



## Mooney M20A-J With O-360-A1D, A2D, IO-360A1A, A3B6(D), -A1B6D



**Basic Kit: 180HP engine Models: M20A, M20B, M20C, M20D, M20G**

**Part Number: C2R10704STP**

**1 2-Bladed Propeller: HC-C2YR-1BFP/F7497**

**1 Composite Spinner (white): 103585(F1)**

**1 STC Document Set: SA02414CH-D**

**Basic Kit: 200HP engine Models: M20E, M20F**

**Part Number: C2R10703STP**

**1 2-Bladed Propeller: HC-C2YR-1BFP/F7497**

**1 Composite Spinner (white): 103585(F1)**

**1 STC Document Set: SA02414CH-D**

**Basic Kit: 200HP engine Model: M20J**

**Part Number: C2R10705STP**

**1 2-Bladed Propeller: HC-C2YR-1BFP/F7497**

**1 Polished Spinner: A-2295-5P**

**1 Spinner Mounting Kit: A-2476-10**

**1 STC Document Set: SA02414CH-D**

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**Aircraft Serial and registration numbers required when ordering**

**All Prices FOB Hartzell Propeller Inc.**

**Prices do not include Ohio State Sales Tax**

**Installation and Dynamic Balancing available at an additional charge**

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**Mooney M20A-J**

**Applicable Models:** Mooney M20A-J  
**\*Note: If cowling has been modified, a different spinner assembly may be needed, specific modification details are required to help ensure a correct fit.**

**Specifications:** 74 inch diameter  
 2 bladed **scimitar**  
 Aluminum hub  
 2400 hour/6 year TBO  
 62-64 pounds each (propeller & spinner)  
 Diameter reduction allowable to 72.5 inches  
 Placard – “No cont. ops. Above 24” manifold pressure between 2350 to 2550 rpm” (M20E, M20F only)

**Replaces:** Hartzell HC-C2YK-1BF/F7666A-2 - 74 in. dia. 2-bladed prop  
 Diameter reduction allowable to 72.5 inches  
 2000 hour / 5 year TBO  
 57 pounds (propeller and spinner)  
 Placard - “Avoid cont. ops. between 2100 and 2350 rpm.”

Hartzell HC-C2YK-1BF/F7666A-3Q - 73 in. dia. 2-bladed prop  
 Q-tip, no diameter reduction allowable  
 2000 hour / 5 year TBO  
 59 pounds (propeller & spinner)

Hartzell HC-C3YR-1RF/F7282 - 74 in. dia. 3-bladed prop  
 2400 hour / 6 year TBO  
 71 pounds (propeller and spinner)  
 Diameter reduction allowable to 73 inches  
 Placard -”Avoid cont. ops. below 15” between. 1950 and 2350 rpm”

McCauley C53 - 74 inch diameter 2-bladed prop  
 Diameter reduction allowable to 72.5 inches  
 1200-1500 hour / 5 year TBO  
 52.3 pounds (propeller and spinner)

McCauley C212 or C214 - 74 inch diameter 2-bladed prop  
 Diameter reduction allowable to 73 inches  
 2000 hour / 6 year TBO  
 54.3 pounds (propeller and spinner)  
 Placard - “Avoid cont. ops. below 15” between 1500 and 1950 rpm.”

**Advantages:** Reduced Noise  
 Same or better climb performance  
 Improved cruise performance efficiency  
 Longest TBO  
 Current design  
 Attractive design



**Mooney M20C, D, E, F, G  
With O-360A1D, -A2D, IO-360A1A engine**



**Basic Kit: 180HP engine**

**Part Number: C3R00021STP\*1**

**1 3-Bladed Propeller: HC-C3YR-1RF/F7282**

**1 Composite Spinner: 103629(F1) White OR 103629(F2) Silver**

**1 STC Document Set: SA4529NM**

**Basic Kit: 200HP engine**

**Part Number: C3R00920STP**

**1 3-Bladed Propeller: HC-C3YR-1RF/F7282**

**1 Composite Spinner: 103629(F1) White OR 103629(F2) Silver**

**1 STC Document Set: SA4529NM**

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**MOONEY**

**Applicable Models:** M20C, M20D, M20G (180 hp)  
M20E, M20F (200 hp)

\* **Note:** Not eligible to replace Mc fixed pitch prop on M20D

\*\* **Note:** M20B not listed on STC, but field approval has been obtained.

\*\*\***Note:** Upon ordering, please advise if the aircraft has had a cowling modification.

**Specifications:** 74 inch diameter 3-bladed aluminum hub propeller  
2400 hour / 6 year TBO  
71 pounds (propeller and spinner)  
Diameter reduction allowable to 73 inches  
Placard - "Avoid cont. ops. below 15" btwn. 1950 and 2350 rpm"

**Replaces:** Hartzell HC-C2YK-1BF/F7666A-2 - 74 in. dia. 2-bladed prop  
Diameter reduction allowable to 72.5 inches  
2000 hour / 5 year TBO  
57 pounds (propeller and spinner)  
Placard - "Avoid cont. ops. between 2100 and 2350 rpm."

Hartzell HC-C2YK-1BF/F7666A-3Q - 73 in. dia. 2-bladed prop  
Q-tip, no diameter reduction allowable  
2000 hour / 5 year TBO  
59 pounds (propeller & spinner)

McCauley C53 - 74 inch diameter 2-bladed prop  
Diameter reduction allowable to 72.5 inches  
1200-1500 hour / 5 year TBO  
52.3 pounds (propeller and spinner)

McCauley C212 or C214 - 74 inch diameter 2-bladed prop  
Diameter reduction allowable to 73 inches  
2000 hour / 6 year TBO  
54.3 pounds (propeller and spinner)  
Placard - "Avoid cont. ops. below 15" btwn 1500 and 1950 rpm."

**Advantages:** Better take-off and climb performance  
Longer TBO than McCauleys  
Dramatically lower noise  
Improved appearance  
Less restrictive placards



**Mooney M20J (201/205)  
With IO-360-A3B6(D), IO-360-A1B6D engines**



**Basic Kit:**

- Part Number: C3R00020STP**
- 1 3-Bladed Propeller: HC-C3YR-1RF/F7282**
- 1 Polished Spinner: A-2295-4P**
- 1 Spinner Mounting Kit: A-2476-7**
- 1 STC Document Set: SA4529NM**

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## MOONEY

**Applicable Models:** M20J (200 hp)

**Specifications:** 74 inch diameter 3-bladed aluminum hub propeller  
2400 hour / 6 year TBO  
71 pounds (propeller and spinner)  
Diameter reduction allowable to 73 inches  
Placard - "Avoid cont. ops. below 15" btwn. 1950 and 2350 rpm"

**Replaces:** Hartzell HC-C2YK-1BF/F7666A-3Q - 73 in. dia. 2-bladed prop  
Q-tip, no diameter reduction allowable  
2000 hour / 5 year TBO  
59 pounds (propeller & spinner)

McCauley C212 or C214 - 74 inch diameter 2-bladed prop  
Diameter reduction allowable to 73 inches  
2000 hour / 6 year TBO  
54.3 pounds (propeller and spinner)  
Placard - "Avoid cont. ops. below 15" btwn 1500 and 1950 rpm."

**Advantages:** Better take-off and climb performance  
Longer TBO than McCauleys  
Lower noise  
Improved appearance  
Less restrictive placards



## Mooney M20K (231/252) With all stock engines



### Basic Kit:

- Part Number: J3F00010STP**  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7663A-2R  
1 Polished Spinner: A-2295-1P  
1 STC Document Set: SA1505GL

### Kit with Electric De-ice: 12/14 Volt System

- Part Number: J3F00047STP**  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7663AK-2R  
1 Polished Spinner: A-2295-2P  
1 Electric De-Ice Kit (12/14 Volt System) (Prop): 7931-67-805-1  
1 Electric De-Ice Kit (12/14 Volt System) (Airframe): 7931-67-805-2  
1 STC Document Set: SA1505GL

### Kit with Electric De-ice: 24/28 Volt System

- Part Number: J3F00049STP**  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7663AK-2R  
1 Polished Spinner: A-2295-2P  
1 Electric De-Ice Kit (24/28 Volt System) (Prop): 7931-67-750-1\*1  
1 Electric De-Ice Kit (24/28 Volt System) (Airframe): 7931-67-750-2  
1 STC Document Set: SA1505GL

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Installation and Dynamic Balancing available at an additional charge

**MOONEY**

**Applicable Models:** M20K

**Specifications:** 76 inch diameter 3-bladed aluminum hub propeller  
2400 hour / 6 year TBO  
75 pounds (propeller and spinner)  
Diameter reduction allowable to 73 inches

**Replaces:** Hartzell BHC-J2YF-1BF/F8459A-11Q - 74 in. dia. 2-bladed prop  
Q-tip, no diameter reduction allowable  
2000 hour / 5 year TBO  
59.5 pounds (propeller and spinner)  
McCauley C216 - 74 inch diameter 2-bladed prop  
No diameter reduction allowed  
2000 hour / 6 year TBO  
60 pounds (propeller and spinner)

**Advantages:** Better take-off and climb performance  
Longer TBO than McCauley model  
Smoother operation  
Improved appearance  
Diameter reduction allowable in event of tip damage





## Mooney M20R Ovation and Ovation II (See reverse side for s/n information) With all stock engines



### Basic Kit:

Part Number: J3F00056STP  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7693DF-2  
1 Polished Spinner: A-2295-10P  
1 STC Document Set: SA02004CH

### Kit with Anti-ice boots only (when replacing a Hartzell 3-blade):

Part Number: J3F09100STP  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7693DFB-2  
1 Polished Spinner: A-2295-10P  
1 STC Document Set: SA02004CH

### Kit with complete Anti-Ice system (when replacing a McCauley 2 or 3 blade):

Part Number: J3F09105STP  
1 3-Bladed Propeller: PHC-J3YF-1RF/F7693DFB-2  
1 Polished Spinner: A-2295-10P  
1 STC Document Set: SA02004CH

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**MOONEY**

**Applicable Models:** M20R “Ovation” (S/N 29-0001 thru 29-0199, excluding 29-0183) and “Ovation II” (S/N 29-0183, 29-0200 and up)

The anti-ice kits are only to be used when anti-ice already exists.

**Specifications:** 76 inch diameter 3-bladed aluminum hub propeller  
 2400 hour / 6 year TBO  
 80 pounds (propeller and spinner)  
 Diameter reduction allowable to 75 inches

**Replaces:** McCauley 3A32C418/82NRC-9 - 73 in. dia. 3-bladed prop  
 2000 hour / 6 year TBO  
 76.6 pounds (propeller and spinner)  
 McCauley 2A34C241/82PGC-6 - 76 inch diameter 2-blade prop  
 2400 hour / 6 year TBO  
 65 pounds (propeller and spinner)

**Advantages:**

- Better take-off and climb performance compared to either McCauley option.
- Same-as or better cruise compared to either McCauley option at 65%+ power settings.
- Lower fly-over noise compared to 2-blade McCauley. Measured 78.67 dB(A) meets German, Swiss, and Austrian limits.
- 7% increase in idle-power descent rate
- Longer TBO than McCauley Ovation 3-blade
- Improved appearance, Scimitar-style blade planform
- Diameter reduction allowable in event of tip damage



## Mooney M20R, M20S, and M20TN with IO-550-G, IO-550-G-AP as modified by STC SE02930AT, IO-550-N, and TSIO-550-G Engines



### Basic Kit:

- Part Number:** J3F07507STP
- 1 3-Bladed Propeller:** PHC-J3YF-1RF/F7498( )
- 1 Polished Spinner:** A-2295-10P
- 1 STC Document Set:** SA03024CH

### Kit with Anti-Ice:

- Part Number:** J3F07550STP (Boots only)
- Part Number:** J3F07551STP (Boots and 3 blade slinger kit)
- 1 3-Bladed Propeller:** PHC-J3YF-1RF/F7498( )
- 1 Polished Spinner:** A-2295-10P
- 1 STC Document Set:** SA03024CH

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**MOONEY**

**Applicable Models:** M20R Ovation , Ovation II, Ovation III, M20S Eagle, and M20TN

**Specifications:** 76 inch diameter 3-bladed aluminum hub propeller  
 2400 hour / 6 year TBO  
 72.5 pounds (propeller and spinner)  
 Diameter reduction allowable to 74 inches

**Replaces:** McCauley 2A32C239/90MC-15- 75 in. dia. 2-bladed prop  
 2400 hour / 6 year TBO  
 56.0 pounds (propeller and spinner)

McCauley 3A32C418/82NRC-9 - 73 in. dia. 3-bladed prop  
 2000 hour / 6 year TBO  
 76.6 pounds (propeller and spinner)

McCauley 2A34C241/82PGC-6 - 76 inch diameter 2-blade prop  
 2400 hour / 6 year TBO  
 68 pounds (propeller and spinner)

Hartzell PHC-J3YF-1RF/F7693DF( )-2 76" diameter prop  
 2400 hour / 6 year TBO  
 80 pounds (propeller and spinner)

**Advantages:**

- Better take-off and climb performance compared to either McCauley option.
- Same-as or better cruise compared to either McCauley
- 7% decrease in glide distance (model R & S). Glide distance is unchanged for M20TN.
- Noise – No acoustic change.
- Improved appearance, Scimitar-style blade.
- Diameter reduction allowable in event of tip damage



## Mooney M20R, M20S, and M20TN with IO-550-G, IO-550-G-AP as modified by STC SE02930AT, IO-550-N, and TSIO-550-G Engines



### 3 Bladed ASCII Composite Propeller STC Kit:

**Basic Kit:**

- Part Number:** J3F80800STP
- 1 3-Bladed Propeller:** PHC-J3YF-1N/N7605C-2
- 1 Polished Spinner:** A-2295-10P
- 1 STC Document Set:** SA02482CH

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**MOONEY**

**Applicable Models:** M20R Ovation, Ovation II, Ovation III, M20S Eagle, and M20TN

**Specifications:** 76 inch diameter 3-bladed aluminum hub, ASC II Composite blades  
 2400 hour / 6 year TBO  
 64 pounds (propeller and spinner)

Placard: Manifold Pressure limited to 34". Do not operate above 30.5" below 2500 RPM.

**Replaces:** McCauley 2A32C239/90MC-15- 75 in. dia. 2-bladed prop  
 2400 hour / 6 year TBO  
 56.0 pounds (propeller and spinner)

McCauley 3A32C418/82NRC-9 - 73 in. dia. 3-bladed prop  
 2400 hour / 6 year TBO  
 76.6 pounds (propeller and spinner)

McCauley 2A34C241/82PGC-6 - 76 inch diameter 2-blade prop  
 2000 hour / 6 year TBO  
 68 pounds (propeller and spinner)

Hartzell PHC-J3YF-1RF/F7693DF( )-2 76" diameter prop  
 2400 hour / 6 year TBO  
 80 pounds (propeller and spinner)

**Advantages:**

- Better take-off and climb performance compared to either McCauley option.
- Same-as or better cruise compared to either McCauley
- 7% decrease in glide distance (model R & S). Glide distance is unchanged for M20TN.
- Noise – No acoustic change.
- Light weight
- High durability and lowest life cycle cost.