



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

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

Telephone: (937) 778-5726 Option 2 / (800) 942-7767 Option 2
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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

Aircraft Serial and registration numbers required when ordering
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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

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



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.