Before commencing assembly, please read these instructions thoroughly.

PIPER J-3 CUB 26

Specifications
Wing Span: 51.0 in / 1300mm
Wing Area: 419 sq in / 27.0 sq dm
Flying Weight: 3.3-4.0 lbs / 1.5-1.8 kg
Fuselage Length: 33.0 in / 840 mm
Requires: 2-stroke 0.25 or 4-stroke 0.30 engine
4-channel radio w/ 4 servos

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.

* Specifications are subject to change without notice.*
PIPER J-3 CUB 26

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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 not extend to the parts that are good before gluing to defective parts during assembly. Warranty will not cover any parts modified by customer.

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

- Apply epoxy glue.
- Apply instant glue (C.A.glu, super glue.)
- 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. ENGINE MOUNT PL5111–020 (15–40) --1 set
   SCREW PM3x18mm--4 pcs
   WASHER d3xD7mm--4 pcs
   FUSELAGE--1 set
2. FUEL TANK 200cc--1 set
   BALSA 8x8x78mm(For Fixing Fuel Tank)--1 pc.
3. SCREW PM3x25mm--4 pcs
   WASHER d3xD7mm--8 pcs
   M3 NUT--8 pcs
   THROTTLE PUSHWIRE Ø1.2x230mm
      w/Plastic Tube d2xD3x140mm--1 set
4. SCREW PM3x16mm--2 pcs
   WASHER d3xD7mm--2 pcs
   ALUMINUM PLATE 1.5x12.6x31mm--2 pcs
   M3 NUT--2 pcs
5. SCREW PA3x10mm--8 pcs
   PLATE (For Landing Gear)--4 pcs
   MAIN LANDING GEAR--1 set
6. BALSA 2x90x80mm(For Landing Gear)--2 pcs
   WOOD U-Type 6x10x13mm (For Landing gear)--6 pcs
   MAIN WHEEL Ø50mm--2 pcs
   COLLAR Ø3.1mm w/set screw--4 sets
7. SCREW PWA2.3x8mm--4 pcs
   WIND SHIELD & SIDE WINDOWS--1 set
8. COWLING--1 pc.
9. TRANSPARENT DUMMY COWLING--1 pc.
   SCREW PWA2.6x12mm--4 pcs
   SILICON GROMMET d1.5xD6.5mm--4 pcs
   SPINNER Ø45mm--1 pc.
10. MAIN WING--1 pair
    PLYWOOD 6x82x20mm (Wing Joiner)--1 pc.
11. PUSHROD 0.8x80mm w/ Threads (For Aileron)--2 pcs
    FUEL TUBE Ø6x5mm--4 pcs
    BALSA 5x8x20mm (For Aileron Servo stand)--2 pcs
    STRAPER--2 pcs
    CLEVIS--2 pcs
    RING 2.3mm--2 pcs
12. TAIL LANDING GEAR--1 set
    SCREW PM2x12mm--7 pcs
    M2 NUT--1 pc
    COLLAR Ø2.1mm w/ set screw--1 set
    SCREW PA2.6x12mm--2 pcs
    TAIL WHEEL Ø23mm--1 pc.
13. LINKAGE CONNECTOR Ø2.1mm--1 set
14. FUEL TUBE Ø6x5mm--2 pcs
    PUSHROD Ø1.8x160mm w/ Threads (For Rudder)--1 pc.
    PUSHROD Ø1.8x120mm (For Rudder)--1 pc.
    WOODEN ROD Ø6x280mm (For Rudder)--1 pc.
    CLEVIS--1 pc.
    STRAPER--1 pc.
    HEAT–SHRINK TUBE Ø6x40mm--2 pcs
15. WOODEN ROD Ø6x280mm(For Elevator)--1 pc.
    HEAT–SHRINK TUBE Ø6x40mm--2 pcs
    PUSHROD Ø1.8x165mm w/ Threads(For Elevator)--1 pc.
    PUSHROD Ø1.8x155mm w/ Threads(For Elevator)--1 pc.
    CLEVIS--2 pcs
    STRAPER--1 pc.
    PUSHROD Ø1.8x120mm (For Elevator)--1 pc.
    FUEL TUBE Ø6x5mm--3 pcs
16. SPONGE 10x80x200mm (For Radio Equipment)--2 pcs
17. PLYWOOD 3mm (Wing Struts)--1 pair
18. SCREW PA2.5x12mm--4 pcs
20. SCREW PM3x30 mm--2 pcs
    PVC PLATE 1x30x84mm (Wing Protection)--1 pc.
    SCREW PM3x10mm--2 pcs
    WASHER d3xD12mm--2 pcs
    M3 NUT--2 pcs
21. DECALS--1 set

COVERING:
LIGHTEX SGX311 CUB YELLOW
1 Engine Mount

- PM3x18mm Screw x 4
- d3x7mm Washer x 4
- Engine Mount PL5111-020 (15-40)
- d3x7mm Washer

2 Fuel Tank

- Install Basla 8x8x78mm (For fixing fuel tank)

3 Engine

- PM3x25mm Screw x 4
- d3x7mm Washer x 8
- M3 Nut x 8
### 4 Landing Gear

- **PM3x16mm Screw**: 2
- **d3xD7mm Washer**: 2
- **M3 Nut**: 2

![Diagram of Landing Gear](image)

- **M3 Nut**
- **d3xD7mm Washer**
- **PM3x16mm**

### 5 Landing Gear

- **PA3x10mm Screw**: 8

![Diagram of Landing Gear](image)

- **PA3x10mm**

### 6 Landing Gear

- **3mm Set Screw**: 4
- **3.1mm Collar**: 4
- **Wood U-Type 6x10x13mm**

![Diagram of Landing Gear](image)

- **Balsa 2x90x80mm**
- **3mm**
7 Canopy

Securely glue the windows to the fuselage.

8 Cowling

Trim the cowling for the engine head to project.

9 Main Wing

Apply glue to both sides of all surfaces in contact. Use a stick to apply glue to inner side of wing joiner sleeve, and apply glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

- Apply instant type CA glue to both sides of each hinge.
**Aileron Servo**

- Fuel Tube Ø6x5mm
- Rod Ø1.8x80mm
- Straper

**Vertical Fin / Stabilizer**

- Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.
- Make sure vertical fin and stabilizer are at right angles. Because the tail wings are exposed to high load, glue together securely.

**Rudder / Elevator**

- Apply instant type CA glue to both sides of each hinge.

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM2x12mm Screw</td>
<td>7</td>
</tr>
<tr>
<td>PA2.6x12mm Screw</td>
<td>2</td>
</tr>
<tr>
<td>3mm Set Screw</td>
<td>1</td>
</tr>
<tr>
<td>2.1mm Collar</td>
<td>1</td>
</tr>
<tr>
<td>M2 Nut</td>
<td>1</td>
</tr>
</tbody>
</table>
### 13 Linkage Connector

- **3mm Set Screw**: 1
- **Linkage Stopper**: 1
- **M2 Nut**: 1
- **2mm Washer**: 2

Included with the radio set.

![Diagram of Linkage Connector]

- Throttle Rod
- Throttle Servo
- Linkage Stopper
- 3mm Set Screw
- M2 Nut
- 2mm Washer
- Fuel Tube Ø1.8x120mm
- Heat-shrink Tube
- Lighter

Mind the flame.

Completed

---

### 14 Rudder Rod

- **Heat-shrink Tube**: 1
- **Fuel Tube**: Ø1.8x120mm, Ø1.8x160mm
- **Wooden Rod**: Ø6x280mm
- **Lighter**: Mind the flame.

Completed

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### 15 Elevator Rod

- **Wooden Rod**: Ø6x280mm
- **Fuel Tube**: Ø1.8x120mm, Ø1.8x155mm, Ø1.8x165mm
- **Heat-shrink Tube**: 1
- **Lighter**: Mind the flame.

Completed

---

Mind the flame.

Completed

---

Included with the radio set.

Completed
16 Radio Equipment

- Install and arrange the servos as shown in the diagram.

17 Radio Equipment

- Make both pushrods exit as shown in the diagram.

18 Linkage

- Make both pushrods exit as shown in the diagram.
19 Wing Struts

PA2.6x12mm Screw

20 Main Wing / Wing Struts

PM3x30mm Screw
d3xD12mm Washer
3mm Washer
M3 Nut

21 Wing Setting

In order to obtain the wing and fuselage configuration as in the diagrams, insert plates between the wing and fuselage. Don't over tighten the screws.

Securely attach the main wing.
### 22 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**: 14mm - 14mm
- **Rudder**: 28mm - 28mm
- **Aileron**: 5mm - 5mm

### 23 C.G.

The ideal C.G. position is 65mm (2.56 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.

**C.G.**

65mm 2.65 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.**
- **PIPER J-3 CUB 26** is specially designed to be powered by 2C 0.25 or 4C 0.30 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.**