1. Open the valve by rotating the body counterclockwise.
2. Reassemble the check valve carefully.

IMPORTANT!
Silicone rubber is used in many parts of the YS engine. Use only glow fuel or methanol for cleaning. Gasoline and other volatile solutions will damage the silicone if used.

Warranty
We strictly inspect each process of production from parts to final assemble for keep good quality. If a performance deteriorates or part fails due to a manufacturing error under normal usage we will repair no charge with in 1 year starting from the date of purchase. Warranty will not cover normal wear. Even with in 1 year warranty term, improper disassemble or assemble, under improper usage, any modification will avoid this warranty and there will be normal charge for parts and labor.

3. Open the throttle fully and slowly turn the propeller ten turns. This primes the system by pressurizing the tank and feeding fuel to the carburetor.

2. Use any good quality 2 stroke fuel, which includes synthetic or castor oil additives.

The intermediate length between the muffler and exhaust adaptor depends mainly on the propeller size and the type of fuel. Generally, when the diameter and pitch of the propeller increase, the intermediate(header) length should increase as well. It must also be increase with lower nitro content fuel blends.

DIAPHRAGM AND CHECK VALVE DISASSEMBLY
Diaphragm:
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 valve adjustment screw until flush with the diaphragm body. Refer to “LOW SPEED ADJUSTMENT”.

LOW SPEED ADJUSTMENT
Carburetor adjustment for low speed is factory pre-set. No adjustment is required until after the break-in period. After break-in use this procedure if necessary.

1. Adjustment of low speed revolution is done by the diaphragm/regulator valve screw. When the diaphragm is turned clockwise, the mixture is leaned. When it is turned counterclockwise the mixture is richer.
2. The diaphragm valve can be set after the high speed procedure. When the throttle is opened to full immediately after start-up. Wait until the engine temperature rises and then open the throttle slowly.
3. For flying, it is advisable to use a slightly richer mixture setting. By using a richer mixture, the engine temperature is maintained and rpm stability improves.
4. Pour several drops of fuel into the carburetor.
5. Close the throttle approximately 25% and connect the glow plug cord.
6. Start the engine.

BREAK-IN
To maximize engine performance and increase durability, use this break-in procedure:
1. Use the same size or smaller propeller as you intend to use in flying.
2. Use any good quality 2 stroke fuel, which includes synthetic or castor oil additives.
3. During the break-in operation, open the throttle fully.
4. Rotate the propeller two or three turns, operating the needle valve as far as needed without stopping. Then rotate the needle valve 1/2 turns back from peak position and run for 30 minutes.
5. Mount the engine and fly it ten times at a speed 1,000 rpm lower than peak rpm. This concludes the break-in procedure. It is advisable to keep the needle valve open a bit more than necessary so as to keep the moving parts lubricated, even after the break-in period.

HIGH SPEED ADJUSTMENT
1. Adjustment of high speed is done by the carburetor needle valve. When the needle valve is turned clockwise, the mixture is leaner. When it is turned counterclockwise, the mixture is richer.
2. When the engine is started, open the throttle gradually. Next, find the peak position (high rpm) by adjusting the needle valve. Set the rpm slightly less than peak (the needle should be turned 30-45 degrees to the left of peak position). The engine may stop if the throttle is opened to full immediately after start-up. Wait until the engine temperature rises.
3. During the break-in operation, open the throttle fully.
4. Pour several drops of fuel into the carburetor.
5. Close the throttle approximately 25% and connect the glow plug cord.
6. Start the engine.

BREAK-IN
To maximize engine performance and increase durability, use this break-in procedure:
1. Use the same size or smaller propeller as you intend to use in flying.
2. Use any good quality 2 stroke fuel, which includes synthetic or castor oil additives.
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HIGH SPEED ADJUSTMENT
1. Adjustment of high speed is done by the carburetor needle valve. When the needle valve is turned clockwise, the mixture is leaner. When it is turned counterclockwise, the mixture is richer.