

Service Kit

Service Kit no.: SK-429EC-600-2

Title: Bell 429 Instrument Panel duct upgrade installation

Date: November 4, 2015

Purpose: To provide instructions for the installation of a modification to the cockpit air conditioner outlets. This modification to the 429 factory cockpit air duct design is intended to redirect conditioned air to the upper body of the crew. The existing outboard outlets located by the door pillars are replaced by outlets located on the sides of the instrument panel glare shield.

Applicability: Bell Helicopter Model 429 Helicopters equipped with any of the Air Comm Corporation Air Conditioner systems: 429EC-200-1, 429EC-200-3, 429EC-200-5, 429EC-200-6, 429EC-202-1, 429EC-202-3, 429EC-202-4


Reference: STC, SR00693DE Cabin Air Conditioning System.
Drawing 429EC-600

Compliance: Optional, at the discretion of the operator.

Approval: The information provided within this document is based on previously FAA approved data.

Bill of Materials (Items to be installed)

Item	Qty.	Description	Part Number to be Installed
1	1	Assy, RH Outlet Duct	S-9810EC-1
2	1	Assy, LH Outlet Duct	S-9810EC-2
3	2	Connector, Outlet	S-6135EC-100
4	2	Duct, CAT 8, 1.5 in Lng x 2.0 O.D.	ES70009-8
5	8	Cable Tie	MS3367-1-0
6	2	Duct, CAT 6, 9.5 in. Lng. X 1.5 O.D.	ES70009-6
7	4	Screw, Hex Hd., 10-32 x 1.0 Lng.	NAS1801-3-16
8	4	Washer, Flat, no. 10	NAS1149F0332P
9	4	Shim, Spacer	S-9844EC-101
10	2	Cover, Outlet	429EC-6014-100
11	4	Screw, Rd Hd. 8-32 x .5L	MS27039-0808
12	4	Nut, Locking, 8-32	MS21083N08
13	8	Washer, #8 Flat	NAS1149CN816R

Revision	Issue Date	Inserted By	Approved by	Description of Changes
NC	6/15/2015	JMB	KP	Initial Release
A	7/22/2015	JMB	KP	Updated the Introduction, revised the applicability to all 429 aircraft
B	8/4/2015	JMB	KP	Added outlet covers and mounting hardware for covers
C	10/9/2015	JMB	KP	Added Note on pg 3 to provide instruct. for aircraft w/ alternate duct configuration
D	11/3/2015	JMB		Added figure 4

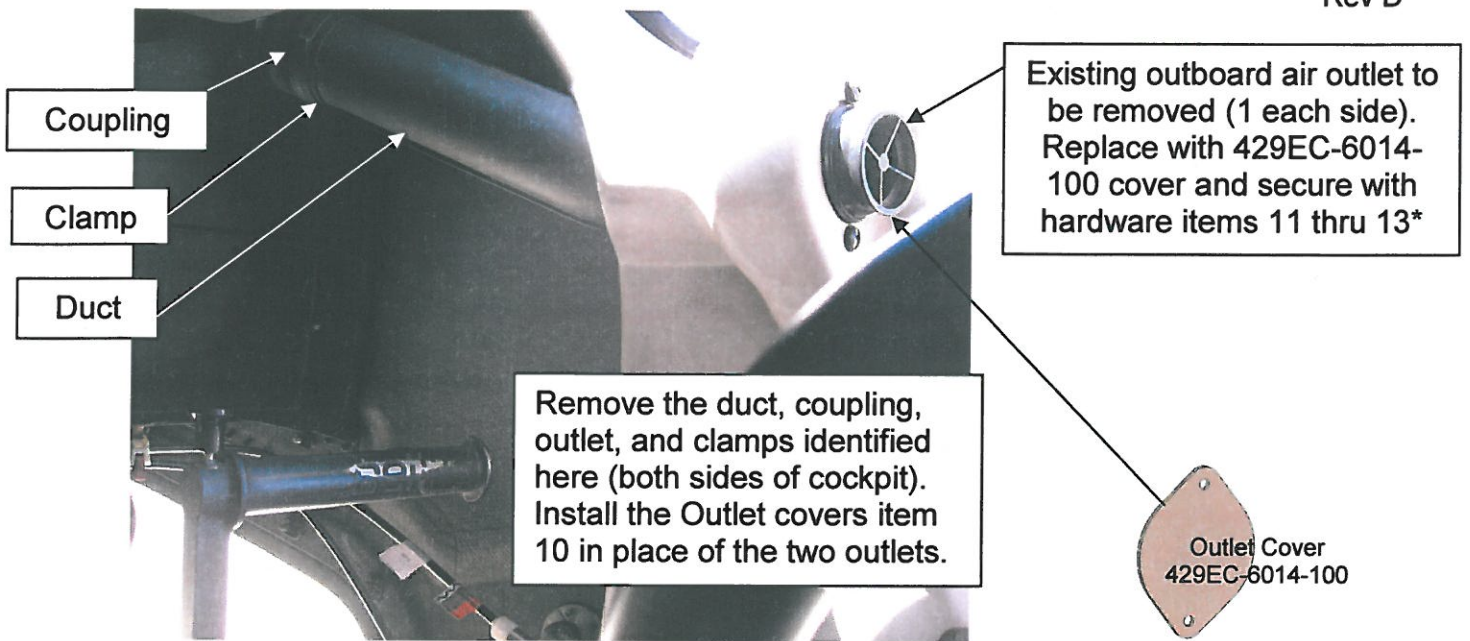


Figure 1. Removal of existing ductwork

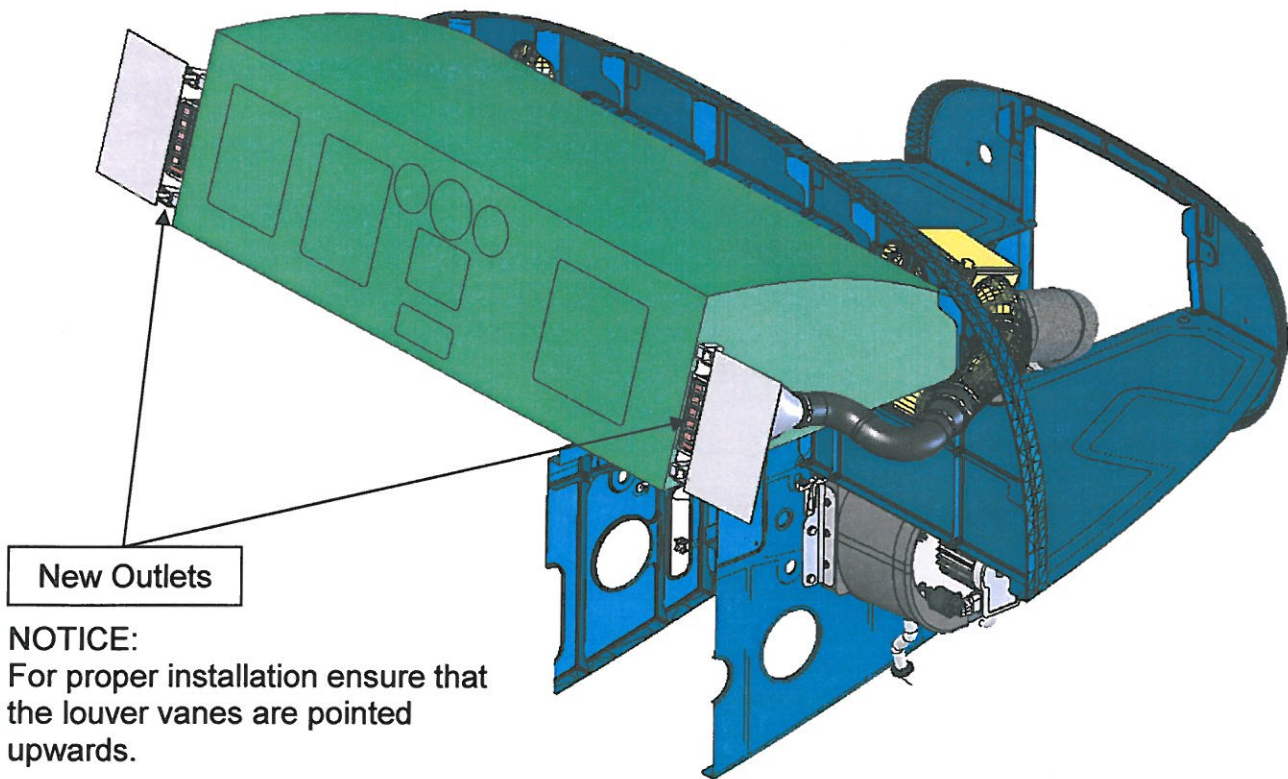


Figure 2. New Outlets installed and routed

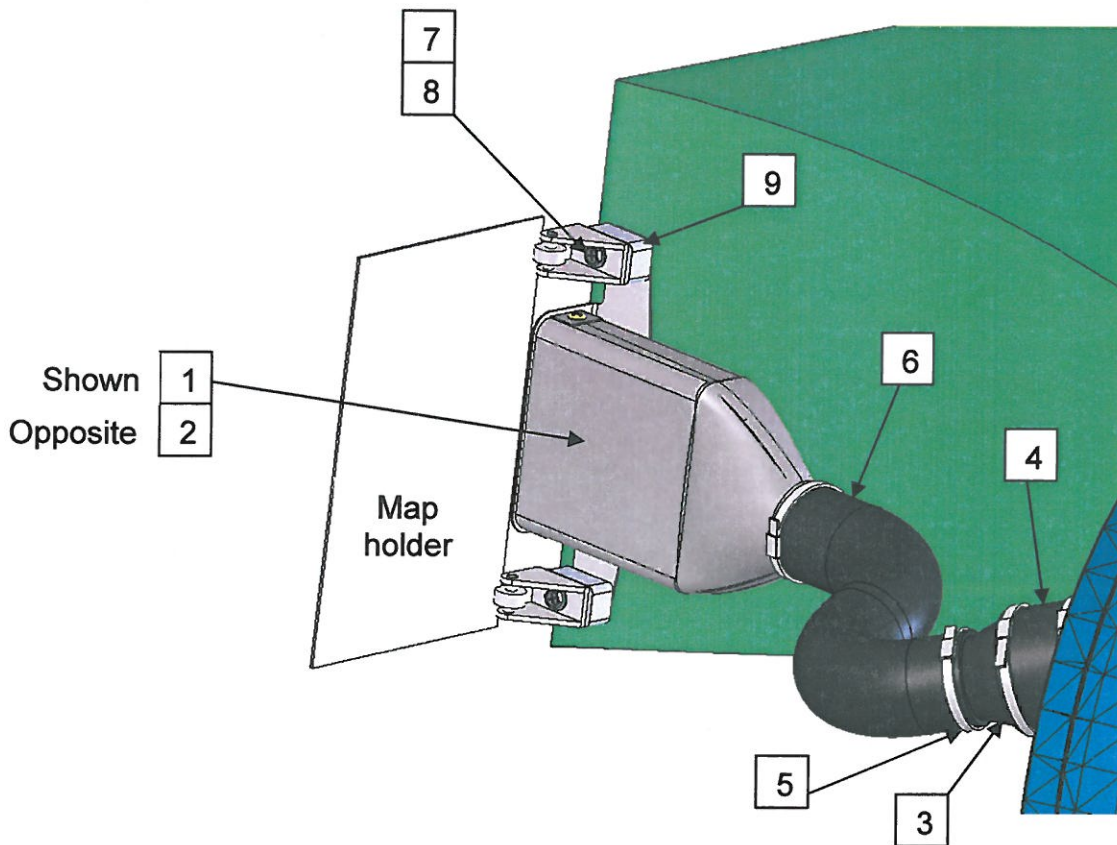


Figure 3. Outlet mounting detail
Right side shown, Left side similar

Instructions:

- 1) Remove the existing outboard air outlet located by the door pillar (1 each side) per figure 1.*
- 2) Remove and set aside existing map holder (figure 3). Discard the existing hardware.
- 3) Attach items 1,7,8,9, and the map holder to the right side of the instrument panel shroud using the hardware provided.
- 4) Install items 3,4,6 as shown in Figure 3. Secure duct joints with clamps item 5.
- 5) Repeat above steps for the left side.

*NOTE: Aircraft serial no.s 57081 thru 57250 are fitted with an air outlet duct that's configured with an integral Y fitting in place of the coupling and clamp shown in Figure 1. It is permissible to alter this duct by cutting through the duct approximately 1.5-2.0 inches aft (See Figure 4) of the Y branch and remove the aft portion duct / air outlet assembly. Alternately the integral duct/Y p/n 429-025-342-102 can be replaced by the short Y fitting p/n 429-025-142-102 right side, p/n 429-025-142-101 left side.

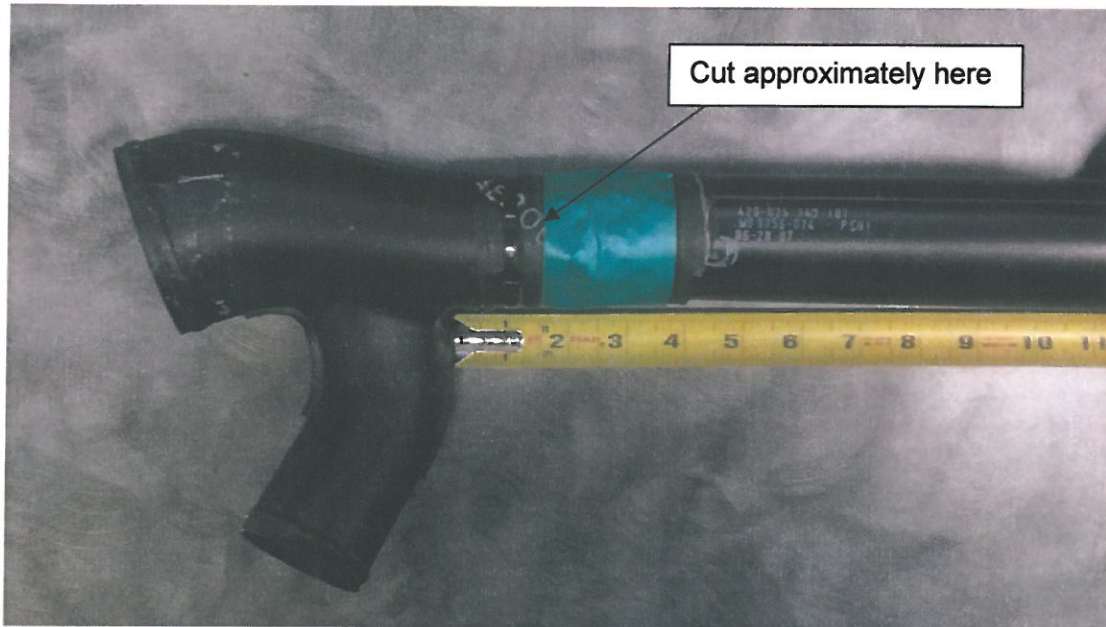


Figure 4. Duct cut detail for p/n 429-025-342-102
(applicable only for Aircraft serial no.s 57081 thru 57250)