



DO - No. EASA.21J.020	Service Letter SL 56	Revision 2
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General Information for MT Propeller Trained Mechanics

Possible action against dynamic vibration on MT- Propeller

Affected Propellers:

 MTV-5-() / MTV-9-() / MTV-16-() / MTV-25-() / MTV-27-() / **MTV-47-()**
Reason:

Occurrence of dynamic vibration in flight, even after a successful dynamic balance was performed

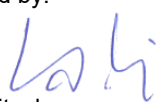
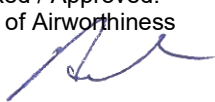
Affected Publications:

Overhaul Manual E-680

Work Procedure:

1. Make sure that propeller is dynamically balanced.
2. Procedure may be accomplished on the aircraft or on the propeller assembly stand.
3. Disconnect Beta Linkage or remove Beta Rod
4. Set blade angles to approximately 15° measured on the 75% station, use appropriate Beta Puller.
5. Mark blade stations 1 cm (0,39 inch) , 10 cm (3,94 inch) inboard of the tip and at reference station 0.75R
6. Measure blade angles on marked stations and write in appropriate table.
7. Determine the necessary blade angle correction in order to achieve a maximum angle tolerance of 0.5° between all blades on all measured stations.
8. Perform necessary correction by turning the pitch change blocks
9. Ensure that the highest blade angle deviations are located towards the blade root; the lowest blade angle deviations shall be located to the blade tip.
See examples in table 1 and 2.
10. Reassemble propeller and Beta Linkage

This work must be performed according Overhaul Manual E-680

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**Example for an angular pitch deviation
possibly causing aerodynamic vibrations in flight**

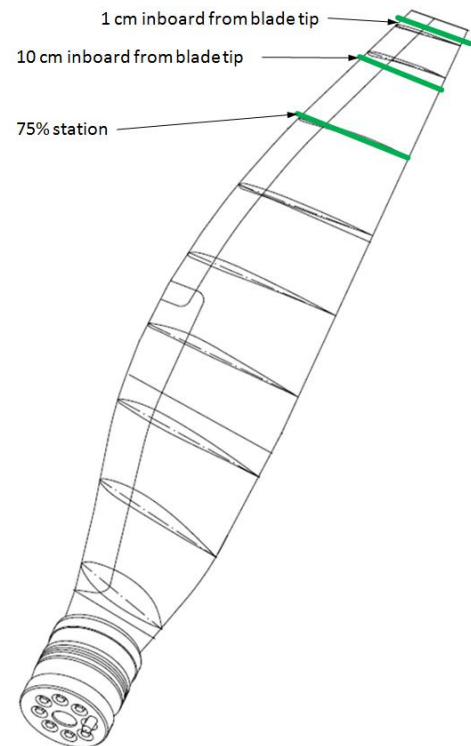
	Low pitch at R 75%	Pitch 10 cm from tip	Pitch 1 cm from tip
Blade #1	15.1°	9.3°	6.3°
Blade #2	15.0°	8.9°	5.8°
Blade #3	15.2°	9.2°	6.1°
Blade #4	15.2°	9.0°	6.2°
Blade #5	15.0°	9.1°	6.0°
Blade #6	15.1°	9.2°	5.9°
Blade #7	15.0°	9.0°	6.1°
Angular difference (max 0.5°)	0.2°	0.4°	0.5°

Table 1

**Example for an angular blade deviation
correcting aerodynamic vibrations in flight**

	Low pitch at R 75%	Pitch 10 cm from tip	Pitch 1 cm from tip
Blade #1	14.9°	9.0°	6.2°
Blade #2	15.4°	9.3°	6.2°
Blade #3	15.0°	9.2°	6.4°
Blade #4	15.2°	9.1°	6.4°
Blade #5	15.0°	9.2°	6.2°
Blade #6	14.9°	9.3°	6.4°
Blade #7	15.1°	9.0°	6.4°
Angular difference (max 0.5°)	0.5°	0.3°	0.2°

Table 2



Contact:

MT-Propeller Entwicklung GmbH
 Flugplatzstrasse 1
 94348 Atting
 Germany
 e-mail: techsupport@mt-propeller.com