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Glue the balsa junction part (38) to the profiled wing....... 12
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Refine the upper side of the spacers (42).........................14
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Refine the V-tail halves (32) ....................................... 19
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Glue the V-tail (32) to the tail boom (2) ....................... 22

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Glue the bowden cable outer tube (54) ......................... 23
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Sand the fuselage sides until they are smooth .............. 24

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Glue the fuselage lateral plates (15) and fix them with fixing needles ................................................................. 24

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Introduction

Thank you very much for purchasing the Graupner Der kleine UHU. This free-flight is extremely versatile.

Read this manual carefully to achieve the best results with your Der kleine UHU and first of all to safely control your models. If you experience any trouble during operation, take the instructions to help or ask your dealer or Graupner Service Centre.

Due to technical changes, the information may be changed in this manual without prior notice. Be always updated by checking periodically on our website, www.graupner.de to be always updated with the products and firmwares.

This product complies with national and European legal requirements.

To maintain this condition and to ensure safe operation, you must read and follow this user manual and the safety notes before using the product!

NOTE
This manual is part of that product. It contains important information concerning operation and handling. Keep these instructions for future reference and give it to third person in case you gave the product.

Service Centre

Graupner Central Service
Graupner/SJ GmbH
Henriettenstrasse 96
D-73230 Kirchheim / Teck

Email: service@graupner.de

Graupner USA
3941 Park Dr Suite 20-571
El Dorado Hills, CA 95762

Website: www.graupnerusa.com
Phone: +1 855-572-4746
Email: service@graupnerusa.com

Servicehotline

(+49) (0)7021/722-130
Monday - Thursday
9:15 am - 4:00 pm
Friday
9:15 am - 1:00 pm

Graupner in Internet

For the service centers outside Germany please refer to our web site www.graupner.de
Intended use

The Der kleine UHU model is an high performance model for the F1H-kleiner UHU free-flight competition class. If desired, the model can be equipped with an RC system. Note that the construction manual for the two versions, free-flight or RC model, is different.

Read through this entire manual carefully before you attempt to assemble or use the Der kleine UHU.

For any improper use no warranty or liability is accepted.

Graupner/SJ constantly works on the development of all products; we reserve the right to change the item, its technology and equipment.

Target group

The product is not a toy. It is not suitable for children under 14 years. Young people should be cared and helped by experienced model makers while assembling and flying this model. The assembly steps are described as follows and illustrated with assembly photos and sketches.

If you do not have sufficient knowledge about assembling and dealing with aircraft models, please contact an experienced modeler or a model club.

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wingspan:</td>
<td>1330 mm</td>
</tr>
<tr>
<td>Length o.a. approx.:</td>
<td>860 mm</td>
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<tr>
<td>Wing profile:</td>
<td>Graupner 6642</td>
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<tr>
<td>Wing area approx.</td>
<td>14,4 dm²</td>
</tr>
<tr>
<td>Tailplane area approx.</td>
<td>3,3 dm²</td>
</tr>
<tr>
<td>Total surface area approx.</td>
<td>17,7 dm²</td>
</tr>
<tr>
<td>Flight weight approx.</td>
<td>195 g</td>
</tr>
<tr>
<td>Wing load approx.</td>
<td>11 g/dm²</td>
</tr>
</tbody>
</table>

Declaration of conformity

No. 7892, Servo DS 101

Graupner/SJ declares that the product is conform to EU norms.

EMV 2004/108/EC:
EN 61000-6-1:2007
EN 61000-6-3:2007
Symbols explication

Always follow the information marked with the **CAUTION** or **WARNING** symbol. The signal word **WARNING** indicates the potential for serious injury, the signal word **CAUTION** indicates possibility of lighter injuries.

The signal words note and caution indicate potential damages to objects.

Gluing instructions

The included UHU-Holzleim is suitable for all of the required gluing processes. Carbon fiber and steel must be sanded before being glued and an hardening period of many hours is required.

Safety notes

**General**

These safety instructions are intended not only to protect the product, but also for your own and other people’s safety. Therefore please read this section very carefully before using the product!

Do not carelessly leave the packaging material lying around, since it might become a dangerous toy for children.

- Persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, or not capable to use safely the Kleine UHU must not use the model without supervision or instruction by a responsible person.
- Operation and use of radio-controlled models needs to be learned! If you have never operated a model of this type before, start carefully and make yourself familiar with the model’s reactions to the remote control commands. Proceed responsibly.
- Before you start using the remote control model, you have to check the further relevant laws and regulations.
- The user must be sure, before each use of RC model, about the functional safety and the proper condition of the RC model.
- The insurance is mandatory for all kinds of RC model operation.
- If the model is equipped with RC system (RC version), pay attention to the instruction included with the transmitter.
Procedure depending on the version

Depending on whether you want to build the free-flight version or the RC version, the approach is different. If the model is assembled as free-flight version, it cannot be converted to RC version. Therefore pay attention to the related assembly steps sequence. (see diagram)

**Note**

To build the RC version you need the RC conversion kit No. 4616.90 (not included in the kit).
Required tools and facilities (not included)

1. Pencil
2. Balsa cutter No. 980
3. Sanding block (included)
4. Ruler
5. Assembly board No. 504.C.10,0
6. Fixing needles No. 717
7. Adhesive tape No. 531.19
8. Balsa plane No. 737
9. Small flat pliers
10. Scissors
11. Cyano glue No. 5821*
12. Activator No. 953.150*

*only for RC version

Assembly steps 1 to 17 for free-flight and RC version

Glue the angle ledge (36) to the wing edge (34)

Note:
Note that a left and a right half-wing are included. In order to let the wing panels have approximately the same weight, join the balsa components accordingly. Pair the heavier wing ledge (34) or (35) with the lighter parts (36) and (37). Immediately remove the excessing glue.
Glue the rear edge of the wing (37) to the angle ledge (36)

**Note:**
Due to the water content in the UHU glue, the wing edge (37) may become curved in the gluing area. To avoid it, lightly moisten the wing edge gluing area from the top with a kitchen sponge. Immediately remove the excessing glue.

Profile the wing edge (34) with the sanding block

**Note:**
Remove the black marked parts from step B-B with the sanding block. Profile both left and right wing-halves accordingly.
Glue the balsa junction part (38) to the profiled wing

Refine the upper side of the balsa junction part (38)

**Note:**
Refine the balsa junction parts with the balsa cutter first.

- **CAUTION**
- **INJURY RISK, MOVE THE CUTTER ALWAYS IN THE OPPOSITE DIRECTION OF YOUR FINGERS AND HANDS.**

Then sand it parallel to the upper wing side using the sanding block. Therefore the junction part will automatically get the curved outline.

Glue the winglet (39)
Refine the balsa junction part and the lower side of the winglet

7.

Sand the central part of the half-wing until it has a V-form

8.

Glue the V-formed half-wing

9.
Glue the wing binding part (40)

Refine the upper side of the spacers (42)
Draw the fuselage central line

12.

Center the fuselage base (1) on the central line

13.

Glue the bulkheads 3, 4, 5, 6 and the tail boom 2

14.

Note
Check the perpendicular position of the bulkheads with the angle template (48), do not glue the template. Roughen the part of the carbon fiber tube that is going to be glued.
15. Glue the bulkheads (7) and the spacers (8)

16. Glue the fuselage nose (11 - 13) to the fuselage lateral plates (14)

17. Glue the spacers (9, 10)
Assembly steps 18 to 21 only for free-flight version

Glue the trimming weight (33) and the reinforcement (24)

Glue the V-tail rudders

No. 531.19
Refine the V-tail halves (32)

Fix left and right trim rudders
Assembly steps 18 to 23 only for RC version

Glue the servo holder (51)

Refine the V-tail halves (32)

Refine the rudders
Refine the rudders (32), insert the rudder hinges (53)

21.

Note:
Fix the V-tail parts (32) and the inserted rudder hinges (53) by piercing them with the fixing needles. Fill the holes that remain after removing the needles with cyano glue. Immediately remove the excessing cyano glue.

Glue the rudder hinges (53)

22.
Glue the V-tail halves (32)

Assembly step 22 free-flight and 24 RC version

Fix the fuselage and the angle template (46)
Assembly step 23 only for free-flight version

Glue the V-tail (32) to the tail boom (2)

Assembly steps 25 to 27 only for RC version

Glue the V-tail (32) to the tail boom (2)

Assembly step like by the free-flight version (see above), only the distance of the V-tail parts is different. (see the sketch)
Glue the bowden cable outer tube (54)

Insert the pushrods (55), glue the rudder horns (52), install the servos
Assembly step 24 free-flight and 28 RC version

Sand the fuselage sides until they are smooth

Note:
Insert the pins (21 + 22) just to center the side parts. After having fixed the side parts, remove the pins before the glue has hardened.

Assembly step 25 free-flight and 29 RC version

Glue the fuselage lateral plates (15) and fix them with fixing needles
Assembly step 26 free-flight and 30 RC version

Round the fuselage lateral sides, sand the upper side of the fuselage until it is smooth and flat.

Note:
Firstly refine the fuselage lower part with the balsa cutter or with the balsa plane.

CAUTION
INJURY RISK, MOVE THE CUTTER ALWAYS IN THE OPPOSITE DIRECTION OF YOUR FINGERS AND HANDS.
Then round it with the sanding block. (see step A-A)
Then sand the upper part of the fuselage until it is flat.

Assembly step 27 for free-flight version

Glue the canopy parts (17,18) together and flat, glue the cover part (16)
Assembly step 32 only for RC version

Glue the pin (19), glue the canopy cover parts (17,18) together and fix them properly,
Glue the cover part 16

Assembly step 28 free-flight and 33 RC version

Round the upper side of the fuselage and the canopy
Assembly step 29 free-flight and 34 RC version

Glue the towline hook (23) and the pins (21, 22)

Assembly step 30 free-flight and 35 RC version

Glue the cover part (20), fix the surface with rubber bands (43)

Assembly step 31 only for free-flight version

Note

The curve control function in the free-flight version:
Starting point is a trimmed model that flies straight on. The trim rudder (28) is has that scope. After the towing start the curve control is released through an eyelet on the towing start ring (see separate towing start manual) and the model will start to circle because the right trim rudder is pushed under by the trim spring (30) of about 5°.

Shorten the wire (27) from accessory No. 242.

The manual of the "towing starter" are available in the web page of the product.
Insert the wire (27) for curve control in the fuselage, glue the pin (25)

Assembly step 32 only for free-flight version

Bend and glue the trim spring (30)
Assembly step 33 only for free-flight version

Insert the wire (27) in the trim rudder hole and make a knot

Note
The wire must be knotted to the washer (26) with tension. Knot the wire so many times as required to obtain the necessary tension.

Assembly step 36 only for RC version

Install battery and receiver

Note
Detach again the punctually fixed canopy cover from the fuselage through a balsa cutter. Install the RC components as in the scheme above.

The painting
It is not indispensable to paint the model, we however recommend it. Before and after the painting sand the surface with sanding paper No. 700.1. To protect the model against humidity, paint it once or twice with GLATTFIX pore filler.

The decals
Cut out the single writings and apply them to the desired parts of the model, as reference you can use the illustrations on the box. Blacken the canopy with a black pencil.
Assembly step 34 free-flight and 37 RC version

Balance the center of gravity of the model

Assembly step 35 free-flight and 38 RC version

Fly, trim
<table>
<thead>
<tr>
<th>Nr.</th>
<th>Description</th>
<th>Pieces</th>
<th>Material</th>
<th>Dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuselage lower part</td>
<td>1</td>
<td>Balsa</td>
<td>Laser part 6</td>
</tr>
<tr>
<td>2</td>
<td>Tail boom</td>
<td>1</td>
<td>Carbon fiber</td>
<td>Ø 6/4 x 550</td>
</tr>
<tr>
<td>3</td>
<td>Nose bulkhead</td>
<td>1</td>
<td>Plywood</td>
<td>Laser part 3</td>
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<tr>
<td>4</td>
<td>Bulkhead</td>
<td>1</td>
<td>Plywood</td>
<td>Laser part 3</td>
</tr>
<tr>
<td>5</td>
<td>Bulkhead</td>
<td>1</td>
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<td>Laser part 3</td>
</tr>
<tr>
<td>6</td>
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<td>Laser part 3</td>
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<td>7</td>
<td>Bulkhead</td>
<td>1</td>
<td>Plywood</td>
<td>Laser part 3</td>
</tr>
<tr>
<td>8</td>
<td>Spacer part</td>
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<td>Balsa</td>
<td>Laser part 6</td>
</tr>
<tr>
<td>9</td>
<td>Spacer part</td>
<td>1</td>
<td>Balsa</td>
<td>Laser part 6</td>
</tr>
<tr>
<td>10</td>
<td>Spacer part</td>
<td>2</td>
<td>Balsa</td>
<td>Laser part 2</td>
</tr>
<tr>
<td>11</td>
<td>Fuselage nose</td>
<td>2</td>
<td>Balsa</td>
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</tr>
<tr>
<td>12</td>
<td>Fuselage nose with ballast chamber</td>
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<td>Balsa</td>
<td>Laser part 6</td>
</tr>
<tr>
<td>13</td>
<td>Fuselage nose</td>
<td>1</td>
<td>Balsa</td>
<td>Laser part 6</td>
</tr>
<tr>
<td>14</td>
<td>Fuselage reinforcement</td>
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<td>Laser part 3</td>
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<td>Fuselage side part</td>
<td>2</td>
<td>Balsa</td>
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<tr>
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<tr>
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<td>Cover part</td>
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<td>Pin</td>
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<td>Hardwood</td>
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<td>22</td>
<td>Pin</td>
<td>1</td>
<td>Hardwood</td>
<td>Ø 3 x 30</td>
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<td>23</td>
<td>Towline hook</td>
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<tr>
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<td>Reinforcement</td>
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<tr>
<td>25</td>
<td>Pin</td>
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<td>Trim rudder</td>
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<td>Trim spring</td>
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<td>Trim rudder hinge left</td>
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<td>Smooth metal</td>
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<td>32</td>
<td>V-tail, 4 parts</td>
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<td>Balsa</td>
<td>Laser part 2</td>
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<td>33</td>
<td>Self-adhesive trim weight 10 g</td>
<td>3</td>
<td>Iron</td>
<td>23 x 19 x 3</td>
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<td>34</td>
<td>Wing ledge left</td>
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<td>35</td>
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<td>Angle ledge</td>
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<td>550 x 25 x 5</td>
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<td>37</td>
<td>Rear edge</td>
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<td>Laser part 2</td>
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<td>38</td>
<td>Conjunction part</td>
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<td>Balsa</td>
<td>105 x 14 x10</td>
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<td>39</td>
<td>Winglet, 2 pieces</td>
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<td>Balsa</td>
<td>Laser part 2</td>
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<tr>
<td>40</td>
<td>Half-wing joint part</td>
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<td>Carbon fiber</td>
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<tr>
<td>41</td>
<td>Lower spacer part</td>
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<tr>
<td>42</td>
<td>Upper spacer part</td>
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<tr>
<td>43</td>
<td>Rubber ring</td>
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<td>Rubber</td>
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### Parts list No. 4316.90

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<th>Material</th>
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<td>51</td>
<td>Servo holder</td>
<td>1</td>
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<tr>
<td>52</td>
<td>Rudder horn</td>
<td>2</td>
<td>Plywood</td>
<td>Laser part 1,2</td>
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<tr>
<td>53</td>
<td>Rudder hinge</td>
<td>6</td>
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<td>12 x 7 x 0,2</td>
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<tr>
<td>54</td>
<td>Bowden pushrod tube</td>
<td>2</td>
<td>Plastic</td>
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<tr>
<td>55</td>
<td>Rudder wire</td>
<td>2</td>
<td>Steel</td>
<td>Ø 0,5 x 750</td>
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<tr>
<td>56</td>
<td>Blocking part</td>
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<td>Plastic</td>
<td>Ø 1,85/0,9 x 5</td>
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<tr>
<td>57</td>
<td>Servo DS 101</td>
<td>2</td>
<td>Finished unit</td>
<td>17 x 8,5 x 18</td>
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<td>58</td>
<td>Receiver battery 4/300 4,8 V 300 mAh</td>
<td>1</td>
<td>NiMH</td>
<td>58 x 18 x 15</td>
</tr>
</tbody>
</table>

### Recommended accessories (not included)

- No. S1001.DE Transmitter set mz-10 HoTT
- No. 4316.90 RC conversion kit
- No. 6427 Battery charger Multicharger 3 NiMH
- No. 45.3 Towlne elastic wire
- No. 19 Wire parachute
- No. 242 Towlne
- No. 569 Tow start rings
- No. 3663.50 Trim ballast
- No. 207 Glattfix pore filler
- No. 208 Brush
- No. 1409 Spannfix-thinner
- No. 700.1 Sanding paper
Kit content
Assembly parts content

- 33
- 19, 21, 22
- 40
- 25
- 30
- 31

2 x 43
Notes on environmental protection

Disposal notes
This symbol on the product, user manual or packaging indicates that this product must not be disposed of with other household waste at the end of its life. It must be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

The materials are recyclable as marked. By recycling, material reusing or other forms of scrap usage you are making an important contribution to environmental protection.

Batteries and accumulators must be removed from the device and disposed of at an appropriate collection point. Please inquire if necessary from the local authority for the appropriate disposal site.

Care and maintenance

Notes on care
The product does not need any maintenance, it works so as it is without any special care. In your own interests protect it from dust, dirt and moisture.

Warranty

The Graupner, Henriettenstrasse 96, 73230 Kirchheim/Teck grants from the date of purchase of this product for a period of 24 months. The warranty applies only to the material or operational defects already existing when you purchased the item. Damage due to misuse, wear, overloading, incorrect accessories or improper handling are excluded from the guarantee. The legal rights and claims are not affected by this guarantee. Please check exactly defects before a claim or send the product, because we have to ask you to pay shipping costs if the item is free from defects.

The present construction or user manual is for informational purposes only and may be changed without prior notice. The current version can be found on the Internet at www.graupner.de on the relevant product page. In addition, the company Graupner has no responsibility or liability for any errors or inaccuracies that may appear in construction or operation manuals.

No liability can be accepted for printing errors.