



Notice Number: DF 1401

Supersedes: None

“SAFETY DIRECTIVE”

Date of Notice: 15/06/2014 mm/dd/yyyy

Date Notice takes effect: 15/06/2014 mm/dd/yyyy

Limitations for Completion: All Dragonfly Aircraft built before June 2014.

Make and Model of the affected LSA: All Pitman Air Dragonfly, 582 & 912 versions

Serial Numbers of the affected LSA: All up to and including S/N PA-XXX-127

When Corrective Action must take place: ASAP As Soon As Practicable

Description of Correction Action: Change Bolt #8 of Section 9 if Head Marking is “CS” to insure proper performance of bolt.

For Dragonfly Aircraft not built by Pitman Air, follow these instructions. Inspect bolt head for Manufacturer marking. If it is CS (California Screw Products) Exchange Bolt at intersection of Forward Tube of Vertical stabilizer and Leading edge brackets (horiz stab brkt DFI 008 Section 9 # 7 & 8) of Horizontal Stabilizer as described in attached Correction Instructions.

Who is Qualified to perform Corrective Action: LSRM (Light Sport Repairman Maintenance Rating) with appropriate skills or A&P with appropriate skills.

NOTE: Always use proper Personal Protective Equipment and Safe Guards required by OSHA and/or your State or local Safety Authority.

Tools Required:

SAE wrench and Socket Set.

Calipers that can measure up to 3” thickness.

Parts Needed:

1 each AN3-25AS Bolt “Certified Only”

1 each AN 363-1032 Nut

Where to obtain parts: Pitman Air LLC, Aircraft Spruce and Specialty, or suitable supplier of Certified Bolts.

Instructions for Completion:

Read through all steps before beginning work to make sure you have clear understanding of processes.

The process replace bolt that passes through Vertical Stabilizer Leading Edge Tube and Horizontal Stabilizer Leading Edge Attachment Brackets. (2 each, **horiz stab brkt DFI 008 Section 9 # 7 & 8**). This bolt can be identified by referring to the Dragonfly Maintenance Manual Section 9 Step 8. Also refer to Sections 8 and 12 during instructions.

First, Before taking anything apart, determine grip length of bolt needed. Use Calipers to determine the distance from one side of Aluminum Bracket DFI 008 to the opposing side to see what grip length will be needed. (Grip length is the distance in which the bolt is holding parts together, not including un-necessary washers). Determine whether the new bolt will need washers to avoid the nut from bottoming out on the threads. You will use washers under the head of the bolt (not under the nut) to get the proper grip length from the supplied AN3-25AS bolt. This will allow room near the nut for folding of the horizontal stabilizers for transport.

Second loosen bolt and nuts (But to not remove nut) holding cables between tail wheel bracket, outboard of horizontal stabilizers and vertical stabilizer/Tow Mast (seen in Drawing 12A) This will allow slack in the cables to do your work. Disconnect lower part of lower cables at Tail Wheel bracket Item 13 in Section 8. and Bolt 8 in Drawing 12A, allowing horizontal stabilizers to fold up next to Rudder. But leave them down for now. On the side of the Bolt Head (the bolt we are replacing, Bolt 8 Section 9) remove Bolt 7 Drawing 12A to allow the leading edge to be lifted out of the way, to allow clearance to pull the bolt we are replacing. Tighten nut Tight but do not crush tubing of Vertical Stabilizer. Put Leading Edge of Horizontal Stabilizer back in position and replace Bolt 7 Drawing 12A.

Now confirm Horizontal Stabilizers can be folded up without hitting the new Bolt or Nut. **Be sure Bolt 8 of Drawing 12A is removed**, This bolt ties the action of both elevators together. If needed a little of the Leading Edge Tube of the Vertical Stabilizer can be removed with Die Grinder or Rattail File. Only remove enough to gain clearance.

Inspect Reassembled brackets with **Certified AN3-25AS and Metal Nut AN 363-1032**. Reconnected horizontal stabilizer leading edge with hardware removed. Re attach cables to tail wheel bracket and **replace Bolt 8 in Drawing 12A** which forces stabilizers to work together. Tighten bolts as described in each section concerned. Insure all Fasteners are properly installed and tightened to specified values in manual.

NOTE: If the leading edge tube of the horizontal stabilizer interferes with the new bolt and/or nut when trying to fold stabilizers up or down, use a Rat Tail File or Die Grinder to remove just enough of the leading edge tube to gain clearance.

After completion, inspect all areas effected for proper installation and torques.

NOTE: Logbook Entries: Must be made that show the successful completion of corrective action, who, what, when. and parts used (including Batch and Date information), and from where they came, invoices etc.

