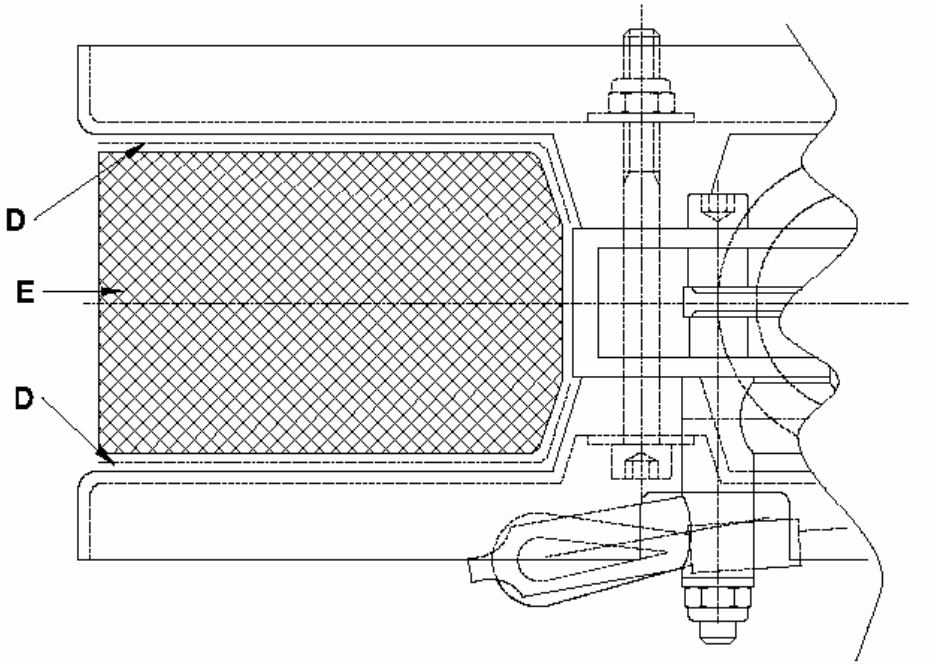
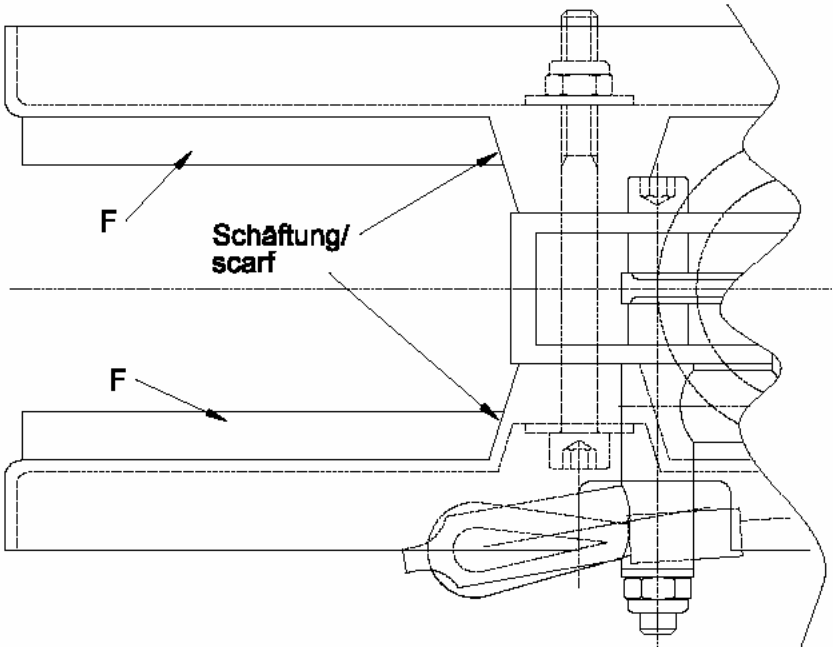
Reinforcement of the bulkheads of the C.G. tow hook

1) Remove the height adjustable rear seat shell.
2) Remove the tow hook access cover.
3) Check if the bulkheads of the C.G. tow hook (5RU44/45) or their glued joints to the fuselage shell are damaged. If this is the case repair (glassfibre fabric 3 x 92140) or exchange the bulkheads.
4) The bulkheads of the C.G. tow hook shall be reinforced with GFRP-reinforcement plates 5R308, 8 mm thick. To accomplish this roughen the areas D at the bulkheads and the fuselage shell area E between the bulkheads with abrasive paper 60 grit, areas see sketch 1. Don't damage the tow hook! Remove any excess glue resin at the glued joint of the bulkheads to the fuselage as far as possible.



Sketch 1

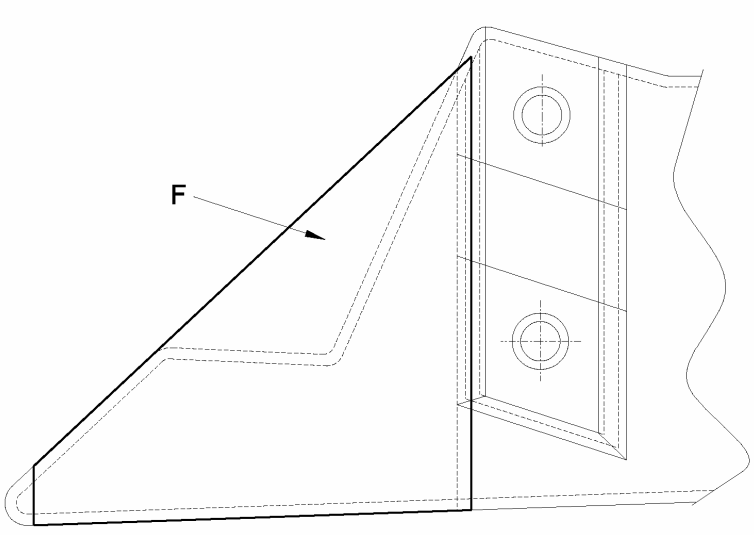
5) Roughen all surfaces of the 2 GFRP-reinforcement plates F and scarf the contact surface of the plate to the step-up of the bulkheads according to sketch 2. If the excess glue resin (see item 4) couldn't be removed sufficiently, scarf the GFRP plates accordingly. Scarf the plates at the lower rear end to match the recess of the fuselage shell in front of the tow hook.
6) **Ser. No.'s 5E1 up to 5E23:** If the GFRP-reinforcement plates F interfere with the recess in the main bulkhead for the tow hook access cover, grind matching cut outs into the recess.



Sketch 2

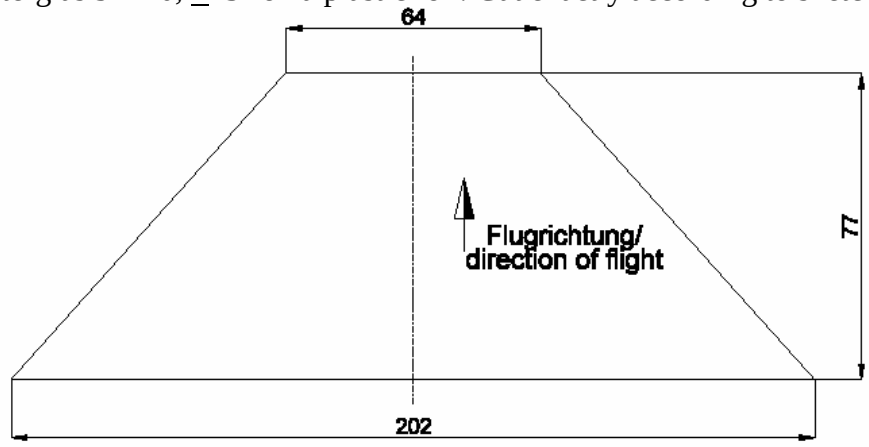
Issued: 30.08.2011

Reinforcement of the bulkheads of the C.G. tow hook



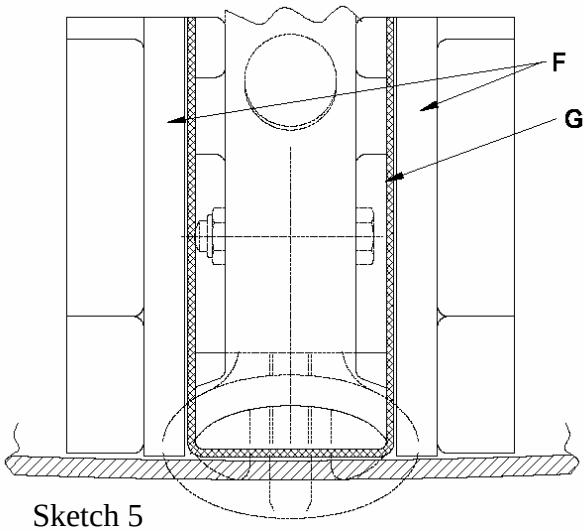
Sketch 3 only tow-hook Bulkhead with GFRP-plate F shown

7) Preparing the reinforcement glasfibre fabric G:
   Mix Epoxy-resin/hardener Momentive EPIKOTE TM Resin MGS LR 285 with EPIKURE TM Curing Agent MGS LH 286 (mixing ratio 100:40 by weight). Laminate 3 layers of Interglas 92140, ±45° on a plastic foil. Cut exactly according to sketch 4.



Sketch 4

8) Apply the resin/hardener mix (see item 7) to all gluing surfaces.
9) Thicken the resin/hardener mix with cotton-flocks and apply this mix to the gluing surfaces of the GFRP-plates.
10) Place the GFRP-plates to the bulkheads and press.
    Apply the pre-laminated reinforcement glasfibre fabric G according to sketch 5.
11) Let cure at room temperature
12) Post cure this fuselage section at min. 54°C for 18 hours.
13) Sand off excess glasfibre fabric.
14) **From ser. no. 5E24 on:** reinstall the tow hook access cover
    Ser. no. 5E1 ÷ 5E23: Trim the new tow hook access cover 5RU32/7, drill the holes and install.
15) Reinstall the height adjustable rear seat shell.



Sketch 5