

### Service Letter

**Title:** Bell M429 Environmental Control Unit installation inspection and possible replacement

**Date:** 13 May 2013

**Applicability:** Owner/Operators of Bell M429 Helicopters with STC SR00693DE Air Conditioning System

**Reference:** FAA / STC # SR00693DE, Bell M429 Air Conditioning System 429EC-700 Condenser Installation Drawing

**Compliance:** Within 30 days after receipt of Service Letter. All M429 SNs with STC # SR00693DE installed (verify in log book).

**Discussion:**

Air Comm has recently been advised of condenser blower fans developing free play relative to the motor shaft. This could eventually result in reduced fan performance, even to the point that the fan no longer turns, rendering the air conditioning ineffective when the aircraft is not moving forward.

As a result of this, Air Comm Corporation, as the STC holder, requests that all operators of Bell 429 aircraft with STC SR00693DE installed check the condition and security of the condenser blower fan wheel and its attachment hardware.

In case a non-conforming condition is identified as a result of this verification, the operator shall contact Air Comm Corporation for further instructions.

**Approval:**

The technical aspects of this service letter are based on FAA approved data.

**Weight & Balance:**

There is no change in weight due to the inspection.

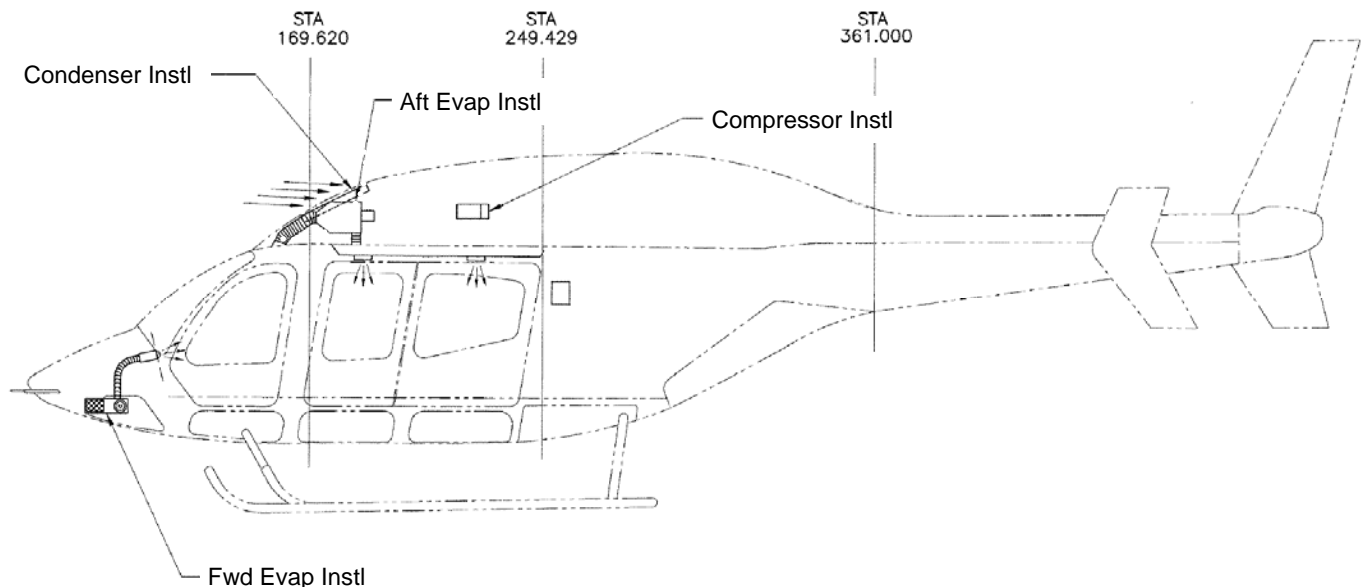
**Revision History:**

Revision	Issue Date	Inserted By	Approved	Description of Changes
N/C	5/13/13	RL		Initial Release
1	6/5/13	RL	<i>RL</i>	Changed inspection criteria

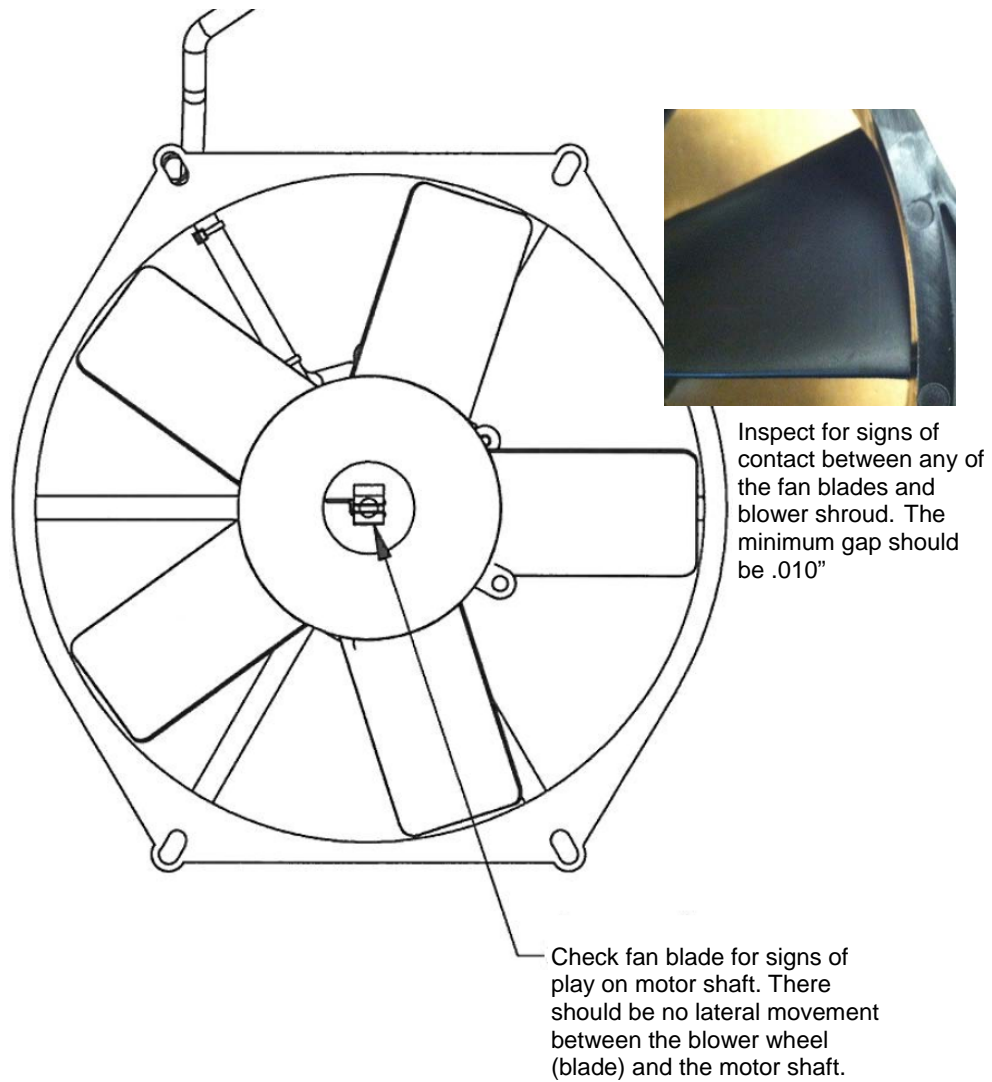
### Inspection Instructions:

1. Prepare helicopter for maintenance.
2. Remove upper cowlings as necessary to gain access to the condenser assembly (Figure 1.1).
3. Check fan blade for signs of play on the motor shaft. (Figure 1.2) There should be no lateral movement between the blower wheel (blade) and the motor shaft. Inspect for signs of contact between any of the fan blades and blower shroud. There should be no indications of contact or rubbing between the fan blades and the shroud. The minimum gap should be .010". If any anomalies are found, contact Air Comm Corporation for guidance on disposition.
4. Secure aircraft.
5. Contact Air Comm Corporation if additional guidance is required.

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**Figure 1.1**  
**Air Conditioner System Layout**



**Figure 1.2**  
**S-6063EC-1 Condenser Blower Assembly**