SUPER SPORTS 40S

0.40-0.55 cu. in. displacement 2-stroke
0.52-0.56 cu. in. displacement 4-stroke
Requires: 4-channel radio w/ 4 standard servos

Specifications

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>56.5 in / 1440 mm</td>
<td></td>
</tr>
<tr>
<td>Wing Area</td>
<td>574 sq in / 37.0 sq dm</td>
<td></td>
</tr>
<tr>
<td>Flying Weight</td>
<td>5.5 lbs / 2500 g</td>
<td></td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>48.0 in / 1220 mm</td>
<td></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 electric 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.
Super Sports 40S

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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:

- AB: Apply epoxy glue.
- CA: Apply instant glue (C.A. glue, super glue.)
- N.I.: Must be purchased separately!
- L/R: Assemble left and right sides the same way.
- ✔: Ensure smooth non-binding movement while assembling.
- ✂: 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
2. **RING Ø2.3mm** (For Aileron) -- 2 pcs
3. **WING JOINER** -- 6x16x64mm -- 1 pc.
4. **PLYWOOD 3x45x90mm** (Wing Protection) -- 1 pc.
5. **PLYWOOD 3x10x25mm** (For Aileron Servo) -- 1 pc.
6. **FUEL TUBE Ø6x5mm** -- 4 pcs
7. **MOUNTING PLATE** 12x20mm -- 4 pcs
8. **MAIN WHEEL Ø58mm** -- 2 pcs
9. **FUSELAGE** -- 1 pc.
10. **VERTICAL FIN & RUDDER** -- 1 set
11. **FUEL TANK 320cc** -- 1 set
12. **SOCKET HEAD SCREW M3x25mm** -- 4 pcs
13. **FRONT LANDING GEAR** -- 1 set
14. **SOCKET HEAD SCREW M3x25mm** -- 4 pcs
15. **SCREW PB2x12mm** -- 3 pcs
16. **SCREW PB2x14mm** -- 3 pcs
17. **LINKAGE CONNECTOR Ø2.1mm** -- 2 sets
18. **FUEL TUBE Ø6x5mm** -- 2 pcs
19. **SCREW PB2.3x8mm** -- 6 pcs
20. **SOCKET HEAD SCREW M3x22mm** -- 2 pcs
21. **DECALS A049SDEC** -- 1 set

### COVERING:
- LIGHTEX SGX 100 WHITE
- LIGHTEX SGX 311 FERRARI RED
- LIGHTEX SGX 251 SKY BLUE
- LIGHTEX SGX 350 CORSAIR BLUE

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**The World Models Manufacturing Co., Ltd.**

www.theworldmodels.com
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 Wing

Cut out to fit in the aileron servo.

Plywood 3x45x90mm

5 Aileron Servo

N.I.

1.5mm

3mm

6 Aileron Servo

Fuel Tube Ø6x5mm

Straper

Clevis Ring

TWM PL8210010 CLEVIS WRENCH

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A049SPO31241512 P.4
7 Main Landing Gear

Main Landing Gear

PA3x12mm Screw

PA3x12mm

Plate

8 Main Landing Gear

Main Landing Gear

3mm Set Screw

3.1mm Collar

9 Stabilizer & Elevator

Stabilizer & Elevator

PM3x22mm Screw

PM3x22mm

PM3x25mm Screw

d3xD12mm Washer

Washer d3xD12mm

Washer d3xD12mm1

Washer d3xD12mm2

Pre-glued
10 Vertical Fin & Rudder

11 Fuel Tank

Battery Cover
Fuel Tank 320cc
Cable Tie (For Fuel Tank) 1.5x5x400mm
Double-sided Tape 40x100mm

Double-sided Tape 40x100mm
Cable Tie (For Fuel Tank) 1.5x5x400mm

Completed
If the engine throttle control is on the opposite side, install the throttle pushwire accordingly. Install the throttle servo with the drive pinion on the same side of throttle pushwire. Raise throttle servo if necessary to provide clearance between throttle and front wheel pushwires.

Please refer to the attached sheet for usage of the transparent 3D template. First insert the grommet to the cowling then apply screw.
15 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.

16 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.

17 Servo Set

Please refer to the attached sheet for linkage connector installation.
18 Radio Equipment

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

19 Canopy

- Apply double-sided tape
- First insert the grommet to the canopy then apply screw.

20 Main Wing

- Bottom View
21 Wing Setting

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

\[ A = A' \]
\[ B = B' \]
\[ C = C' \]

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

\[ 12\text{mm} \]
\[ 12\text{mm} \]

Rudder

\[ 20\text{mm} \]
\[ 20\text{mm} \]

Aileron

\[ 8\text{mm} \]
\[ 8\text{mm} \]

23 C.G.

The ideal C.G. Position is 78mm (3.07 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.
# 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.

# **SUPER SPORTS 40S** is specially designed to be powered by 2C 0.40 - 0.55 or 4C 0.52-0.56 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. 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.

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**Warning!**

Important Safety Precautions
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.

A049SPO31241512
LINKAGE CONNECTOR
HW7111050 & HW7111060

Drill 2mm hole at servo horn.

Insert linkage connector into servo horn.

Shoulder

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

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

After fastening the round nut, make sure that the linkage connector can rotate freely.

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.

A049SPO31241512
Optional Parts

(ACCESSORIES)

Fuel Filter

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8110030</td>
<td>15 x 22 x 49mm</td>
<td>1 x 1 pc</td>
</tr>
</tbody>
</table>

180mm Extension

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
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</tbody>
</table>

180mm Y-Cord

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW0021800</td>
<td>180mm</td>
<td>1 pc</td>
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</tbody>
</table>

Charge Receptacles

<table>
<thead>
<tr>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0041300</td>
</tr>
</tbody>
</table>

Field Stand

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS9111430</td>
<td>600 x 240 x 310mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8210010</td>
<td>Small Clevis</td>
</tr>
<tr>
<td>PL8210010</td>
<td>Large Clevis</td>
</tr>
</tbody>
</table>

Special tool for clevis installation. Suitable for standard and small (EP)clevis.

Standard Servo

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Speed</th>
<th>Torque</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV4031</td>
<td>0.17 sec / 60° @ 4.8V</td>
<td>3.2kg.cm / 44.8 oz - in @ 4.8V</td>
<td>40.6 x 20 x 37mm / 1.60 x 0.79 x 1.46 in</td>
<td>39.4 g / 1.39 oz</td>
</tr>
</tbody>
</table>
Ducted Fan  Pattern
Warbirds  Funfly
Scale  Electric
Sports  Glider
Trainer  Boat
Accessories
Covering
(Lightex / Toughlon)