

STC – DATA v3.1

Type of Aircraft: SA226/SA227

FAA STC: A03893AT

EASA STC: 10015216

TCCA Acceptance: For all models received

FAA Aircraft TCDS: A8SW, A5SW, A18SW



Fairchild Metro

Applicable Aircraft: SA226-T(B), SA227-TT, -AC -AT, -CC,-BC, -DC

Engines: TPE331-10U-(), TPE331-11U-(), TPE331-12UA-(), TPE331-12UAR-(), TPE331-12-UHR-()

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

Propeller Specifications

Full Propeller Designation	MTV-27-1-E-C-F-R(G)/CFRL250-103
Propeller Hub	MTV-27-1-E-C-F-R(G) Milled single-piece aluminum hub
Blade	CFRL250-103
Blade Design	Scimitar, light-weight natural composite
Installed Propeller & Spinner Weight	308.6 lbs
Maximum Diameter	98.4 in.
Minimum Diameter	98.4 in.
TBO	According to SB 1 () latest issue

Replaces 4-Blade Dowty Rotol and 4-Blade McCauley and 4-blade Hartzell propellers (Diameter: 106 in.)

Advantages:

- (Performance data are based on MTOW, 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)
- Ground roll distance reduced by approx. 50 m (165 ft)
- Take-off distance over 50 ft obstacle reduced by approx. 80 m (260 ft)
- Two engine and single engine climb performance slightly improved by up to 80 ft/min
- Cruise performance slightly improved by up to 2 kts
- Approx. 65 lbs less weight than the original metal propellers
- Unlimited blade life, FOD repairable blades
- More ground clearance for less FODs
- 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