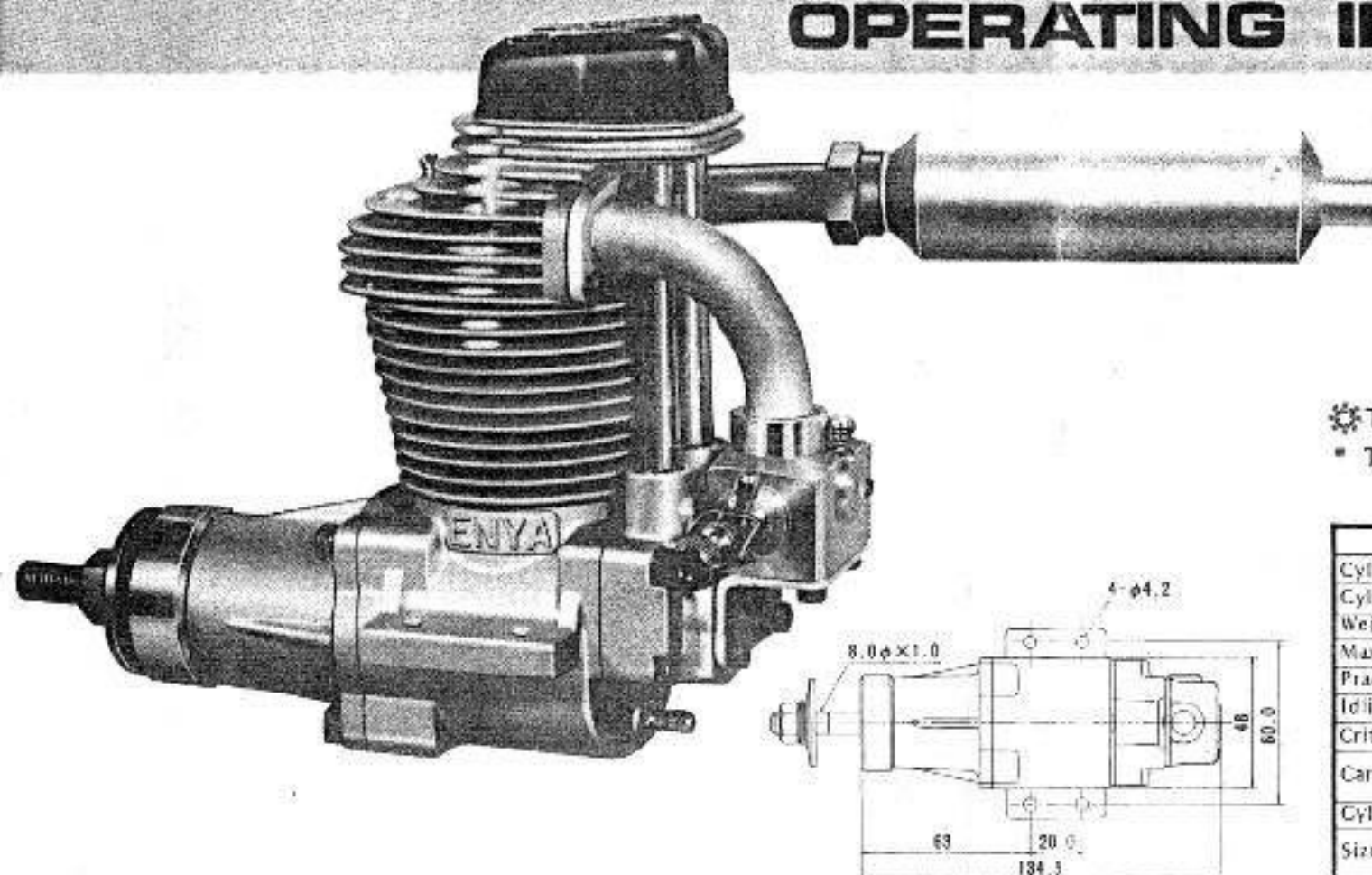


# ENYA

# R120-4C

## 4 stroke cycle engine

## OPERATING INSTRUCTION



### ✿DISTINCTIVE FEATURES

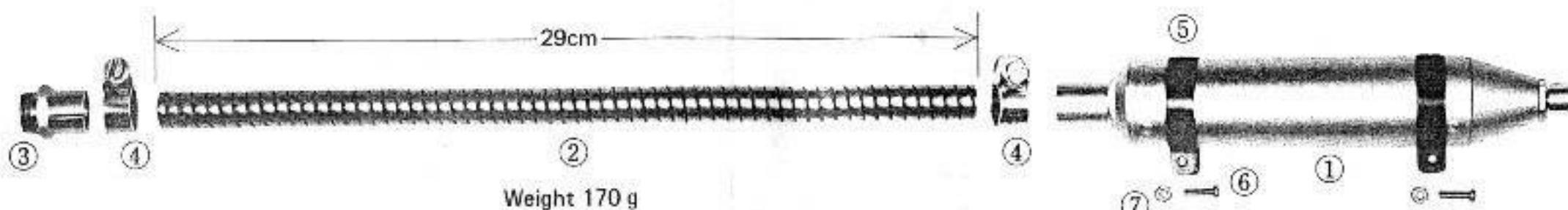
1. **ULTRA HIGH POWER** and **TORQUE**  
*nice speed controlling*
2. *Suitable for model R/C aerobatic, sport, and scale planes.*
3. *Sturdy and dependable construction*
4. *Easy handling*

### ✿TECHNICAL DATA

- Type: 4 stroke cycle, glow plug ignition, with overhead valves driven by push rods and twin camshafts.

|                           |        | ENYA R120-4C   |
|---------------------------|--------|--|
| Cylinder bore x stroke    | mm     | 31.0 x 26.4  |
| Cylinder displacement     | cc     | 19.93  |
| Weight                    | g      | 910 (with muffler)                                   |
| Max. power                | HP     | 2.1/12,500 r.p.m.                                    |
| Practical speed range     | r.p.m. | 9,000 ~ 12,500                                       |
| Idling speed              | r.p.m. | 2,500 ~ 3,000  |
| Critical speed            | r.p.m. | 13,000 ~   |
| Carburetor                |        | ENYA GC type 9.0mm<br>(with special starter system)  |
| Cylinder liner and piston |        | steel liner, ringed Al. piston                       |
| Size of propeller         | in.    | 12.5 x 9 ~ 12, 13 x 8 ~ 9,<br>14 x 7 ~ 9, 15 x 6 ~ 7 |
| Glow plug                 |        | ENYA No. 3, No.4                                     |
| Suitable weight of plane  | kg     | 4.0 ~ 7.5  |

### ✿OPTIONAL SPECIAL MUFFLER WITH FLEXIBLE TUBE (soft noise and least power loss)



### ✿SPECIAL ATTENTION

1. In general, model engine is very powerful and runs at very high speed. Never handle it carelessly. "Safety first" is most important in all respects when you run model engine.
2. Before you run your engine, take care of the following points.
  - o Tighten the engine mounting screws and propeller nut once again.
  - o Make sure that there are nobody near around (except your assistant).
  - o When you fly your plane, or run your boat, it is most important to confirm that your radio control equipment works well. If you find a defective point on it, stop to fly your plane, and repair it perfectly.

### ✿FUEL

To obtain good results with ENYA R120-4C, it is recommended to use high quality fuel for glow plug engine which contains 5 ~ 15% of nitromethane.

3. Close the throttle valve slowly and check the idling. The reasonable idling speed of R120-4C is 2,500 ~ 3,000 r.p.m.. Usually, R120-4C prefers rather rich mixture at idling. Control the idling mixture with the idling mixture adjusting screw. When you want richer mixture, close this screw 1/4 or 1/2 turn at one time, seeing the result carefully.
4. Try hi-lo and lo-hi operation several times, and make sure that the engine has no tendency to stop.
5. In the medium speed range between full throttle and idling, the engine runs steadily with the slightly rich mixture fed by the GC type carburetor.

### ✿STARTING BY HAND FLIP

When you start R120-4C by your hand flipping, do it carefully in all respects, because the compression and torque are much stronger than usual smaller model engines. To use a tight glove or some other protector is indispensable to guard your hand.

The GC carburetor of ENYA R120-4C has a newly designed starter system of unique and