Cap 232-120

0.91 cu.in. displacement 2-cycle
1.20 cu.in. displacement 4-cycle
Radio required: 4 channels, 5 servos airplane radio

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>73.0 in / 1860mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>964 sq in / 62.2 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>10.5 lbs / 4750g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>66.5 in / 1690mm</td>
</tr>
</tbody>
</table>

* Specifications are subject to change without notice.*

Warning! This model is not a toy.
It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.
Cap 232-120

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BEFORE YOU BEGIN

1 Read through the manual before you begin, so you will have an overall idea of what to do.

2 Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will be difficult to extend to the good parts that are good before gluing to defective parts during assembly.

3 Symbols used throughout this instruction manual comprise of the following:

- **AB**: Apply epoxy glue.
- **C.A**: Apply instant glue (C.A.glue, super glue.)
- **L/R**: Assemble left and right sides the same way.
- **Ensure smooth non-binding movement while assembling.**
- **Peel off shaded portion covering film.**
- **Cut off shaded portion.**
- **Drill holes with the specified diameter (here: 3mm).**
- **Must be purchased separately!**
- **Pay close attention here!**
- **Warning!**
- **Pierce the shaded portion covering film.**

Do not overlook this symbol!
Parts List

1. FUSELAGE – 1 pc.
2. MAIN WING – 1 pair
3. STABILIZER & ELEVATOR – 1 set
4. VERTICAL FIN & RUDDER – 1 set
5. CANOPY – 1 set
6. COWLING – 1 pc.
7. PILOT (# PC00102A) – 1 pc.
8. SPINNER Ø76mm – 1 pc.
9. ENGINE MOUNT PL5111-070 – 1 set
10. FUEL TANK 450cc – 1 set
11. SPONGE 10x80x200mm (For Radio Equipment) – 2 pcs
12. MAIN LANDING GEAR – 1 pc.
13. TAIL LANDING GEAR – 1 set
14. MAIN WHEEL COVER – 1 pair
15. MAIN WHEEL Ø80xØ30x24mm – 2 pcs
16. TAIL WHEEL Ø30mm – 1 pc.
17. TAIL LINKAGE (For Elevator) – 1 set
18. PUSHROD, PUSHWIRE & PULLWIRE: –
   COPPER TUBE d2.0x2.4x8mm (For Elevator & Rudder) – 8 pcs
   METAL ROD Ø1.8x80mm w/Threads (For Aileron) – 2 pcs
   METAL ROD Ø1.8x27mm (For Elevator & Rudder) – 4 pcs
   METAL ROD Ø1.8x27mm w/Threads (For Elevator & Rudder) – 4 pcs
   METAL ROD Ø1.8x100mm w/Threads (For Elevator) – 2 pcs
   WIRE Ø0.8xØ580mm (For Elevator) – 2 pcs
   WIRE Ø0.8xØ80mm (For Rudder Servo) – 2 pcs
19. THROTTLE PUSHWIRE Ø1.2x360mm
   w/Plastic tube d2xØ3x260mm – 1 set
   Plastic tube d2xØ3x50mm (For Rudder Servo) – 2 pcs
20. WOODEN PARTS: –
   Balsa 8x18x21mm (For Aileron Servo) – 4 pcs
   Balsa 10x10x141mm (For Fixing Fuel Tank) – 1 pc.
   PLYWOOD 2x6x2x85mm (Aileron Servo Cover) – 2 pcs
   PLYWOOD 3x40x147mm (Wing Protection) – 1 pc.
   PLYWOOD 3x41x151.5mm (For Throttle Servo) – 1 pc.
   PLYWOOD 6x10x41mm (For Throttle Servo) – 1 pc.
   PLYWOOD 3x10x20mm (For Throttle Servo) – 2 pcs
   WOODEN 9mm (Wing Joiner) – 1 pc.
21. PLASTIC PARTS: –
   CLIPPER – 8 pcs
   COLLAR Ø5.1mm – 2 pcs
   TRI-HORN M3x14mm (Non-Base) (For Rudder) – 2 sets
   TRI-HORN M3x14mm – 4 sets
   STRAPER – 4 pcs
   Silicon Grommet d1.5xØ6.5mm (For Cowling & Canopy) – 9 pcs
22. METAL PARTS: –
   LINKAGE CONNECTOR – 1 set
   COLLAR Ø2.6mm w/screw (For Tail Landing Gear) – 1 set
   COLLAR Ø5.1mm w/screw (For Main Landing Gear) – 2 sets
   NUT 2mm – 3 pcs
   NUT 4mm – 8 pcs
   NUT 5mm – 2 pcs
   SCREW PA 3x10mm – 2 pcs
   SCREW PA 3x12mm – 2 pcs
   SCREW PM 4x16mm – 4 pcs
   SCREW PM 4x16mm – 4 pcs
   SCREW PM 2x25mm – 9 pcs
   SCREW PM 4x30mm – 4 pcs
   SCREW PM 4x40mm – 2 pcs
   SCREW PM 5x45mm – 2 pcs
   SCREW PWA2x12mm – 14 pcs
   SCREW PWA2.3x8mm – 5 pcs
   SCREW PWA2.6x12mm – 4 pcs
   WASHER d4xØ9mm – 16 pcs
   WASHER d4xØ15mm – 2 pcs
   WASHER d5xØ15mm – 2 pcs
23. FUEL TUBE Ø6x5mm – 12 pcs
24. DECALS (P/N: ST200 009) – 1 set
1 Main Wing

2 Aileron Servo

3 Aileron Servo

P. 3
7 Engine Mount

- M4x25mm Screw 4
- 4mm Washer 4
- Apply thread locker to screws.
- Blind nuts are off-centered to keep the spinner at the fuselage axis.

8 Engine

- PM 4x30mm Screw 4
- 4mm Washer 8
- 4mm Nut 8
- Throttle Pushwire Ø1.2x360mm
- Plastic tube d2x3x260mm
- Apply thread locker to screws.

9 Cowling

- PWA2.6x12mm Screw 4
- d1.5xD6.5mm Silicon Grommet 4
- Illustration is for side mounting of the engine. You can mount your engine upright or inverted simply by rotating the engine mount. Thrust angles will not be affected.

P.5
10 Elevator Linkage

- PWA2x12mm Screw: 6
- 3mm Set Screw: 1
- Plastic Collar
- Elevator Pushwire
- Clamp the copper tube
- PWA2x12mm

You may need only one spacer.

11 Stabilizer

Please also refer to section 14 and 24.

12 Stabilizer

- Pre-glued

P.6
22 Canopy

- PWA 2.3x8mm Screw (5 pieces)
- d1.5xD6.5mm Silicon Grommet (5 pieces)
- Silicon Grommet d1.5xD6.5mm

23 Main Wing

- PM 4x40mm Screw (2 pieces)
- 4mm Washer (2 pieces)

24 Wing Setting

- Adjust the wing and fuselage configuration as in the diagrams.
25 Control Throws

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

Elevator

Rudder

Aileron

The ideal C.G. position is 133mm (5.25 in.) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.

26 C.G.

Warning!
Important Safety Precautions

# First time flyer should never fly by himself/herself. Assistance from experienced flyer is absolutely necessary.

# Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.

# Cap 232-120 is specially designed to be powered by 2C 0.91 or 4C 1.20 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.

# Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.

# If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering.

# Check and re-tighten up all factory assembled screws, use thread locker if applicable.
Usage of the transparent 3D template

This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.