December 23, 1974

SE74-28
(Supplement #1)

SUBJECT: UNITED INSTRUMENT ALTIMETER DIRECTIVE

AIRCRAFT AFFECTED: All Cessna and Reims/Cessna Single-Engine Aircraft utilizing Altimeters manufactured by United Instruments, Inc.

REASON FOR LETTER:


In answer to some questions concerning the work involved in accomplishing the altimeter modification the following information (job description) is being provided.

ALTIMETER MODIFICATION JOB DESCRIPTION

1. Remove altimeter from aircraft
2. Perform modification at instrument shop which basically consists of following:
   a. Receive and initiate paperwork
   b. Perform pre-disassembly check
   c. Disassembly, remove tape, lubricate and reassemble (United Instrument Bulletin #1)
   d. Perform functional check (appendix E to FAR 43)
   e. Complete paperwork
3. Reinstall altimeter in aircraft
4. Perform static system leak check (FAR 23.1325)

The modification applicable to the instrument shop (item 2 above) requires approximately 1 hour and 15 minutes while the R and I and leak check (items 1, 3 and 4) requires approximately 1 hour.

The times have been carefully verified with several instrument shops by actually time studying the modification of a single altimeter. The standard procedure for instrument shops is to perform steps 2b and 2d in multiples of as many as 12 altimeters which will result in a significant reduction in these times.
The static leak check (item 4) as set forth in FAR 23.1325 consists of:

1. Unpressurized Aircraft:
   a. Evacuate the static pressure system to an altimeter reading of 1000 feet AGL.
   b. Hold for 1 minute -- indicated altitude loss cannot exceed 100 feet on the altimeter.

2. Pressurized Aircraft:
   a. Evacuate the static pressure system until a pressure differential equivalent to the maximum cabin pressure differential for which the airplane is type certificated is achieved.
   b. Hold for 1 minute -- indicated altitude loss cannot exceed 2% of the equivalent altitude of the maximum cabin differential pressure or 100 feet, whichever is greater.

* * * * *

(Owner Notification System - No. 2)

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CESSNA AIRCRAFT COMPANY