



## SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. 0114

Page 1 of 3

DATE: January 23, 2012

1. SUBJECT: Pylon Tube Inspection, P/N 28-11100-71
2. MODEL: F-28A, 280, F-28C, 280C, F-28F, 280F, and 280FX
3. EFFECTIVITY: S/N 829 and prior; S/N 2134 and prior
4. BACKGROUND:

Enstrom discovered a manufacturing anomaly regarding a bowed pylon tube, P/N 28-11100-71, which appears as an inboard deflection between the belt tension mounting bracket weldment and the aft weldment cluster at the tailcone attachment point. Enstrom has corrected the manufacturing process to prevent further occurrences and has also determined an acceptable deflection limit based on structural analysis.

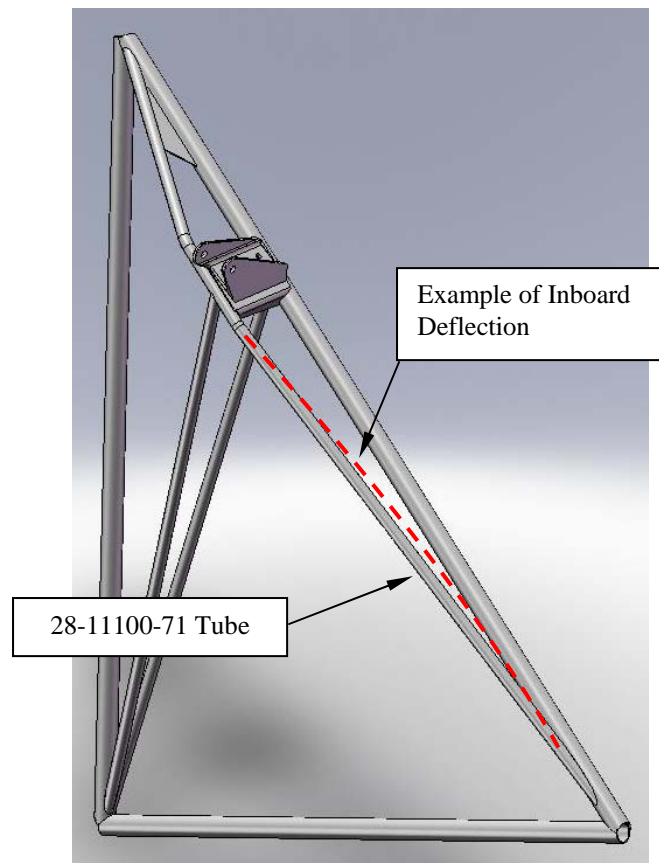
This Service Directive Bulletin (SDB) requires a one-time inspection of the P/N 28-11100-71 tube between the belt tension mounting bracket weldment and the aft weldment cluster at the tailcone attachment point for bowing.

5. COMPLIANCE:

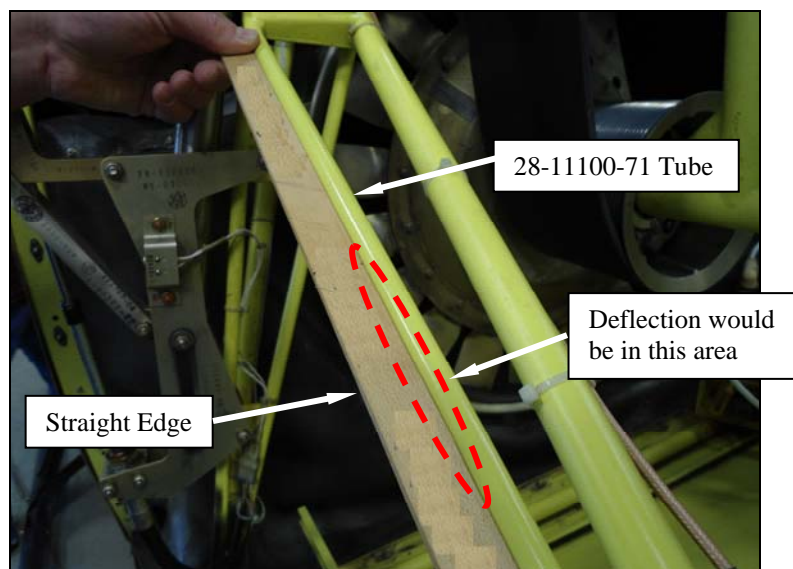
Inspect the P/N 28-11100-71 tube for bowing at the next 100-hour/annual inspection.

6. INSPECTION:

- 6.1 Remove the wraparound cowl or left-hand aft cowl, as applicable.
- 6.2 Inspect the P/N 28-11100-71 tube (*Figure 1*) for bowing. Place a straight edge tool along the outboard side of the tube (*Figure 2*). Any deflection will be observed near the middle of the tube.
  - 6.2.1 If the tube is straight, no additional inspection is required.
  - 6.2.2 If the tube is bowed, measure the deflection at the largest gap between the tube and the straight edge.



*Figure 1.* This is a drawing model of a partial pylon assembly and P/N 28-11100-71 pylon tube (view looking down). The dashed line along the tube represents the direction of potential tube deflection.



*Figure 2.* Straight edge tool aligned along the outboard side of P/N 28-11100-71 pylon tube. This photo shows an example of a straight tube. Any deflection would appear as a gap in the noted area.

- 6.2.3 If the gap measures 0.001-0.179 inch (0.02-4.5 mm), no additional action is required.
  - 6.2.4 If the gap measures 0.18-0.20 inch (4.6-5.1 mm), report the findings to Enstrom Customer Service for statistical data.
  - 6.2.5 If the gap measures 0.20 inch (5.1 mm) or greater, the pylon tube must be replaced. Contact Enstrom Customer Service for repair instructions.
- 6.3 After repair or inspection, as appropriate, re-install the cowling removed in step 6.1 and make a log book entry.
- 7. PARTS: None
  - 8. SPECIAL TOOLS: None
  - 9. MAN-HOURS: Inspection – 5 minutes
  - 10. WARRANTY: Per Enstrom Warranty Policy
  - 11. WEIGHT CHANGE: None
  - 12. LOG BOOK ENTRY:  
Record this inspection or modification in detail as required for maintenance actions.
  - 13. REPETITIVE ACTION: None