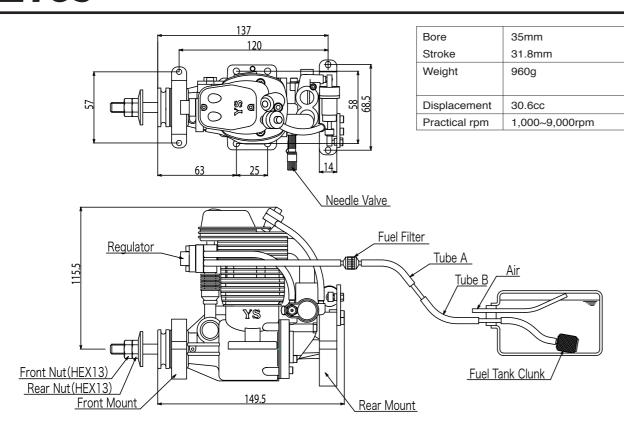
FIG 1



Safety Instructions

In order to use the engine, please read through this instruction manual carefully. This is a complex,high-performance engine. If you have any difficulties to understand any part of this instruction manual, please contact the hobby shop from whom you purchased the engine, or contact us directly.

- The propeller double locknut assembly supplied with the engine must be used when mounting the propeller.
- Always use a good quality propeller and follow the manufacturer's instructions.
- Choose a propeller size that will not allow the engine to exceed the maximum practical RPM in flight.
- Always ensure that no people are in front of or beside the propeller while the engine is running.
- 5. To start the engine, set the throttle to the idle position and use an electric starter.
- After starting the engine, always move behind the propeller to adjust the needle settings.
- The engine becomes extremely hot both during and after engine runs. Do not touch the engine, exhaust header, muffler, or any parts attached to the engine while it runs or before it has cooled down.
- 8. If the engine runs incorrectly, DON'T FLY.
- Do not use this engine for anything other than radio controlled air planes. Do not use it for radio controlled helicopters.
- 10. You have full responsibility while you operate the engine. Please be extra careful for your safety and the safety of others whenever you operate the engine.

Installation

WE RECOMMEND THAT THIS ENGINE BE MOUNTED ON A SHOCK ABSORBING SOFT MOUNT

1 Connect the engine to the tank as in Fig.1. The recommended fuel tank size is 500cc to 700cc (18oz to 24 oz). A standard clunk type fuel tank may be used. If this type of tank is used, you must use the special clunk supplied with the engine. Please note that with this clunk, some fuel cannot be drained from the tank. As soon as any part of the clunk becomes exposed, the engine will stop due to air entering the fuel pump.

2 Always use a fuel filter. We recommend YS filter (YS1195). With this filter, you must remove the cloth portion of the filter and leave both the metal filter screens in place.

Fuel

- 1. Use a good quality alcohol based model engine fuel containing 10% to 25% nitro, and oil content 5% to 25%. Do not use gasoline fuel.
- When filling the tank, disconnect Fuel Tube "A" or Fuel Tube "B" (Fig.1) for filling. If you use a "T" nipple on the fuel line for filling, use a stopper on the Fuel Tube "A" to avoid flooding the engine.

Propeller

- Due to the high power output of the DZ185 engine, it is supplied with a double locknut system for added safety. Mount the propeller and tighten the rear nut, followed by the front nut. The rear nut has an off set shoulder that the recess of the front nut will secure itself against.
- 2. Please check and retighten the propeller locknut periodically.
- 3. Select a propeller that will allow the engine to run at maximum between 6,000 to 8,000 RPM.
- 4. We recommend propeller sizes 19X11 to 21X10. Other propeller sizes may be used as long as the correct RPM range is maintained.

High Speed Needle Adjustment

- Adjustment of the high speed is done by the carburetor needle valve. Turning the needle valve clockwise leans the mixture. Turning it counter-clockwise richens the mixture. A good starting position for the high speed needle valve is 2 turns open from the fully closed position. At this setting the engine will be very rich and may die when you remove the glow driver. If this happens, turn the needle valve in 1/2 turn and try again. The final running setting for the high speed needle will be approximately 1 to 1-1/2 turns open from fully closed.
- 2 When the engine is started, open the throttle gradually. Next, find

the peak position (highest RPM) by adjusting the needle valve. Then the needle valve should be opened approximately 1/8 turns from full RPM to achieve best performance.

Breake-in

- Start the engine with high speed needle valve open 1 and 1/2 turns from the fully closed position and with the throttle at the idle position.
- 2. After starting the engine, increases the RPM gradually by operating the throttle. Do not suddenly apply full throttle.
- If the mixture is too rich and the engine misfires, turn the needle valve clockwise to make the mixture leaner.
- 4. Breake-in the engine with one or two tanks (600cc or 20oz. tank) of fuel on the ground, running at the richest possible mixture setting.

Idling adjustment

- 1. Ideal idling range is between 1,200 and 2,000RPM.
- When the regulator is turned counter-clockwise, the idle mixture is leaner. When the regulator is turned clockwise, the idle mixture is richer. Adjust regulator in 45 degree increments.
- 3. If idle mixture is too rich, the engine's RPM will gradually drop and the engine will eventually stop after continuous idling. Also if the engine stops when you change the attitude of the airplane on the ground, the idle mixture is too rich. If the engine's idle RPM is unstable during continuous idling, the idle mixture is too lean.

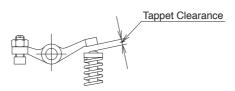
Glow Plug

Select the most appropriate glow plug from those designed 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 the YS#4 plug for maximum performance.

Tappets Adjustment

- 1. Tappet clearance is pre-set at the factory.
- Clearance adjustment may need after one hour of running time due to initial wear. After adjustment, tappet clearance should be checked during normal maintenance after every 10 hours of running to maintain maximum performance.
- 3. Clearance adjustment should be done when the engine is cool.
- 4. The proper clearance setting is between 0mm (0.000") and 0.1mm (0.004"). The adjustment is achieved by loosening the locknut ("Fig.2") and turning the adjustment screw. 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.

Fig2



Cam Gear Timing

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

- Remove the carburetor and back plate assembly. Notice the impression mark or dot opposite the rod journal on the crankshaft.
- 2. This mark is to point straight down or lined up with the outer case seam line at the bottom and hold crankshaft securely.
- Reinstall the cam with the dot facing you. After you fully installing cam and then check dot should be pointing straight down will give you right timing.

Operation of YS Super Mount (Option)

- It is hold by 4 screws, 2 on the front ring and 2 on the rear soft mount. There are two different height of spacer we provide.
 - A set spacer (MN110S): 10mm thickness B set spacer (MN111S): 4mm thickness
- 2. Please be sure not to hit any part of the fuselage by the engine after
- If damper oil is leaked, refill TAMIYA damper silicon oil #600.
 Damper is a consumption parts, please exchange if you find worn or some defect.

Cleaning

This engine uses silicon rubber in many parts. 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 for the engine, it causes the regulator and carburetor heat up and makes vaporized or percolates the fuel. It gets deteriorations of engine performance or stop the engine. Please read carefully below for provision.

- 1. Please open air intakes and outlets as wide as possible.
- Take off cowling when you make engine adjustment for a long time.
 When air temperature is high, it may heat up the regulator and carburetor to make vaporized or percolate the fuel even without cowling. If it happens, wait till engine well cooling down before you restart and adjust.

Rusting provision

Do not leave fuel in the engine after the final flight of the day. When you store the engine long period of time, a few drops (about 1cc) of lubricant oil must be put into the engine from carburetor and clank several times. Do not use Automobile engine oil.

Parts and Repair Service

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

Warrantv

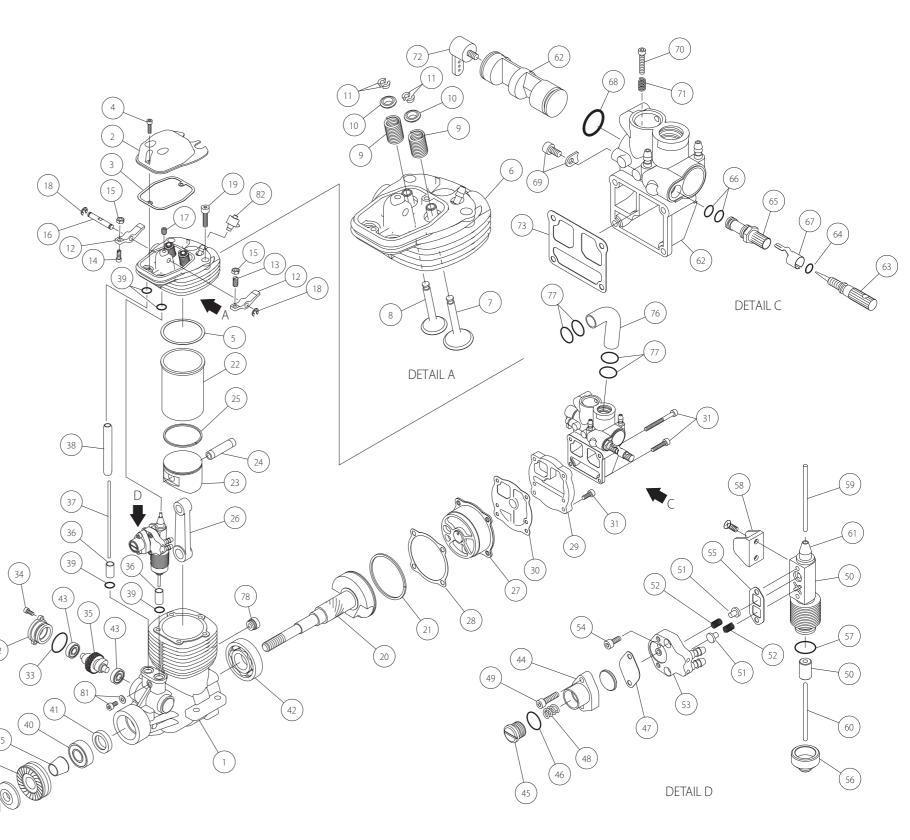
Strict quality control is implemented by our factory in all phases, from parts manufacturing to final assembly.

If performance deteriorates or a part fails due to a manufacturing error, YS engine will repair or replace the engine at no charge in the period of one year from date of purchase. Warranty does not cover normal main-

Incorrectly assembled or abused, under improper usage, any modification will void this warranty and there will be a normal charge for parts and labor.

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60 YS4740 Lower push rod 1	58	YS4665	Pump bracket	1
	59	YS4735	Upper push rod	1
G1 VCCEGO Dumer	60	YS4740	Lower push rod	1
0 1,20000 Lamb cab	61	YS6560	Pump cap	1

NO.	PART#	Name	QTY
	YS6565	Carburetor assembly	
62	YS6570	Carburetor body with thrtottle	1
	YS2740	Needle valve assembly	
63	YS2690	High speed needle valve	1
64	YS2695	High speed needle valve O-ring	1
65	YS2700	High speed needle seat	1
66	YS2705	Needle valve socket O-ring set	3
67	YS2710	Needle valve detent	1
68	YS4755	Throttle barrel seal	1
69	YS1090	Throttle barrel retainer	1
70	YS0785	Throttle stop screw	1
71	YS0790	Throttle stop spring	1
72	YS0200	Throttle arm set	1
73	YS4760	Carburetor gasket	1
74	YS2715	Drive washer	1
75	YS2720	Drive washer retainer	1
76	YS6000	Intake pipe	1
77	YS0840	Intake pipe O-ring	4
78	YS7130	Wrist pin access plug	1
79	YS0825	Propeller washer	1
80	YS6145	Propeller nut set	2
81	YS4723	Wrist pin access screw	1
82	YS5130	Check valve	1
	YS6100	Gasket set	4
	YS6573	O ring set	15
	YS4720	Fuel tank clunk	1
	YS5970	Tube holder	1
	YS6130	Ignition plug	1
	YS6110	Ignition box 2	1



YS Parts and Service

1370 PORTER DRIVE MINDEN NEVADA 89423 Phone: 775-267-9252 Fax: 775-267-9690