Safety Instructions

In order for you to use the engine, please read through this instruction manual carefully. This instruction manual uses special words, if you have any difficulties for understanding, please ask the hobby shop you purchased or contact us directory.

1. Mount the propeller must use propeller nut with the engine.
2. Select a good quality propeller and follow instruction by manufacturers.
3. Select a propeller size not increases practical rpm in the air.
4. Be sure not people standing front and sides of propeller while running.
5. Use electric starter to start the engine with idle position of the carburetor.
6. After start the engine, move behind of propeller and well adjust needle
   - Please note that with this clunk, all of the fuel cannot be used from the tank. As soon as any part
   - of the clunk becomes exposed, the engine will stop due to air entering the fuel
   - high temperature while and after engine runs. Do not try to
   - of the clunk type fuel tank may be used. If this type of tank is used, you
   - filter screens in place.
   - filter must be removed and then check dot should be pointing straight down will give you right

Installation

Connect the engine to the tank and CDI wiring as shown in "Fig.1" Battery and switch for CDI unit is not supplied of the engine set. Soft mount and fuel filter are option.

1. The recommended fuel tank size is 500cc to 700cc (18 to 24 oz). A standard clunk type fuel tank may be used. If this type of tank is used, you
   - Use alcohol based straight fuel ( 0% nitro and 10~20% oil ).
   - Use an alcohol based straight fuel ( 0% nitro and 10~20% oil ).
   - Sparking noise may cause shorten the range of receiver. Please range
   - Engine Cooling
   - Cleaning
   - Parts and Repair Service
   - Warranty

Cam Gear Timing

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

1. Remove the carburetor and back plate assembly. Notice the impression
2. This mark is to point straight down or lined up with the outer case seam
3. Reinstall the cam with the dot facing you. After you fully installing cam

Operation of YS Super Mount (Option)

1. It is hold by 4 screws, 2 on the front ring and 2 on the rear soft mount.
2. Please be sure to not hit any part of the fuseagile by the engine after it installed.
3. If damper oil is leaked, refill TAMAYA damper silicon oil #600. Damper is a consumption parts, please exchange if you fixed worn or some defect.

Cleaning

This engine is using silicon gaskets, “O” rings etc. Please use methanol or model engine fuel for cleaning. Do not use Kerosene, Gasoline, Machine oil, Automobile parts cleaner or house hold lubricants to clean. It will harm silicon parts.

Engine Cooling

Be sure to secure cooling air for engine cooling. If it is not enough cooling for the engine causes heat up the regulator and carburetor to make vaporized or percolates the fuel and will get deteriorations of engine performance or stop the engine. Please read carefully below for provision.

1. Please open air intakes and outlets as big as possible.
2. Take off cooling when you make long engine adjustment included idle adjustment. When air temperature is high, it may heat up the regulator and carburetor to make vaporized or percolates the fuel even with out cooling. If it happens, wait till engine well cooling down before you restart and adjust.

Rustling provision

Do not leave fuel in the engine after you finished for day. If you store the engine for a long period of time, few drops (about 10cc of model engine lubricant oil from carburetor and clamp several times. Do not use Automobile engine oil. They will not mix together with alcohol.

Parts and Repair Service

If you can not find repair parts form hobby shops, you can order parts direct to our factory. We also do repair your engine at our factory. If you need repair service, please make detailed of states and send together with the engine.

Warranty

We strictly inspect each process of production from parts to final assemble for keep good quality. If a performance deteriorates or parts fails due to a manufacturing error under normal usage 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 disassembly or assemble, under improper usage, any modification will avoid this warranty and there will be normal charge for parts and labors.

Engine Performance

You can get over 5 (five) 10 minutes flights.

Idling adjustment

1. To get the best 2,000rpm idling.
2. When the regulator is turned counterclock-wise, the idle mixture is leaner. When the regulator is turned clockwise, the idle mixture is richer. Adjust regulator by turn 45 degree at a time.
3. If idle mixture is too rich, gradually rpm drops and stops after continuous idling. If engine stops when you change altitude of airplane on the ground also too rich on idle mixture. If mixture is too lean on id, rpm is go up and down and not keep stable when you make continuous idle.

Spark Plug

Use spark plug supply with the engine. Plug gap is 0.30mm (0.013”) to 0.45mm (0.018”). If plug gap becomes over 0.5mm (0.020”) will cause miss firing the engine. If gap becomes over 0.45mm, tap the element by hammer to adjust the gap of the plug.

Tappets Adjustment

1. Tappet clearance is preset at the factory.
2. Clearance adjustment may need after first one hour running time due to initial wear. After first adjustment, clearance should be checked as normal maintenance for every 10 hours running for maintain maximum performance.
3. Clearance adjustment should be done when the engine is cool.
4. The proper clearance should be (0.000”) to 0.1mm (0.004”). The adjustment is achieved by loosening the ksd nut on "Fig.2” and turning the adjustment screw see "Fig.2”. The engine must be at top dead center on the compression stroke before any adjustments are made. This engine runs best with the valves set at a tight setting. If the valves are set too loose, power will be affected.

High Speed Needle Valve Adjustment

1. An electric starter is mandatory for starting this engine.

Battery for CDI Unit

Use 4-8-8-8 Nic Cad. Ni-MH or Li-Po batteries capacity around 700mAh. You can get over 5 (five) 10 minutes flights.

Stroke     31.8mm

Weight     95g (Engine, Plug)

Displacement    30.6cc

Practical rpm    1,000~9,000rpm

Switch

Battery (4.8-4.6V)

Fuel Tank

Regulator

Plug Cap Screw
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