



Dieses Modell ist mit Scaleteilen ausgestattet



**Ord.No. 11/60**  
Rohrschneider  
für Rohre bis ø 15 mm  
auch zum Bördeln geeignet



**Ord.No. 11/31**  
Schneidezange für Stahldraht



**Ord.No. 11/26**  
Scheibenschere



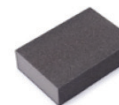
**Ord.No. 11/59**  
Schneidewerkzeug:  
Skalpell & Stahllineal  
**Ord.No. 11/58**  
Skalpell



**Ord.No. 90/10**  
Feilen-Set mit Griff  
6-teilig



**Ord.No. 11/28**  
Schmirkelfeile 25 cm, gerade



**Ord.No. 10/77**  
Schleifschwamm



**Ord.No. 10/76**  
Schleifgrundierung



**Ord.No. 11/29**  
Widia-Trennscheibe  
inkl. Aufspanndorn



**Ord.No. 11/36**  
Trennscheiben-Satz  
5 Stück



**PERMA-GRIT®**  
**Ord.No. 90/57**  
Trennscheibe ø 19 mm  
**Ord.No. 90/56**  
Trennscheibe ø 32 mm  
jeweils inkl. Aufspanndorn



**PERMA-GRIT®**  
**Ord.No. 90/54**  
Rundfeile ø 4 mm fein  
**Ord.No. 90/55**  
Schleifstift Dorn ø 7 mm

### PERMA-GRIT®



**Ord.No. 90/51**  
Handfeile viereckig ø 6 mm  
**Ord.No. 90/49**  
Handfeile rund ø 6 mm  
**Ord.No. 90/50**  
Handfeile halbrund



**Ord.No. 90/47**  
Handfeile flach  
**Ord.No. 90/52**  
Handfeile viereckig  
**Ord.No. 90/48**  
Handfeile rund ø 12 mm



**Ord.No. 90/53**  
Schleifklotz abgeschrägt



**Ord.No. 90/40**  
Nadelfeilen-Set, bestehend aus:  
**Ord.No. 90/46** Handgriff  
**Ord.No. 90/41** Feile dreikant  
**Ord.No. 90/42** Feile flach  
**Ord.No. 90/43** Feile rund  
**Ord.No. 90/44** Feile halbrund  
**Ord.No. 90/45** Feile viereckig



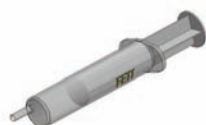
**Ord.No. 11/64**  
Lochfräser  
bis ø 16 mm



**Ord.No. 11/43**  
Schälbohrer mit Handgriff  
bis ø 14 mm



**Ord.No. 11/0**  
Set: **Ord.No. 11/1 - 11/6**



Vario Extrem Fett **Ord.No. 10/360**  
Vario Extrem Grease **Ord.No. 10/360**

Schraubensicheruni: **Ord. No. 10/ 23**  
hochfest, grün, 10 ml



Schraubensicheruni: **Ord. No. 10/ 24**  
mittelfest, blau, 10 ml



**Ord.No. 10/123**  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)



**Ord.No. 623**  
Poxan 30, 10 g



### Klebstoffe

Aktivatorspray, 10 ml  
Speedy Combine Pulver, 40 ml  
Reiniger für Sekundenkleber, 20 ml  
Sekundenkleber, schwarz, 20 ml  
Sekundenkleber, 20 ml  
für glasklare Verklebungen  
Sekundenkleber dickflüssig  
Sekundenkleber dünnflüssig  
UHU plus endfest 300, 33 ml  
UHU plus endfest 300, 53 ml  
Mischdüsen  
5 Stück  
WELDYX Expert Kleber, 25 ml  
Dosierpistole

**Ord. No. 10/29**  
**Ord. No. 10/124**  
**Ord. No. 10/89**  
**Ord. No. 10/126**  
**Ord. No. 10/128**

**Ord. No. 10/125**  
**Ord. No. 10/127**  
**Ord. No. 10/27**  
**Ord. No. 10/3**  
**Ord. No. 10/5**

**Ord. No. 10/130**  
**Ord. No. 10/1**



**Spiralbohrer 1,2 mm Ord.No. 11/96**  
Wir führen Spiral- und Gewindebohrer in  
allen für die Arbeit am Modellhubschrauber  
notwendigen Größen von 1,0 bis 8,0 mm

**Twist drill 1.2 mm Ord.No. 11/96**  
We supply all required sizes of drills and  
taps for the work on your model helicopter.

Mit **Ord.No.** versehende Teile gehören nicht zum Bausatz und  
müssen separat unter der jeweiligen **Ord.No.** bestellt werden.

Sehr geehrter Kunde,  
der von Ihnen erworbene Bausatz enthält entsprechende Teile zur Erstellung eines funktionsfähigen Flugmodells.  
Auf Zusammenbau, Einstellungen und Inbetriebnahme haben wir keinen Einfluß und weisen daher noch ausdrücklich darauf hin, daß Ihre individuelle Vorgehensweise einzig und allein auf Ihrem Kenntnisstand und Beurteilungsvermögen beruht.  
Die Bauplanmappe dient dabei als entsprechende Orientierung, jedoch nicht als maßgeblicher Weg:  
Unterschiedliche Vorgehensweisen können zum Ziel führen.  
Prüfen Sie vor jedem Bauabschnitt sorgfältig Ihr Vorhaben und entscheiden Sie eigenverantwortlich über Ihren persönlichen Weg.

Dear customer,  
The kit you have purchased contains the components required to build a model aircraft which is capable of flying.  
We have no influence over the methods you use to assemble, set up and operate the model, and for this reason we are obliged expressly to point out to you that the methods you use rely solely on your own knowledge, experience and analytical ability.  
The Plan Folder is designed to help you in this undertaking, but it does not represent a unique way of proceeding:  
There are more ways than one to reach a particular destination. Before you start each stage of construction, check carefully what you intend to do, and accept the responsibility to decide on your own personal method.

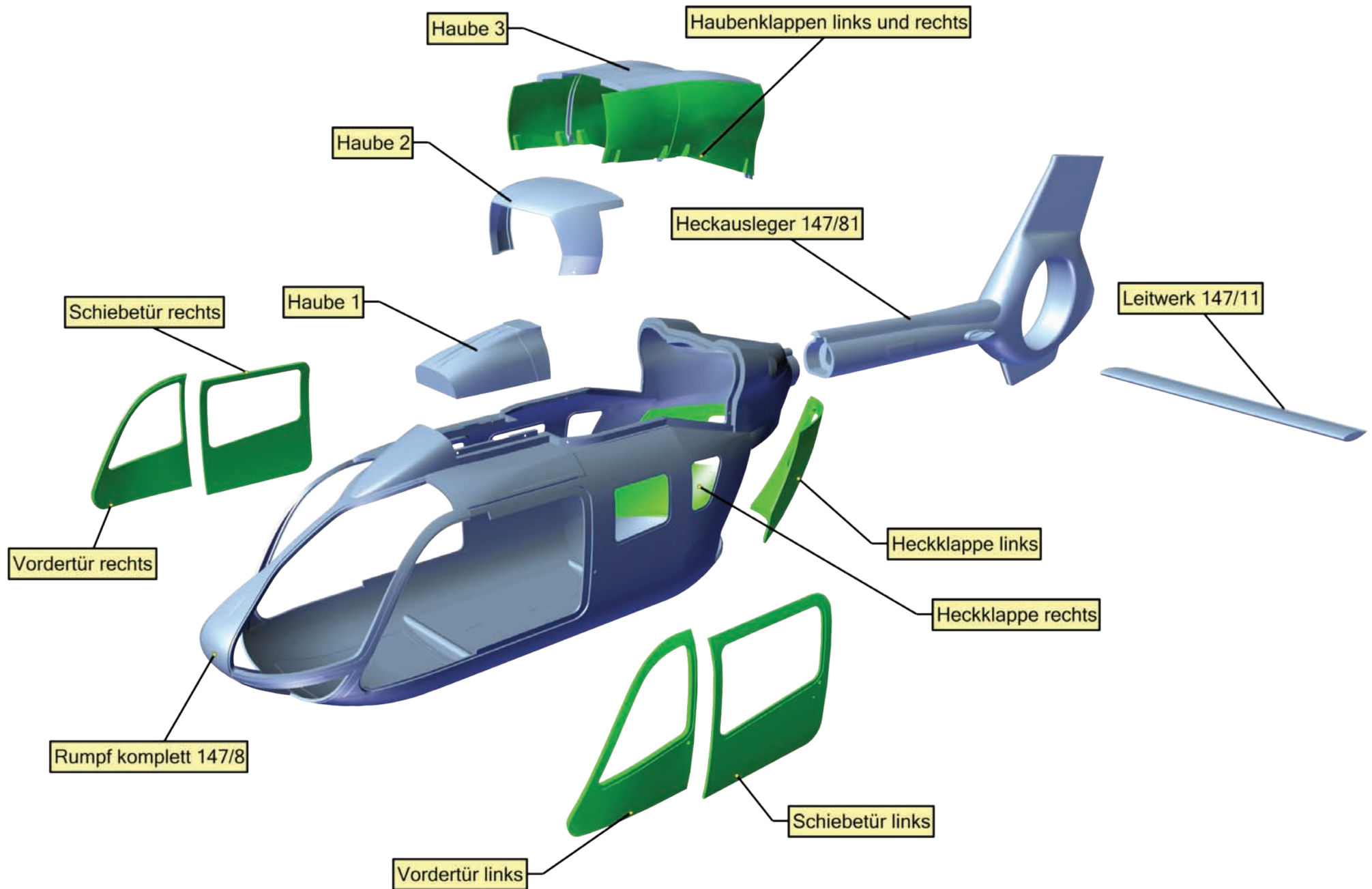
Spettabile cliente,  
la scatola di montaggio da voi acquistata contiene le parti necessarie per la costruzione di un modello funzionante, in grado di volare.  
Per quanto riguarda i metodi per il montaggio, la messa a punto e la messa in funzione noi non abbiamo nessuna influenza e vogliamo sottolineare esplicitamente che il vostro modo d'agire dipende soltanto dal vostro livello di conoscenza e dalla vostra capacità di valutazione. Le istruzioni di montaggio servono solo per un migliore orientamento e non rappresentano l'unico modo di procedere: diversi sono i modi di procedere che possono dare l'effetto desiderato.  
Prima di realizzare ogni fase di lavoro verificate attentamente il vostro progetto e scegliete in maniera responsabile il vostro obiettivo.

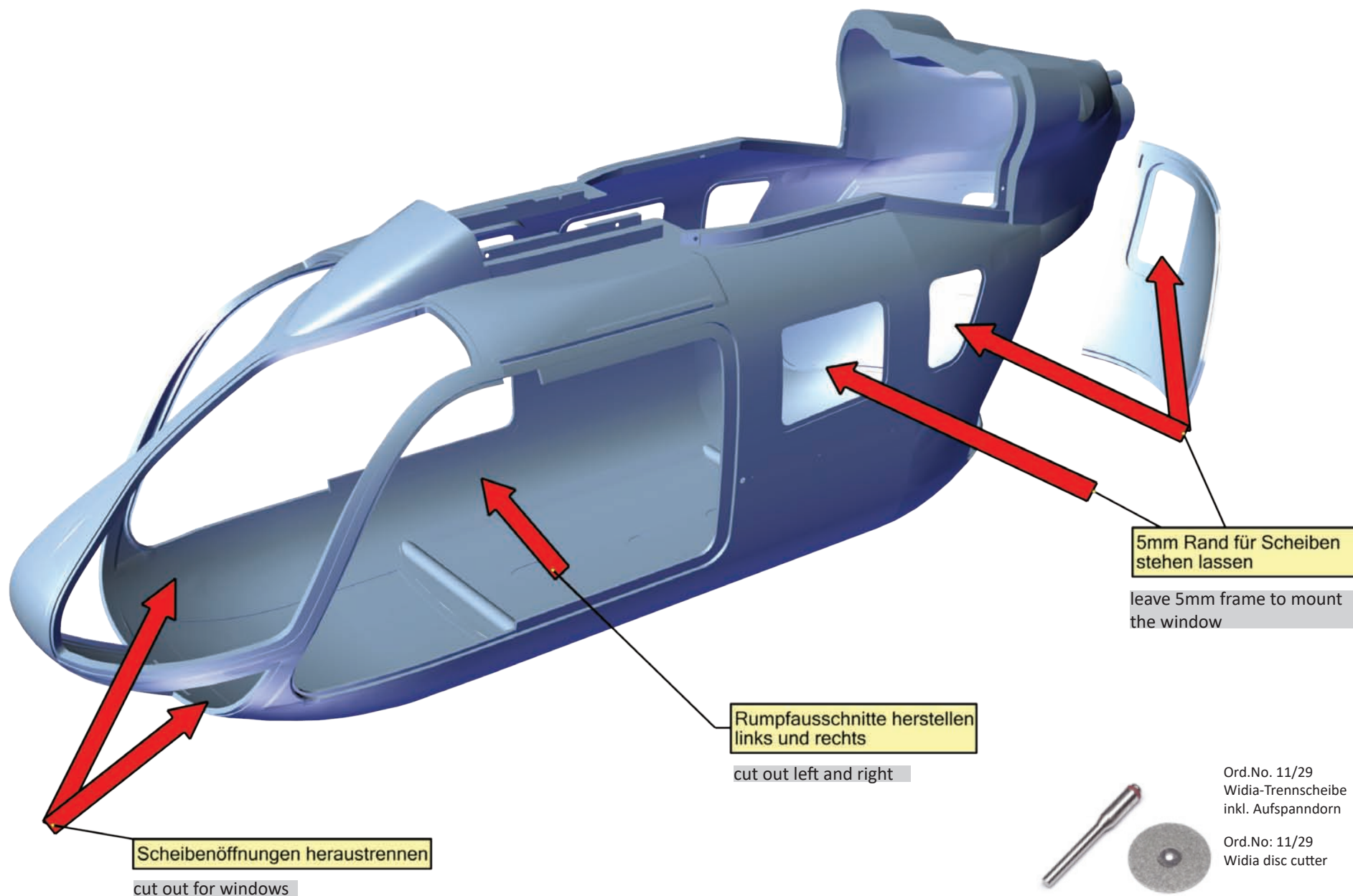
Cher Client,  
La boîte de construction que vous avez acquise, comprend tous les composants nécessaires pour la réalisation d'un modèle d'hélicoptère fonctionnel.  
Nous n'avons pas d'influence sur la manière dont vous assemblez, ajustez, et mettez en service ces composants. Nous vous informons donc expressément que votre façon de procéder dépend uniquement et exclusivement de vos connaissances, compétences et jugements. Le cahier de plans sert de guide d'orientation, mais ne trace pas un chemin exclusif: Différentes méthodes d'opération peuvent mener au même résultat. Vérifiez avant chaque stade de construction le but à atteindre et choisissez le chemin qui vous semble le plus approprié.

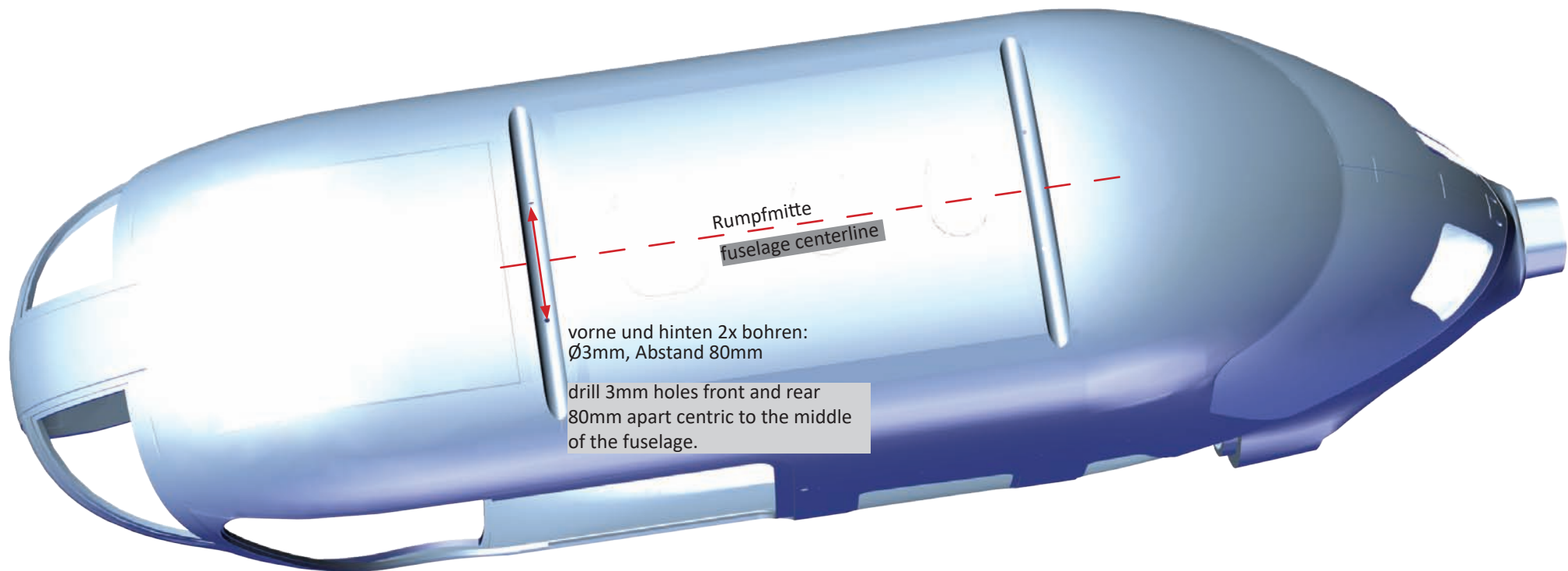
Geachte klant,  
De door uw gekochte bouwdoos bevat alle onderdelen om een functionerend vliegmodel te maken. Op het bouwen, afstellen en het in gebruik nemen van uw model hebben wij geen invloed, en wij wijzen er nadrukkelijk op, dat uw individuele zienswijze alleen op uw kennis en beoordelingsvermogen berust.  
De bouwtekening dient daarbij alleen als een oriëntering, echter niet als een dwingend advies. Verschillende bouwconstructies kunnen tot hetzelfde doel leiden.  
Test elke bouwfase zorgvuldig, en beslis over uw eigen verantwoordelijkheid m.b.t. het in gebruik nemen van uw model.

## Zum Bau empfohlenes Zubehör / Further required components:

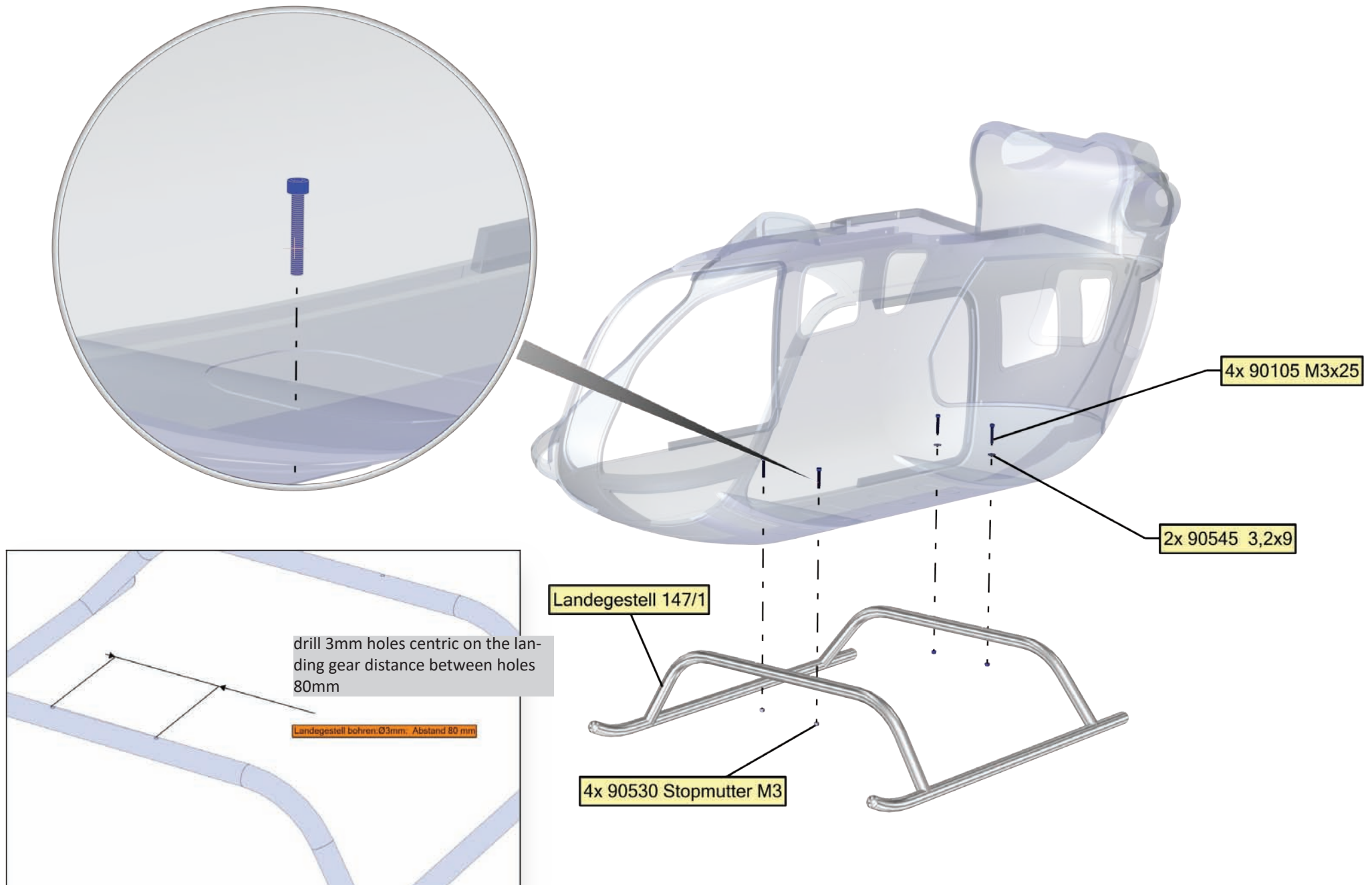
|                                   |                                                                                                                                                                  |                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Ord.No. 1002/1000</b>          | Mechanik                                                                                                                                                         |                                      |
| <b>Ord.No. 3323</b>               | Elektroantriebsset H145 T2<br>Motor Kontronik Pyro 800/40 + Regler Kontronik Jive Pro 120+HV und<br>alle benötigten mechanischen Antriebsteile + Montagematerial | electric drive set H145 T2           |
| <b>Ord.No. 510/101</b>            | Heckabtriebsset Fenestron Mechanik                                                                                                                               |                                      |
| <b>Ord.No. 147/35</b>             | Rotorwelle                                                                                                                                                       | rotor shaft                          |
| <b>Ord.No. 68/50</b>              | Taumelscheibenmitnehmer                                                                                                                                          | swashplate driver                    |
| <b>Ord.No. 93/45</b>              | 10-Blatt-Fenestron CFK                                                                                                                                           | 10-blade fenestron                   |
| <b>Ord.No. 92/76</b>              | Fenestrongetriebe                                                                                                                                                | fenestron                            |
| <b>Ord.No. 704/37</b>             | 4-Blatt-Hauptrotorkopf                                                                                                                                           | 4-blade main rotor head              |
| <b>Ord.No. 707</b>                | Scale-Rotorkopfdeckung                                                                                                                                           | scale rotor head cover               |
| <b>Ord.No. 404/63</b>             | 4-Blatt-Satz                                                                                                                                                     | 4-blade set                          |
| <b>Ord.No. 70/60-4</b>            | Gestänge Set Rotorkopf                                                                                                                                           | pushrod set rotor head               |
| <b>Ord.No. 3272 / 3273 / 3274</b> | Bavarian Demon 3X / 3SX / AXON Flugstabilisierungs-Elektronik                                                                                                    | Flybarless system                    |
| <b>Ord.No. 5157</b>               | Servo Futaba BLS 452                                                                                                                                             |                                      |
| <b>Ord.No. 998</b>                | Fernsteuerzubehör-Set inkl. 5 Servos Futaba BLS 452, Schalter + Zubehör                                                                                          |                                      |
| <b>Ord.No. 5156</b>               | Servo JR DS8411                                                                                                                                                  |                                      |
| <b>Ord.No. 995</b>                | Fernsteuerzubehör-Set inkl. 5 Servos JR DS8411, Schalter + Zubehör                                                                                               |                                      |
| <b>Ord.No. 3206</b>               | Empfänger LiPo Akku 2S 3800 mAh<br>3x LiPo Akku 6S 10.000-12.000 mAh                                                                                             | 3x LiPo battery 6S 10.000-12.000 mAh |
| Scale-Zubehör:                    |                                                                                                                                                                  |                                      |
| <b>Ord.No. 147/29</b>             | Cockpit mit Innenverkleidung                                                                                                                                     | Cockpit and inner couver             |
| <b>Ord.No. 147/5</b>              | Türbeschlagsatz komplett                                                                                                                                         | Door fitting set                     |
| <b>Ord.No. 134/624</b>            | Türgriffe                                                                                                                                                        | Door handles x4 1:6                  |
| <b>Ord.No. 147/615</b>            | Haubenverschluss                                                                                                                                                 | Quick release latch                  |
| <b>Ord.No. 147/62</b>             | Stator                                                                                                                                                           | Stator                               |
| <b>Ord.No. 147/601</b>            | Hutzenset                                                                                                                                                        | Air cowls set                        |
| <b>Ord.No. 147/56</b>             | Patiententrage                                                                                                                                                   | Patient stretcher                    |
| <b>Ord.No. 147/605</b>            | Lufteinlass                                                                                                                                                      | Air inlet                            |
| <b>Ord.No. 147/610</b>            | Antennenbügel                                                                                                                                                    | VOR antenna                          |
| <b>Ord.No. 147/611</b>            | Heckantenne                                                                                                                                                      | Tail antenna                         |
| <b>Ord.No. 147/612</b>            | Antenne Heckausleger                                                                                                                                             | Antenna tail boom                    |
| <b>Ord.No. 20/35</b>              | Turbinenattrappe                                                                                                                                                 | Turbine outlet 42 mm                 |

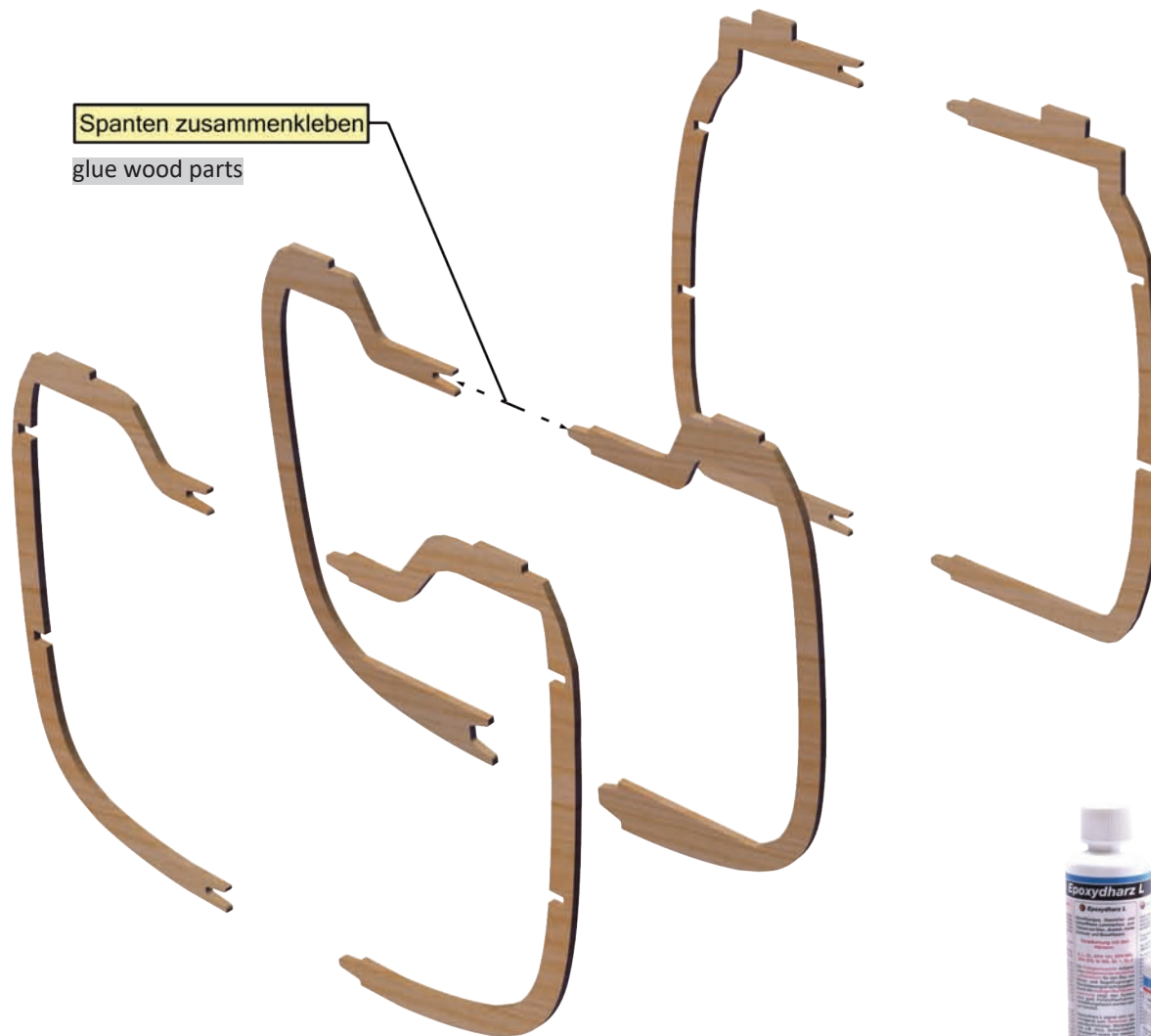






Ord.No. 11/98 Spiralbohrer 3mm  
Ord.No. 11/98 Twist drill 3.0 mm

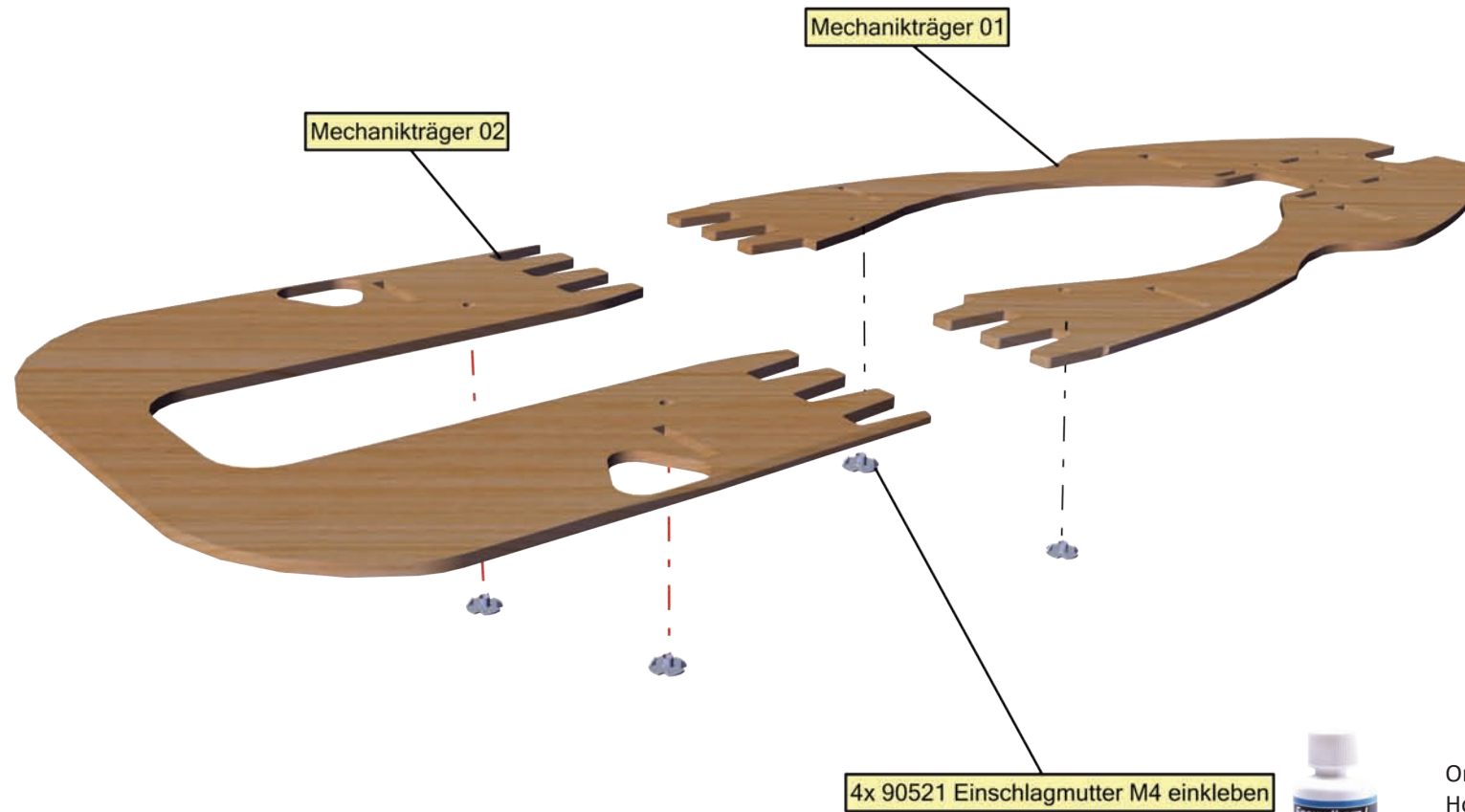




Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)



Ord.No. 623  
Poxan 30, 10 g



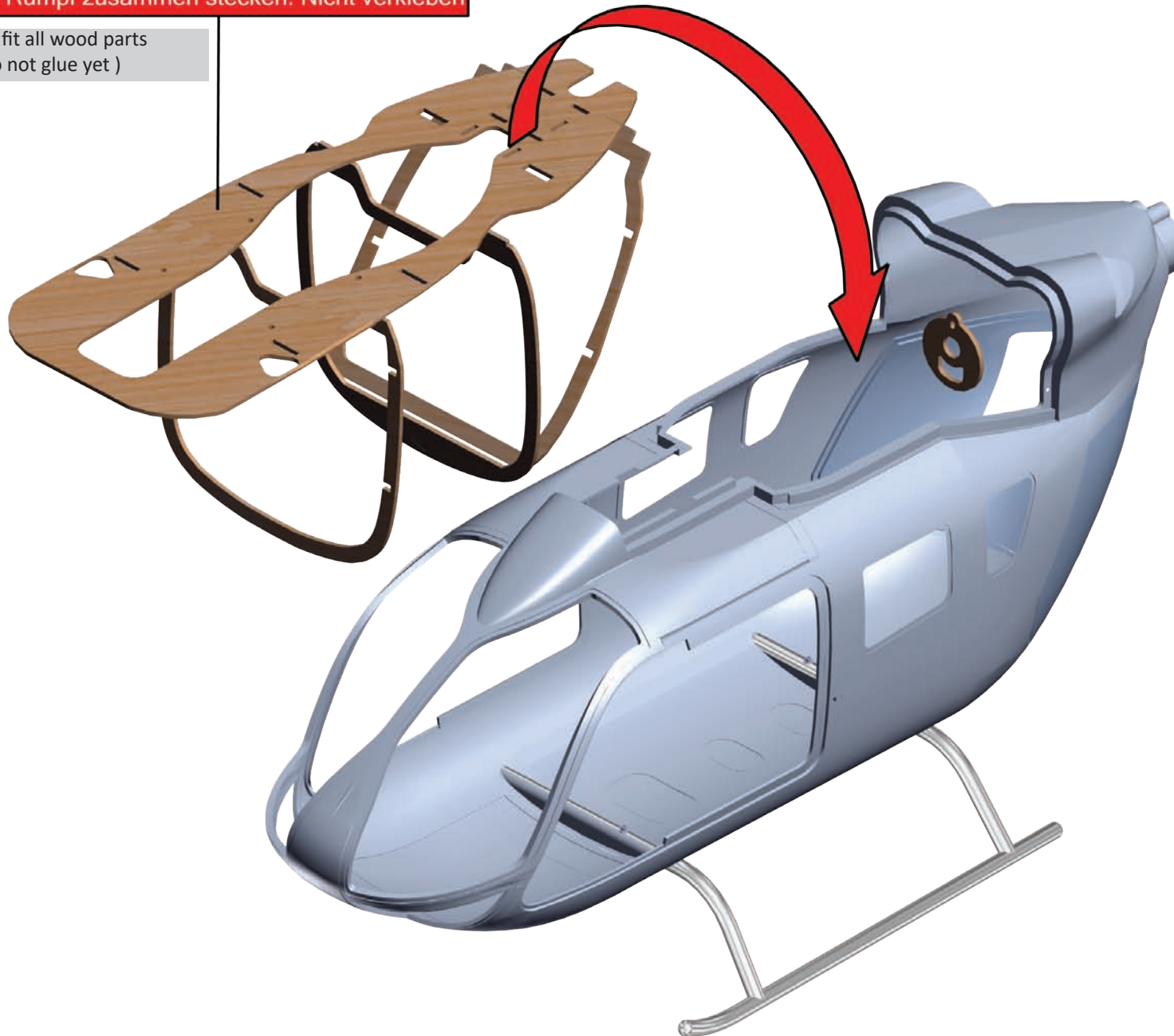
Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)



Ord.No. 623  
Poxan 30, 10 g

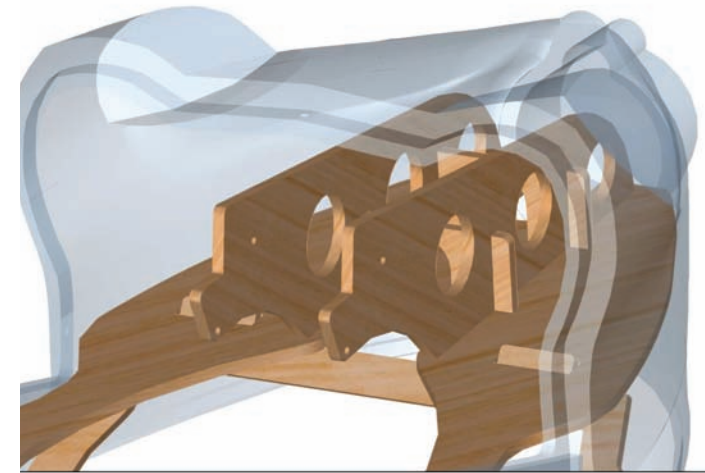
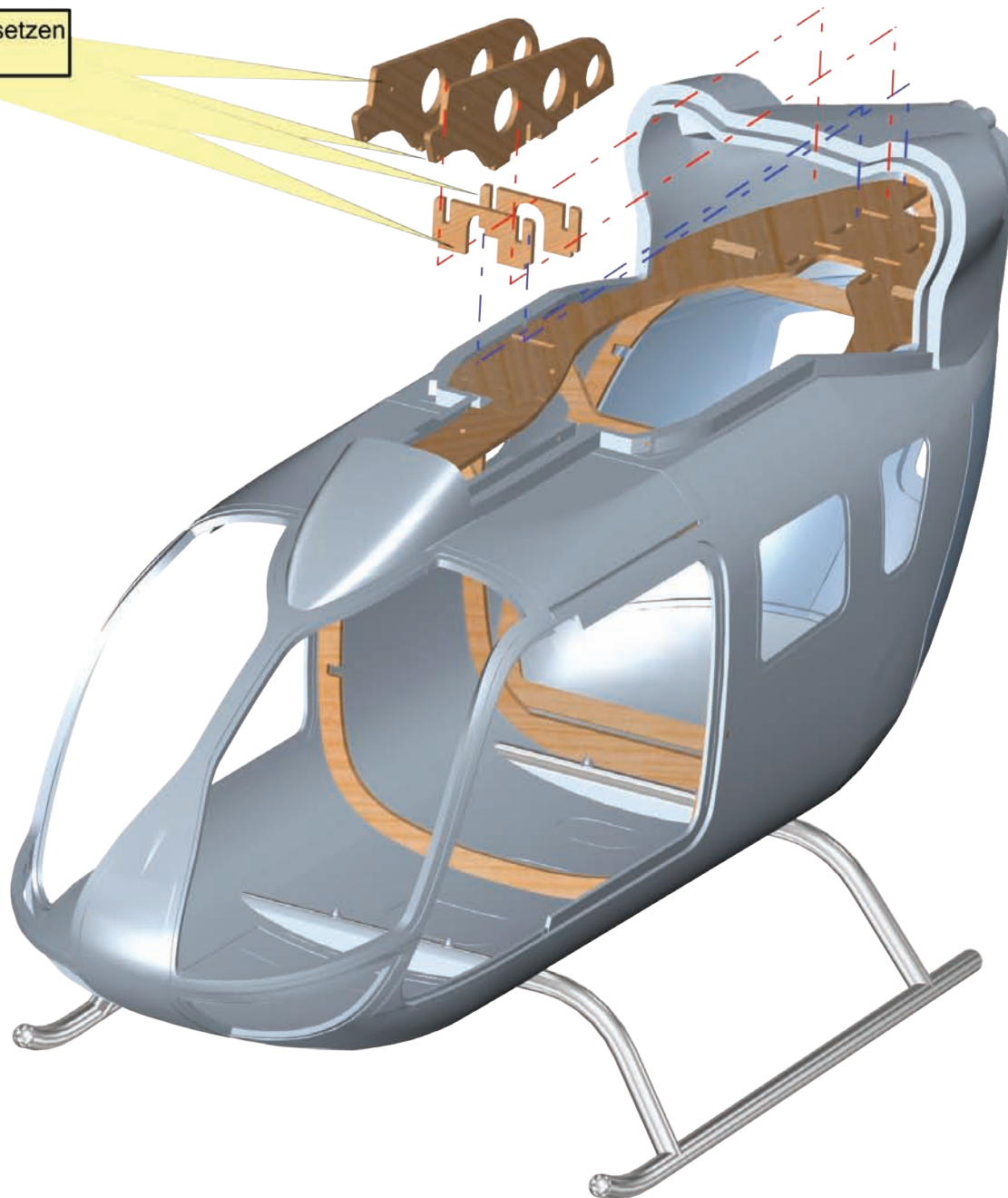
Mechanikträger und Heckspant lose  
im Rumpf zusammen stecken. Nicht verkleben

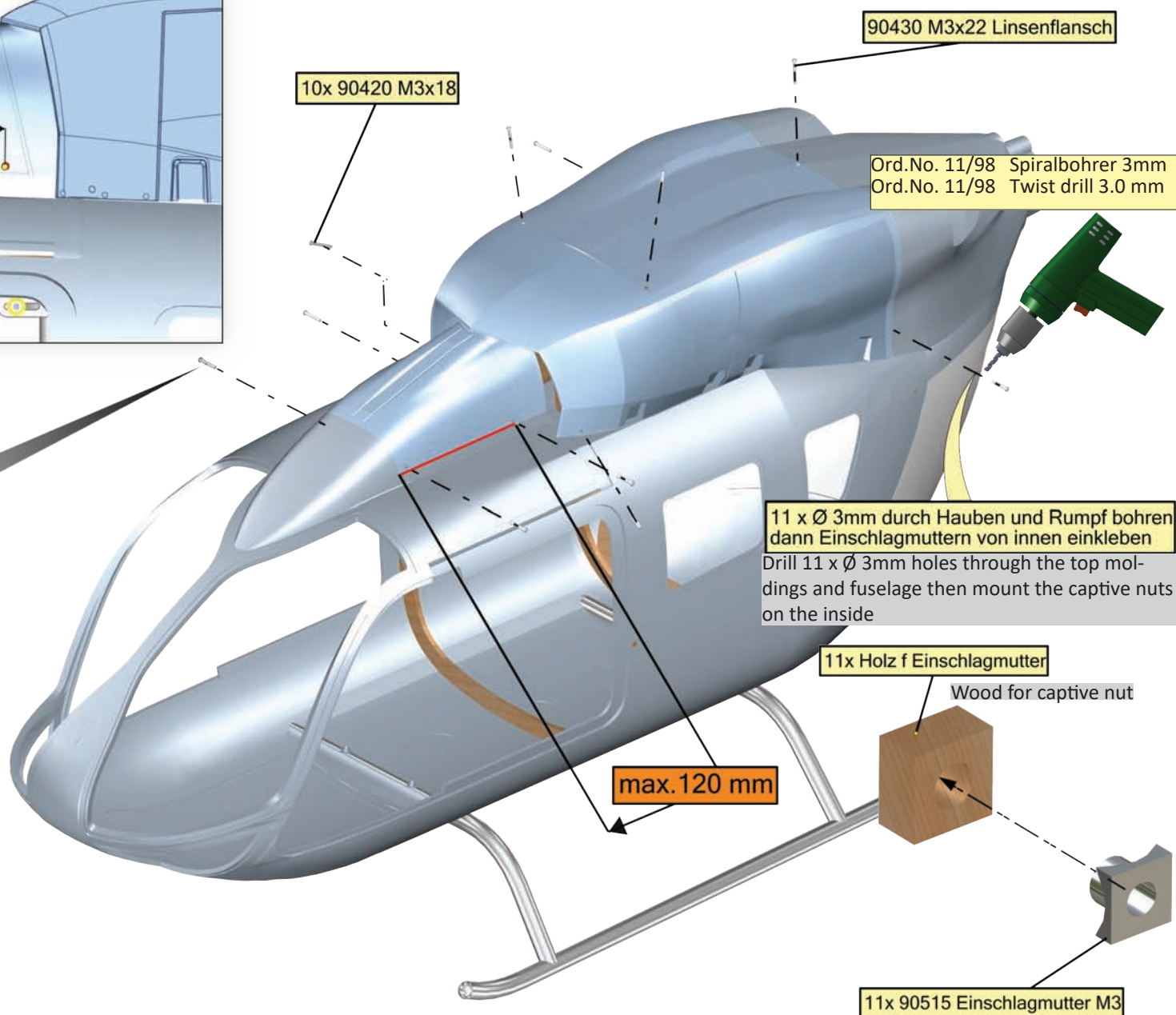
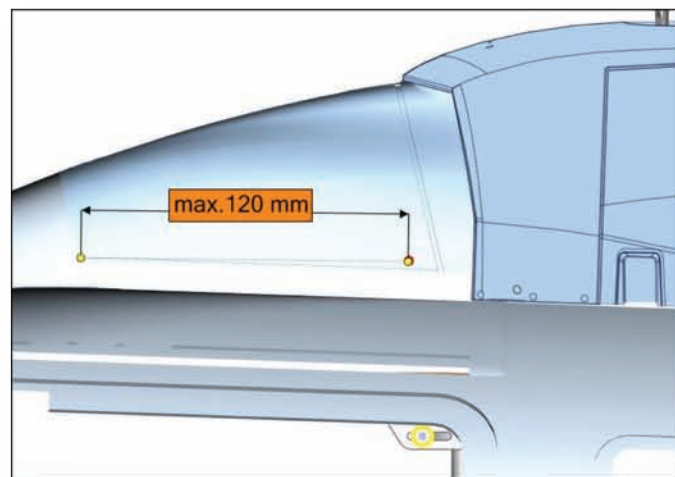
dry fit all wood parts  
( do not glue yet )



Spannen nur lose einsetzen  
nicht verkleben

dry fit all wood parts  
( do not glue yet )

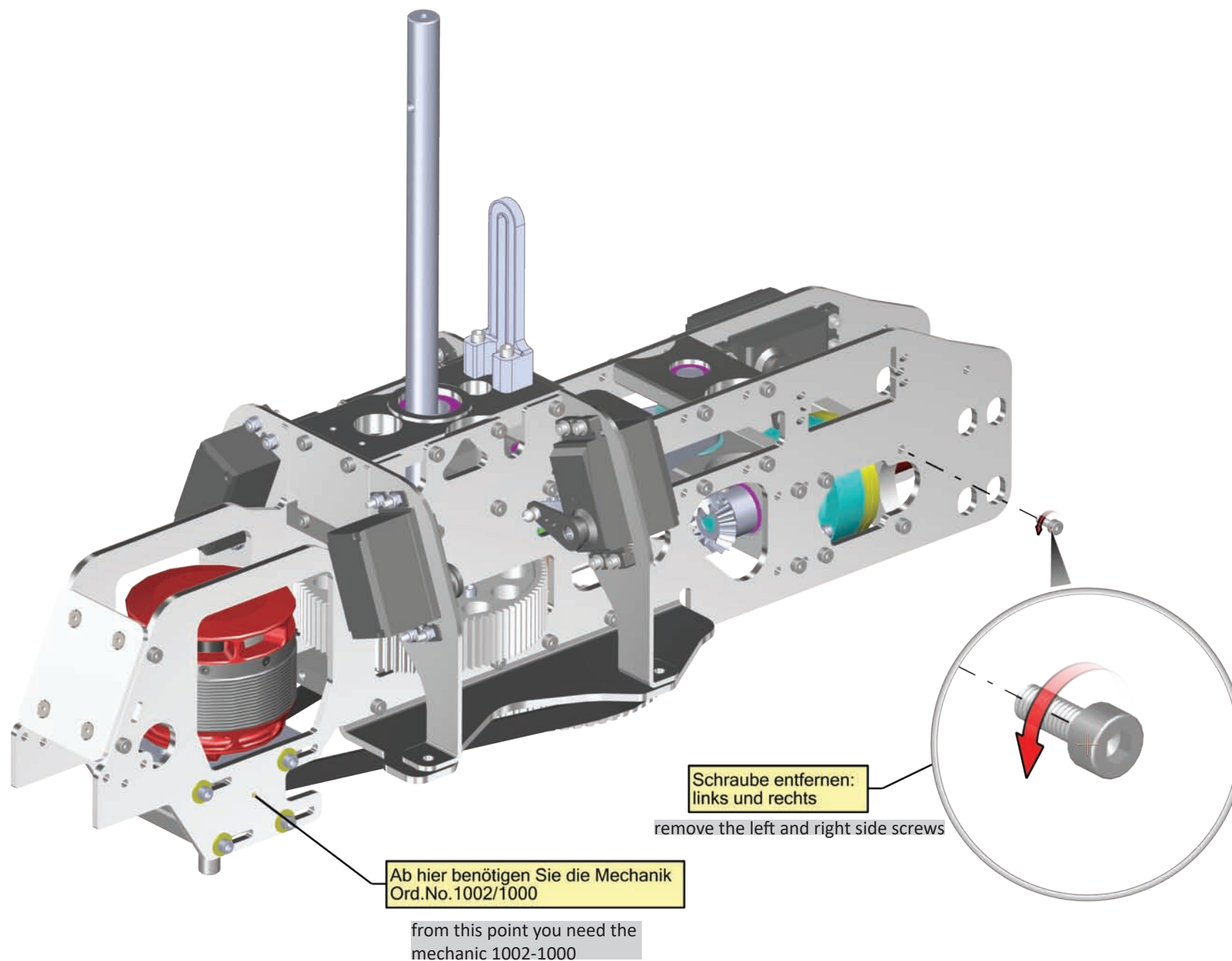


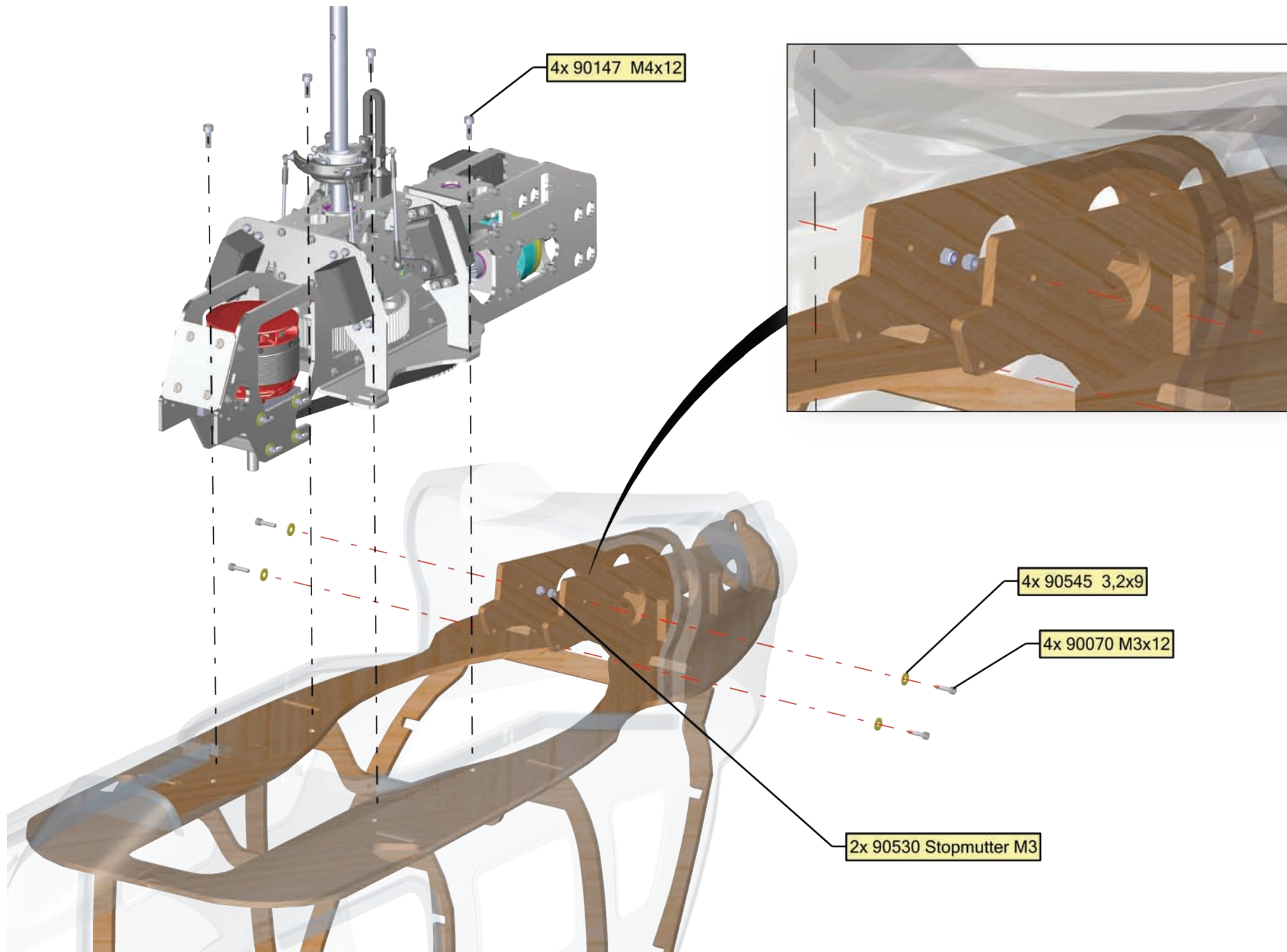


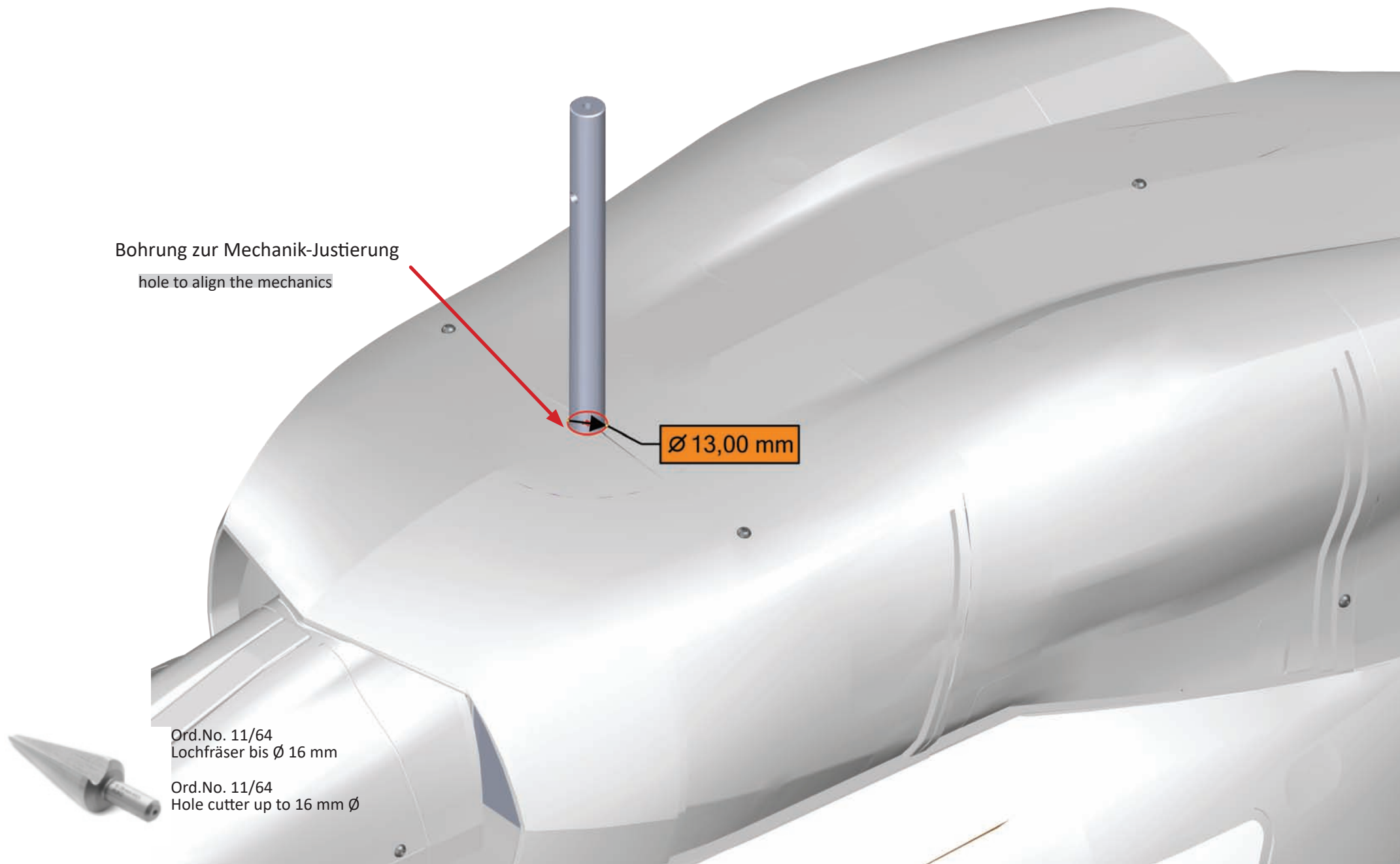
Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)

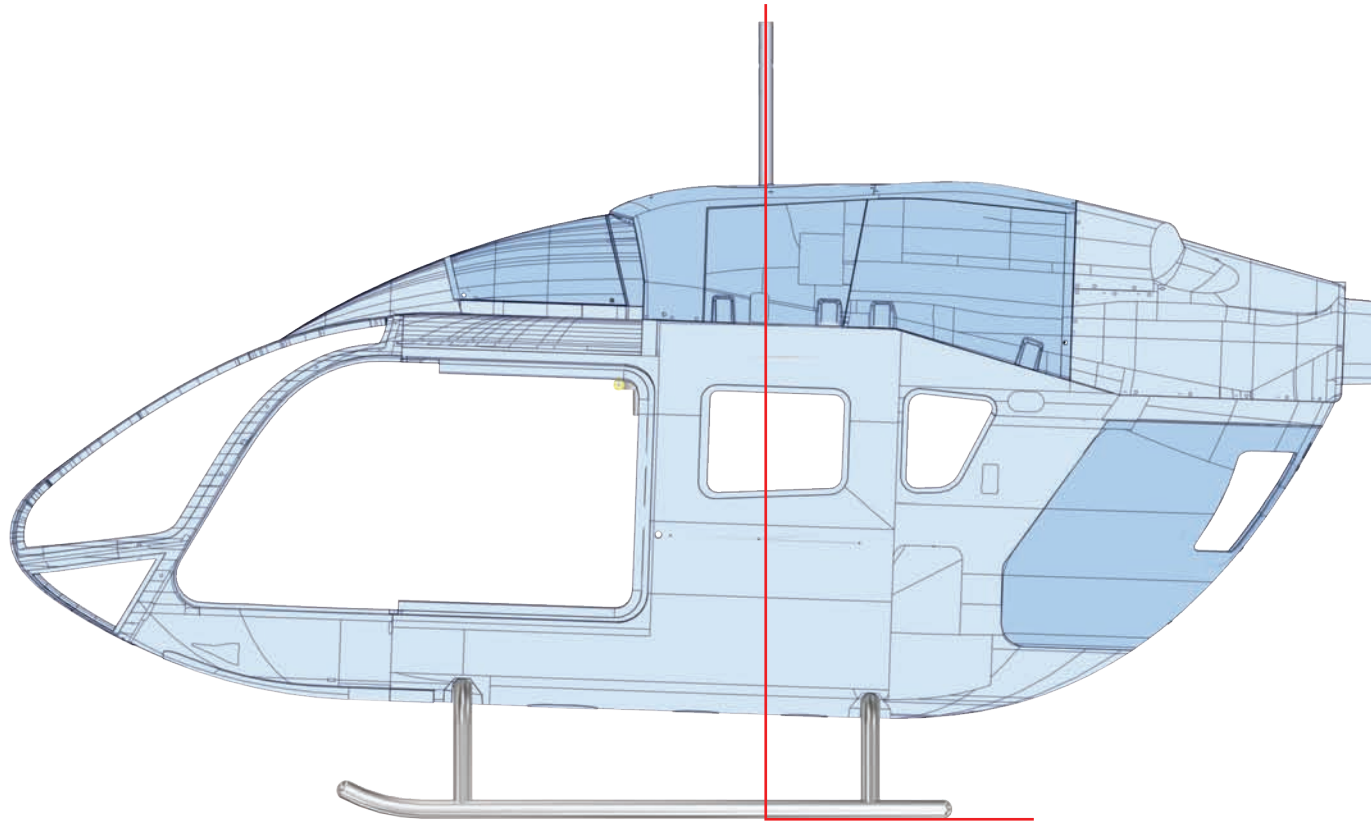


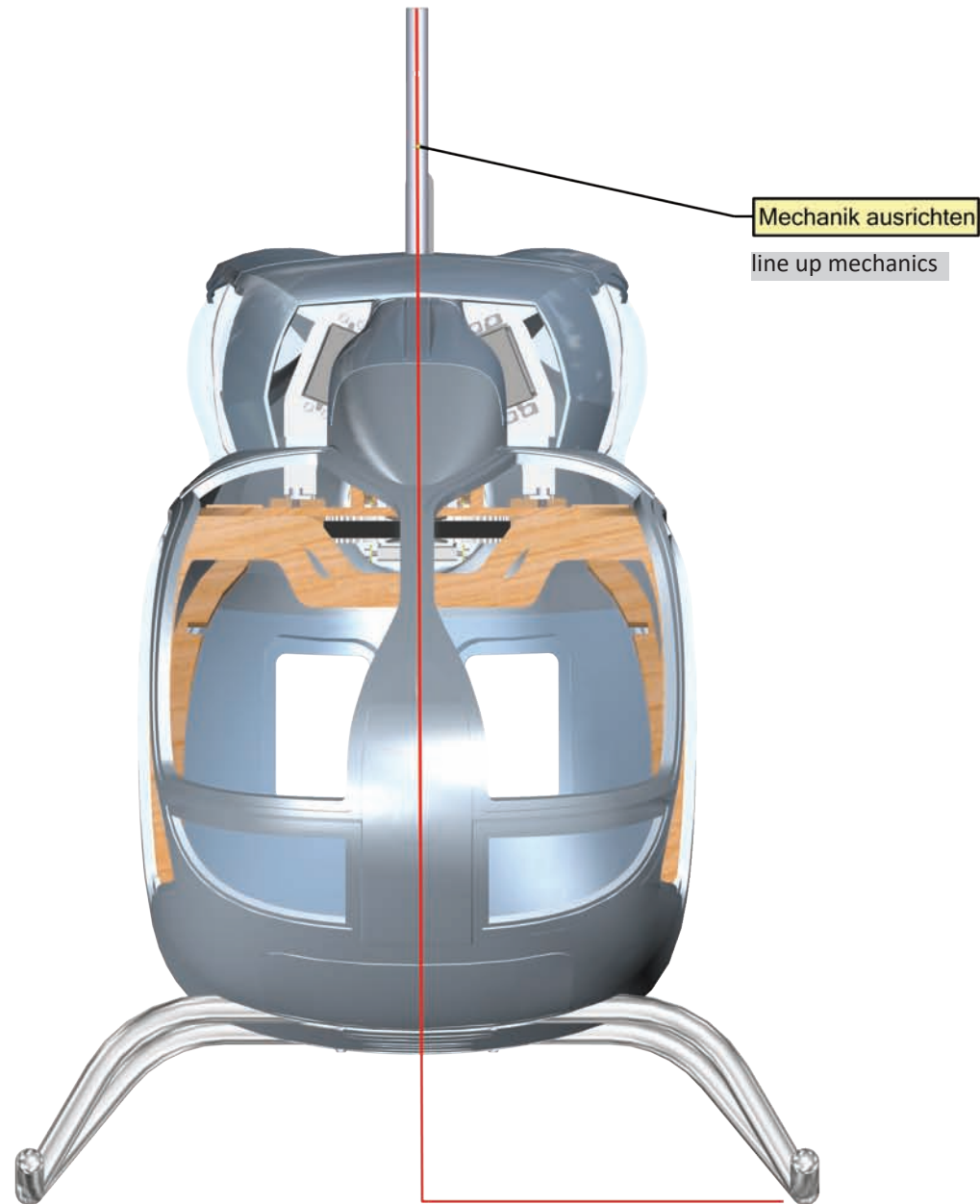
Ord.No. 623  
Poxan 30, 10 g





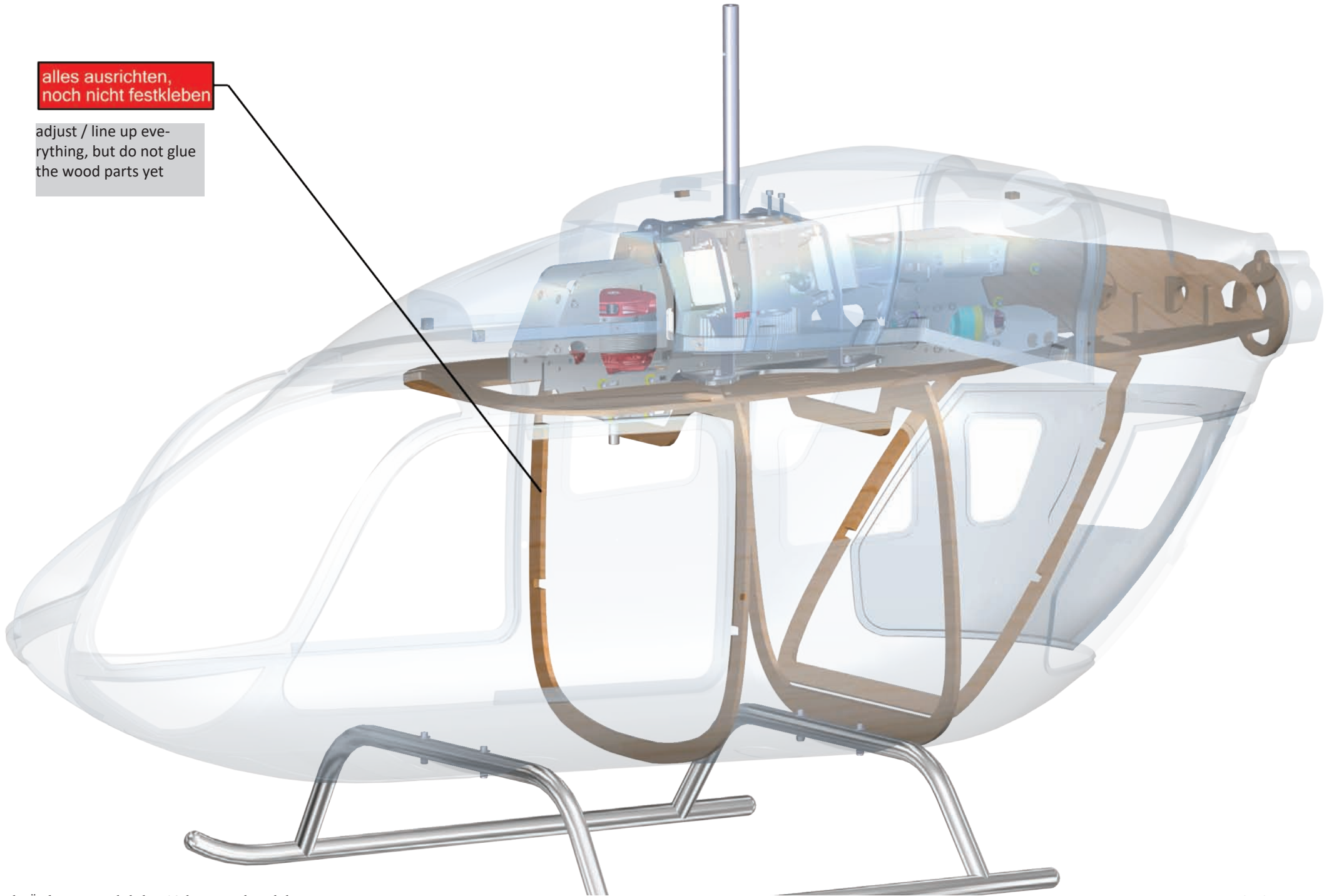


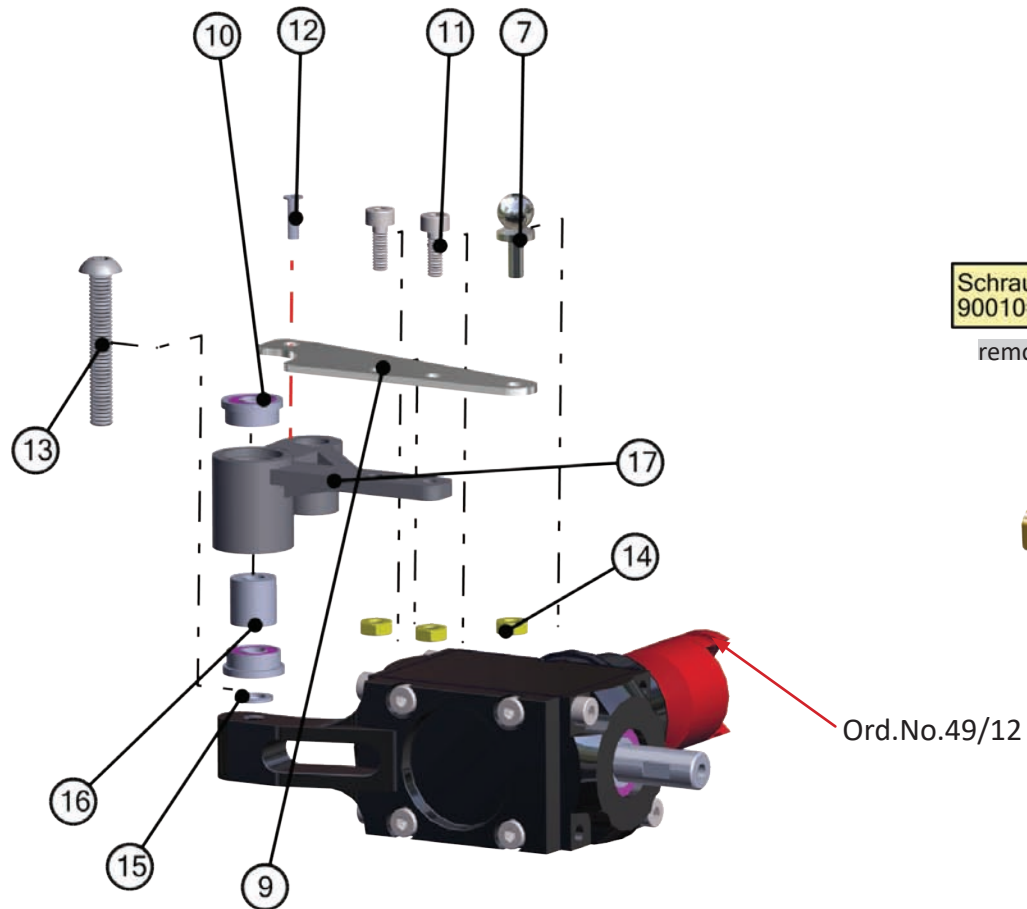




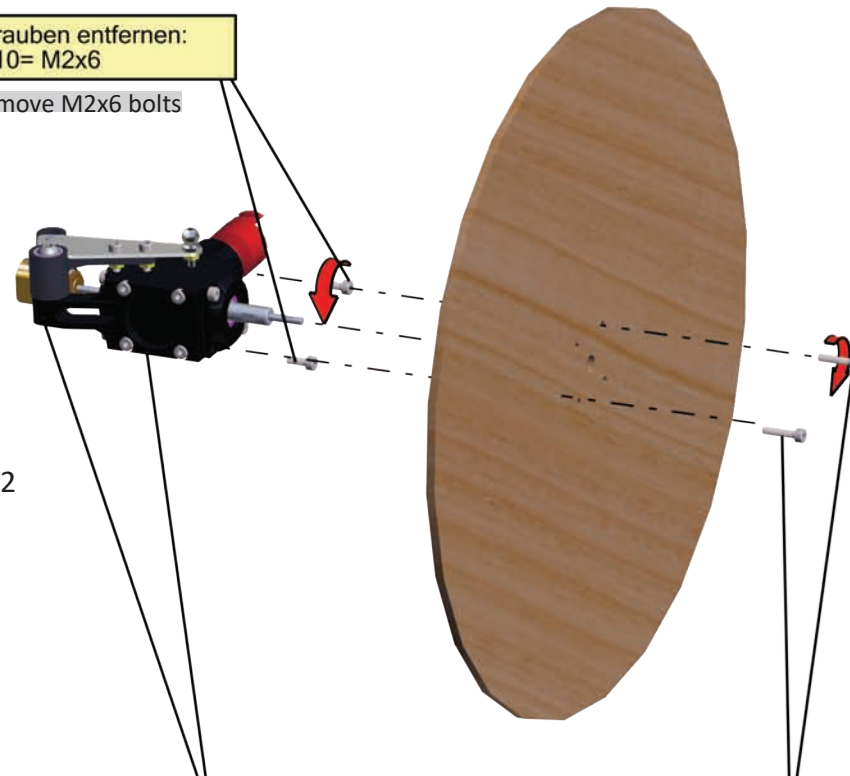
alles ausrichten,  
noch nicht festkleben

adjust / line up eve-  
rything, but do not glue  
the wood parts yet





Schrauben entfernen:  
90010= M2x6  
remove M2x6 bolts



Fenestron Winkelgetriebe Ord.No.92/76

2 Schrauben 90019 M2 x 12 nicht sichern  
m2x12 for mounting the jig

| Pos.No. | Ord.No.                | Menge |
|---------|------------------------|-------|
| 17      | 97_30                  | 1     |
| 16      | 97-7                   | 1     |
| 15      | 90810 3x5x0,5          | 1     |
| 14      | 90485 Mutter M2        | 3     |
| 13      | 90425 3x20 Linsenkopf  | 1     |
| 12      | 90222 Blechtreib 1,6x6 | 1     |
| 11      | 90010 M2 x 6           | 2     |
| 10      | 71-11 Bundlager 3x7x3  | 2     |
| 9       | 342-96                 | 1     |
| 7       | 060                    | 1     |

Ausschnitt für Heckausleger herstellen

cut out in fuselage



Ord.No. 11/29  
Widia-Trennscheibe  
inkl. Aufspanndorn

Ord.No. 11/29  
Widia disc cutter

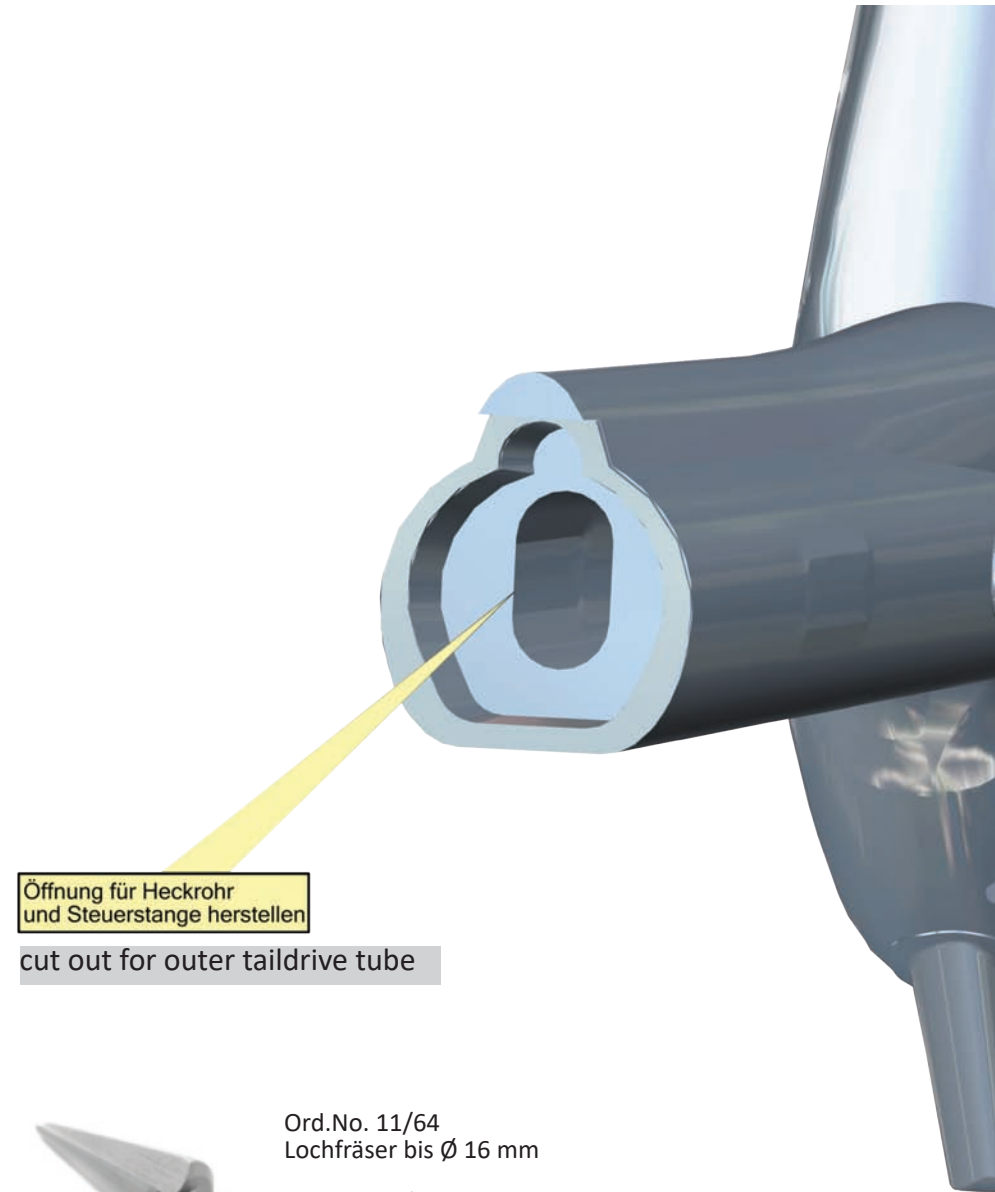
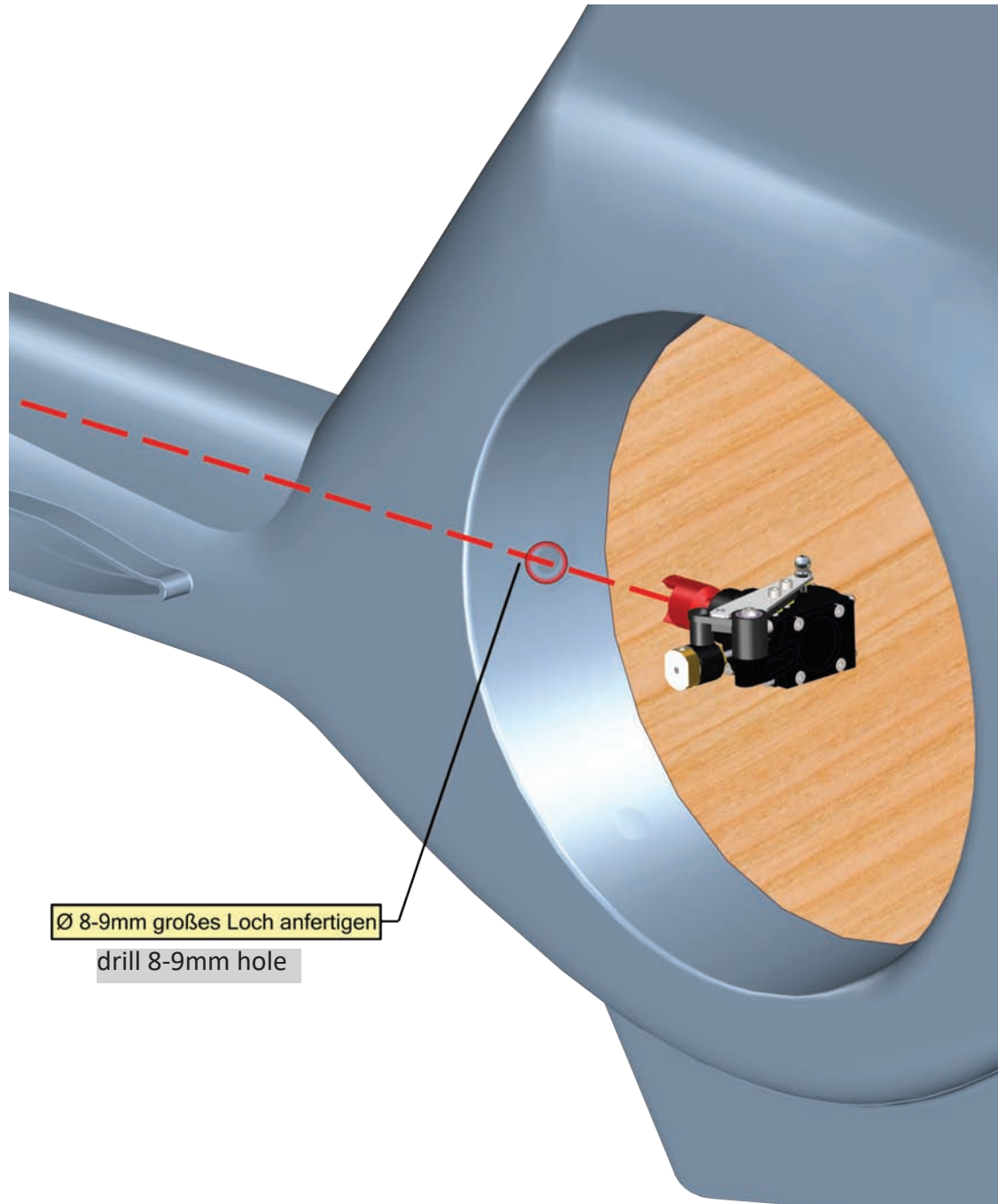
Linie zwischen Heckrotorabgang und Heckrotor auf den Rumpf übertragen

mark this line on the outside of  
the tailboom

Heckausleger mit Klebeband  
oder Blechtreibschrauben fixieren

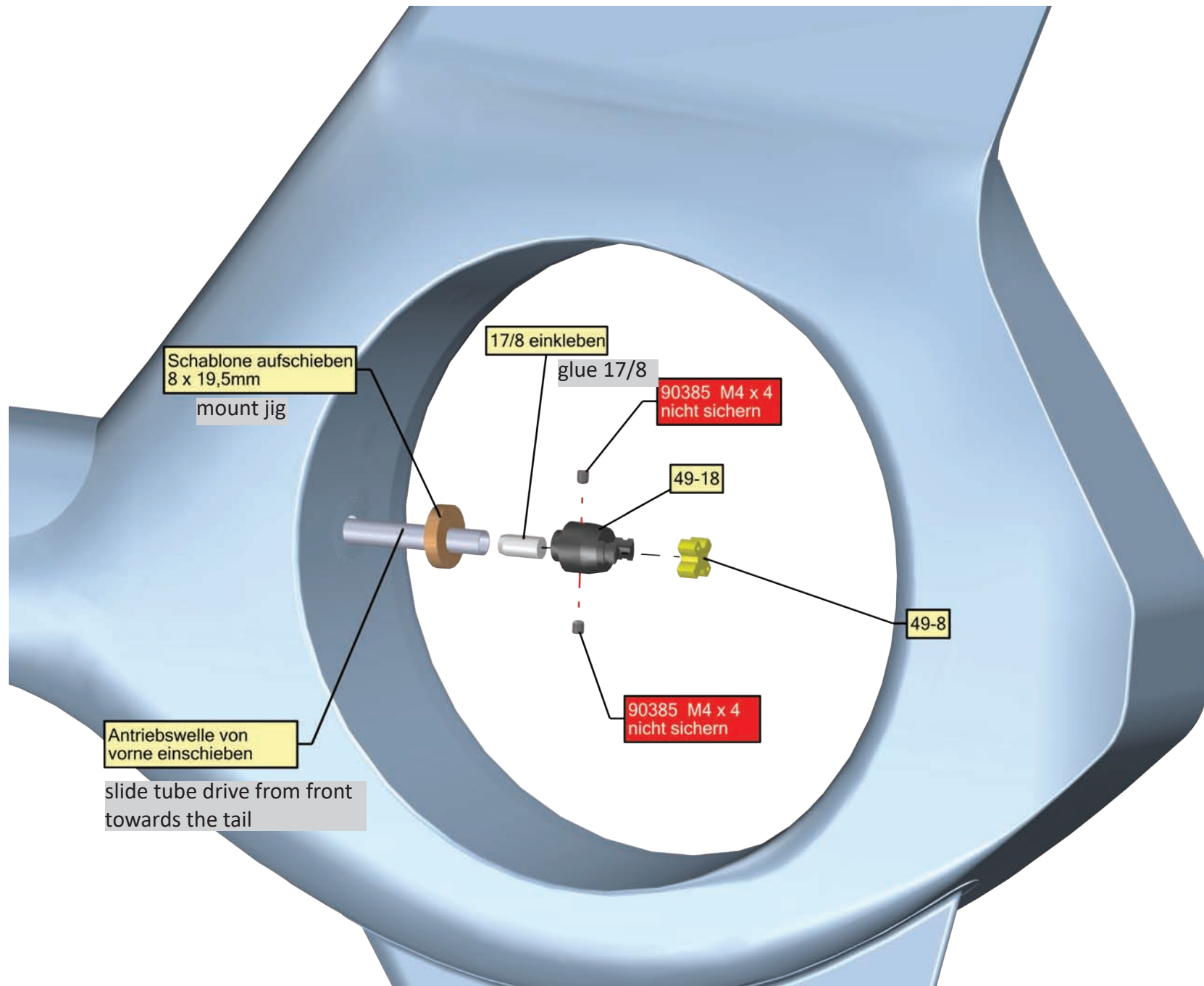
fix the tailboom with 2 screws

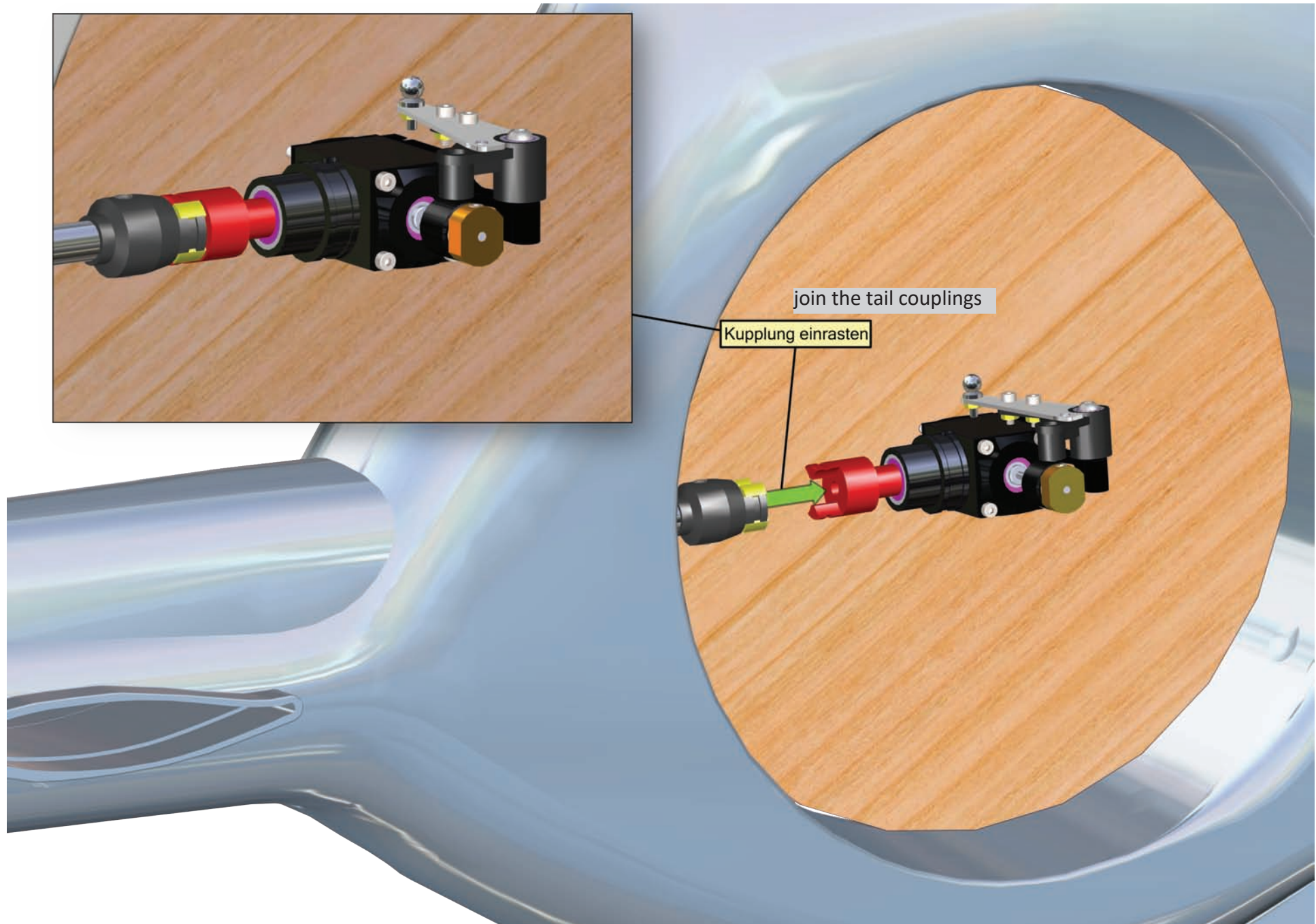
Heckausleger unterstützen  
support tailboom

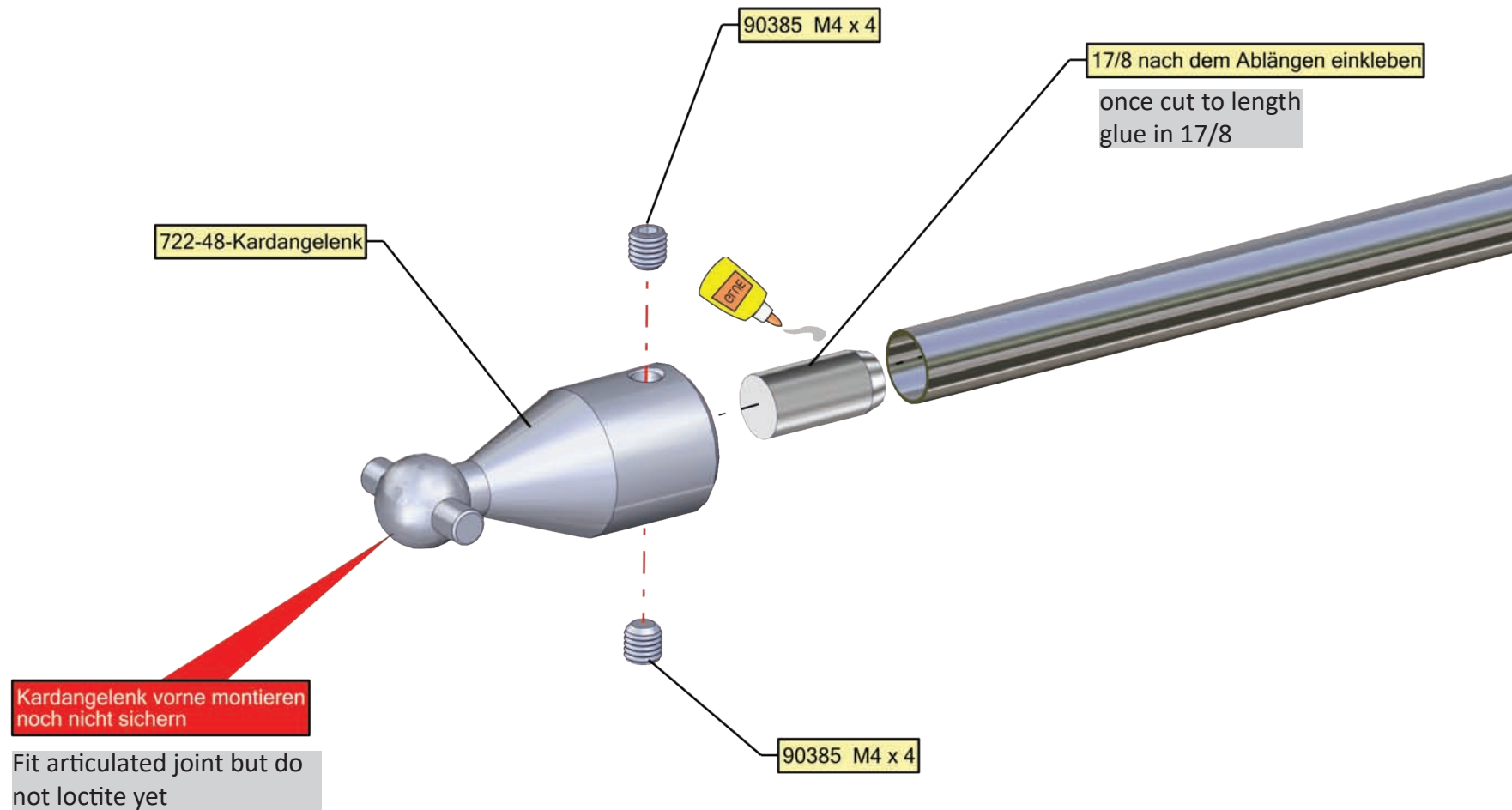


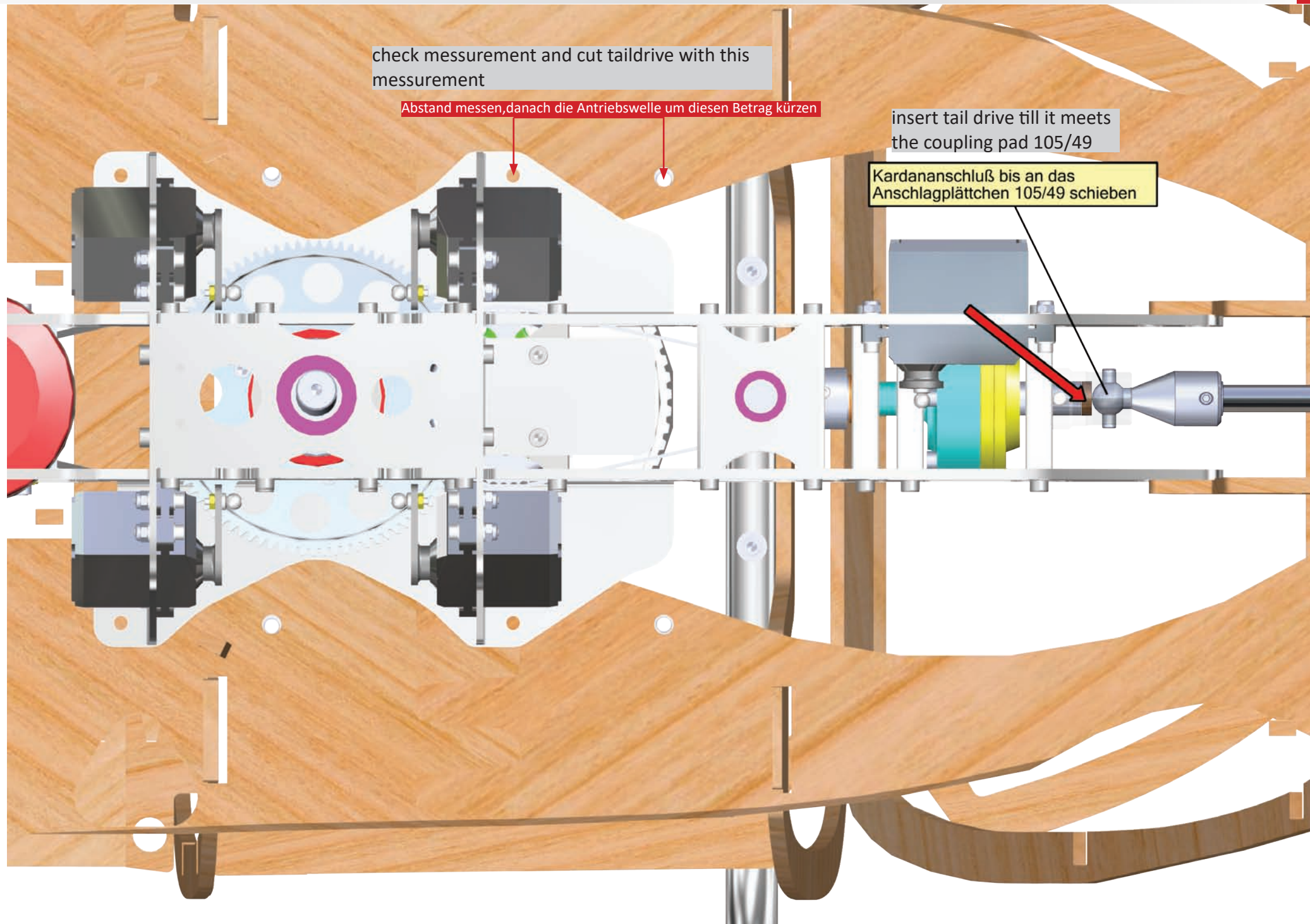
Ord.No. 11/64  
Lochfräser bis Ø 16 mm

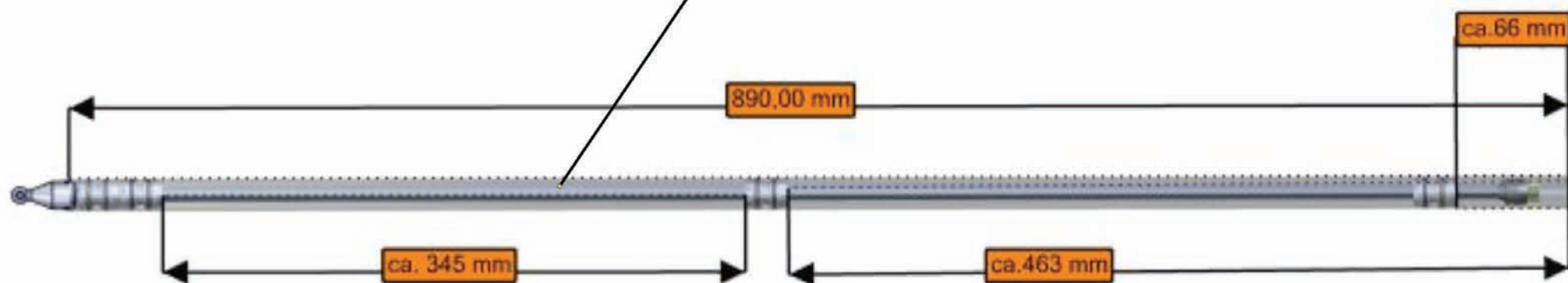
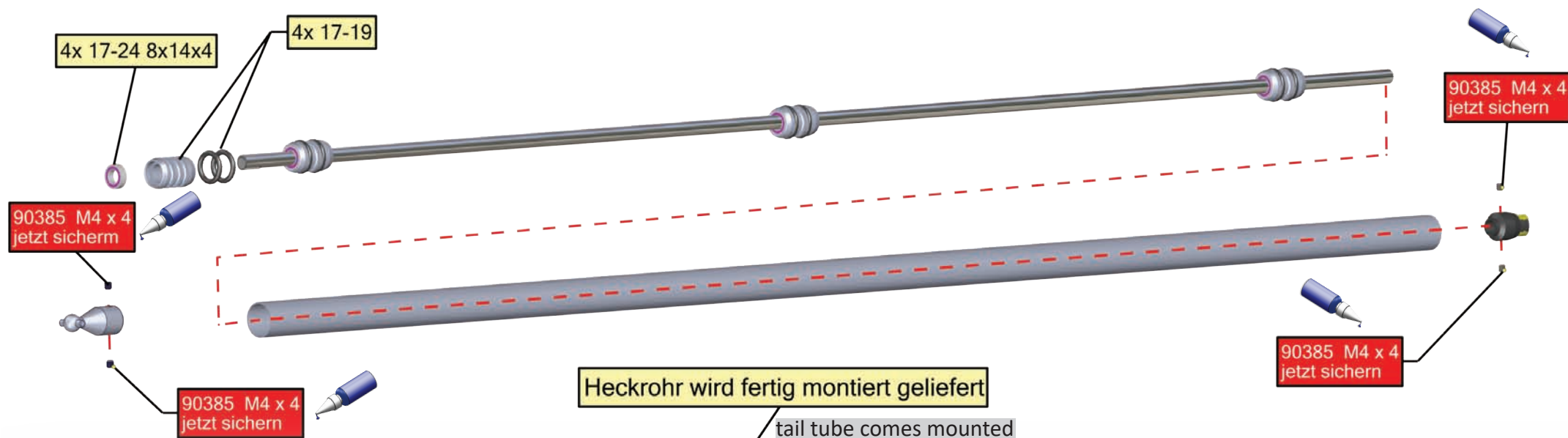
Ord.No. 11/64  
Hole cutter up to 16 mm Ø



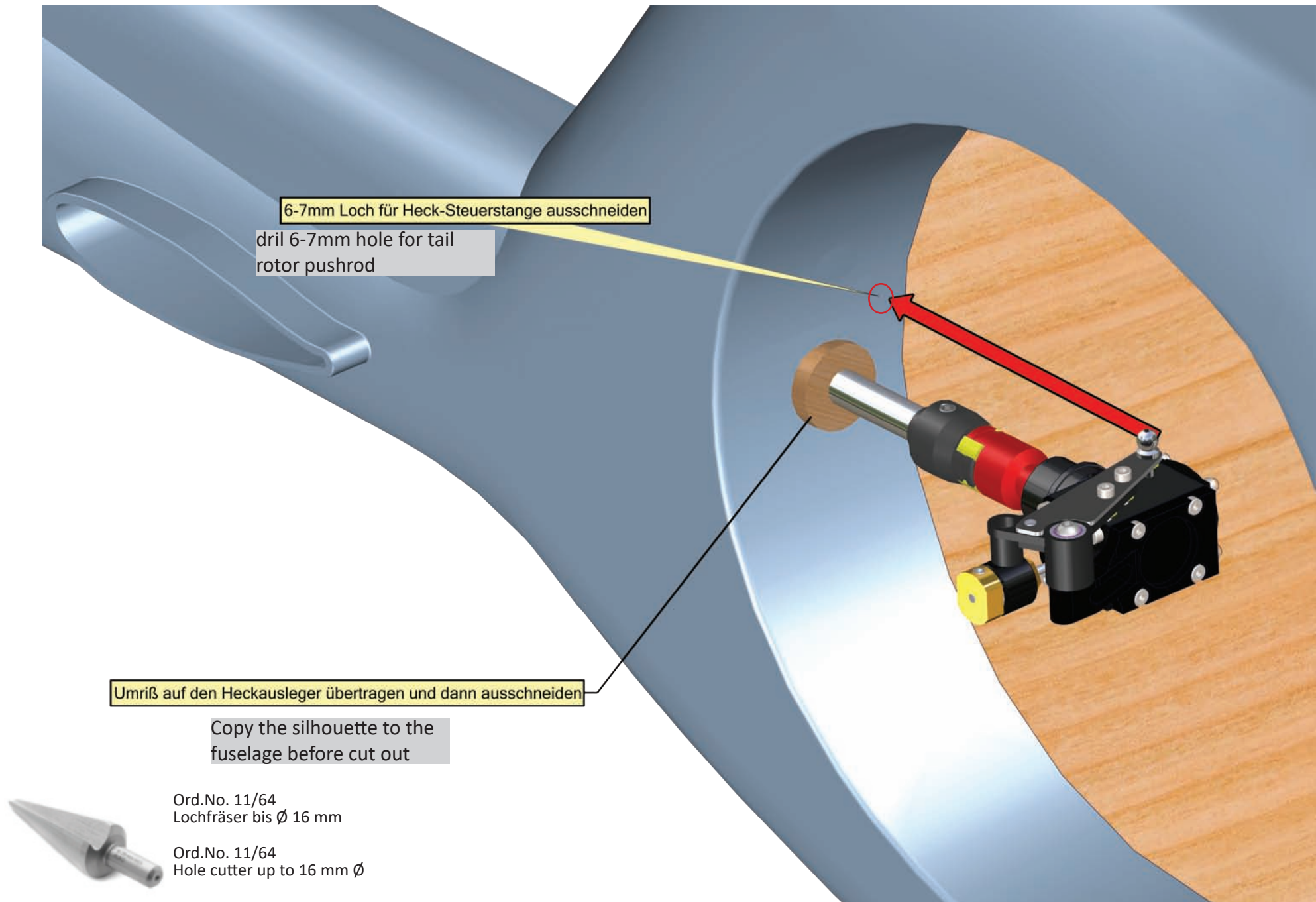


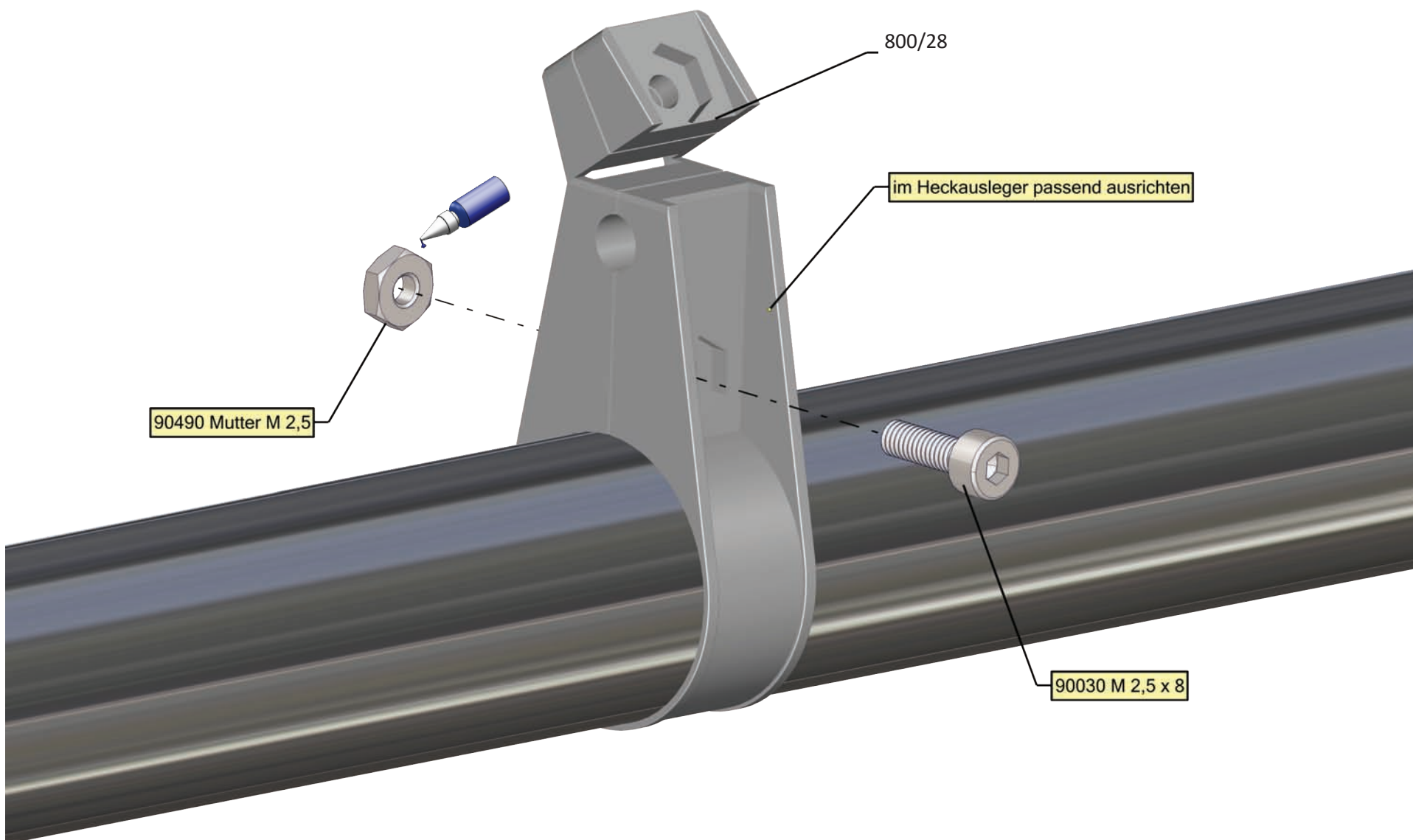




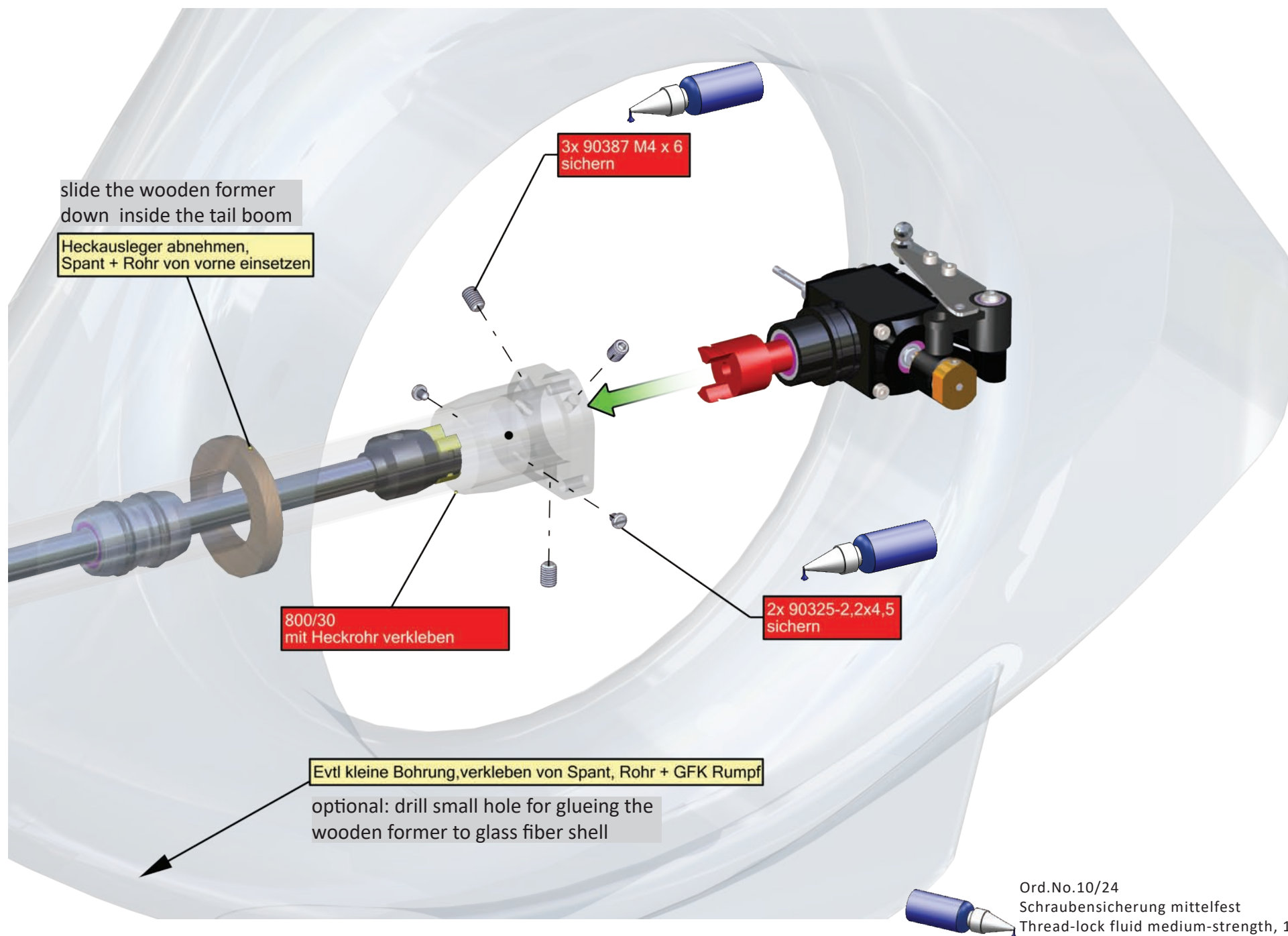


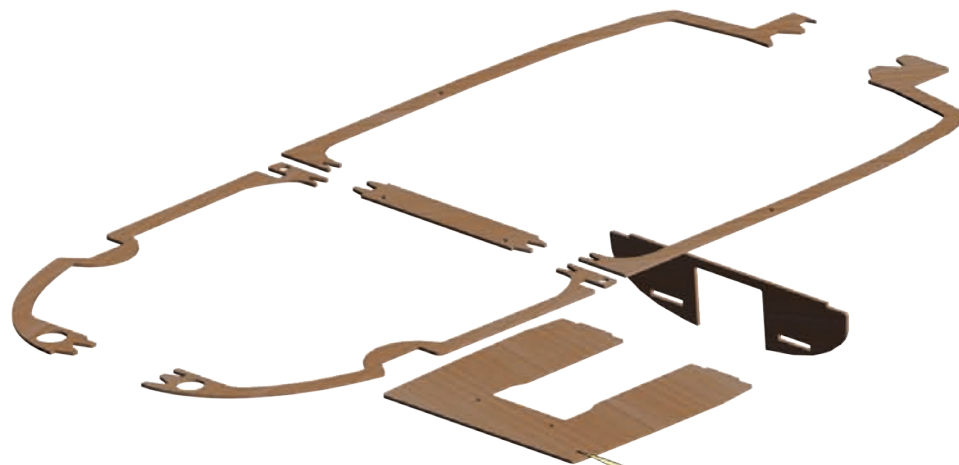
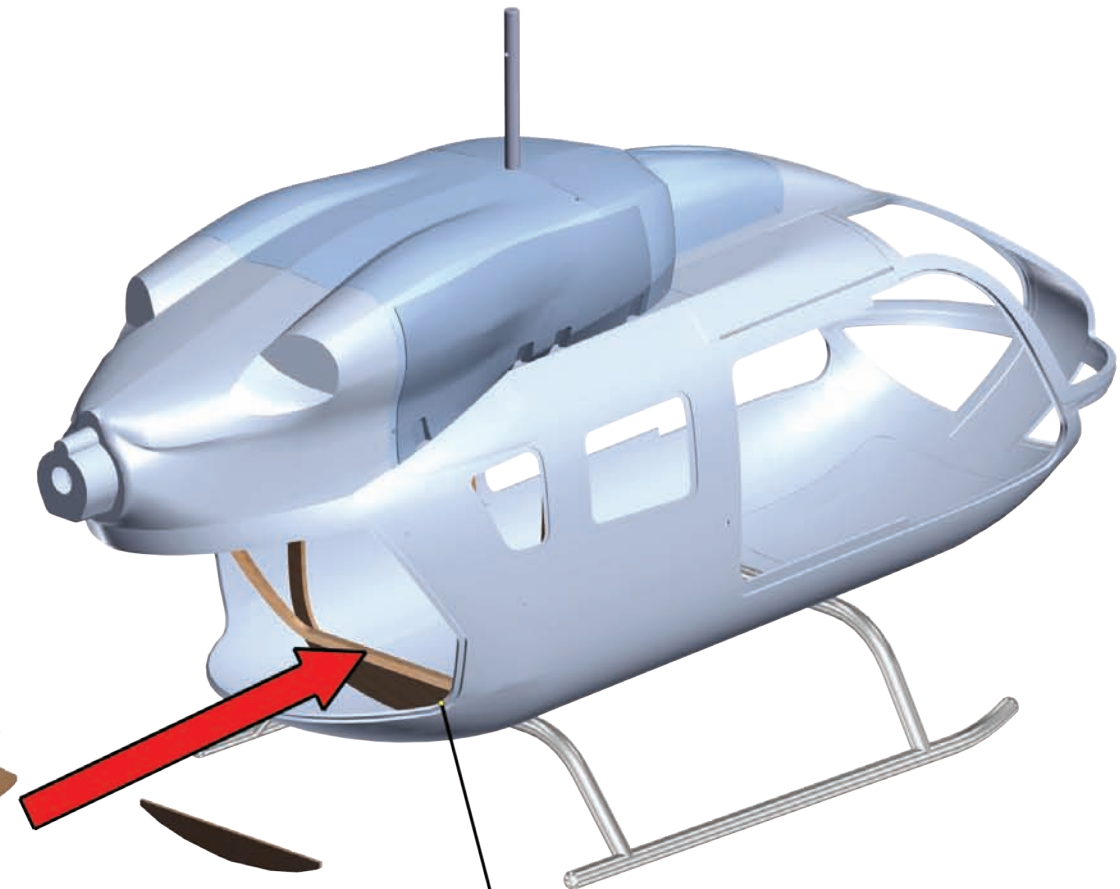
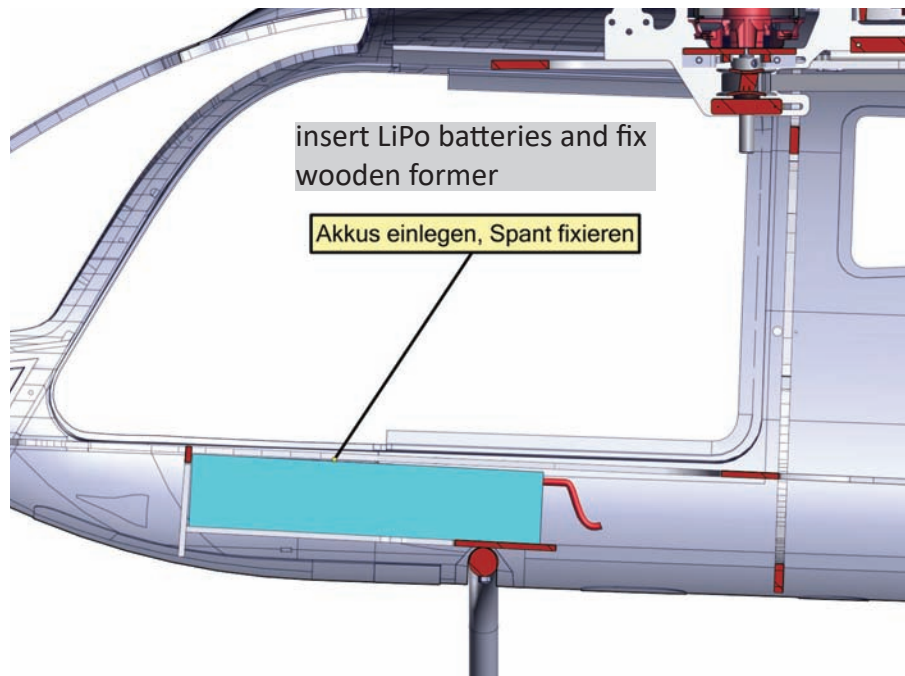
Ord.No.10/24  
Schraubensicherung mittelfest  
Thread-lock fluid medium-strength, 10ml





Ord.No.10/24  
 Schraubensicherung mittelfest  
 Thread-lock fluid medium-strength, 10ml





test fit wood parts in the fuselage

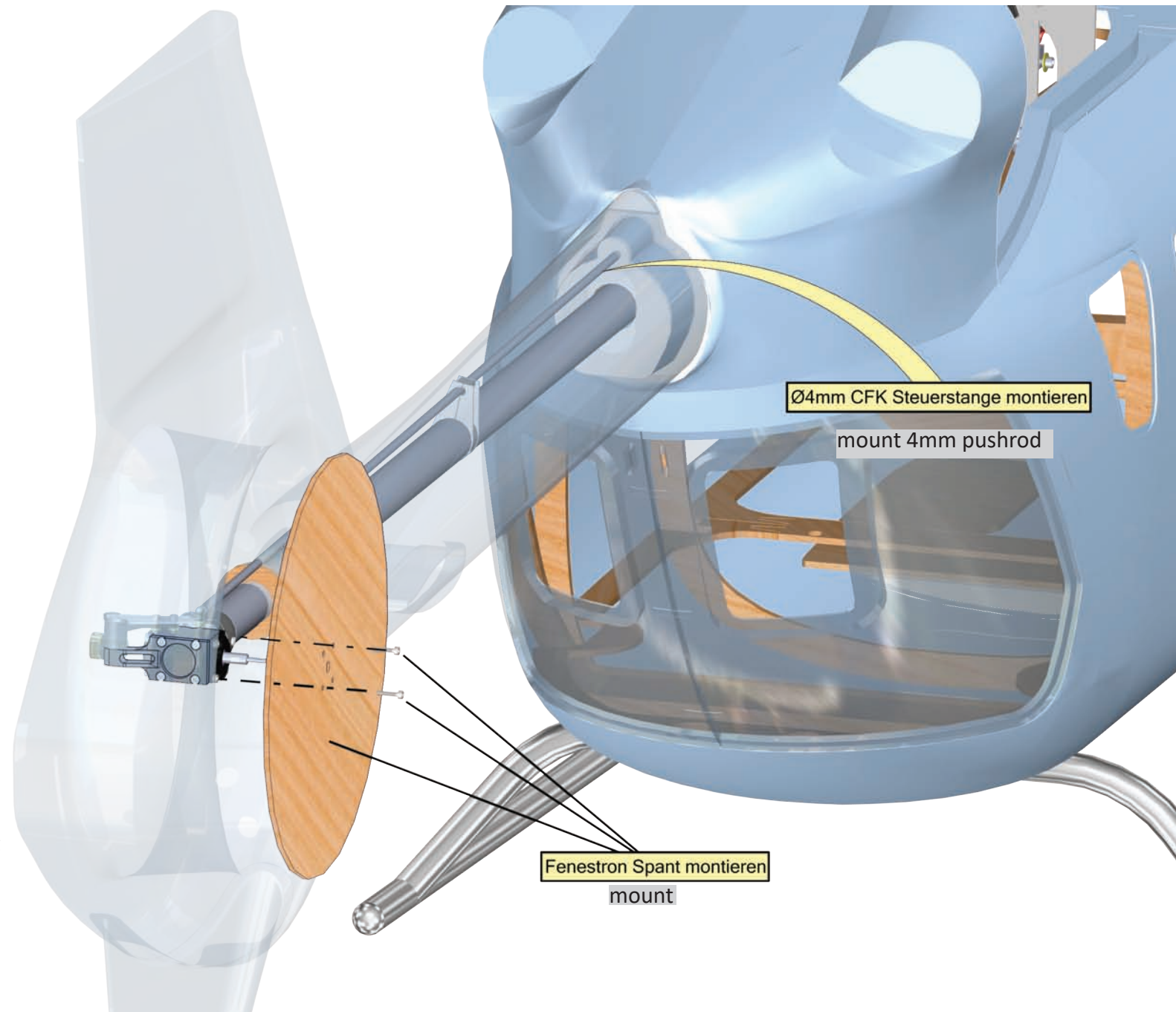
Spanten im Rumpf zusammen stecken

Ausschnitte für Heckklappen herstellen  
cut out for rear doors



Ord.No. 11/29  
Widia-Trennscheibe  
inkl. Aufspanndorn

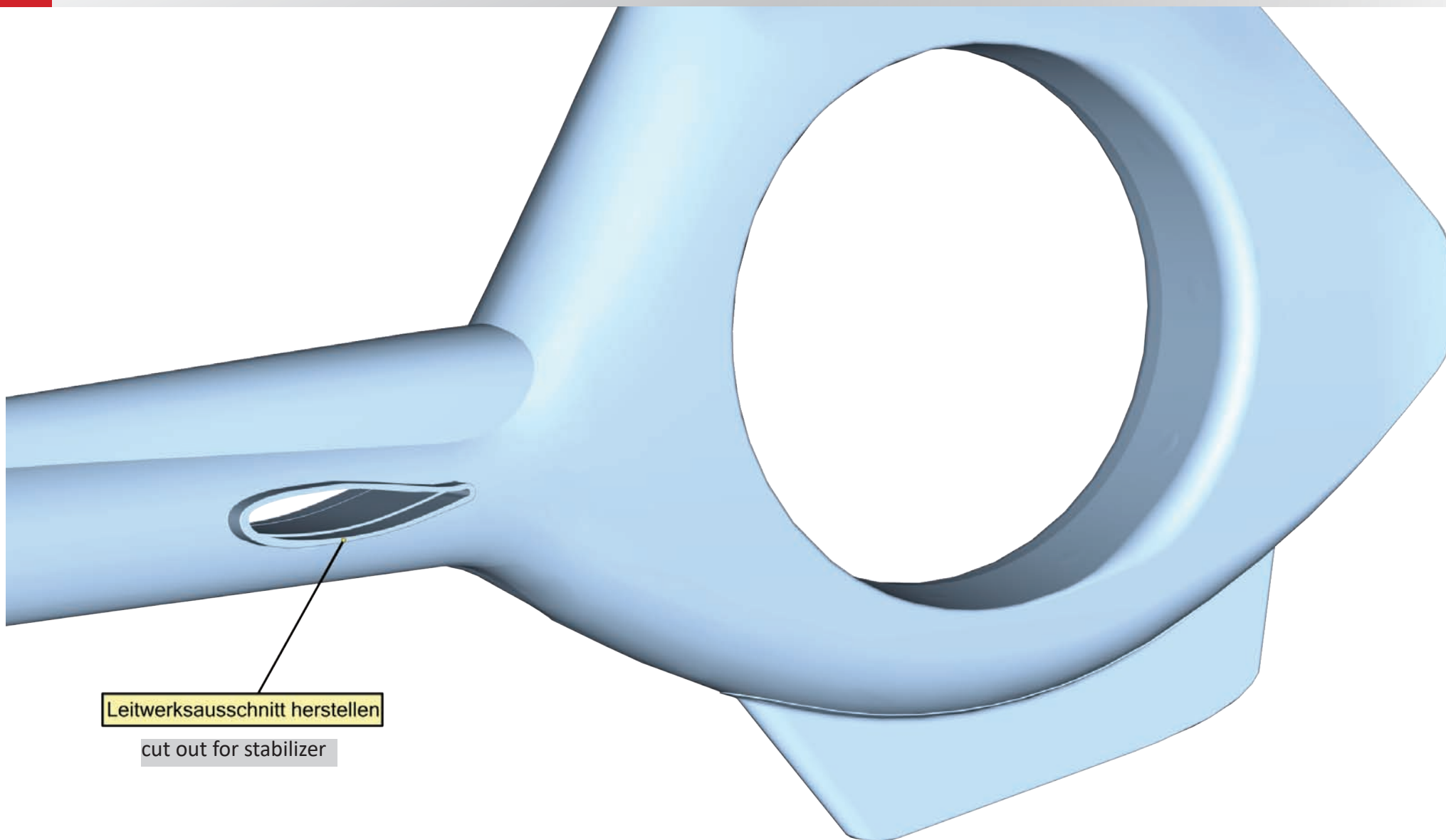
Ord.No. 11/29  
Widia disc cutter



Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)



Ord.No. 623  
Poxan 30, 10 g



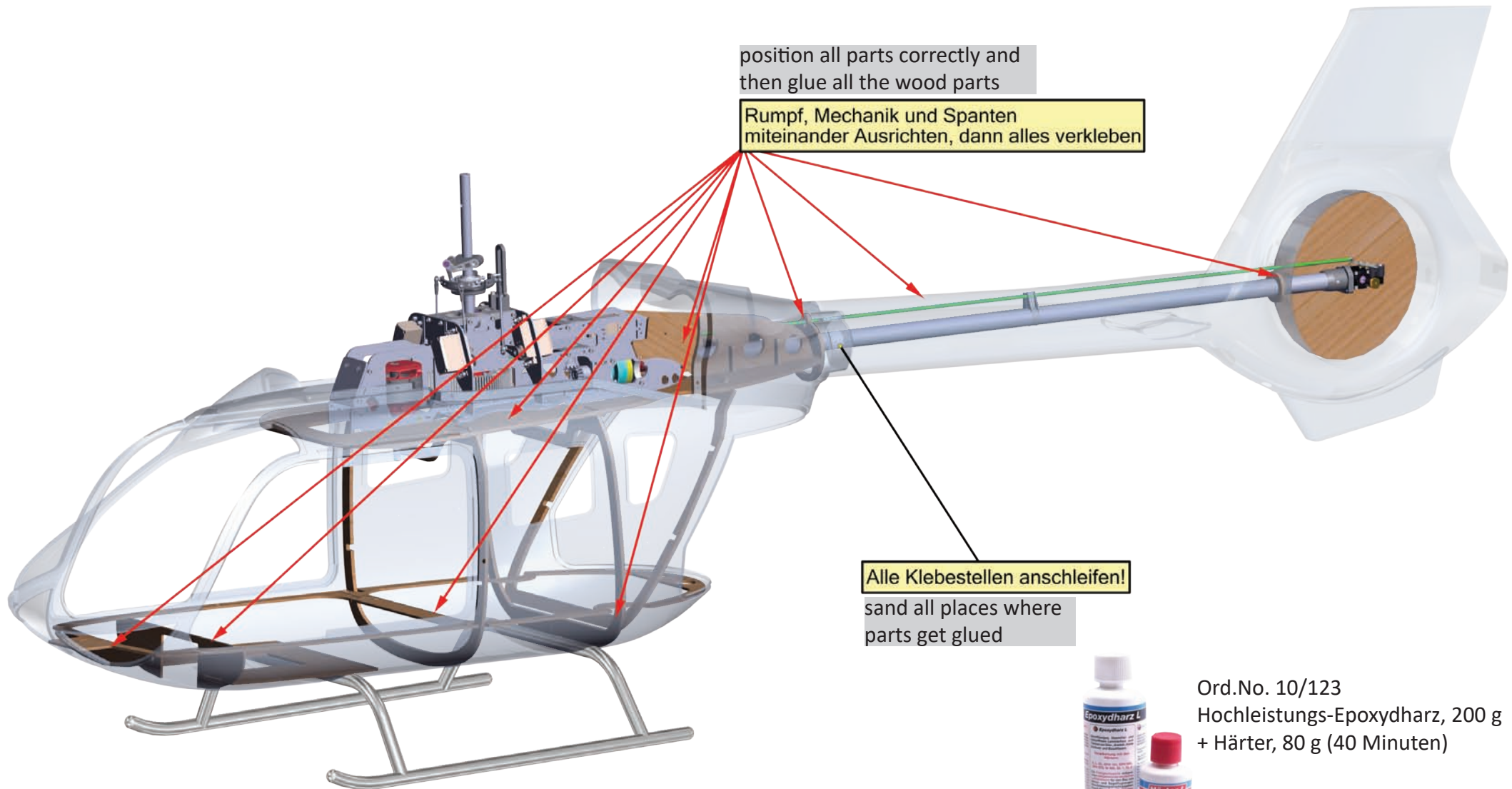
Leitwerksausschnitt herstellen

cut out for stabilizer



Ord.No. 11/29  
Widia-Trennscheibe  
inkl. Aufspanndorn

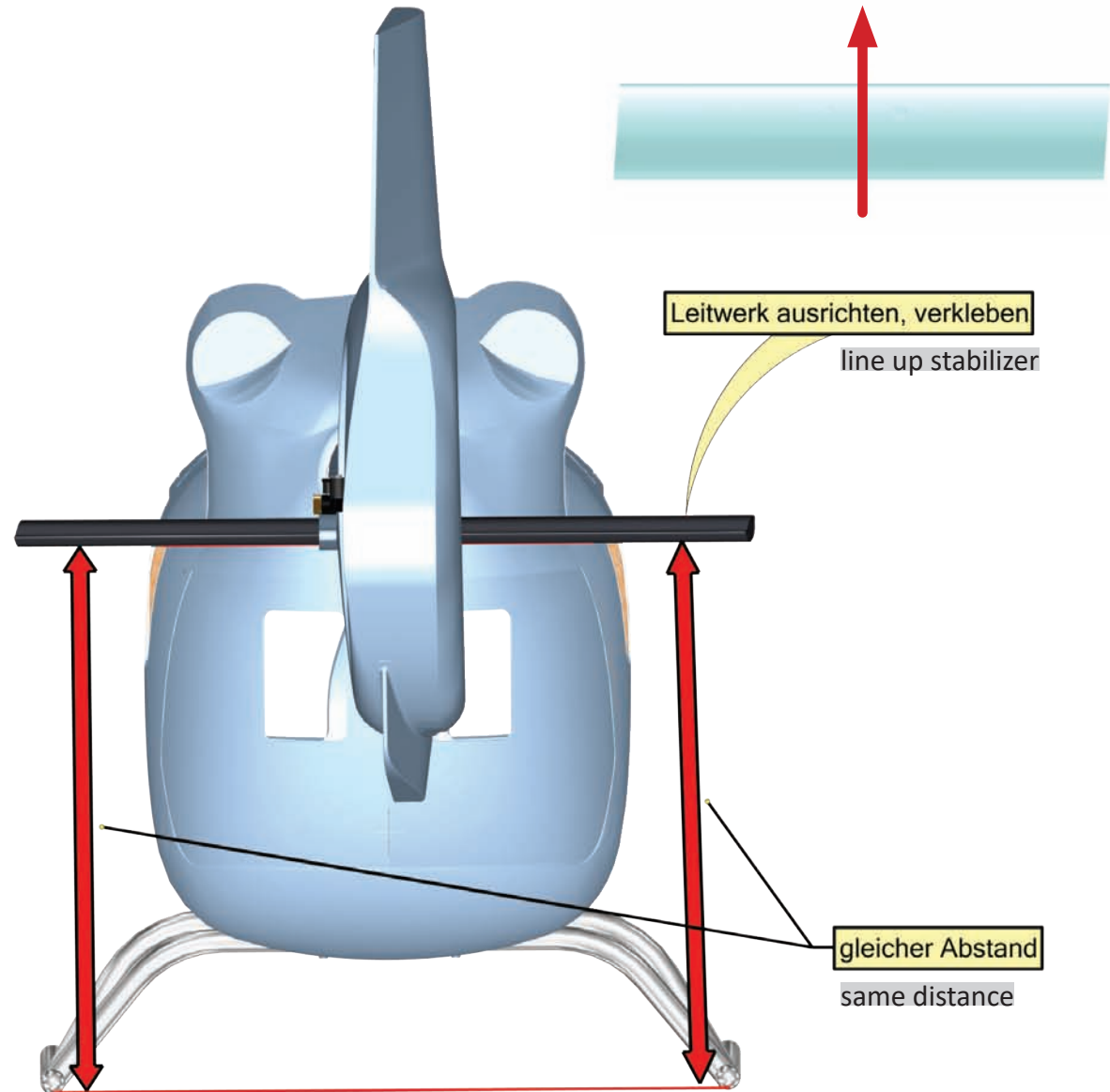
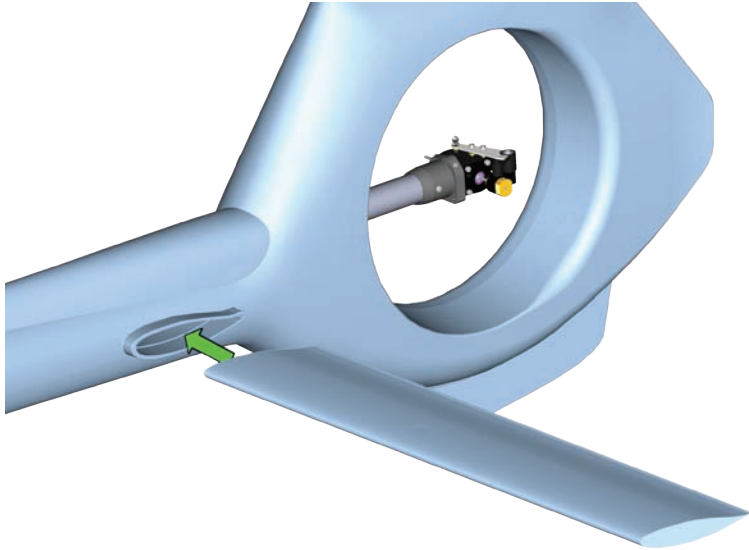
Ord.No: 11/29  
Widia disc cutter



Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)

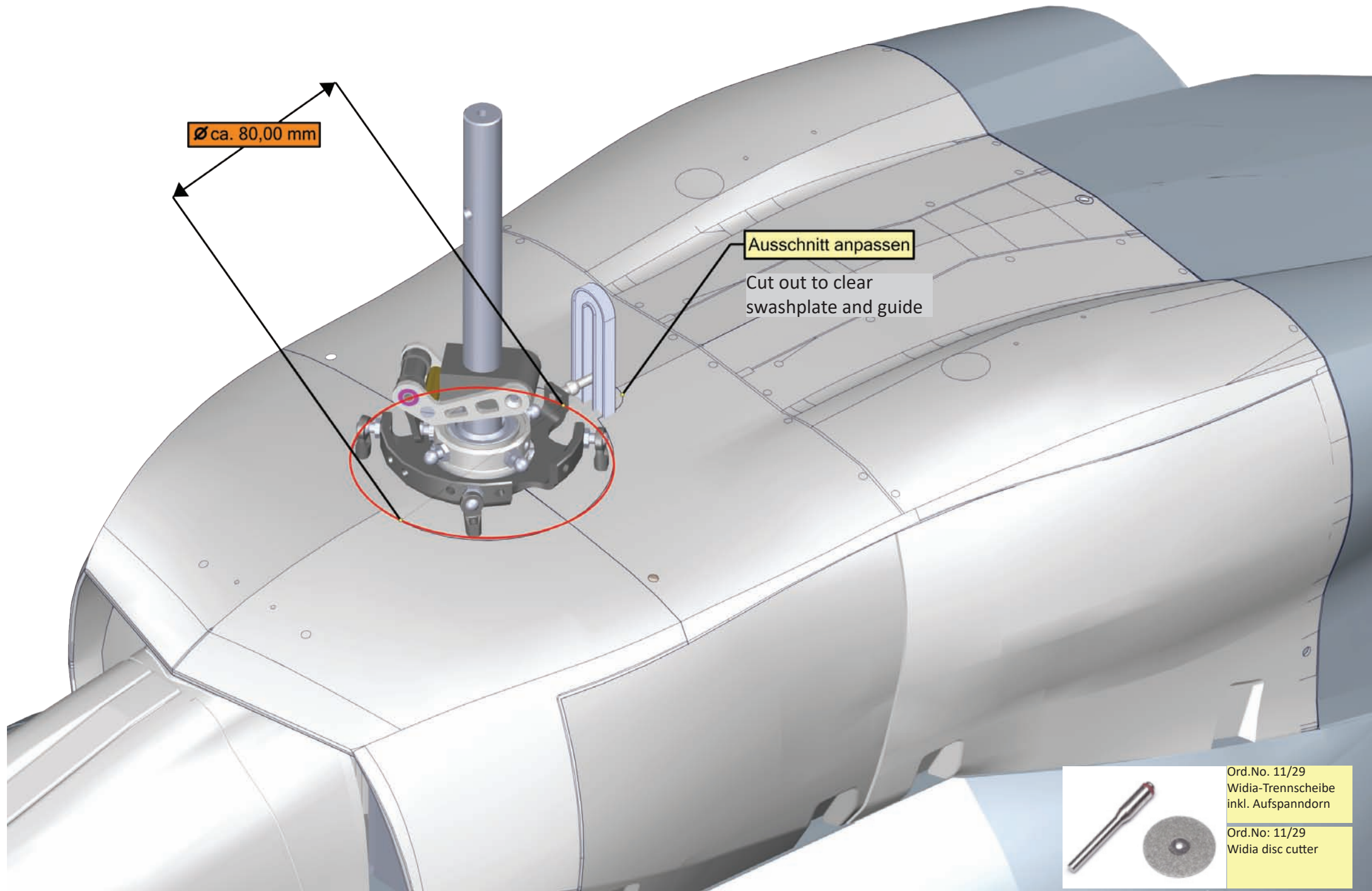


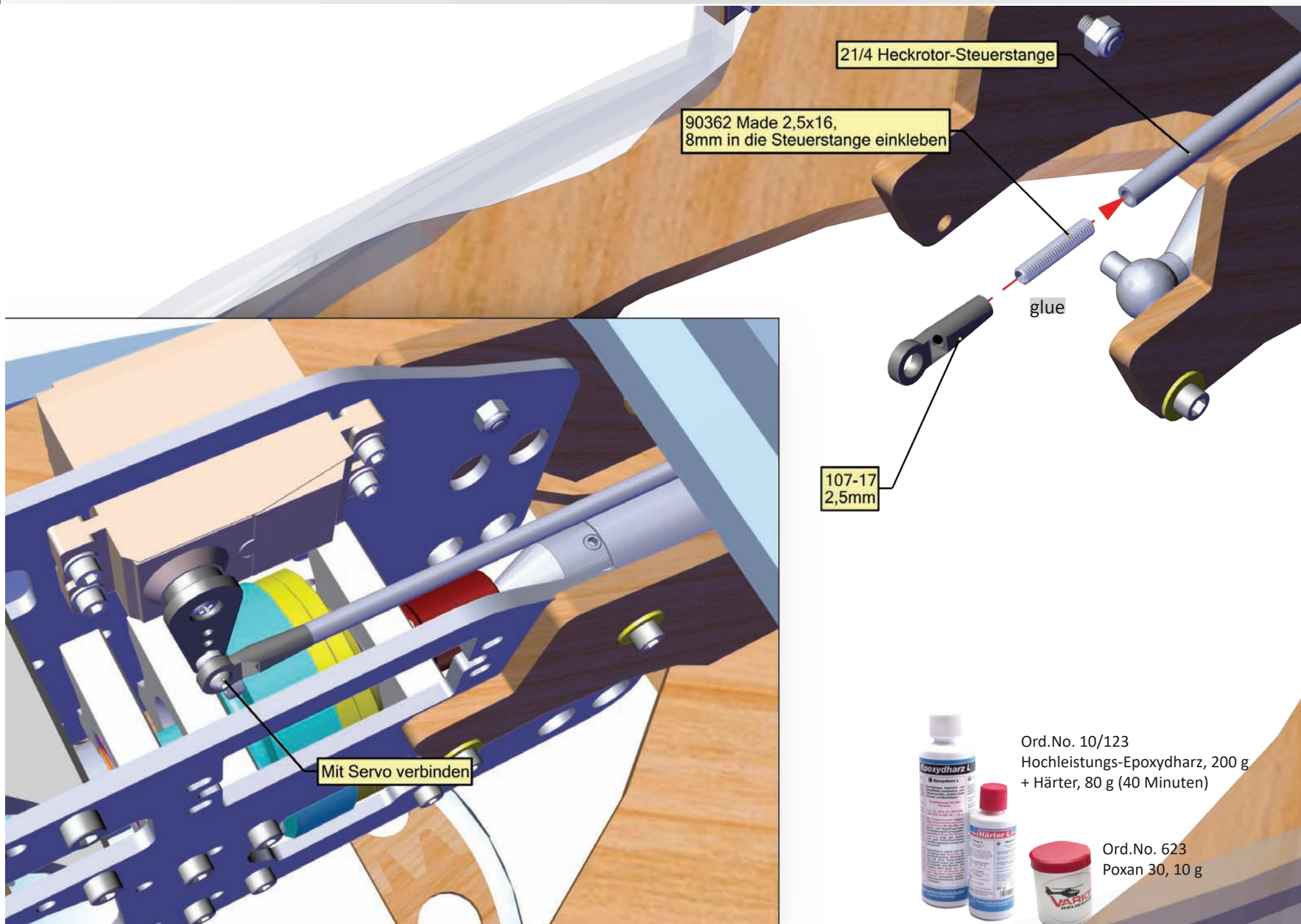
Ord.No. 623  
Poxan 30, 10 g

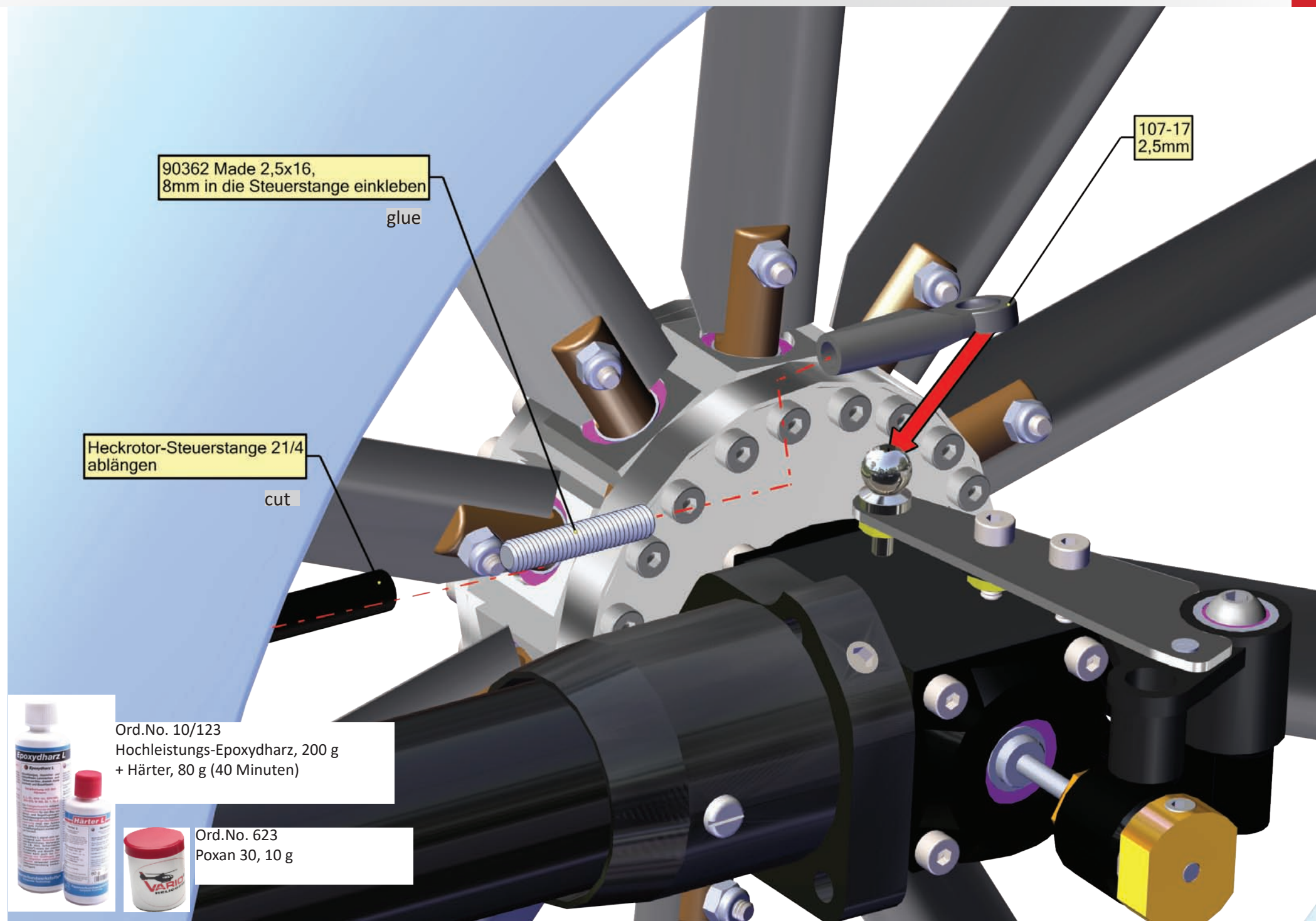


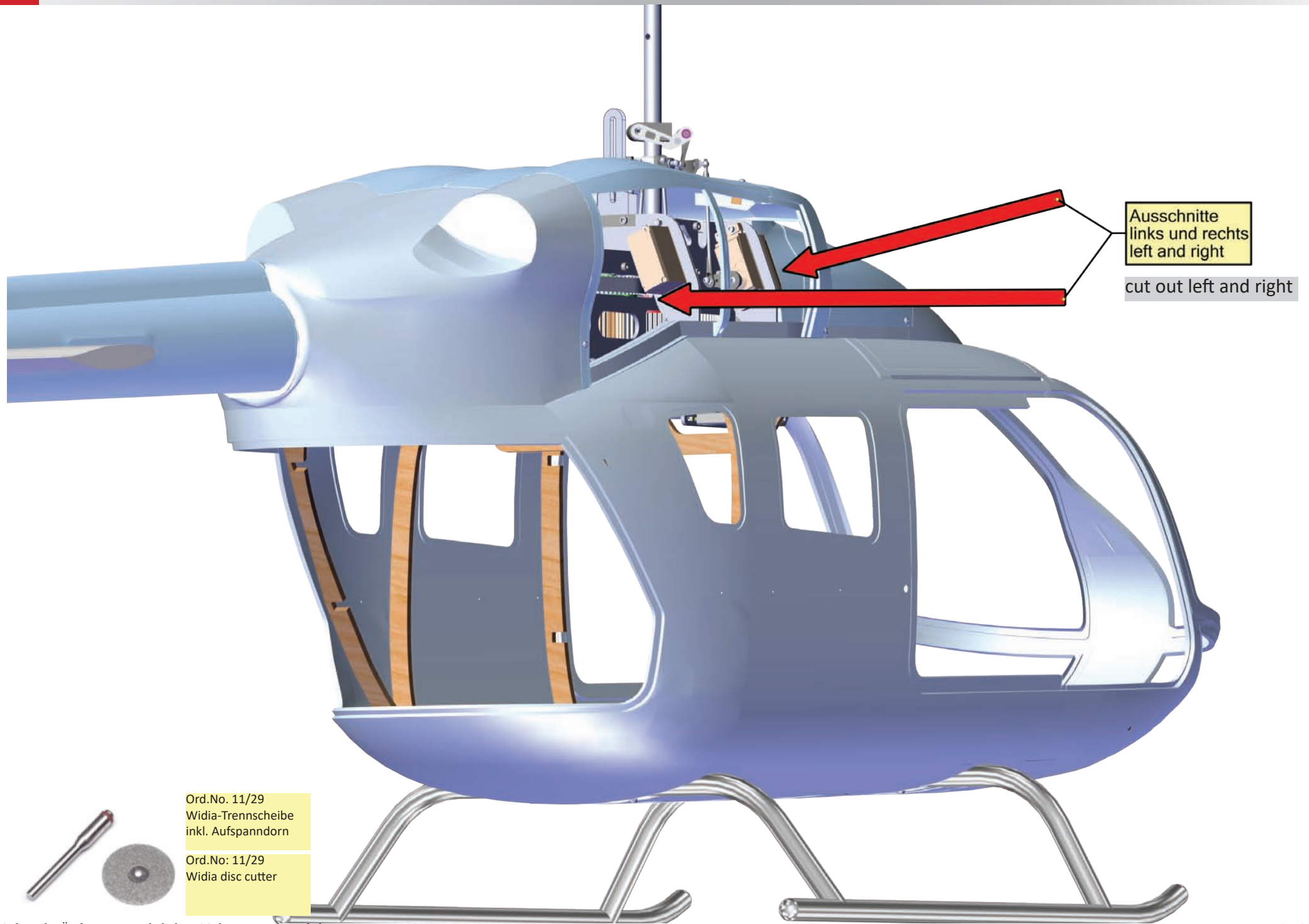
Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)

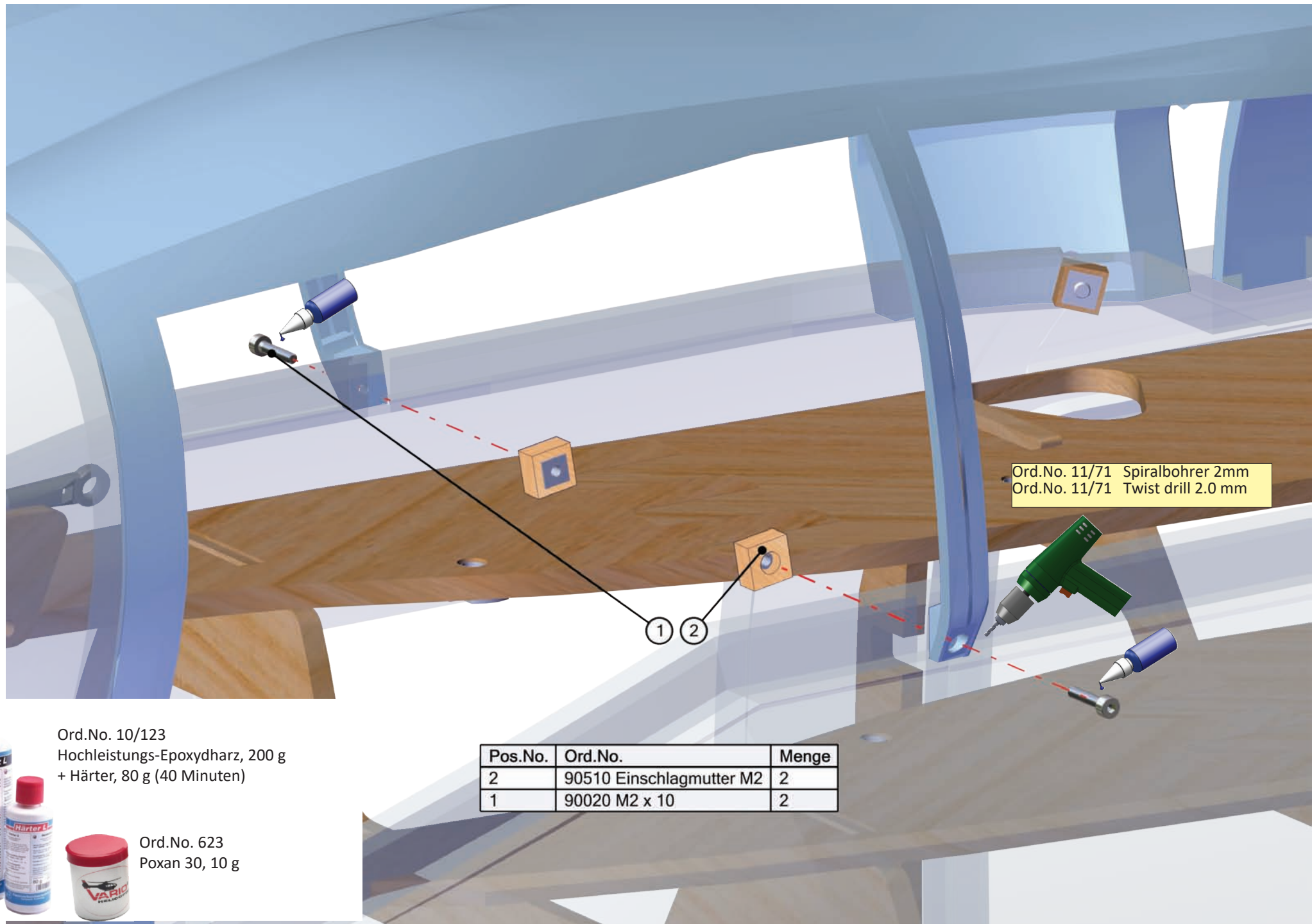
Ord.No. 623  
Poxan 30, 10 g

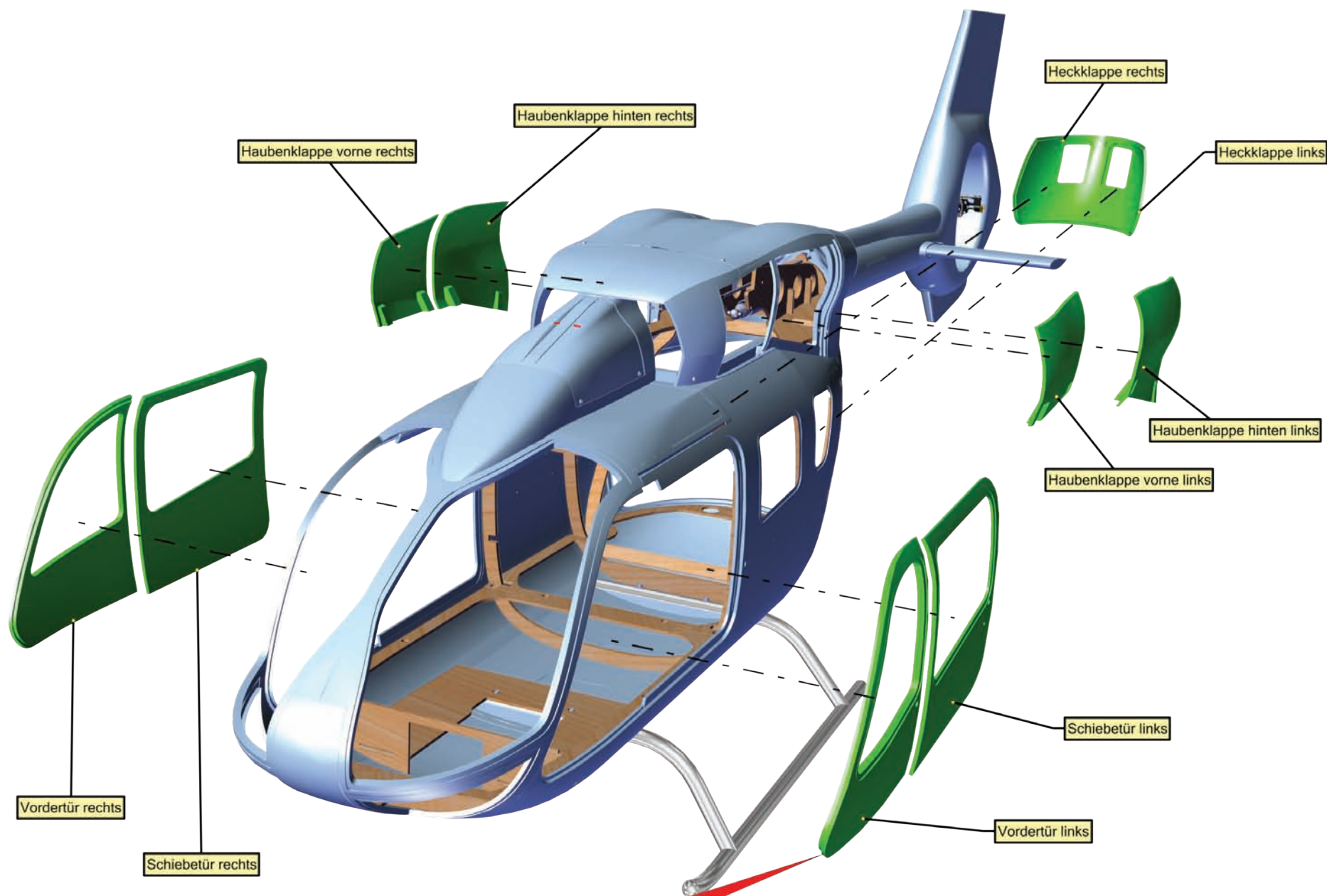






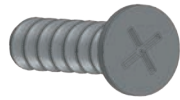






Türen und Klappen optional beweglich gestalten  
mit dem Tür.Beschlagsatz Ord.No.147/5

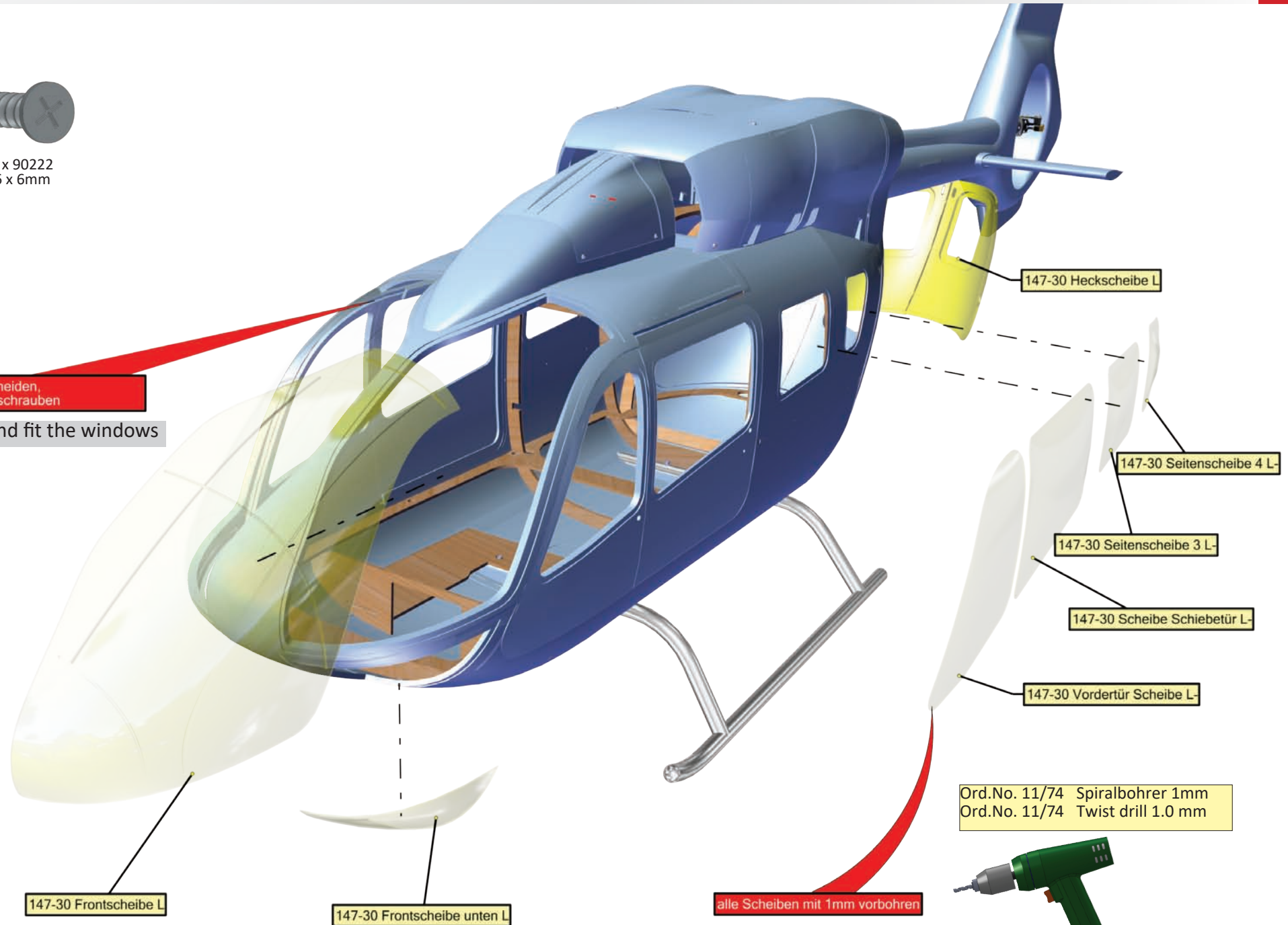
for operational doors use fitting set 147/5



64 x 90222  
1,6 x 6mm

Scheiben ausschneiden,  
anpassen und anschrauben

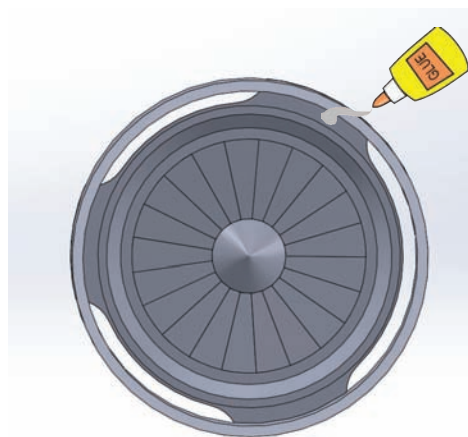
cut to size and fit the windows



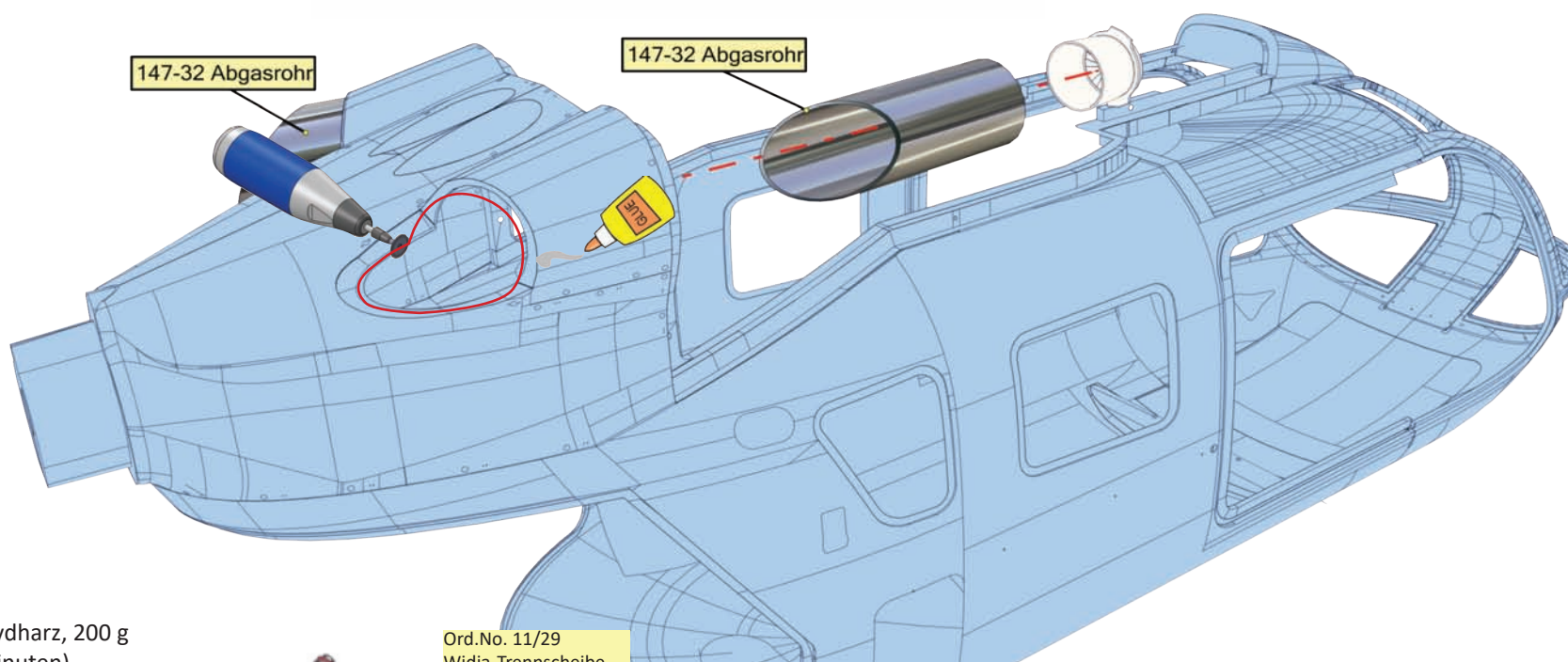
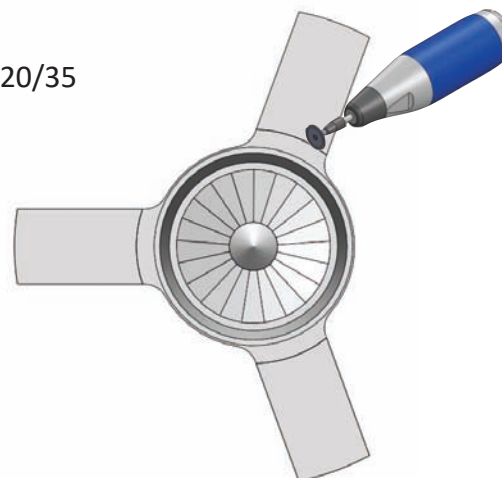
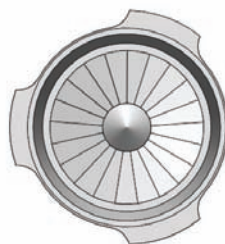
Ord.No. 11/74 Spiralbohrer 1mm  
Ord.No. 11/74 Twist drill 1.0 mm



alle Scheiben mit 1mm vorbohren



Ord.No. 20/35



Ord.No. 10/123  
Hochleistungs-Epoxydharz, 200 g  
+ Härter, 80 g (40 Minuten)



Ord.No. 623  
Poxan 30, 10 g



Ord.No. 11/29  
Widia-Trennscheibe  
inkl. Aufspanndorn

Ord.No: 11/29  
Widia disc cutter

