



mt-propeller



**Type of Aircraft:** Mooney M20M  
**FAA STC #:** SA09689AC  
**EASA STC #:** EASA.A.S.01212  
**Aircraft TCDS #:** 2A3  
**Propeller TCDS #:** P3BO

Applicable Aircraft  
Mooney M20M

Engine  
Textron-Lycoming according to aircraft TCDS  
2A3. TIO-540-A1FA, -A1FB



### **STC Kit Contents**

One 4-Blade Constant Speed Propeller  
One Full Composite Spinner (AFRP)  
One Airplane Flight Manual Supplement  
One Installation Instruction  
One Operation and Installation Manual

MTV-14-B/185-59b  
P-840-1  
Doc. No. E-1250  
Doc. No. E-1251  
ATA 61-01-24 (E-124)

### **Propeller Specifications**

Full Propeller Designation  
Propeller Hub

MTV-14-B/185-59b  
MTV-14-B  
Milled single-piece aluminum hub

Blade  
Blade Design

185-59b  
Scimitar, light-weight natural  
composite

Installed Propeller & Spinner Weight  
Maximum Diameter  
Minimum Diameter  
TBO

63 lbs  
72.8 in.  
72.8 in.  
2000 hrs / 72 month (whichever  
occurs first)

### **Options**

HiGlo® Full Composite Spinner (AFRP) with chrome finish

### **Replaces**

All propellers according aircraft TCDS No. 2A3

### **Advantages**

- Best vibration damping characteristics for almost vibration free propeller operations
- Bonded on stainless steel leading edge for best erosion protection of the blades
- Shorter take-off distance by approx. -8 % (SL, ISA conditions)
- Enhanced climb by approx. 2 % (SL, ISA conditions)
- Enhanced cruise performance by approx. 2 kts (MTOW, ISA conditions)
- Approx. 10 lbs less weight than the original propeller
- Unlimited blade life
- FOD repairable blades
- Significant inside and outside noise reductions

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