. Clean the deposits off periodically.
- If the center electrode is fairly worn down, the plug should be replaced and the plug gap set to the specified gap using a thickness gauge.

Thickness gauge : 09900-20804



Check spark plug for burnt condition. If abnormal, replace the plug as indicated below.

TYPE	SPARK PLUG SPECIFICATION
Hot type	BPR5HS
Standard type	BPR6HS
Cold type	BPR7HS

Spark plug : 25~30 N · m (2.5~3.0 kg · m)

- To check the spark plug, first make sure that the fuel used is unleaded gasoline, and if plug is either sooty with carbon or burnt white, replace it.
- Confirm the thread size and reach when replacing the plug.





CARBURETOR

NOTE :

Inspect Initial 1 month and Every 6 months.

\odot IDLE SPEED

- Adjust the throttle cable play.
- Warm the engine up.

NOTE :

A warm engine means an engine has been run for 10 minutes.

- Remove the seat and cover.
- Adjust the throttle stop screw ① to obtain the idle speed as follows.

Engine idle speed	1.800 ± 50 rpm
	.,

• Finally adjust the throttle cable play.

• THROTTLE CABLE PLAY

• Loosen the lock nut ② and adjust the cable slack by turning adjuster ③ in or out to obtain the following cable play.

After adjusting play, tighten the lock nut.

Throttle cable slack





FUEL LINE

NOTE : Inspect Initial 1 month and Every 3 months, Replace every 4 years.

Inspect leakage of the fuel line and connection part. If abnormal, replace it.



TRANSMISSION OIL

NOTE :

Inspect Initial 1 month and Every 6 months.

After a long period of use, the transmission oil qualities will deteriorate and quicken the wear of sliding and interlocking surfaces. Replace the transmission oil periodically following the procedure below.

- Start the engine to warm up the oil, this will facilitate draining of oil.
- Unscrew the oil filler cap ① and drain plug②, and drain the oil completely.
- Tighten the drain plug.
- Supply a good quality SAE 10W/40 multi-grade motor oil.

TRANSMISSION OIL CAPACITY		
Change	80 ml	
Overhaul	90 ml	

lacet Check the oil level with the oil level screw $\ensuremath{\mathfrak{I}}$.









BRAKES

NOTE :

Inspect Initial 1 month and Every 6 months.

• FRONT BRAKE

BRAKE ADJUSTMENT

Adjust the free play 4 to 5 ~ 15mm (0.197 ~ 0.591 in) by screwing in or out the front brake adjust nut 5.

Front brake lever play	5 ~ 15 mm
	(0.197 ~ 0.591 in)

BRAKE LINING WEAR LIMIT

This vehicle is equipped with the brake lining wear limit indicator on the front brake. As shown in the illustration at right, at the condition of normal lining wear, an extended line from the index mark on the brake camshaft should be within the range embossed on the brake panel. To check wear of the brake lining, follow the steps below.

- First check if the brake system is properly adjusted.
- While operating the brake, check to see that the extension line from the index mark is within the range on the brake panel.
- If the index mark is outside the range as shown in the illustration at right, the brake shoe assembly should be replaced to ensure safe operation.





• REAR BRAKE

BRAKE ADJUSTMENT

Set the parking brake by squeezing the rear brake lever and then pressing the lock knob ①. Rock the vehicle by pushing to see if the brake is sufficiently holding the wheels locked. Adjust the brake, if necessary, by turning the adjuster ② in or out.

Rear brake lever play ③	(C
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5 ~ 15 mm (0.197 ~ 0.591 in)





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BRAKE PAD WEAR

The extend of brake pad wear can be checked by observing the grooved limit A on the pad. When the wear exceeds the grooved limit, replace the pads with new ones.

A CAUTION

Replace the brake pad as a set, otherwise braking performance will be adversely affected.

REAR BRAKE PAD REPLACEMENT

- Remove the brake caliper.
- Remove the brake pads.
- To reassmble, reverse the above sequence.

Rear brake caliper mounting bolt

: 5.0~7.0 N · m (0.5~0.7 kg · m)







DRIVE CHAIN

NOTE :

Inspect and lubricate Every month.

Visually check the drive chain for the possible defects listed below.

- 1. Loosen pins
- 2. Damaged rollers
- 3. Dry or rusted links
- 4. Kinked or binding links
- 5. Excessive wear

If any defects are found, the drive chain must be replaced.

● LUBRICATING THE DRIVE CHAIN

Dirt hastens wear of drive chain and sprockets. Lubricate the drive chain with chain lube or motor oil frequently. Every 1 month or more frequently, wash the chain clean in a pool of solvent and lubricate it with chain lube or motor oil. In a dusty area, this service should be given at shorter intervals.

A CAUTION

When refitting the drive chain, be sure to install the chain joint clip as shown : the slit end faces counter to turning direction.

• DRIVE CHAIN REPLACEMENT

The drive chain is checked when its slack (between two sprockets) is within $5\sim15$ mm (0.197 \sim 0.591 in) range.



If the drive chain slack exceeds the specification, the chain must be replaced.







TIRE

NOTE :

Inspect Every month. Check pressure each time ride.

•TIRE PRESSURE

If the tire pressure is too high, the vehicle will tend to ride stiffly, have poor traction. Conversely, if the tire pressure is too low, stability will be adversely affected. Therefore, maintain the correct tire pressure for good traction and to prolong tire life.

The standard tire fitted on this **"**ATV**」** is 145/70 - 6 for front and rear. The use of a tire other than the standard may cause handling instability. It is highly recommended to use a HYOSUNG Genuine Tire.

COLD INFLATION TIRE PRESSURE			
kPa		kgf/cm²	psi
Front 25		0.25	3.6
Rear	25	0.25	3.6

● TIRE TREAD CONDITION

Operating the vehicle with excessively worn tires will decrease riding stability and consequently invite a dangerous situation. It is highly recommended to replace the tire when the remaining depth of tire tread reaches the following specifications.

Front and rear tire tread depth	Service limit
	4 mm (0.16 in)





STEERING

NOTE : Inspect Initial 1 month and Every 3 months.

Steering system should be adjusted properly for smooth manipulation of handlebars and safe running.

$\odot \text{ TOE-IN}$

- Place the vehicle on the level ground.
- Make sure that the tire pressure is within specification.(Refer to page 2-11)



- The front wheels are set in straight-ahead position.
- Measure the distance (A and B in illustration) of front wheels with a gauge as shown in illustration and calculate the difference between A and B.

Tee in	6.0 mm
loe - In	(0.236 in)

 If the toe-in is off the specification, bring it into the specified range. (Refer to page 6-11)

CHASSIS BOLTS AND NUTS

NOTE : Tighten Initial 1 month and Every 3 months.

Check that all chassis bolts and nuts are tightened to their specified torque. (Refer to page 7-8)

