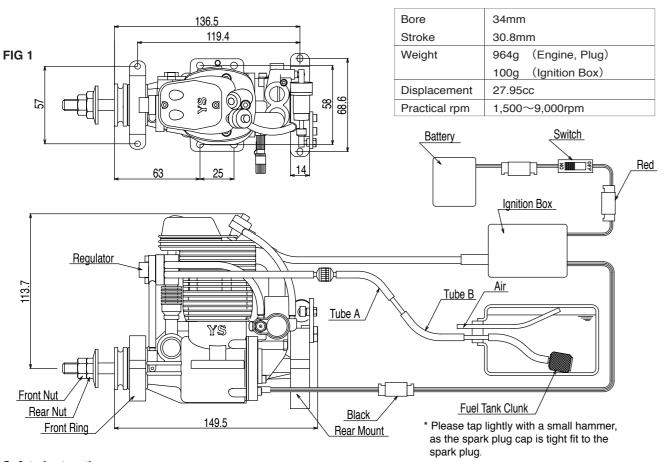
DZ170cdi

OPERATOR'S MANUAL



Safety Instructions

In order for you to use of 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 supply with the engine.
- 2. Select a good quality propeller and follow instruction by manufactures.
- 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.
- After start the engine, move behind of propeller and well adjust needle setting before you fly.
- 7. It becomes extreme high temperature while and after engine runs. Do not touch engine, exhaust header, muffler, and any parts attached to the engine while engine runs or before cool it down.
- Ignition system develops extreme high voltage so please careful when you operate. It is very dangerous to modify the ignition systems by your self.
- Sparking noise may cause shorten the range of receiver. Please range check with motor running on the ground before you fly. If there are range problem, DON'T FLY!
- 10. If engine runs not correctly, DON'T FLY!
- 11. Do not use this engine other than radio controlled airplanes. Can not use for radio controlled helicopters.
- 12. You have full responsibility while you operate the engine. Please be ex tra care for safety when never you operate the engine.

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 stan dard 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, 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 pump.

- 2. Always use a fuel filter. We recommend YS filter (6720). With this filter, you must remove the cloth portion of the filter and leave both the metal filter screens in place.
- Because of this pomp system, fuel level of the tank will not influence of engine runs, you can place fuel tank near C.G. position.
- 4. Please consider avoid cutting ignition wires by vibration when you do wir ing. Use plastic "spiral wrap" supplied the engine set to wrap the shielded plug wire and timing censor wire.
- 5. Please place receiver and ignition box about 15cm apart. Some of the ra dio needs to be apart them over 30cm to avoid radio interference. Wrap the ignition box in form rubber or other vibration absorbing material, same manner of receiver, and fasten. Do not use bracket holes on the box for fasten directory to the airplane.

Fuel

- 1. Use a good quality alcohol based model engine fuel containing 0% to 25% nitro, and oil content 5% to 25%. You can not use gasoline fuel.
- 2. When you filling the tank, disconnects Fuel Tube "A", or Fuel Tube "B" see "Fig.1" from connecting tube to filling. If you use "T" nipple on the fuel line to filling, use fuel stopper on the Fuel Tube "A" see "Fig.1" to avoid fuel in to the engine.

Propeller

- Due to the high output power of the DZ170CDI engine, it is supplied with a double locknut system for added safety. Mount the propeller and tighten the rear nut. Next, tighten the front nut. The rear nut has an offset shoul der so the front nut will secure itself to the rear nut.
- 2. Please retighten propeller nut periodically.
- Select a propeller that will allow the engine to run at maximum speed be tween 7,000 to 8,000 rpm range.
- We recommend sizes 18X11-12 to 19X10-11. Other prop sizes may be used as long as the correct rpm range.

High Speed Needle Valve Adjustment

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

- 2. When the needle valve is turned clockwise, the mixture is leaner. When it is turned counter-clockwise, the mixture is richer. A good starting position for the high speed needle valve is 2 turns open from the fully closed position.
- 3. Check ignition switch off first and turn the engine by electric starter with full open throttle to get fuel from tank to carburetor.
- Close the carburetor to the idle position, turn on ignition switch and start the engine by electric starter. Warm up the engine with little higher than idle rom
- Brake-in the engine one or two tanks of fuel on the ground with good rich mixture setting before you adjust for best high speed needle position.
- 6. To achieve best high speed needle valve position by gradually turn nee dle valve clock wise till rpm drops with fully opened throttle. The position right before rpm becoming drops is the peek position (highest RPM). Then the needle valve should be opened approximately 1/4 turns from highest RPM.

Sub Needle Valve

The sub needle valve is preset 1/4 turn open from fully closed position at factory. The small amount of fuel through this needle valve to crank case is for cooling in the clank case. When the sub needle valve is turned counterclockwise, the amount of fuel, in to the crank case more. When the sub needle valve is turned clockwise, the amount of fuel, in to the crank case fewer. If the sub needle valve is fully closed, all fuel in to combustion chamber. If you open more than 1/4 turn on sub needle valve, will decreases power. This sub needle valve is not for adjusting idle mixture.

Brake-in

- 1. Starting the engine with high speed needle valve 2 turns open from the fully closed position and idle position on carburetor.
- After start the engine, increases rpm gradually by operates throttle control up and down. Do not suddenly open throttle to fully open position.
- If mixture is too rich and miss firing, turn clockwise high speed needle valve to leaner mixture.
- 4. Brake-in the engine one or two tanks (600cc or 20oz. tank) of fuel on the ground with richest possible mixture setting.

Battery for CDI Unit

Use 4.8V Ni-Cd or Ni-MH batteries capacity around 700mAh. You can get over 5 (five) 10 minutes flights. If you use Li-ion or Li-Po battery, use voltage regulator to reduce voltage under 6V. Do not use over 6V even short period of time. We are not recommended to share with receiver battery for CDI power supply.

Idling adjustment

- 1. To get 1500rpm to 2000rpm idling.
- 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 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 attitude of airplane on the ground also too rich on idle mixture. If mixture is too lean on idle, rpm is go up and down and not keep stable when you make continuous idle.

Spark Plug

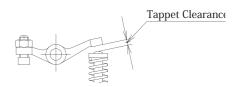
Use spark plug supply with the engine. Plug gap is 0.35 mm (0.014") to 0.45 mm (0.018"). If plug gap become over 0.5 mm (0.020") will cause miss firing the engine. If gap becomes over 0.45 mm, tap the element by hammer to adjust the gap of the plug.

Tappets Adjustment

- 1. Tappet clearance is preset at the factory.
- 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 perfor mance.

- 3. Clearance adjustment should be done when the engine is cool.
- 4. The proper clearance should be set at 0mm (0.000") to 0.1mm (0.004"). The adjustment is achieved by loosening the lock nut see "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.

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

- Please be sure not to hit any part of the fuselage by the engine after it installed.
- 3. If damper oil is leaked, refill TAMIYA damper silicon oil #600. Damper is a consumption parts, please exchange if you fined 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 air 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 cowling when you make long engine adjustment included idle adjustment. When air temperature is high, it may heat ups the regulator and carburetor to make vaporized or percolate the fuel even with out cowl ing. If it happens, wait till engine well cooling down before you restart and adjust.

Rusting provision

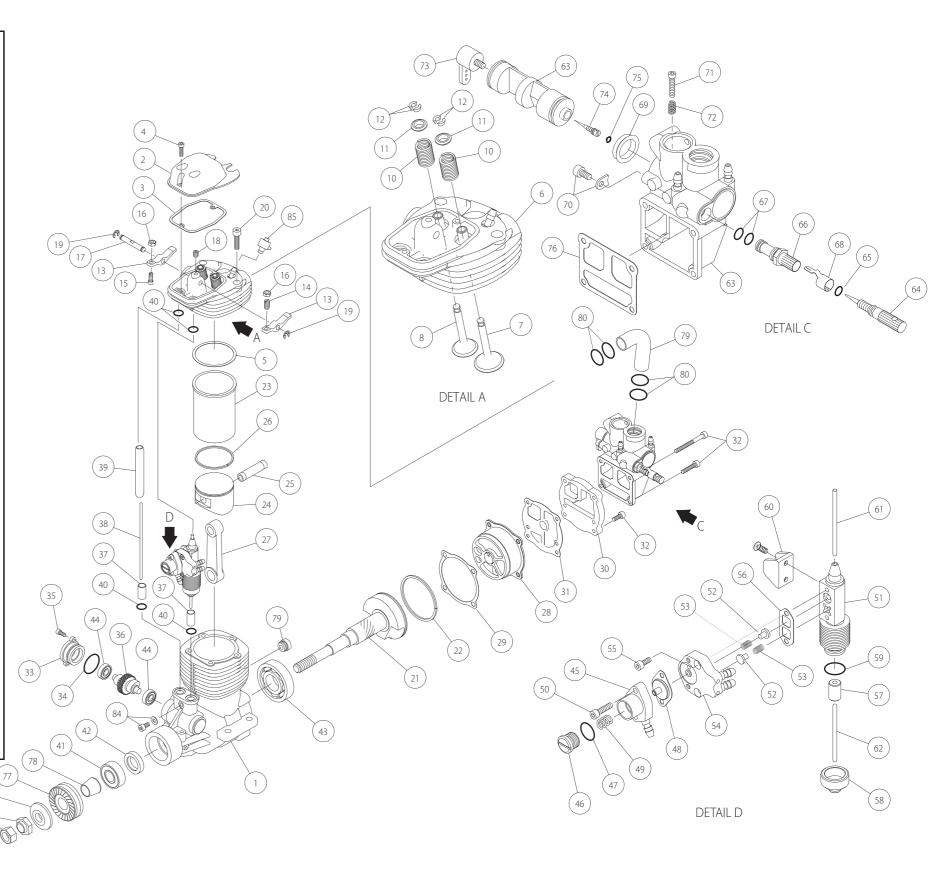
Do not leave fuel in the engine after you finished for day. If you store the engine long period of time, few drops (about 1cc) of model engine lubricant oil from carburetor and clank several times. Do not use Automobile engine oil. They will not mix together with alcohol.

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.

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31 E2192 Insulator Gasket 1 32 F2133 Back Plate Screw Set 6 33 F1232 Cam Gear Cover O Ring 1 34 F1233 Cam Gear Cover O Ring 1 35 F1234 Cam gear cover screw set 2 36 F2036 Cam Gear 1 37 E1236 Cam Followers 2 38 F2040 Ehaust Push Rod 1 39 F2041 Push Rod Cover 1 40 F1239 Push Rod O rings 4 41 F1240 Front Bearing 1 42 F9122 Front Bearing Oil Seal 1 43 F1341 Rear Bearing 2 44 F1242 Cam Gear Bearing Set 2 45 F2047 Regulator Body 1 45 F2047 Regulator Adjusting Screw O ring 1 47 F1246 Regulator Spring 1 49 F2051 Regulator Spring 1 50 F2052 Regulator Spring	29	F1230	Back Plate Gasket	1
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56 F2058 Pump Gasket 1 57 F8060 Plunger 1 58 F2187 Pump Insulator 1 59 F2188 Insulator O ring 1 60 F2059 Pump Bracket 1 61 F2190 Upper Push Rod 1	54	F2056	Pump Plate	1
57 F8060 Plunger 1 58 F2187 Pump Insulator 1 59 F2188 Insulator O ring 1 60 F2059 Pump Bracket 1 61 F2190 Upper Push Rod 1	55	F2057	Pump Screws	2
58 F2187 Pump Insulator 1 59 F2188 Insulator O ring 1 60 F2059 Pump Bracket 1 61 F2190 Upper Push Rod 1	56	F2058	Pump Gasket	1
59 F2188 Insulator O ring 1 60 F2059 Pump Bracket 1 61 F2190 Upper Push Rod 1	57	F8060	Plunger	1
60 F2059 Pump Bracket 1 61 F2190 Upper Push Rod 1	58	F2187	Pump Insulator	1
61 F2190 Upper Push Rod 1	59	F2188	Insulator O ring	1
· ·	60	F2059	Pump Bracket	1
62 F2191 Lower Push Rod 1		F2190	Upper Push Rod	1
	62	F2191	Lower Push Rod	1

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	E1263A	Carburetor Assembly	
63	E1263	Carburetor Body (with Throttle)	1
	F1545S	Needle Valve Assembly	
64	F1545	High Speed Needle Valve	1
65	F1546	High Speed Needle Valve O ring	1
66	F1555	High Speed Needle Seat	1
67	F1556	Needle Valve Seat Oring Set	3
68	F1557	Needle Valve Detent	1
69	F1483	Throttle Barrel Seal	1
70	R6124	Throttle Barrel Retainer	1
71	F1258	Throttle Stop Screw	1
72	F1259	Throttle Stop Spring	1
73	F1260S	Throttle Arm Set	1
74	E1274	Sub Needle	1
75	E1275	Sub Needle O ring	1
76	F2073	Carburetor Gasket	1
77	F1564	Drive Washer	1
78	F1565	Drive Washer Retainer	1
79	F8081	Intake Pipe	1
80	F1269	Intake Pipe O ring	4
81	F8083	Wrist Pin Access Plug	1
82	F1266	Propeller Washer	1
83	F2267	Propeller Nut Set 13	2
84	F2084	Wrist Pin Access Screw	1
85	F4088	Check Valve	1
	E1273S	Gasket Set	4
	E1276S	O ring Set	14
	F2083	Fuel Tank Clunk	1
	F8089	Tube Holder	1
	E2595	Ignition Plug	1
	E0010	Ignition Box	1
	E2594	Spiral Wrappings	2
	M0020	Nose Ring Assembly	
	M0021	Nose Ring Case	1
	M0022	Inner Ring	1
	M0022	Inner Rubber	1
	M2030	Rear Mount Assembly	
	M2031	Rear Mount	1
	M0032	Rear Mount Arm	1
	M0033	Arm Screws	2
	M0040	Rear Mount Screws	3
	M0060	Oil Dumper	1
	M0070	Ball Support	1
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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 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 labors.



YAMADA MFG. CO.,LTD.

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