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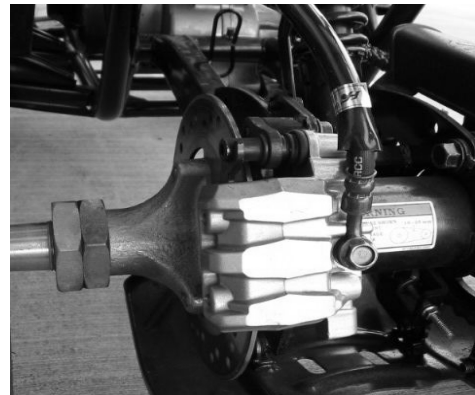
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Adjust the free play of the rear brake lever by turning the adjuster on the rear axle.
(Only for YXL 150 / EXL 150 (2004 two-passengers), / EXL-150 (VIPER))



Because of the CXL / EXL / RXL-150 are both disc brake system, so they don't need to adjust the free play. They will be discussed in chap10.



BRAKE SHOE WEAR

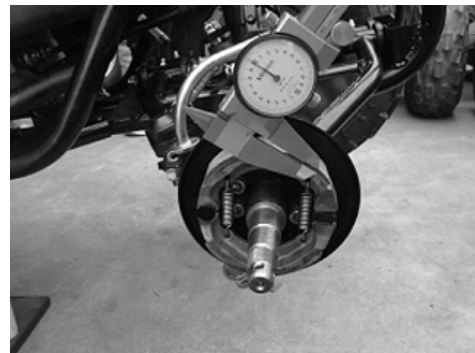
FRONT BRAKE

(The YXL / CXL / EXL / RXL 150 have the same model of front brake)

Release the front wheel and inspect the brake lining thickness.

Service Limit: 2.0mm(0.08 inch)

If either lining is worn beyond the service limit, replace Both brakes shoes.



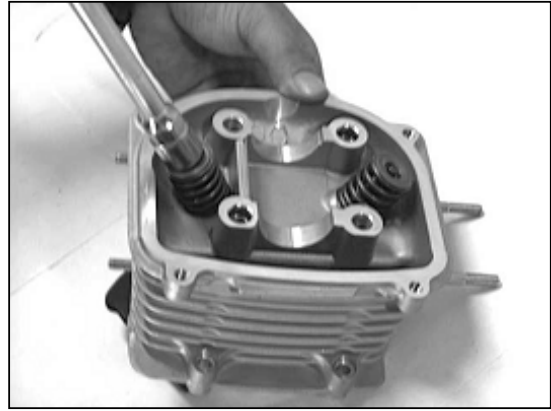
REAR BRAKE

This system is for YXL / EXL 150 (2004 two-passengers) / EXL-150 (VIPER). Replace the brake shoes if the indicator plate aligns with the brake index mark when the parking brake lever is applied.



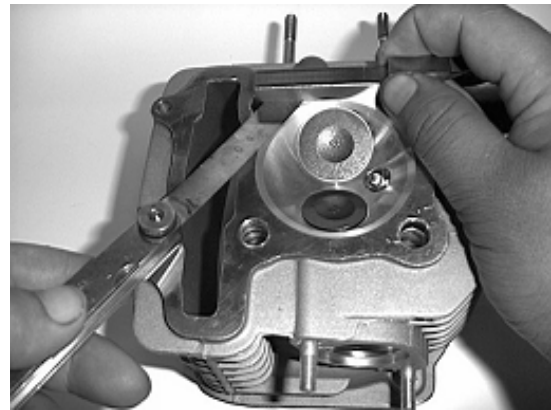
CYLINDER HEAD DISASSEMBLY

Remove the valve cotters, spring retainers and valve springs with a valve spring compressor.

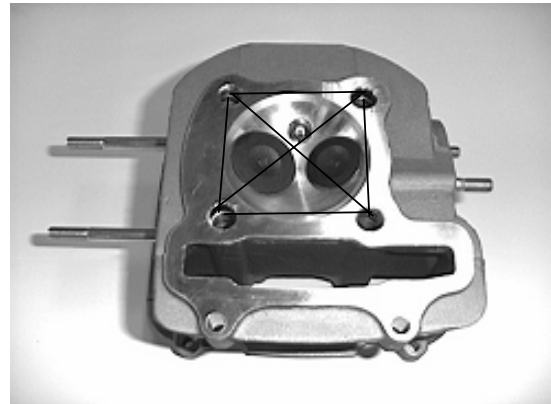


INSPECTION

Clean off all carbon deposits from the combustion chamber.
Check the spark plug hole and valve area for cracks.

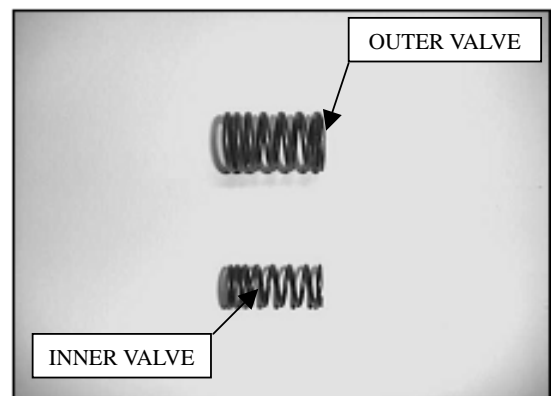


Measure the cylinder head diagonally for warpage with a straight edge and feeler gauge.
SERVICE LIMIT: 0.05 mm



Measure the free length of the inner and outer valve springs.

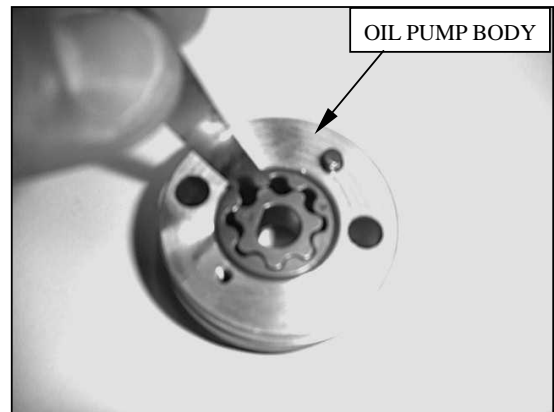
SERVICE LIMITS: Inner 31.2 mm
Outer 34.1 mm



INSPECTION

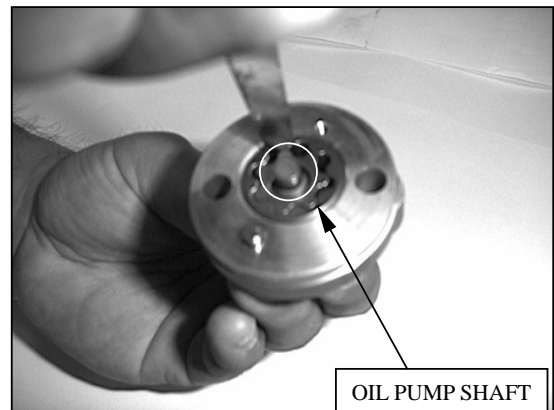
Measure the oil pump rotor-to-body clearance.

SERVICE LIMIT: 0.12 mm



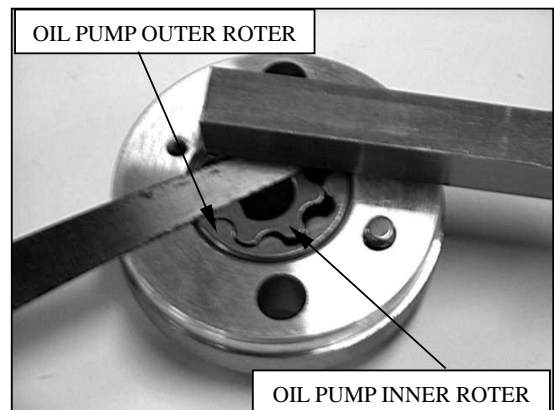
Install the oil pump shaft and measure the pump rotor tip clearance.

SERVICE LIMIT: 0.12 mm



Remove the oil pump shaft and measure the pump end clearance.

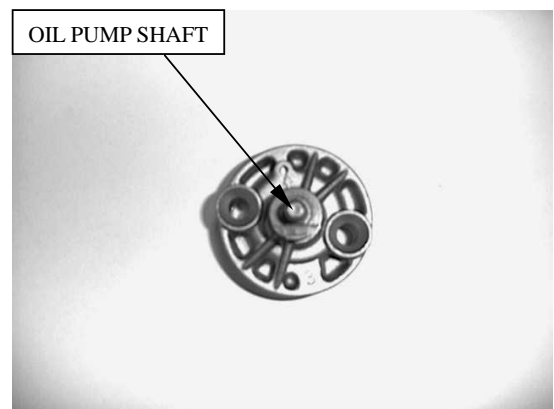
SERVICE LIMIT: 0.2 mm



OIL PUMP ASSEMBLY / INSTALLATION

Install the outer rotor, inner rotor and oil pump shaft onto the body.

NOTE: Pour a drop of clean engine oil inside the oil pump.

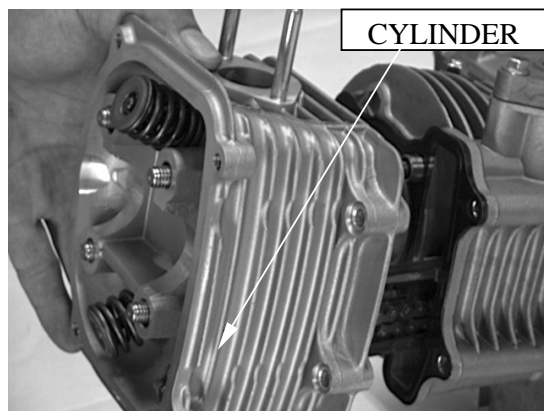


Coat the cylinder bore and piston rings with engine oil and install the cylinder.

NOTE: Avoid piston rings damage cylinder bore during installation. Do not allow the cam chain fall into the crankcase.



Install the cylinder head.



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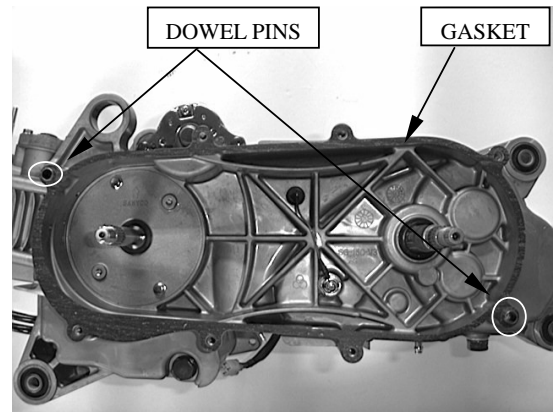
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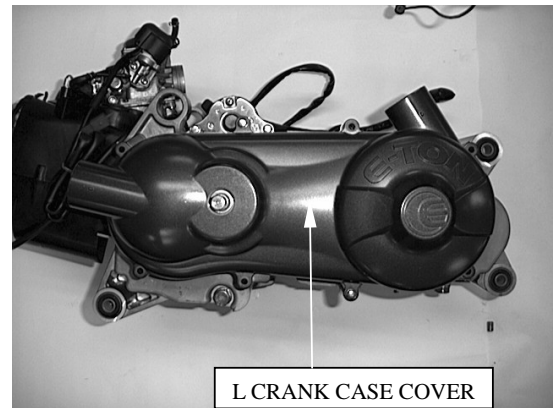
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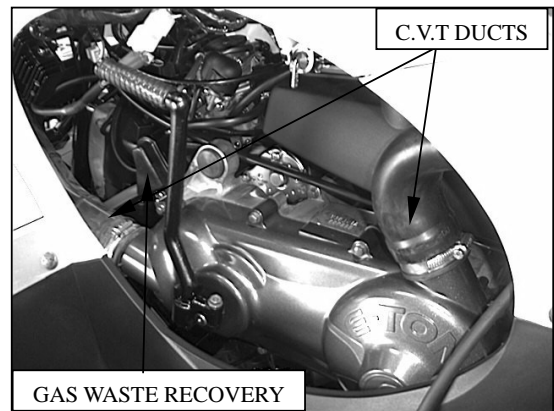
Install the dowel pins and gasket.



Install the L crank case cover.



Install the gas waste recovery and C.V.T ducts.



Measure the brake lining thickness.
The minimum limit: 1.5 mm
If they are thinner than the minimum limit,
replace the brake linings.



Measure the brake drum inner diameter.
The maximum limit: 86 mm



Turn the inner race of each bearing with fingers.
The bearings should turn smoothly and quietly.
If the race does not turn smoothly or quietly,
remove and discard the bearings



BRAKE PANEL REMOVAL

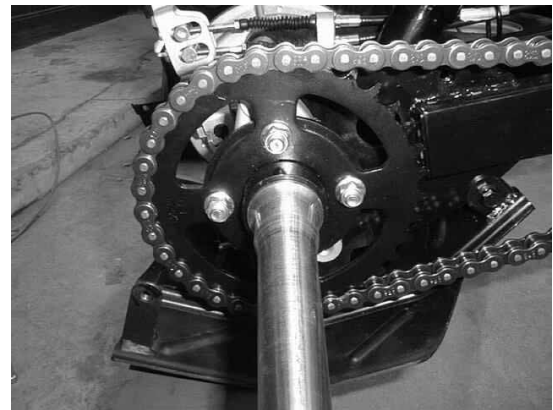
Disconnect the brake cable from the brake arm.
Remove the brake panel from the knuckle.



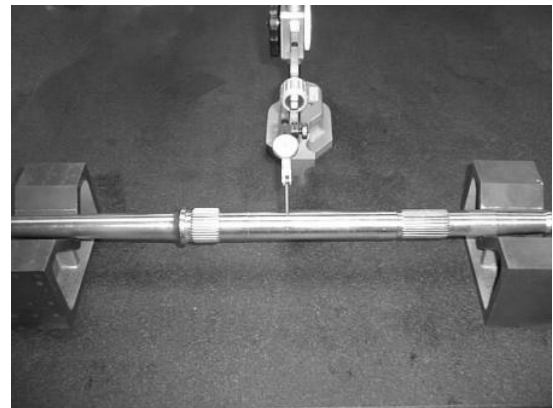
**Disassembles the chain retaining clip and master link.
Remove the chain.**



**Disassembly the driven sprocket, axle and sprocket collar.
Check the driven sprocket for damage or wear.
Replace if necessary.**

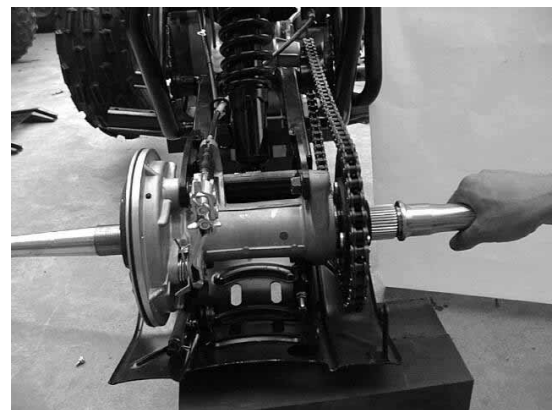


**Let the rear axle lie in V-blocks and check the run out.
The run out limit is 0.5 mm**

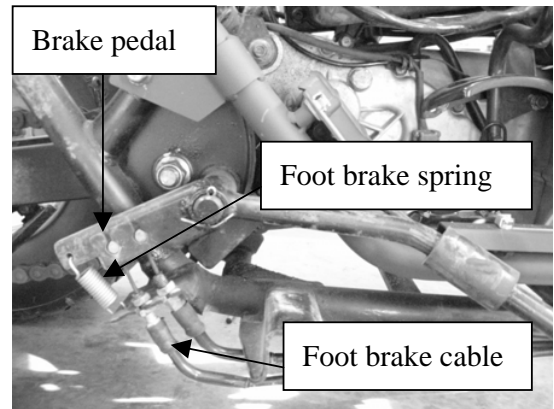


**Check the turning of inner race of bearing with fingers.
The bearings should turn smoothly and quietly.
Replace if necessary.
Also check the bearing outer race fits tightly in the
axle holder.
Replace if necessary.**

Note: Replace the bearings in pairs.

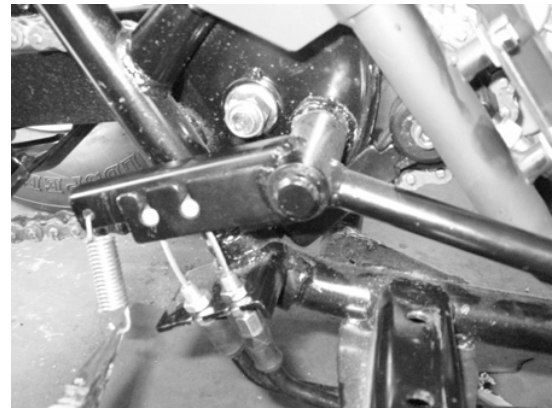


**Disconnect the foot brake spring and the foot brake cable.
Remove the brake pedal.**

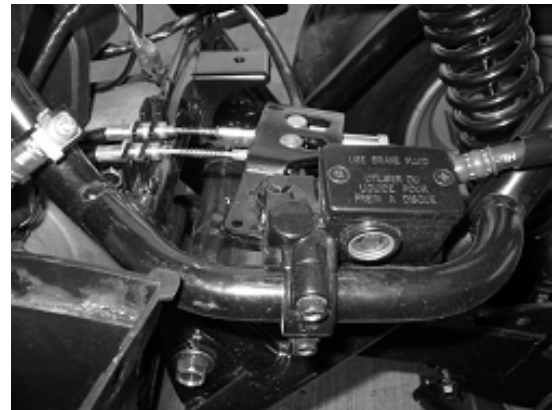


INSTALLATION

**Install the brake pedal.
Connect the foot brake cables and the foot brake spring.**



Connect the rear brake cables and the adjusters.



BATTERY REMOVAL

Remove the seat, and then you can see the battery. Disconnect the negative cable and then the position cable and remove the battery.



BATTERY INSTALLATION

Install the battery in the reverse order of removal. After installing the battery, coat the terminals with clean grease.

CHARGING

Connect the charge positive cable to the battery Position terminal.

Connect the charge negative cable to the battery negative terminal.

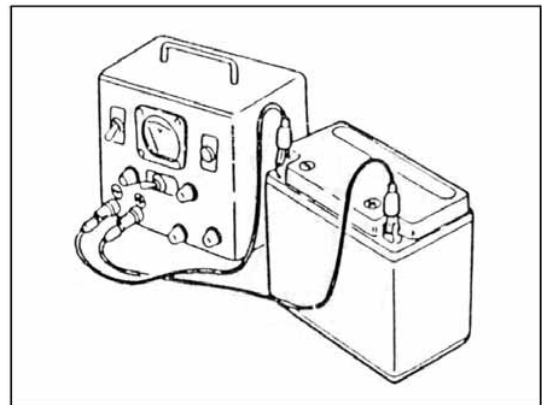
Using 0.9A-charging current about 5 hours. (Normal charging)

Or using 4A-charging current about 1 hour. (Quick charging)

Keep flames and sparks away from a battery being charged.

Quick charging should be limited to an emergency;

Normal charging is preferred.



12.6 ELECTRIC STARTER

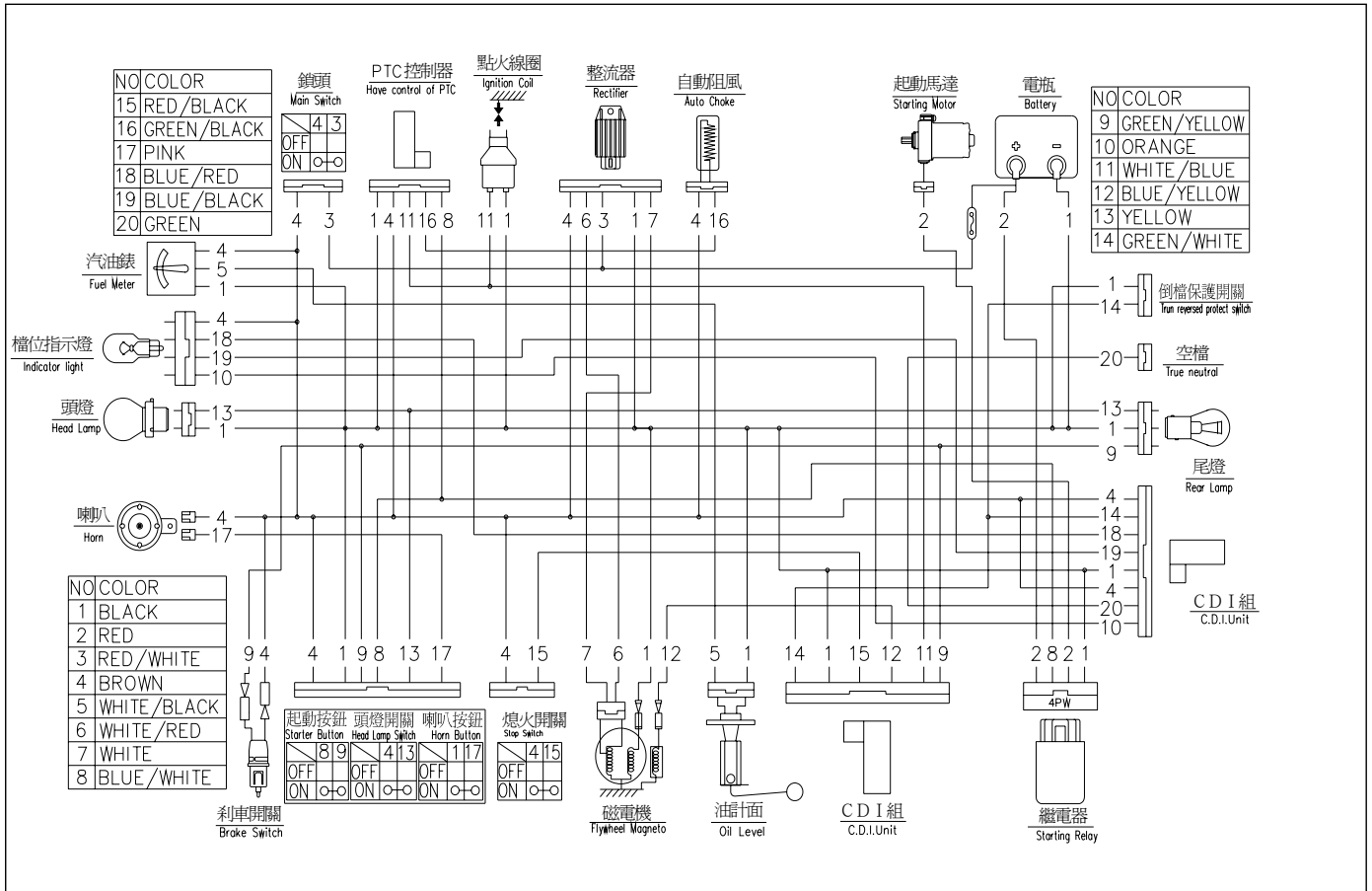
Information

A weak battery may be unable to run the starter motor quickly enough. If the battery voltage is enough while the engine is not Cranking, the starter motor may be damaged.



12.9 WIRING DIAGRAM

This diagram is for ATV YXL 150



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