**INSTRUCTION MANUAL**

# BARBERA JEAN 52

![BARBERA JEAN 52](image)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>53 in / 1350 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>511 sq in / 33 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>5 lbs / 2300 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>45.5 in / 1160 mm</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.
BEFORE YOU BEGIN

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

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.

Symbols used throughout this instruction manual comprise of the following:

- Apply epoxy glue.
- Apply instant glue (C.A.glue, super glue.)
- Apply thread locker
- Must be purchased separately!
- 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).
- Pierce the shaded portion covering film.
- Pay close attention here!
- Warning! Do not overlook this symbol!
**Parts List**

1. **MAIN WING** — 1 pair
   - SCREW PM2x16mm — 4 pcs
   - CLEVIS — 2 pcs
   - STRAPER — 2 pcs
   - FUEL TUBE Ø6x5mm — 4 pcs
   - HORN (L) — 2 pcs
   - SCREW PWA2x8mm — 8 pcs
   - PUSHROD Ø1.8x550mm w/ Threads (For Rudder) — 1 pc.

2. **SCREW PM2x16mm** — 4 pcs
   - CLEVIS — 2 pcs

3. **WING JOINER** 6x20x200mm — 1 pc.

4. **MAIN LANDING GEAR** — 1 pair
   - WHEEL PANTS — 1 pair
   - SCREW PA2.6x6mm — 4 pcs
   - SCREW PM4x38mm — 2 pcs
   - SOCKET HEAD SCREW M3x12mm — 6 pcs
   - WASHER d3xD7mm — 10 pcs
   - WASHER d4xD9mm — 4 pcs
   - M4 NUT — 2 pcs
   - WHEEL Ø58mm — 2 pcs
   - COLLAR Ø4.1mm w/ set screw — 4 sets
   - PLATE 0.5mm — 1 pair

5. **STABILIZER & ELEVATOR** — 1 set
   - FUSELAGE — 1 pc.

6. **TAIL LANDING GEAR** — 1 set
   - COLLAR Ø2.1mm w/ set screw — 1 set
   - WHEEL Ø25mm — 1 pc.
   - SCREW PA3x12mm — 2 pcs
   - COLLAR Ø2.1mm w/ set screw — 1 set

7. **VERTICAL FIN & RUDDER** — 1 set
   - SCREW PM2x12mm — 4 pcs
   - CLEVIS — 2 pcs
   - HORN (L) — 2 sets
   - FUEL TUBE Ø6x5mm — 2 pcs
   - PUSHROD Ø1.8x490mm w/ Threads (For Elevator) — 2 pcs

8. **SCREW PM2x12mm** — 2 pcs
   - CLEVIS — 1 pc.
   - HORN (L) — 1 set
   - FUEL TUBE Ø6x5mm — 1 pc.
   - PUSHROD Ø1.8x550mm w/ Threads (For Rudder) — 1 pc.

9. **ENGINE MOUNT PL5111050** — 1 set
   - SOCKET HEAD SCREW M4x25mm — 4 pcs
   - WASHER d4xD9mm — 4 pcs

10. **FUEL TANK 320cc** — 1 set
    - Balsa 8x8x105mm (For Fuel Tank Position Fixing) — 1 pc.

11. **DECALS : A283DEC** — 1 set
    - TOP COVERING: TOUGHON STL100 WHITE
    - TOUGHON STL511 PEARL FERRARI RED
    - TOUGHON STL550 PEARL BLUE

12. **LINKAGE CONNECTOR Ø4.1mm** — 1 set

13. **STRAINER** — 2 pcs
   - FUEL TUBE Ø6x5mm — 2 pcs
   - PUSHROD Ø1.8x60mm (For Elevator) — 1 pc.

14. **ENGINE MOUNT PL5111050** — 1 set
    - SOCKET HEAD SCREW M4x25mm — 4 pcs
    - WASHER d4xD9mm — 4 pcs

15. **SCREW PM2x12mm** — 2 pcs
    - CLEVIS — 1 pc.
    - HORN (L) — 1 set
    - FUEL TUBE Ø6x5mm — 1 pc.
    - PUSHROD Ø1.8x550mm w/ Threads (For Rudder) — 1 pc.

16. **SCREW PA2.3x8mm** — 4 pcs
    - COLLAR Ø2.1mm w/ set screw — 4 sets
    - PLASTIC TUBE d2xD3x300mm — 1 pc.

17. **ENGINE MOUNT PL5111050** — 1 set
    - SOCKET HEAD SCREW M4x25mm — 4 pcs
    - WASHER d4xD9mm — 4 pcs

18. **LINKAGE CONNECTOR Ø4.1mm** — 1 set

The World Models Manufacturing Co., LTD.
www.theworldmodels.com
1. **Main Wing**

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

2. **Aileron Servo**

- Ø1mm pilot holes for The World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

- PM2x16mm Screw
- PWA2x8mm Screw

- Bottom View

- Straper
- Fuel Tube Ø6x5mm

- Bottom View

- N.I.
- PWA2x8mm
- Fuel Tube Ø6x5mm
- Pushrod Ø1.8x95mm
- PM2x16mm
- Horn

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P.3
3 Main Wing

- Please dry fit wing joiner into left and right wing to make sure they fit with the proper dihedral angle, mark the wing joiner if necessary. Apply epoxy glue to both sides of all surfaces in contact. Use a stick to apply the glue to inner side of wing joiner sleeve, and apply the glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

4 Main Landing Gear

- PM4x38mm Screw 2
- PA2.6x6mm Screw 4
- M3x12mm Socket Head Screw 6
- M4 Nut 2
- d4xD9mm Washer 4
- d3xD7mm Washer 10
- 4.1mm Wheel Collar 4

- Bottom View

- Completed

- Completed

- Completed
5 Stabilizer & Elevator

Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible. *Also refer to step 18 Wing Setting.

1

2

3

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

6 Tail Landing Gear

- PA3x12mm Screw 2
- 2.1mm Collar 1

- 3mm Set Screw
- PA3x12mm
- 3mm Set Screw
7 Vertical Fin & Rudder

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

8 Elevator Pushrod

- Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

9 Rudder Pushrod

- Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.
10 Engine Mount

- M4x25mm Socket Head Screw: 4
- d4xD9mm Washer: 4
- Engine Mount PL5111050

⚠️ Blind nuts are off-centered to keep the spinner at the fuselage axis.

11 Fuel Tank

- Fuel Tank 320cc
- Install Balsa 8x8x105mm (For Fuel Tank Position Fixing)
12 Engine

PM3.5x30mm Screw
- 4
M3.5 Nut
- 8
d3.5xD8mm Washer
- 8

M3.5 Nut

d3.5xD8mm Washer

PM3.5x30mm

Throttle Pushrod Ø1.2x420mm

Plastic Tube d2xD3x300mm

Installed Engine Position

115 mm
4.53 in.
13 Servo Set

- 3x3mm Set Screw x1
- Linkage Connector x1
- M2 Nut x1
- 2mm Washer x2

Please refer to the attached sheet for linkage connector installation.

14 Radio Equipment

- PWA2x8mm Screw x4

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

- Complete
15 Main Wing

- M4x30mm Socket Head Screw x 2
- d4xD12mm Washer x 2
- Plywood 2x30x100mm (Wing Protection)

- Completed

16 Canopy

- First insert the grommet to the canopy then apply screw.
- PWA2.3x8mm Screw x 4
- d1.5xD6.5mm Silicon Grommet x 4

- Completed

L/R

- d1.5xD6.5mm Silicon Grommet
17 Cowling & Spinner

- Please refer to the attached sheet for usage of the transparent 3D template.

18 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.
19 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.

<table>
<thead>
<tr>
<th>Rudder</th>
<th>20mm</th>
<th>20mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator</td>
<td>10mm</td>
<td>10mm</td>
</tr>
<tr>
<td>Aileron</td>
<td>9mm</td>
<td>9mm</td>
</tr>
</tbody>
</table>

20 C.G.

- The ideal C.G. position is 85mm (3.35 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.

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.

# BARBERA JEAN 52 is specially designed to be powered by 4C 0.52-0.56 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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. Don’t use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.

# Check and re-tighten up all factory assembled screws, use thread locker if necessary.
After fastening the round nut, make sure that
the linkage connector can rotate freely.

Drill 2mm hole at servo horn.

Insert linkage connector into servo horn.

Make sure shoulder of screw is cleared from servo horn.
Add washer to reduce play if necessary.

Shoulder

Tighten up the round nut against the shoulder. Apply CA or permanent thread locker.

Product Registration Form (US Customers)

We would like to share with you any relevant information regarding your model, including product news and free upgrade parts when applicable. Please fill in the following and send to AirBorne Models, 4749-K, Bennett Drive, Livermore, CA 94551 USA.

1. Name:______________________________________________

2. Address:____________________________________________

3. Phone #:____________________ E-mail:__________________

4. Model:______________________________________________

Wing QC#_________ Fuselage QC#___________________________
(QC numbers are stamped on wing and fuselage)

5. Date of Purchase:_____________________________________

6. Store Name:__________________________________________

Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.
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.
Ducted Fan  
Pattern  
Warbirds  
Funfly  
Scale  
Electric  
Sports  
Glider  
Trainer  
Boat  
Accessories  
Covering  
(Lightex / Toughlon)