

41-4C Diesel OPERATING INSTRUCTION

TECHNICAL DATA

■ Displacement	6.64 cc	■ Weight	420 g (W/M)
■ Bore × Stroke	22.3 × 17.0 mm	■ Mount size	37.5 × 15.0 mm
■ Rotational speed	1800~9000 rpm	■ Muffler	M534C
		■ Propeller	12~14 × 5~8 (in)

◇ FUEL

ENYA 41-4CD will operate satisfactorily on most kinds of model diesel fuel of high quality sold on the market. But take care of the following.

a) The kind of fuel affects the best running positions of compression ration and needle valve.

b) Ethyl ether is very volatile. And old fuel (reserved for a long

time) sometimes causes troubles of non-starting, unsmooth-running, poor power, etc.

The standard mixing ratio of components is as follows.

COMPONENT	MIXING RATIO
Kerosene	39~41%
Ethyl ether	34~36%
Castor oil	25%
Amyl-nitrate(amyl-nitrite)	0~2%

◇ CYLINDER HEAD GASKET

The ENYA 41-4CD is assembled from cylinder head gasket. The compression ratio is adequate for normal running. But, in case you want to change the compression ratio, disassemble the cylinder head, and insert or strip the gasket between cylinder head and cylinder liner.

◇ STARTING ENYA 41-4C DIESEL

ENYA 41-4CD will start very easily by proper handling. The compression ratio of each ENYA 41-4CD is set in the best position for starting of the factory.

- 1、 Fill the fuel tank with fuel. Open the needle valve $1\frac{1}{2}$ ~2 turns.
- 2、 Open the throttle valve and close the throttled inlet port by your finger. Flip the propeller counter-clockwise 3~4 times against the compression stroke until the proper amount of liquid priming fuel is sucked into the cylinder and your flipping finger feels weak knocking.
- 3、 Close the throttle valve down to the middle position.

- 4、Crank the engine until clockwise quickly by flipping the propeller with your finger. The engine should start by 10~20 good flicks.
- 5、After your engine start, open the throttle valve fully, and adjust the needle valve slowly to the best running position. When you run the engine, it is very important to keep a slightly rich mixture to get the best performance.
- 6、Close the throttle valve slowly and check the idling. The reasonable idling speed of 41-4CD is usually 1800~2200 rpm. 41-4CD prefers more rich mixture at idling.

◇ BREAKING IN

It is recommended to break your ENYA 41-4CD in carefully with slightly rich mixture during 1/2 or 1 hour on a test stand to obtain maximum power and long life.

◇ OTHER NOTE

- 1、Do not screw up the cylinder head of 41-4CD too tightly to avoid the deformation of cylinder liner.
- 2、If you find some defective parts on workmanship in your new engine, return it to our factory. We will repair it free of charge.

PARTS LIST OF 41-4CD (All the other parts are same as those of 41-4CD)

No. in drawing	Name of part	Qty	Part No
1	Cylinder head	1	414CD01
4.5	Cylinder liner & piston	1 set	414CD04
7	Connecting rod	1	414CD05
13	Crank shaft	1	414CD08
22	Cylinder head setting screw	1	40CX15A
27	Valve locker arm	2	414CD75
35	Timing gear box	1	414CD82A
41	Push rod tube	2	414CD68
69	Inlet manifold	1	414CD41
	Carburetor assembly	1	414CD70
	Cylinder head gasket	2	S5065
	Long propeller nut	1	S2514S
	Plug	1	

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