

**HARTZELL PROPELLER INC.**

One Propeller Place  
Piqua, Ohio 45356-2634 U.S.A.

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**HARTZELL**

January 8, 2010

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Mr. Darren Tilman  
Power Flow Systems, Inc.  
1585 Aviation Center Parkway, Suite 605  
Daytona Beach, FL 32114

Subject: Propeller Compatibility

Dear Sir:

Listed below are Hartzell propeller models considered to be compatible vibrationwise when mounted on the listed Lycoming engine models equipped with Power Flow tuned exhaust systems and installed in single engine tractor aircraft.

Propeller Models: HC-(C,F,M)2YR-1BFP/F7497

Engine Models: Lycoming IO-360-A1B6, -A1B6D, -A3B6, -A3B6D, -A1D6, -A1D6D, -C1C6, -C1D6D, -C1E6, -C1E6D, -B1A, -B1B, -B1D, -B1E, -B1F, -E1A, -M1A, -M1B O-360-A1A, -A1D, -A1AD, -A1F, -A1G, -A1H, -A1P, -C1A, -C1C, -C1E, -C1F

Operating Restriction: None

Diameter Limits: 74 to 72 inches

Propeller Models: HC-(C,F,M)2YR-1BFP/F7497

Engine Models: Lycoming IO-360-A1A, -A1B, -A1C, -A1D, -C1A, -C1B, -C1C, -C1F, -D1A

Operating Restriction: Continuous operation is prohibited above 24" manifold pressure between 2350 and 2550 RPM. (This restriction applies to engines with or without Power Flow exhaust.)

Diameter Limits: 74 to 72 inches

Propeller Model: HC-C3YR-1RF/F7282

Engine Models: Lycoming IO-360- A1A, -A1B, -A1C, -A1D, -C1A, -C1B, -C1C, -C1F, -D1A, - A1B6, -A1B6D, -A1D6, -A1D6D, -C1D6, -C1E6, -C1E6D O-360-A1F6, -A1F6D

Operating Restriction: Avoid continuous operation below 22" manifold pressure between 1950 and 2350 RPM. (This restriction applies only to engines equipped with Power Flow exhaust.)

Diameter Limits: 74 to 73 inches

Propeller Model: (HC-(2Y)-(0/076660)-(-2), -3), -4)

Engine Models: Previously approved Lycoming (IO-360 series engines with or without crankshaft dampers, 180 or 200 HP

Operating Restriction: Any previously established operating restriction. (This restriction applies to engines with or without Power Flow exhaust.)

Diameter Limits: 76 to 72 inches

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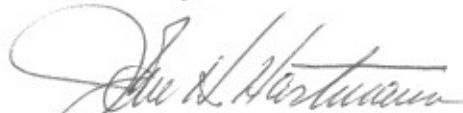
Propeller Model: HC-C2YR-1N/N7605(-2)  
Engine Models: Previously approved Lycoming (I)O-360 series engines without  
crankshaft dampers, 180 HP  
Operating Restriction: None  
Diameter Limits: 76 to 74 inches

Propeller Model: HC-C2YR-1BF/F8477  
Engine Models: Previously approved Lycoming (I)O-360 series engines with crankshaft  
dampers, 180 or 200 HP  
Operating Restriction: None  
Diameter Limits: 84 to 78 inches

Propeller Model: HC-C2YR-1BF/F8477-4  
Engine Models: Previously approved Lycoming (I)O-360 series engines without  
crankshaft dampers, 180 or 200 HP  
Operating Restriction: The propeller must be equipped with a Hartzell Model C-1576  
Damper Assembly. (This restriction applies to engines with or without Power Flow  
exhaust.)  
Diameter Limits: 80 to 78 inches

Please contact me if you have any questions or require additional information.

Yours truly,



John H. Hartmann  
Senior Test Engineer