

# THRUSH

A I R C R A F T



## Making a great aircraft even better.

### Product enhancements

Thrush aircraft have always been known for their superior handling, amazing durability and, most importantly, being purpose-built to bring their pilots home safely each night. But here at the factory, we never rest on our laurels. And, in fact, our engineers are working diligently to make the aircraft we build even better.



We always maintain a primary focus on safety – and then expand our engineering team’s work to include ease of operation and maintenance, enhanced productivity and consistently better production techniques. Just as important, we listen to the folks who own, operate and maintain our aircraft day-in and day-out and we act on what we hear. From aircraft accessibility during preflight inspections, to improving electrical connections and extending fuel nozzle life – the things we learn in the field allow us to constantly improve the aircraft we build.

#### 1 Hopper redesign

We’ve redesigned the hopper on the Thrush 710P and, as a result, all the individual parts fit more precisely during the build process – which reduces maintenance in the field and reduces the weight of the aircraft by an estimated ten pounds.

#### 2 Tube nut securing with one bolt

We’ve redesigned the tube nut joint retention feature at the wing splice for the Thrush 510 series models. This new design reduces spare parts count and provides easier maintenance.

#### 3 Improved turtle back design

We’ve redesigned the turtle back on the dual cockpit 710P to provide more precise fit and finish and to correct some reported field issues. This redesign also saves weight and reduces maintenance.

#### 4 Engine nozzle drain rerouting

On the Thrush 701P, we’ve rerouted the engine nozzle drain hose to provide better fuel drainage, reduce maintenance needs, and increase life of the engine fuel nozzles.

#### 5 Additional step path

On the Thrush 710P, we’ve designed steps and installed handles to create an alternate path for pilots to enter and exit the aircraft. This enhancement was designed at a request of pilots and operators. This new path begins from the leading edge of the wing and will ease preflight inspections by shortening the path to the cockpit.

#### 6 Additional grab handles

We’ve added additional outside grab handles for all our current models to aid entrance and egress to the cockpit. These handles are ergonomically located and are especially helpful when the cockpit windows are closed.

#### 7 Stainless step

On the Thrush 510P, we’ve implemented a stainless-steel step (similar to the one found on the 510G) to provide better corrosion resistance and longer life, as well as improving how darn good the airplane looks every time you walk up to it.

#### 8 New fire extinguisher

The new fire extinguisher is as efficient as the previous design, but more environmentally friendly – and its installation location is now unified for all models. The new fire extinguisher is installed in the cockpit on the left side of the aft cabin wall – and is now clearly visible from the outside as well.

#### 9 New electrical power cables

We’ve upgraded our power cables to military specifications. We’ve also revised routing of the cables to prevent moisture accumulation at the termination points. Both of these improvements will greatly reduce maintenance needs.

#### 10 New batteries

We’ve implemented new sealed, non-spillable batteries in all of our aircraft. These new TSO Authorized, DO-160E tested batteries provide better build quality, implementation of modern technology and less maintenance. And, due to the increased service life of these new batteries, less expense on spare parts as well.

#### 11 “Cool” windows

Beginning next year, we’ll be implementing ultraviolet (UV) and infrared (IR) resistant windows for our side windshields and cockpit side glazing. This improvement will reduce heat transfer into the cabin, and make air conditioning more efficient – both of which will greatly reduce pilot fatigue.

#### 12 Bird strike resistant windshield

We’ve teamed with Storm Aeronautics to incorporate their legendary Storm Shield™ windshields as standard equipment on all new Thrush aircraft. These new windshields provide superior protection for pilots against bird strikes and enhance the overall durability of our aircraft.

# THRUSH

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