

Doc. No. E-4158	Instructions for Continued Airworthiness	DOA No. EASA.21J.020
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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Doc. No. E-4158

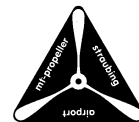
**MT-PROPELLER MODEL
MTV-12-B/180-59()**

ON

Mooney International Corporation

M20A, M20B, M20C, M20D

Published By:
MT-Propeller Entwicklung GmbH (DOA No. EASA.21J.020)
D-94348 Atting, Germany

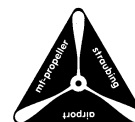


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Log of revisions

Rev. No.	Pages Revised	Description of Revision	Date	Approved by
0	All	Initial Issue	May 26, 2025	EASA
1	2, 5, 6, 7	Additional information supplemented.	March 10, 2026	MT-Propeller
2	7	Chapter 13 revised	April 14, 2026	MT-Propeller

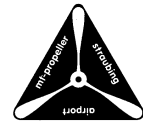
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1. Introduction

This document outlines the compliance with CS and FAR 23.1529 “Instructions for Continued Airworthiness” MT-Propeller Entwicklung GmbH MT-Propeller model MTV-12-B/180-59() on Mooney International Corporation M20A, M20B, M20C and M20D models. Modification of Mooney M20A, M20B, M20C and M20D with this STC obligates the airplane operator to include the maintenance information provided by this document in the Operator’s Aircraft Maintenance Manual and the Operator’s Aircraft Scheduled Maintenance Program.

Applicable Documents

MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 (E-124), latest revision.
MT-Propeller Installation Instructions Doc. E-4157, latest revision.
Approved AFM Supplement Doc. No. E-4156, latest revision.

Applicable Service Bulletins / Service Letters / Service Instructions

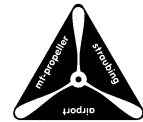
MT-Propeller Service Bulletin No. 1 Revision 9 or a later revision
MT-Propeller Service Letter No. 32 Revision 9 or a later revision
Additionally, see following Note.

Note:

Every owner should stay in close contact with his MT-Propeller dealer or distributor and Authorized MT-Propeller Service Shop to obtain the latest information pertaining to his propeller and its installation. MT-Propeller takes a continuing interest in having the owner get the most efficient use of his propeller and keeping it in the best mechanical condition. Consequently, MT-Propeller from time to time issues Service Bulletins, Service Letters and Manuals relating to the propeller and its installation. Service Bulletins are of special importance and should be complied with promptly. These are sent to dealers, distributors and latest registered owners. Service Letters deal with products improvements and service hints pertaining to the propeller and its installation. These are sent to dealers, distributors and occasionally (at the factory’s discretion) to latest registered owners. If an owner is not having his/her propeller serviced by an Authorized MT-Propeller Service Shop or MT-Propeller USA or Gerd Mühlbauer GmbH, Germany, he/she should periodically check with a MT-Propeller dealer or distributor or the MT-Propeller’s homepage to find out the latest information to keep his propeller up to date. The list of valid Manuals and Service Bulletins and their latest revisions can be downloaded from the homepage of MT-Propeller (www.mt-propeller.com) or be obtained from MT-Propellers Technical Support (techsupport@mt-propeller.com).
Hardcopies can also be obtained from MT-Propeller Germany and MT-Propeller USA.

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2. Description

The modification removes the existing propeller and spinner replacing it with the 3-blade MTV-12-B/180-59() propeller and appropriate spinner. The existing governor can be retained or an appropriate governor per MT-Propeller Service Bulletin No. 14, latest revision can be installed.

3. Control and Operation Information

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 (E-124), latest revision.

Refer to MT-Propeller Installation Instructions Doc. E-4157, latest revision.

Refer to the Airplane Flight Manual Supplement, Doc. No. E-4156, latest revision.

4. Servicing Information

MT-Propeller publications contain the information necessary to operate, maintain, and perform scheduled maintenance.

The list of valid MT-Propeller manuals, service bulletins and their latest revisions can be downloaded from the homepage of MT-Propeller (www.mt-propeller.com) or be obtained from MT-Propellers Technical Support (techsupport@mt-propeller.com).

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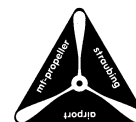
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In case any propeller related technical problems are observed during operation please report to the technical support of MT-Propeller (techsupport@mt-propeller.com).

Since the MT-Propeller may also pick up loose pieces of rock and debris from the ramp and runway, the blades should be checked prior to each flight for damage. The daily preflight shall include examination of the propeller blades and spinners for visible damage, cracks, grease or oil leakage, blade shake and blade angle play. Blade shake up to 1/8 inches (3 mm) and a blade angle play of 2° is allowed. No attempt should be made to dress out nicks as would be done with metal propeller blades.

The propellers may be cleaned with a mild solution of soap and water. Do not use solvents.



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5. Maintenance Instructions

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 latest revision and MT-Propeller Installation Instructions Doc. E-4157, latest revision.

6. Removal and replacement information

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24, latest revision and MT-Propeller Installation Instructions Doc. E-4157, latest revision.

7. Diagrams

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 (E-124), latest revision.

8. Troubleshooting

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 (E-124), latest revision Section 8.

9. List of special tools

Refer to MT-Propeller Operation and Installation Manual Doc. No. ATA 61-01-24 (E-124), latest revision.

10. Additional Information for Commuter Category Aircraft

Not applicable.

11. Overhaul Periods

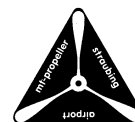
Overhaul is the periodic disassembly, inspection, reconditioning and reassembly of the propeller. The recommended Time Between Overhauls (TBO) for MT propeller published in the MT-Propeller's SB No. 1, latest revision

12. Airworthiness Limitations

No additional Airworthiness Limitations.

No mandatory replacement times for any propeller components.

The Airworthiness Limitations Section is EASA approved in accordance with Part 21A.31(a)(3) and FAR/CS/JAR 23.1529. Variations must also be approved.



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The Airworthiness Limitations Section is also FAA approved and specifies maintenance required under FAR 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

13. Revisions

Any revisions to this document will be logged in the Log of Revisions sheet. A black bar at the margin of a revised page shows the current change.

The latest revision of this document can be downloaded from the homepage of MT-Propeller (www.mt-propeller.com) or be obtained from MT-Propellers Technical Support (techsupport@mt-propeller.com).

Hardcopies can also be obtained from MT-Propeller Germany and MT-Propeller USA.

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