

Q F J - Propeller for the Merlin 2B

Flyer No.: FL-041

- Quiet Fan Jet Propeller Series -



mt-propeller



Type of Aircraft: SA26-AT
FAA STC: SA02782CH
EASA STC: A.S.03603
FAA Aircraft TCDS: A5SW
FAA Propeller P22BO
TCDS:

Applicable Aircrafts

M7 Aerospace LP Model SA26-AT (Merlin 2B)

Engines

TPE331-1-151G,
TPE331-1-151G modified per FAA STC SE383CH



STC Kit Contents

Two 5-Blade Reversing and Full Feathering Constant Speed Propeller
Two Full Composite Spinner (AFRP)
One Airplane Flight Manual Supplement
One Installation Instruction
One Instruction For Continued Airworthiness
One Operation and Installation Manual

MTV-27-1-E-C-F-R(G)/CFR210-58d
P-898-()
EASA Doc. No. E-1664, FAA i.p.
EASA Doc. No. E-1665, FAA i.p.
EASA Doc. No. E-1666, FAA i.p.
ATA 61-06-10 (E-610)

Propeller Specifications

Full Propeller Designation
Propeller Hub

Blade
Blade Design
Installed Propeller & Spinner Weight
Maximum Diameter
Minimum Diameter
TBO

MTV-27-1-E-C-F-R(G)/CFR210-58d
MTV-27-1-E-C-F-R(G)
Milled single-piece aluminum hub
CFR210-58d
Scimitar, light-weight natural composite
260 lbs
82.7 in.
81.9 in.
According to SB 1 () latest issue

Replaces

3-Blade Hartzell HC-B3TN-5()/T10178()-13R propellers (Diameter: 88.4 in.)

Advantages

- (Performance data are based on MTOW, SL, ISA)
- Best vibration damping characteristics for almost vibration free propeller operations
 - Bonded on nickel alloy leading edge for best erosion protection of the blades
 - No engine modifications (no cam or beta tube change)
 - Reduced ground roll and take-off distance
 - Improved two engine and single engine climb performance
 - Cruise performance slightly improved by up to 5 kts
 - Approx. 16 lbs less weight than the original metal propellers
 - Unlimited blade life
 - More ground clearance for less FODs
 - FOD repairable blades
 - Significant inside and outside noise reductions
 - Aircraft noise level is about 5 dB(A) less than with the original metal propellers
 - Cabin noise is reduced by 3 to 4 dB(A) depending on location

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