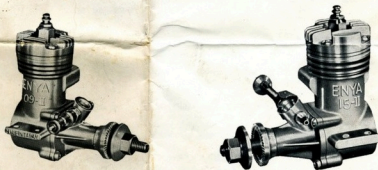


ENYA 09-II, ENYA 15-II

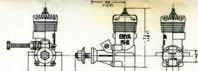
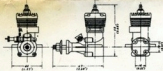
Gas Model Engine



ENYA 09-II



ENYA 15-II



● DISTINCTIVE FEATURES

- Exceptional Power
- Easy Handling Quality
- Wide Speed Range
- Long Life and Great Dependability

- Especially Designed Cylinder Liner
- Sturdy Construction
- Precise Workmanship
- Intake Throttle Valve being available

● SPECIFICATIONS

	ENYA 09-II	ENYA 15-II
Type	2 stroke cycle glow plug ignition shaft rotary valve	2 stroke cycle glow plug ignition shaft rotary valve
Displacement	0.098 cu. in. (1.61 cc)	0.15cu. in. (2.47 cc)
Cylinder bore	0.50 in. (12.7%)	0.590 in. (15.0%)
Cylinder stroke	0.50 in. (12.7%)	0.551 in. (14.0%)
Bare weight	3.3 oz. (93 g)	4.7 oz. (132g)
Practical speed	5,000-16,000 r.p.m.	5,000-16,000 r.p.m.
Max. power	0.18 hp at 15,000 r.p.m.	0.28 hp at 15,000 r.p.m.

ENYA METAL PRODUCTS CO., LTD.
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OPERATING INSTRUCTIONS FOR ENYA 09-II & 15-II

◎ RECOMMENDED PROPELLER AND WEIGHT OF PLANE

	Propeller size of propeller dia. & pitch, in.			Proper weight of plane oz.		
	Free flight	U control	Radio control	Free flight	U control	Radio control
ENYA 09-II	8 × 3 - 4	7 × 4 - 6	8 - 9 × 4 - 3	11-14 (200-500g)	9-14 (250-400g)	22-44 (600-1,200g)
ENYA 15-II	8.5 × 4	8 × 5 - 6	9 - 10 × 4 - 3	18-35 (500-1,000g)	13-21 (360-600g)	23-65 (900-1,800g)

◎ FUEL

ENYA 09-II (15-II) will operate satisfactorily on most kinds of glow fuel for model engine sold on the market.

The standard mixing ratio of components is as follows.

methanol alcohol	80-60 %
nitro-methane or nitro-benzen	0-20 %
castor oil	20 %

◎ GLOW PLUG

All the ¼-32 thread glow plugs are available for ENYA engine.

But as the glow plug has very delicate nature, it is recommended to test your engine with different kinds of glow plug to get the best conditions. ENYA Glow Plug No. 1 (nichrom) and No. 3 (platinum) are very suitable for ENYA 09-II and 15-II.

◎ BREAKING IN

You need not break your ENYA 09-II (15-II) in for a long time.

Run 15 or 10 minutes with rich mixture on the ground. And then you may fly your plane. But it is recommended to run your engine with rich mixture for about ½ hour to obtain max. power and long life. And it may take 1 or 2 hours for the engine to reach its peak in power.

◎ PREPARATIONS BEFORE STARTING THE ENGINE

1. mount your engine on a test stand or plane securely. The proper size of mounting bolt is ¼" dia. or 3/8" dia.
2. Clean the fuel tank and line. Dirt in them sometimes cause troubles.
3. Set the fuel tank behind the engine closely in the position as the height of the fuel surface is nearly equal to that of the carburetor.
4. Test your battery whether it can heat the glow plug sufficiently.
5. Set the glow plug and propeller on the engine securely.

◎ STARTING THE ENGINE

ENYA engine starts quite easily by proper handling.

1. Close the needle valve, and fill the fuel tank with fuel.
2. Open the needle valve 2 or 3 turns. Inject several drops of fuel both in the air intake and the exhaust port, and crank the engine 2 or 3 turns. In case the carburetor is too high compared with the fuel surface, or the fuel line is too long, it is necessary to choke the engine by holding your finger on the air intake port.
3. Connect one lead from the battery to the glow plug and the other lead to ground.
4. Crank the engine counter-clockwise quickly by flipping the propeller with your finger until it begins to pop and starts. When the quantity of the fuel injected is proper and the glow plug is heated sufficiently, the engine will start with one or two smart flipping.
5. After your engine starts, it will be running slowly with rich mixture. Control the needle valve carefully to the best running position. It is recommended to run your engine with slightly rich mixture while it is new.
6. When the speed of the engine becomes pretty fast, remove the battery connection from the glow plug.
7. Close the needle valve when you want to stop the engine.

◎ OTHER NOTES

1. Do not disassemble your engine needlessly.
2. The intake throttle valve for speed control can be easily installed on the standard engine.
3. If you find some defective parts or workmanship in your new engine, return it to our factory. We will repair it free of charge.

PART LIST OF ENYA 09-II AND 15-II

Part No.	Description of part	Quantity	Part No.	Description of part	Quantity
09-II 1	Cylinder block	1	9	Propeller washer	1
(15-II) 2	Cylinder head	1	10	Propeller nut	1
			11	Needle valve assembly	1 set
3	Piston & liner assembly	1 set	11A	Needle valve	
4	Piston pin	1	11B	Spray bar	
5	Connecting rod	1	11C	Needle valve setting spring	
6	Front housing	1	11D	Spray bar nut	
7	Crank shaft	1	12	Gasket	1
8	Drive washer	1	13	3/8 × 7/8" thread screw	8
			14	Venturi No.1	1
			15	Venturi No.2	1

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