



TAKE YOUR CESSNA HOME FOR SERVICE AT THE SIGN OF THE CESSNA SHIELD

single-engine SERVICE LETTER

MARKETING DIVISION • CESSNA AIRCRAFT COMPANY
WICHITA, KANSAS 67201 • CABLE ADDRESS / CESSCO WICHITA

October 22, 1971

SE71-32

SUBJECT: ALTERNATE AIR DOOR RELOCATION

AIRCRAFT AFFECTED:

1971 Model Cardinal RG Serials 177RG0001 thru 177RG0175
(except as noted on Page 2)
F177RG0001 thru F177RG0030

REASON FOR LETTER:

To increase reliability and extend service life of the induction airbox, the alternate air door has been relocated and the airbox structure has been strengthened.

Specifically these production changes involve:

1. Moving the alternate air door from the front to the rear of the airbox where it is not subjected to buffeting from cooling air through the engine compartment.
2. Incorporating a wider flange on the airbox base assembly to improve structural integrity.

ACTION REQUIRED:

At the next major maintenance period, but no later than the next 100 hours of operation:

1. Inspect the induction airbox chamber walls. If cracks exist, replace the induction airbox with a new assembly (listed below), which incorporates production improvements 1 and 2 above.
2. If the inspection (above) shows no signs of cracking, relocate the alternate air door per Service Kit SK177-16.

Post-it [®] Fax Note	7671	Date	12.10.02	# of Pages	5
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Continued.....

THERE ARE MORE CESSNAS FLYING THAN ANY OTHER MAKE

PARTS INFORMATION:

The following parts are available through the Cessna Dealer Organization.

<u>Part Number</u>	<u>Description</u>	<u>Suggested List Price</u>
2052030-2	Induction Airbox (Plenum Chamber Assy.)	\$ 50.40 (S)
SK177-16	Airbox Modification Service Kit	\$ 31.50 (S)

CREDIT ALLOWANCE INFORMATION:

A full parts credit and labor allowance will be paid for replacing the induction airbox assembly (if cracked) or for incorporating SK177-16. To qualify for this credit, work must be completed and a credit claim submitted by the following dates.

Domestic and Canada April 15, 1972
 Export June 15, 1972

NOTE: The following aircraft are those within affected serial blocks which had required changes incorporated prior to delivery from Cessna, Wichita.

177RC0006	177RG0142	177RG0164
0009	0145	0170
0119	0147	0171
0121	0148	0172
0124	0152	0174
0126	0161	

(Owner Notification System - No. 1)

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

THE CESSNA AIRCRAFT COMPANY

SERVICE

SK177-16
SEPTEMBER 17, 1971

Kit

Title PLENUM CHAMBER MODIFICATION

MODELS AFFECTED

177RG
F177RG

SERIALS AFFECTED

177RG0001 thru 177RG0175
F177RG0001 thru F177RG0041

Cessna.

PARTS LIST:

QUANTITY	PART NUMBER	NOMENCLATURE
1	2052031-7	Plenum Base
1		Installation instructions

CHANGE IN WEIGHT AND BALANCE: Negligible

1. DESCRIPTION OF INSTALLATION.

- a. Installation of this kit consists of:
- (1) Removing Plenum Chamber from aircraft.
 - (2) Sealing existing air door and installing new base assembly.
 - (3) Installing modified plenum chamber in aircraft.

2. INSTALLATION INSTRUCTIONS.

- a. (Refer to figure 1.) Plenum Chamber Removal.
- (1) Remove cowl and nose cap from aircraft to gain access to plenum chamber.
 - (2) Remove hose from intake adapter (7).
 - (3) Remove safety wire and attaching hardware securing plenum chamber flange (6) and remove chamber from aircraft.

NOTE

Inspect plenum chamber thoroughly for cracks. If cracks are evident in cover (4), replace complete plenum chamber rather than modify.

- b. (Refer to figure 1.) Plenum Chamber Modification.
- (1) Remove and retain 6 screws and washers (9).
 - (2) Separate existing base from cover (4) and discard base.
 - (3) Remove and discard all existing air valve parts from cover (4).
 - (4) Fabricate patch (3) in accordance with material specifications and dimensions shown and as follows:

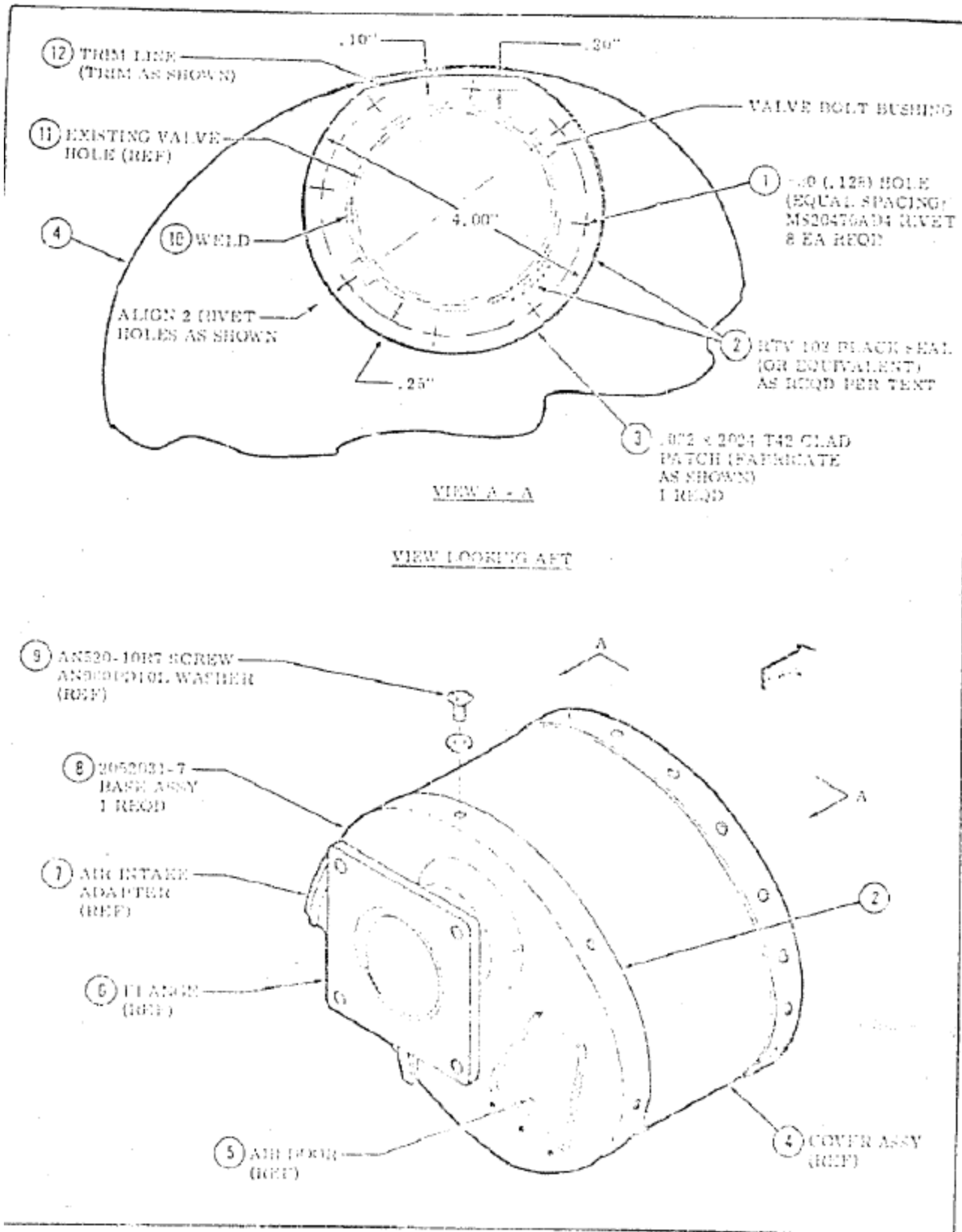


Figure 1. Piston Chamber Modification

- (a) Lay out sheet and cut 4.00 inch diameter patch (3).
- (b) Mark and drill holes (1).
- (c) Using patch as a guide drill holes (1) in cover (4).
- (d) Mark and trim along line (12).
- (5) Apply small bead of seal (2) around hole (11) between weld (10) and holes (1) as shown.
- (6) Install patch (3) and secure with rivets (1).
- (7) Apply fillet of seal (2) to outer edge of patch (3).

CAUTION

Clean inside surface of cover and base before assembly. Foreign material, such as chips, burrs or bits of seal could cause engine malfunction.

- (8) Install new base (8) on cover (4) and secure with retained screws and washers (9).
 - (9) Apply fillet of seal (2) to outer edge of base (8).
- c. Plenum Chamber Installation.
- (1) Install plenum chamber in original position, replacing gasket, if damaged, and secure with retained attaching hardware.
 - (2) Install safety wire to attaching hardware.
 - (3) Install hose from air filter to adapter (7).
 - (4) Replace cowl and nose cap on aircraft.