Super Stunts 60

0.60-0.75 cu. in. displacement 2-stroke
Requires: 4-channel radio w/ 5 standard servos

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>80 in / 2030 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>1337 sq in / 86.3 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>8.0 lbs / 3550 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>68.5 in / 1740 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

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.

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.)
- **N.I.** Must be purchased separately!
- **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!**
- **Cut off shaded portion.**
- **Pierce the shaded portion covering film.**
- **Warning!** Do not overlook this symbol!
### Parts List

1. **MAIN WING** — 1 pair
2. **SCREW PB2x20mm** — 8 pcs
   - FUEL TUBE ø6x5mm — 8 pcs
   - STRAPER — 4 pcs
   - CLEVIS — 4 pcs
   - HORN — 4 sets
   - PUSHROD ø1.8x165mm w/Threads (For Aileron/Flap Servo) — 4 pcs
3. **SCREW PA3x30mm** — 1 pc.
   - SCREW PM3x30mm — 1 pc.
   - WASHER d3xD12mm — 2 pcs
   - WING TUBE ø25 4x516mm — 1 pc.
4. **STABILIZER & ELEVATOR** — 1 set
   - FUSELAGE — 1 pc.
   - SCREW PM3x22mm — 3 pcs
   - WASHER d3xD7mm — 3 pcs
   - Balsa (Fin Tip) 6x245mm — 1 pc.
5. **VERTICAL FIN & RUDDER** — 1 set
6. **FUEL TANK 380cc** — 1 set
   - Balsa 10x10x109mm (For Fixing Fuel Tank) — 1 pc.
7. **ENGINE MOUNT PL5111070** — 1 set
   - SOCKET HEAD SCREW M4x25mm — 4 pcs
   - WASHER d4xD9mm — 4 pcs
8. **WOODEN 6x9x18mm (For Front Landing Gear)** — 1 pc.
9. **FRONT LANDING GEAR** — 1 set
   - WHEEL ø70mm — 1 pc.
   - COLLAR ø4.1mm w/set screw — 3 sets
   - STEERING ARM ø4.1mm w/set screw — 1 set
   - FRONT WHEEL PUSHWIRE ø1.6x490mm — 1 pc.
   - PLASTIC TUBE d2 5xD4x420mm — 1 pc.
10. **MAIN LANDING GEAR** — 1 set
    - SCREW PB3x12mm — 4 pcs
    - MOUNTING PLATE 12x20mm — 2 pcs
11. **MAIN WHEEL ø70mm** — 2 pcs
    - COLLAR ø4.1mm w/set screw — 4 sets
12. **SOCKET HEAD SCREW M4x30mm** — 4 pcs
    - WASHER d4xD9mm — 8 pcs
    - M4 NUT — 8 pcs
    - SPINNER ø62mm — 1 pc.
    - THROTTLE PUSHWIRE ø1.2x370mm — 1 pc.
    - PLASTIC TUBE d2xD3x220mm — 1 pc.
13. **PLYWOOD 3x6x117.5mm (For Throttle Servo)** — 1 pc.
    - Balsa 8x8x61mm (For Throttle Servo Stand) — 2 pcs
14. **LINKAGE CONNECTOR ø2.1mm** — 2 sets
15. **SCREW PM2x16mm** — 2 pcs
    - M2 NUT — 2 pcs
    - FUEL TUBE ø6x5mm — 2 pcs
    - CLEVIS — 2 pcs
    - HORN (Non Balsa) (For Rudder) — 2 sets
    - RIGGING COUPLER ø1.8x27mm w/Threads (For Rudder) — 2 pcs
    - COPPER TUBE d2 5xD3 2x8mm (For Rudder Servo) — 4 pcs
    - WIRE ø1x1000mm (For Rudder) — 2 pcs
16. **SCREW PB2x16mm** — 2 pcs
    - FUEL TUBE ø6x5mm — 1 pc.
    - HORN — 1 set
    - CLEVIS — 1 pc.
    - PUSHROD ø1.8x920mm w/Threads (For Rudder) — 1 pc.
17. **SPONGE 10x8x200mm (For Radio Equipment)** — 2 pcs
    - STRATER — 1 pc.
    - RIGGING Z BEND ø1.8x27mm (For Rudder Servo) — 2 pcs
    - COPPER TUBE d2 5xD3 2x8mm — 2 pcs
    - FUEL TUBE ø6x5mm — 1 pc.
    - PLYWOOD 6x37x116mm (For Elevator & Rudder Servo) — 2 pcs
    - Balsa 6x37x37mm (For Elevator & Rudder Servo Stand) — 4 pcs
18. **SOCKET HEAD SCREW M4x40mm** — 2 pcs
    - WASHER d4xD15mm — 2 pcs
    - PLYWOOD 3x40x116mm (Wing Protection) — 1 pc.
19. **DECALS A098DEC** — 1 set

**TOUGHON:**
- **TOUGHON STL 100 WHITE**
- **TOUGHON STL 201 BLACK**
- **TOUGHON STL 310 RED**
- **TOUGHON STL 351 DARK BLUE**
Step 1. Insert the aluminum wing tube with the pre-drilled hole end into the right wing. Align the lines marked at the wing root and wing tube, then apply the PM3x30mm machine screw through the pre-drilled hole on top of the wing. (please confirm the alignment of the hole by putting a 2.5mm diameter rod through the pre-drilled wing hole before applying the screw.) The hole on the wing tube is pre-threaded, do not overtighten the PM3 screw, the setup is for future removal of the wing.

Note: It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 2, you pre-tap with M3 thread cutter and apply M3 machine screw.

Step 2. Install the right wing to the left wing. Locate the pre-drilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the Wing tube. Apply the PA3x30mm self-tapping screw.
4 Stabilizer & Elevator

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

Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.

5 Vertical Fin/Rudder

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

Fuel Tank 380cc

Fuel Tank Setup

Balsa 10x10x109mm
(For Fuel Tank Position Fixing)

Fuel Tank 380cc

Top View

7 Engine Mount

M4x25mm Socket Head Screw
4

d4xD9mm Washer
4

Engine Mount
PL5111-070

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

Apply thread locker to screws

8 Front Landing Gear

Wooden
6x9x18mm
9 Front Wheel

- 3mm Set Screw: 3
- 4.1mm Collar: 3

Front View

10 Landing Gear

- PA3x12mm Screw: 4

11 Landing Gear

- 3mm Set Screw: 4
- 4.1mm Collar: 4
**12 Engine**

Illustration is for upright mounting. You can mount the engine inverted simply by rotating the engine mount. Thrust angles will not be affected.

- M4x30mm Socket Head Screw
- d4xD9mm Washer
- M4 Nut

**13 Throttle Servo**

- Plywood 3x57x117.5mm
- Balsa 8x8x61mm

**14 Servo Set**

- 3x3mm Set Screw
- 2mm Nut
- 2mm Washer

Please refer to attached sheet for linkage connector installation.
15 Rudder Pullwire

- Ø 1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-holemarks at side of control surfaces.

16 Elevator Pushrod

- Ø 1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-holemarks at under side of control surfaces.
17 Radio Equipment

- Install Pinch the servo as shown in the diagram.

18 Main Wing

M4x40mm Socket Head Screw

M4x40mm Socket Head Screw

d4xD15mm Washer

Wing Protection 3x40x116mm
19 Setting Wing
Adjust the wing and fuselage configuration as in the diagrams.

The ideal C.G. position is 125mm (4.92in) 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.

20 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
- 15mm
- 15mm

Rudder
- 43mm
- 43mm

Aileron
- 10mm
- 10mm

21 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.

# Super Stunts 60 is specially designed to be powered by 2C 0.60-0.75 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.
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.

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, 2403 Research Drive, Livermore, CA 94550 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.
Optional Parts

**ACCESSORIES**

### 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>
</tr>
</tbody>
</table>

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

### 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>
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</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>

### Fuel Filler

<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>

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

### Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8210010</td>
</tr>
</tbody>
</table>

### Standard Servo

<table>
<thead>
<tr>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV4031</td>
</tr>
</tbody>
</table>

**Speed**
- 0.17 sec / 60° @4.8V
- 0.14 sec / 60° @6.0V

**Torque**
- 3.2kg.cm / 44.8 oz - in @4.8V
- 4.1kg.cm / 57.4 oz - in @6.0V

**Size**
- 40.6 x 20 x 37mm
- 1.60 x 0.79 x 1.46 in

**Weight**
- 39.4 g / 1.39 oz
Ducted Fan Pattern
Warbirds Funfly
Scale Electric
Sports Glider
Trainer Boat
Accessories
Covering (Lightex / Toughlon)