Rambler 30

0.32-0.40 cubic displacement 2-cycle
0.40-0.52 cubic displacement 4-cycle

Radio required: 4 channels, 4 servos airplane radio

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>56.0 in / 1430mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>527 sq in / 34 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>4.0-4.5 lb / 2000-2100g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>41.5 in / 1060mm</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.

The World Models Manufacturing Co. Ltd.
Factory Pre-fabricated Almost-Ready-To-Fly (ARF) Series
Made in China
www.theworldmodels.com
**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.
   - **L/R**: Assemble left and right sides the same way.
   - **Peel off shaded portion covering film.**
   - **Drill holes with the specified diameter (here: 3mm).**
   - **Pay close attention here!**
   - **Warning!**: Do not overlook this symbol!
   - **Apply instant glue (C.A.glue, super glue.)**
   - **Ensure smooth non-binding movement while assembling.**
   - **Cut off shaded portion.**
   - **Must be purchased separately!**

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P. 1
Parts List

1. FUSELAGE -- 1set
2. MAIN WING -- 1 pair.
3. STABILIZER & ELEVATOR -- 1 set
4. VERTICAL FIN & RUDDER -- 1set
5. CANOPY -- 1pc
6. PILOT (#PC001063A) -- 1pc
7. COWLING -- 1pc
8. SPINNER Ø62mm -- 1pc
9. ENGINE MOUNT PLS111-030 -- 1set
10. FUEL TANK 200cc -- 1set
11. MAIN LANDING GEAR -- 1pair
12. TAIL LANDING GEAR -- 1set
13. MAIN WHEEL COVER -- 1 pair
14. MAIN WHEEL Ø50xØ20x18mm -- 2pcs
15. TAIL WHEEL Ø23xØ12.5x9mm -- 1pc
16. PUSHROD:
   WOODEN ROD Ø6x400mm (For Elevator & Rudder Servo) -- 2pcs
   METAL ROD Ø1.8x130mm w/Threads (For Aileron Servo) -- 2pcs
   METAL ROD Ø1.8x150mm (For Elevator & Rudder Servo) -- 2pcs
   METAL ROD Ø1.8x200mm w/Threads (For Elevator & Rudder Servo) -- 3pcs
17. THROTTLE PUSHWIRE Ø1.2x300mm w/Plastic tube d1.7xD4x210mm -- 1set
18. WOODEN PARTS:
   PLYWOOD 3X10X30mm (Aileron Servo) -- 1pc
   PLYWOOD 8X15X35mm (For Landing Gear Cover) -- 2pcs
   WOODEN 9X21.8X120.5mm (Wing Joiner) -- 1pc
19. PLASTIC PARTS:
   CLIPPER -- 5pcs
   COLLAR Ø4.1mm -- 2pcs
   HORN -- 3sets
   PLATE -- 6pcs
   RING Ø2.3mm -- 2pcs
   STRAP -- 4pcs
   SILICON GROMMET d1.5xD6.5mm -- 6pcs
20. METAL PARTS:
   ADJUSTER 2.1mm -- 1set
   COLLAR Ø2.1mm w/set screw -- 1set
   COLLAR Ø4.1mm w/set screw -- 2sets
   NUT 2mm -- 1pc
   NUT 3mm -- 8pcs
   SCREW PA2.6x8mm -- 4pcs
   SCREW PA3x8mm -- 2pcs
   SCREW PA3x12mm -- 8pcs
   SCREW PM2x12mm -- 5pcs
   SCREW PM2x16mm -- 2pcs
   SCREW PM3x22mm -- 4pcs
   SCREW PM3x25mm -- 4pcs
   SCREW PM4x35mm -- 2pcs
   SCREW PWA2.3x8mm -- 3pcs
   SCREW PWA2.6x12mm -- 3pcs
   WASHER 3mm -- 12pcs
   WASHER d4xD15mm -- 2pcs
   PLATE (For Tail Landing Gear) -- 1pc
21. FUEL TUBE Ø6x5mm -- 9pcs
   HEAT-SHRINK TUBE Ø6x40mm -- 4pcs
22. FUSELAGE STICKER & LOGO -- 1set
   P/N:ST200 001

P.2
3 Aileron Servo

- Fuel Tube Ø6x5mm
- Pushrod Ø1.8x130mm
- Plywood 3x10x30mm
- Peel off shaded portion covering film
- Clipper
- Ring

4 Landing Gear

- PA3x12mm Screw x 8
- Plastic Plate
- 1mm
- 2mm
5 Landing Gear

- PA2.6x8mm Screw: 4
- 4.1mm Plastic Collar: 2
- 3mm Set Screw: 2
- 4.1mm Collar: 2

- Plywood 6x15x35mm
- 3mm Set Screw
- Plastic Collar Ø4.1mm
- Main Wheel Ø50xØ21x18mm
- Collar Ø4.1mm

L/R

6 Stabilizer

Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.
7. Vertical Fin / Rudder

- PA3x8mm Screw: 2
- 3mm Set Screw: 1
- 2.1mm Collar: 1
- 2.1mm Nut: 1
- PM2x12mm Screw: 1

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8. Servo Set

- Adjuster: 3x3mm Set Screw: 1
- Linkage Stopper: 2mm Nut: 1
- 2mm Nut: 1
- 2mm Washer: 2

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Included with the Radio Set.
9 Elevator Pushrod
- Straper Ø1.8x150mm
- Heat-shrink Tube Ø8x40mm
- Fuel Tube Ø6x5mm
- Be careful not to scorch the heat-shrink tube!

10 Rudder Pushrod
- Straper Ø1.8x150mm
- Heat-Shrink Tube Ø8x40mm
- Fuel Tube Ø6x5mm
- Be careful not to scorch the heat-shrink tube!

11 Radio Equipment
- Install and arrange the servo as shown in the diagram.

Diagram:
- Throttle Pushwire w/Plastic Tube
- Elevator Servo
- Rudder Servo
- Fornt
- Bottom View
14 Canopy

- PWA2.3x8mm Screw 3
- d1.5x6.5mm Silicon Grommet 3

15 Engine Mount

- PM3x20mm Screw 4
- Washer 3
- Engine Mount PL5111-030

16 Engine

- PM3x25mm Screw 4
- Washer 3
- Nut 8
- Throttle Pushwire with plastic tube Ø1.7xD4x210mm
- Spinner Ø62mm
- Install Engine position
  - Fire Wall
  - 105mm 4.13in
  - 105mm 4.13in
17 Cowling

- PWA2.6x12mm Screw: 3
- d1.5xD6.5mm Silicon Grommet: 3
- 1mm:

18 Main Wing

- PM4x35mm Screw: 2
- d4xD15mm Washer: 2
- d4xD15mm Precision Rod: 2

19 Setting Wing

- Adjust the wing and fuselage configuration as in the diagrams.

- Rudder: E, E'
- Elevator: 90°
- B = B', D = D', C = C', A = A', E = E'
20 Control Ranges
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
\[ \text{25mm} \]
\[ \text{25mm} \]

Rudder
\[ \text{50mm} \]
\[ \text{50mm} \]

Aileron
\[ \text{13mm} \]
\[ \text{13mm} \]

21 C.G. Point
The ideal C.G. position is 90mm (3.54 in.) behind the leading edge. In order to obtain the C.G. specified, add weight to the fuselage if required. Check the C.G. before flying.

90mm
\[ 3.54 \text{ in.} \]

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.

# **RAMBLER 30** is specially designed to be powered by **2C 0.32-0.40 or 4C 0.40-0.52** 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.
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.