

Subject: Repair of the landing gear box.

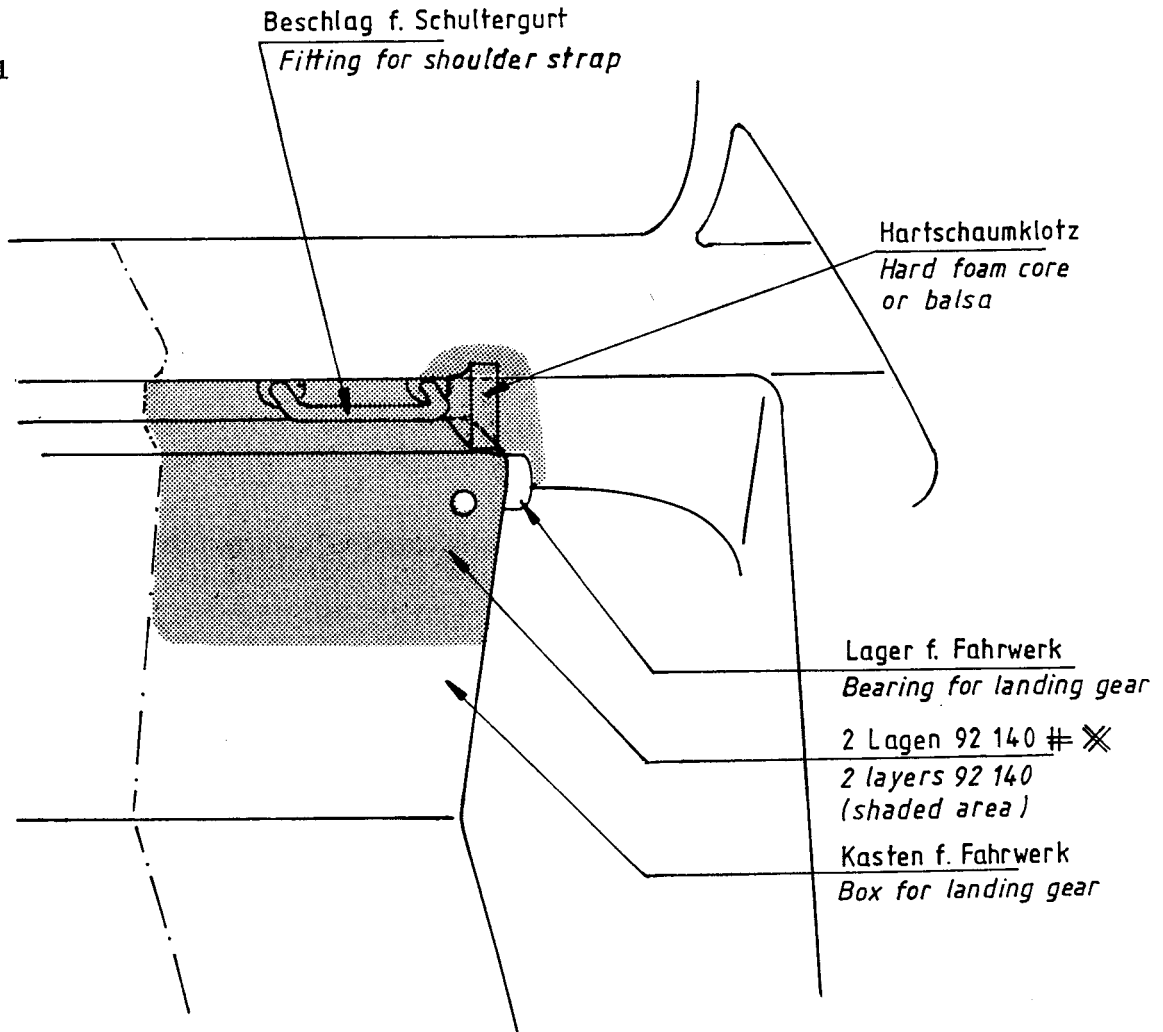
Affecting: All serial no.s ASW 24, ASW 24 E, ASW 24 TOP.

Compliance: Where required.

Reason: Should the landing gear box break at the bearing for the A-strut because of excessive stress or load, the box can be repaired as described hereafter under "Action".

- Action:**
1. Jack up the fuselage, extend the landing gear and align it. The bearing for the A-strut with its brass bushing must be repositioned in the correct location at the landing gear box.
 2. Remove the fitting for the shoulder harness strap (240.11.0024) at the side where the box is damaged.
 3. On the side where the bearing is damaged, a 10 mm wide hard foam core (Rohacell 71 or Conticell 60) or a balsa wood block is fitted (see Fig.1).
 4. As to be seen in Fig.1 two layers 92140 * # are laminated over the repair area and the hard foam core. (The area must be roughened appropriately before.)
 5. Now the landing gear is removed (refer to ASW 24 Maintenance Manual Section 10.3).
 6. Scarf the landing gear box in the repair area from inside in accordance with the instructions in the Repair Manual.
 7. In accordance with the layer scheme drawing 240.11.0309 the corresponding layers are laminated onto the repair area (in which the carbon layers "KDU 1009" are replaced by the same number of glass 92140 * #)!
 8. Repaint the repair area in the cockpit.
 9. Re-fit the landing gear and check the locking of the A-strut (locking above dead center 2 to 3 mm).

Fig. 1



Material & drawings:

Layer scheme drawing 240.11.0309.
Glass cloth 92 140.
SCHEUFLER resin L 285 plus hardener 286 or 287.
Gelcoat brown.

Notes:

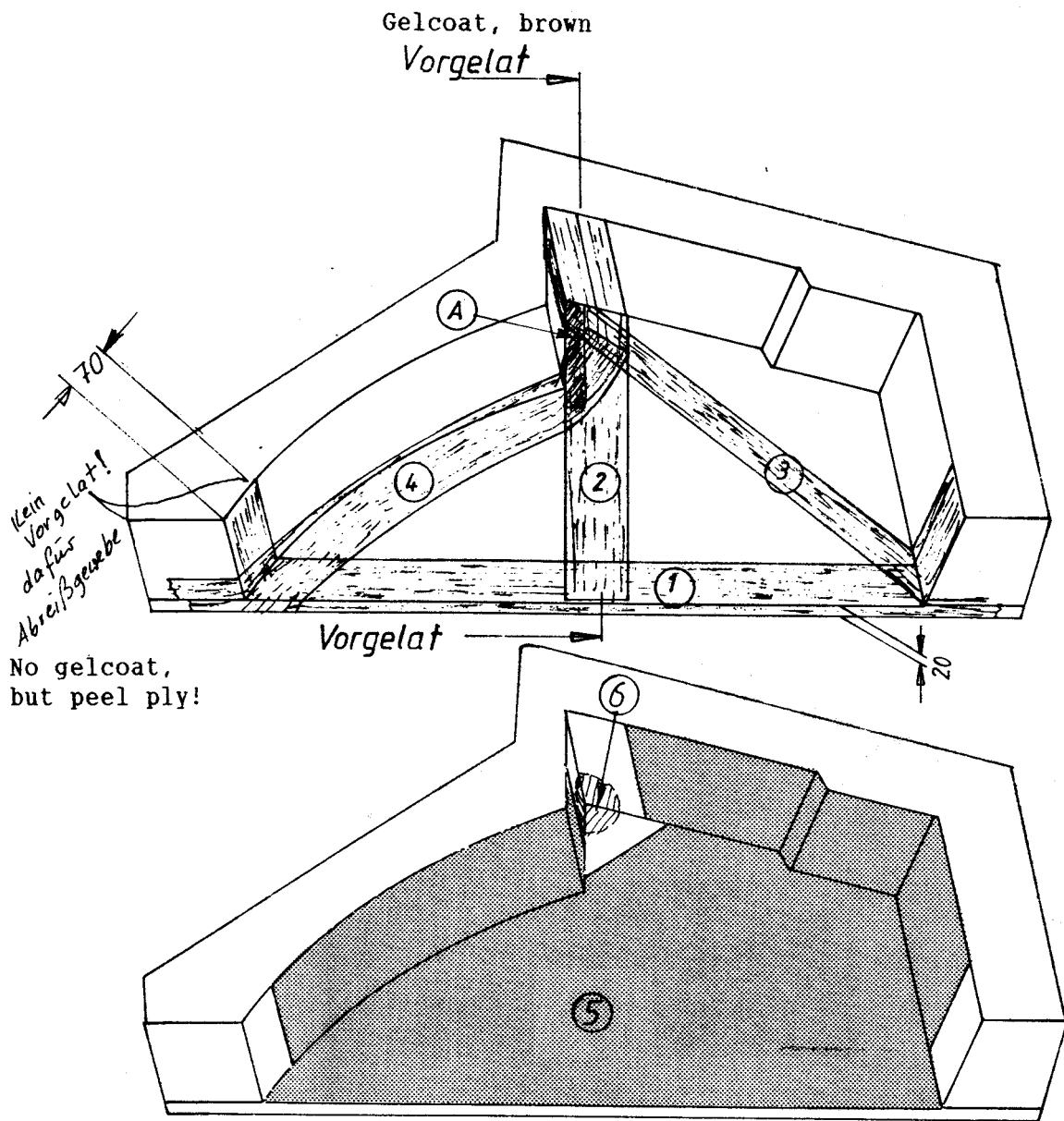
The repair can be accomplished by a competent person. It must be checked and certified by an appropriately licensed inspector for aeronautical products.

Poppenhausen, April 26, 1990

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The translation into English has been done by best knowledge and judgement; in any case of doubt the German original is controlling.



No gelcoat, but peel ply!

Laminierplan:

- Vorgelat, braun (nur vordere Formhälfte!)
- 1 Lage 92 140 diagonal ü.g.F.
- (A) 5 Lagen 92 140 diagonal, abgestuft in Vertiefung der Form je 2 Lagen KDU 1009 längs, nach Reihenfolge (1) - (4)
- (5) 1 Lage PKM 80
- 1 Lage 92 140 diagonal ü.g.F.
- (6) 2 Lagen 92 140 beliebig, ca. 150ø abgestuft (1)
- Abreißgewebe ü.g.F.

Layer scheme:

- Gelcoat, brown
- 1 layer 92 140 diag. over all
- (A) 5 layers 92 140 diag. in steps applied in deepening of mold each 2 layers KDU 1009 according to sequence (1) - (4)
- (5) 1 layer PKM 80
- 1 layer 92 140 diag. over all
- (6) 2 layer 92 140 random (any direction) ca. 150mmø in steps (1)
- peel ply over all

MES
 Laminierharz L 285
 Härter 285
 Härter 286
 Härter 287
 Martin G. Scheufler
 Kunstharzprodukte

				Datum	Name	Typ	Benennung	Maßst.
				Bearb. 24.08.87	Juw	ASW 24	Kasten f. F.W. im R. BOX for LANDIG GEAR	1:1
				Gepri.				
				Norm				
				A. Schleicher Segelflugzeugbau 6416 Poppenhausen		Zeichnungsnummer L-366 24.11.0309		Blatt
1	Lagen 6 ergänzt	13.12.88	Juw					Bl.
Zust.	Änderung	Datum	Na.	Urspr.	Ers. f.		Ers. d.	