

Service Letter

Title: Bell Model 429 Air Conditioning System Product Improvements

Date: September 10, 2015

References: ACC Service Kit SK-429EC-600-2
ACC Service Kit SK-429EC-800
ACC Service Kit SK-429EC-7000

1.0 Introduction:

Air Comm Corporation policy is to monitor the performance and operation of our systems in the field and make available improvement changes when indicated. This letter describes a number of product improvement changes that are available for the Bell 429 air conditioning systems. Service kits for these changes, which are described below, can be ordered by contacting the ACC Customer Service Department.

2.0 Applicability:

ACC Drawing 429EC-204-1 Dual Forward/Aft Evaporator Installation
ACC Drawing 429EC-206-1 Single Forward/Aft Evaporator Installation

Weight & Balance:

There is minimal change in weight and/or balance due to this alteration.

3.0 Product Improvement Service Kits:

3.1 Service Kit SK-429EC-600-2: Relocation of Cockpit Conditioned Air Outlets

The existing factory designed cockpit air outlets are located below the instrument panel and at the lower area of the doorposts. Effective cooling of any air conditioning system requires that the conditioned airflow from the outlets be directed at the face and/or upper body of all occupants. The service kit relocates the doorpost outlets to the side of the instrument panel in order to achieve effective cooling for the cockpit crew.

Revision History:

Revision	Issue Date	Inserted By	Approved	Description of Changes
N/C	9/10/2015	KJM		Initial Release

3.2 Service Kit SK-429EC-7000: Condenser Blower Motor Upgrade

This change incorporates a replacement condenser blower that features increased airflow and improved blower reliability. The advantage to this upgrade is an improvement in compressor service life due to a reduction in system discharge pressure. In addition, the new blower eliminates system high pressure cutoff during extended operations on the ground or hover in extreme ambient conditions. This change does not produce a significant improvement in cabin cooling but rather reduces system discharge pressure to eliminate compressor cycling which is essential to maintaining consistent cabin and cockpit temperature.

3.3 Service Kit SK-429EC-800: Compressor Clutch Wire Modification

This change enhances the grounding of the compressor clutch resulting in improvement of the service life of the clutch.

4.0 Estimated Completion Time:

4.1 SK-429EC-600-2: 4 man hours

4.2 SK-429EC-7000: 16 man hours

4.3 SK-429EC-800: 8 man hours

***** Installation times are only estimates based on customer feedback. The time required may be more or less than the estimate based on aircraft configuration and installer experience. *****