

	Service Letter SL 29 R6	DO - No. EASA.21J.020
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Additional Application of Carbon Fiber Plies in Blade Tip Area

Affected Propellers: MTV-15-B/210-58 and MTV-15-B/205-58 on Husky A1-()
MTV-15-B/203-58 on ACA Scout
MTV-15-C/200-50p / MTV-20-C/200-50p and MTV-15-()/183-50
MTV-12-()/()180-57

Affected Blade Types: **180-57**, 183-50, 200-50p, 203-58, 205-58, 210-58

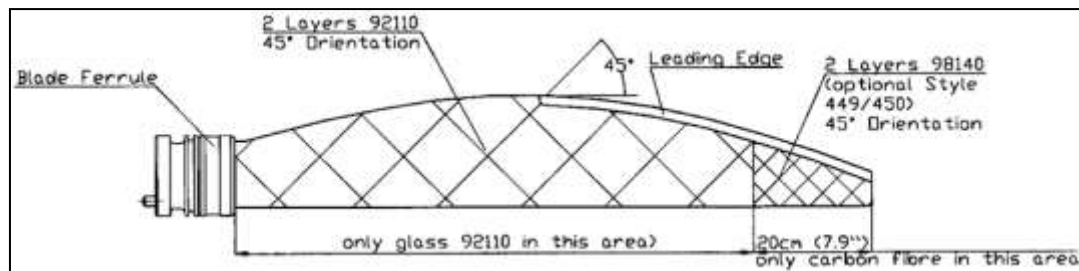
Reason: To improve the surface protection of the natural MT-Propeller composite blades and stainless steel / nickel protection erosion sheath on the above mentioned propeller models additionally to the 2 layers of fiber glass 2 layers carbon fiber must be applied (on the outer blade area only!).

Work Procedure: The additional layers are applied according to procedures shown in the applicable MT-Propeller Overhaul Manuals.

A. 183-50, 200-50p, 203-58, 205-58, 210-58

2 layers of fiberglass CM 5 are applied on the blade with $\pm 45^\circ$ orientation up to 20 cm / 7.9 in from the blade tip.

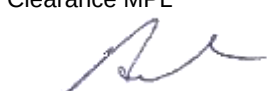
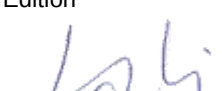
2 layers of carbon fiber CM 27 (optional CM 28A, CM 28B or CM 28C) are applied on the blade with $\pm 45^\circ$ orientation in the last 20 cm / 7.9 in to the blade tip. NO glass fiber in this area!



Attention: The transition from glass fiber to carbon fiber must be smooth and the blade core must be fully covered by overlapping.

To ensure good overlapping the first layer of glass fiber must end 18 cm (7 in) from the blade tip and the second layer must end 22 cm (8.7 in) from blade tip. Respectively the first layer of carbon fiber starts 18 cm (7 in) from the blade tip and the second layer 22 cm (8.7 in) from the blade tip. By that an overlapping area of 4 cm (1.7 in) is assured.

Smooth down by sanding during painting.

Clearance MPL  Martin Albrecht	August 27 th , 2021	Edition  Lara Neltzel
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B. 180-57

Apply 2 plies of CM 5 up to radius station R30 (11.8 in), 22.5 cm (8.9 in) measured from ferrule bottom, Orientation $\pm 45^\circ$

Apply 2 plies of CM 27 (optional CM 28A, CM 28B or CM 28C) from radius station R30 (11.8 in), 22.5 cm (8.9 in) measured from ferrule bottom up to the blade tip, orientation $\pm 45^\circ$.

No glass fiber between R30 and blade tip.

For this blade additionally apply 2 plies of CM 27 or CM 28 underneath the erosion protection sheath when installing it, orientation 0/90°.

Ensure that the material covers the basic composite material completely in order to have a complete coverage of the wooden core of the blade and thus prevent water intrusion.

Attention: During painting or application of the additional layers of composite only the transition areas (25mm/1in) maybe smoothened down by grinding. If more of the composite material is smoothened down the additional protection is not given resulting in an earlier repair or overhaul of the erosion protection sheath.

Publications Affected: Overhaul Manual E-1290 (latest Issue)

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