This engine offers many exclusive features that have been proven specifically for 4 cycle engines. GLOW plug selection greatly affects the maximum engine output and low idle. If RPM's decrease or stop when the booster cord is removed, replace the plug. We recommend YS#4 or OS Type F.

2. Always use a fuel filter. We recommend the YS fuel filter.

2. Open the needle valve 1/2 from the fully closed position.

3. The proper clearance setting should be at 0.04-0.1mm. The clearance adjustment should be done when the engine is cool.

1. Tappet clearance is factory preset. No adjustment is necessary until after 1 hour of operation (including break-in period).

2. Clearance adjustment should be done when the engine is cool. When the engine temperature is high, clearance is higher due to thermal expansion.

3. The proper clearance setting should be at 0.04-0.1mm. The adjustment is achieved by loosening the locknut (fig.3) and turning the adjusting screw. Tighten the locknut after the adjustment is achieved. After the initial 1 hour adjustment, this procedure should be performed after every 2 hours of use.

**CAM GEAR TIMING ADJUSTMENT**

If for some reason you have to disassemble your engine, please follow these important steps on reassembling the cam gear box.

1. Turn drive washer so the piston is at top dead center. This can be accomplished by aligning the “Y” mark on the drive washer to the top of the mold line on the engine front case.

2. When reinstalling the cam gear, the side with a point mark should be facing the opening of the cam gear box. Note that it should also be mounted with the point mark located towards the top of the engine just below the cam followers.

**DIAPHRAGM AND CHECK VALVE DISASSEMBLY**

1. Remove the adjustment screw of the valve, and then remove the inside valve and spring.

2. Clean the inside with alcohol or appropriate cleaner. Reassemble.

3. Screw in the regulator screw until flush with the diaphragm body.

**WARRANTY**

Since quality control is implemented by our factory in all phases, from parts manufacturing to final assembly. If performance deteriorates or a part fails within one year of purchase due to a manufacturing error, YS performance will repair or replace the defective parts free of charge.

Should the engine be modified or incorrectly assembled, there will be a normal charge for parts and labor. The use of four cycle fuel due to low oil content will also void warranty.
The specifications may be changed without prior notice.

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