

HARTZELL PROPELLER INC.

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

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: (0)HC-(0)2Y(0)-(0)7666(0)(-2(0), -3(0), -4(0))
Engine Models: Previously approved Lycoming (I)O-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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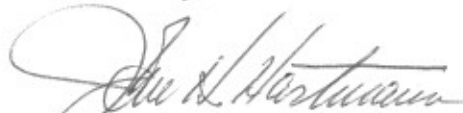
Propeller Model: HC-C2YR-1N/N7605(-2)
Engine Models: Previously approved Lycoming (I)O-360 series engines without
crankshaft dampers, 180 HP
Operating Restriction: None
Diameter Limits: 76 to 74 inches

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