

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA03893AT

*This certificate issued to* MT-Propeller USA, Inc.  
1180 Airport Terminal Drive  
Deland, FL 32724

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of C.A.R. 3 and 14 C.F.R. 23.\**

*\* See Page 3 & 4*

*Original Product - Type Certificate Numbers:* A8SW, A5SW, A18SW  
*Make:* M7 Aerospace LP  
*Models:* SA227-AC (Metro III), SA227-AT (Merlin IVC)  
SA227-TT, SA226-T(B), SA227-BC, SA227-CC, SA227-DC

*Description of Type Design Change:*

-Installation of MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103 on M7 Aerospace LP aircraft models SA227-AC (Metro III) and SA227-AT (Merlin IVC) in accordance with the MT-Propeller Entwicklung GmbH Installation Instructions, Document Number E-1888, Revision 0, dated 18 November 2010, or later FAA approved revision.

-Installation of MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103 on M7 Aerospace LP aircraft models SA227-TT and SA226-T(B) in accordance with the MT-Propeller Entwicklung GmbH Installation Instructions, Document Number E-2085, Revision 1, dated 23 July 2013, or later FAA approved revision.

-Installation of MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103 on M7 Aerospace LP aircraft models SA227-BC, SA227-CC, and SA227-DC in accordance with the MT-Propeller Entwicklung GmbH Installation Instructions, Document Number E-2118, Revision 3, dated 23 July 2013, or later FAA approved revision.

*Limitations and Conditions:* This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. The modified aircraft shall be operated in accordance with the following MT-Propeller Entwicklung GmbH publications:

**(See Continuation Sheet Page 3 of 4)**

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application :* October 15, 2009

*Date reissued :*

*Date of issuance :* November 18, 2010

*Date amended :* July 24, 2013



*By direction of the Administrator*

(Signature)

Melvin D. Taylor  
Manager  
Atlanta Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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*Limitations and Conditions (Continued):*

- Aircraft Flight Manual Supplement for Fairchild Aircraft Model SA227-AC (Metro III) - 12,500 Pounds up to 16,000 Pounds with MTV-27-1-E-C-F-R(G)/CFRL250-103, 5-Blade Reversing and Full Feathering Constant Speed Propellers, Document Number E-1886, Revision 0, dated 18 November 2010, or later FAA approved revisions;
- Aircraft Flight Manual Supplement for Fairchild Aircraft Model SA227-AT (Merlin IVC) - 12,500 Pounds up to 16,000 Pounds with MTV-27-1-E-C-F-R(G)/CFRL250-103, 5-Blade Reversing and Full Feathering Constant Speed Propellers, Document Number E-1887, Revision 0, dated 18 November 2010, or later FAA approved revisions;
- Instructions for Continued Airworthiness, MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103, 5-Blade Reversing and Full Feathering Constant Speed Propellers on Fairchild Aircraft Model SA227-AC (Metro III) and Fairchild Aircraft Model SA227-AT (Merlin IVC) - 12,500 Pounds up to 16,000 Pounds, Document Number E-1889, Revision 0, dated 18 November 2010, or later FAA approved revisions;
- Aircraft Flight Manual Supplement for M7 Aerospace LP (Former Fairchild Aircraft) Model SA227-TT (Merlin IIIC & Merlin 300) and Model SA226-T(B) (Merlin IIIB) with MTV-27-1-E-C-F-R(G)/CFRL250-103, 5-Blade Reversing and Full Feathering Constant Speed Propellers, Document Number E-2390, Revision 0, dated 24 July 2013, or later FAA approved revisions;
- Instructions for Continued Airworthiness, MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103 on M7 Aerospace LP SA227-TT and SA226-T(B), Document Number E-2086, Revision 1, dated 23 July 2013, or later FAA approved revisions;
- Aircraft Flight Manual Supplement for M7 Aerospace LP (Former Fairchild Aircraft) Models SA227-DC, SA227-CC, SA227-BC with MTV-27-1-E-C-F-R(G)/CFRL250-103, 5-Blade Reversing and Full Feathering Constant Speed Propellers, Document Number E-2391, Revision 0, dated 24 July 2013, or later FAA approved revisions;
- Instructions for Continued Airworthiness, MT-Propeller Model MTV-27-1-E-C-F-R(G)/CFRL250-103 on M7 Aerospace LP (Former Fairchild Aircraft) Model SA227-DC, SA227-CC, SA227-BC, Document Number E-2119, Revision 1, dated 23 July 2013, or later FAA approved revisions.

*Certification Basis:*

Model SA227-AC (C-26A), 22PCLM. Normal Category. SFAR 41, Approved 8 May 1981, per Type Certificate Data Sheet A8SW. FAR 23 effective February 1, 1965, through Amendments 23-6; Special Conditions outlined in FAA letters November 19, 1965, August 22, 1967, February 5, 1968, and April 4, 1968; SFAR 23; SFAR 27 through Amendment 3; and Amendment C of SFAR 41 including paragraph 4(c) and the compartment interior requirements of 25.853 (a), (b), (b-1), (b-2), and (b-3) in effect on September 26, 1978; FAR 23.175(d) of Amendment 23-14; and FAR 36 Appendix F. through Amendment 36-6. Approved for flight into known icing in accordance with Rule 34 of SFAR 23 and SFAR 41.

- An "A" designation following the serial number signifies that the airplane is not eligible for SFAR 41 approval of weights greater than 12,500 lbs. Certification basis same as noted herein except omit SFAR 41 approval.
- The Airworthiness Limitations ST-UN-M001 Manual contains overhaul times, replacement times, and special inspections required for continued airworthiness.
- The C-26A is an SA227-AC airplane modified in accordance with ECP 567 or an SA227-BC modified per ECP 592. The FAA Approved Airplane Flight Manual Supplement for the C-26A configuration must be used.

Model SA227-AT 16 PCLM, Normal Category, SFAR 41, Approved 8 May 1981, per Type Certificate Data Sheet A5SW. CAR 3, effective May 15, 1956, through Amendments 3-8, and Special Conditions outlined in FAA letters dated November 19, 1965; August 22, 1967; February 5, 1968; and April 4, 1968; FAR 23.511 of Amendment 23-7 and FAR 23.175(d) of Amendment 23-14; Amendment C of SFAR 41 including paragraph 4(c) and the compartment interior requirements of 25.853(a), (b), (b-1), (b-2), and (b-3) in effect on September 26, 1978; and FAR 36 Appendix F, through Amendments 36-6. No exemptions.

- An "A" designation following the serial number signifies that the airplane is not eligible for SFAR 41 approval of weights greater than 12,500 lbs. Certification basis same as noted herein except omit SFAR 41 approval.
- If the certification basis specifies paragraph 4(b) of SFAR 41, the airworthiness certificate shall be endorsed, "This airplane at weights in excess of 5,700 kg does not meet the airworthiness requirements of ICAO, as

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prescribed by Annex 8 of the Convention on International Civil Aviation," and the basic Airplane Flight Manual must contain FAA approved SFAR 41 data. If the certification basis specifies paragraph 4(c) of SFAR 41, the airplane at weights in excess of 5,700 kg does not meet the airworthiness requirements of ICAO, as prescribed by Annex 8 of the Convention on International Civil Aviation and the endorsement specified above should not be included on the airworthiness certificate. However, the Airplane Flight Manual must contain FAA approved SFAR 41 data.

-The Airworthiness Limitation Manual contains overhaul times, replacement times, and special inspections required for continued airworthiness.

Model SA227-TT, 10 or 11 PCLM, Normal Category, Approved May 18, 1981, per Type Certificate Data Sheet A5SW.

As published in the FAA TCDS No. A5SW Rev. 26; 14 CFR Part 23 through Amendment 34; 14 CFR 36 Amendment 36-28; Reference MT-Propeller Entwicklung GmbH Document No. E-2051 Revision 1, dated 24 October 2011 for a list of applicable requirements and regulations.

Model SA226-T(B), 11 PCLM (Normal Category) Approved November 3, 1978, (Restricted Category) Approved July 29, 1980, per Type Certificate Data Sheet A5SW.

As published in the FAA TCDS No. A5SW Rev. 26; 14 CFR Part 23 through Amendment 34; 14 CFR 36 Amendment 36-28; Reference MT-Propeller Entwicklung GmbH Document No. E-2051 Revision 1, dated 24 October 2011 for a list of applicable requirements and regulations.

Model SA227-BC (Military C-26A), 22 PCLM, Normal Category, SFAR 41, Approved September 25, 1989, per Type Certificate Data Sheet A8SW.

As published in the FAA TCDS No. A8SW Rev. 22; 14 CFR Part 23 Amendment 1 thru. 34 plus Amendment 39 for 23.67 and 23.933; 14 CFR 36 Amendment 36-28. Reference MT-Propeller Entwicklung GmbH Document No. E-2115-1 Revision 1, dated 17 November 2011 for a list of applicable requirements and regulations.

Model SA227-CC, 21 PCLM, Commuter Category, FAR 23, Approved June 25, 1990, per Type Certificate Data Sheet A18SW.

As published in the FAA TCDS No. A18SW Rev. 4; 14 CFR 36 Amendment 36-28. Reference MT-Propeller Entwicklung GmbH Document No. E-2115 Revision 1, dated 17 November 2011 for a list of applicable requirements and regulations.

Model SA227-DC (C-26B), 21 PCLM, Commuter Category, FAR 23, Approved September 29, 1990, per Type Certificate Data Sheet A18SW.

As published in the FAA TCDS No. A18SW Rev. 4; 14 CFR 36 Amendment 36-28. Reference MT-Propeller Entwicklung GmbH Document No. E-2115 Revision 1, dated 17 November 2011 for a list of applicable requirements and regulations.

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