



SERVICE ENGINEERING ALERT NOTICE

SEAN-004-2011

Date: April 21, 2011

AIRCRAFT AFFECTED: All CV340/440 Series Aircraft

SUBJECT: Emergency Air Brake Pressure Indicator

PURPOSE: The purpose of this Service Engineering Alert Notice is to inform registered owners/operators of CV340/440 and derivative aircraft of the recommended dial markings on the emergency air brake pressure indicator.

REFERENCES:

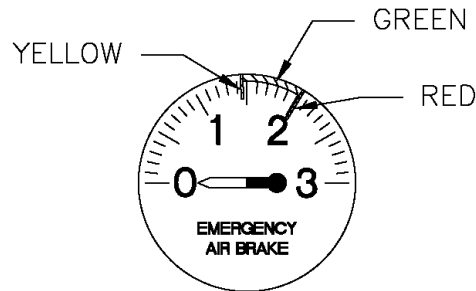
1. ICC2-1, Maintenance Manual – Allison Prop-Jet Convair, dated March 1985
2. Convair Newsletter No. 395, Pgs. 6 and 7, dated 4-12-57

BACKGROUND:

- a) An operator of the Convair model CV580 aircraft noted that the installed emergency air brake indicator was marked with a green arc between 1700-2500 psi, a yellow radial at 1700 psi and a red radial at 2500 psi.
- b) It is noted that the above markings do not correspond to the information contained in the Ref [1] AMM which states that the emergency air brake bottle should be charge to a pressure of 1450 to 2000 psi.
- c) Further investigation has revealed several different examples of dial markings on indicators installed on Convair model CV580 aircraft.
- d) Convair previously issued the Ref [2] newsletter in an attempt to standardize the service pressure of the emergency air brake bottle and the range markings on the corresponding indicators.
- e) The Ref [2] newsletter recommends the recharge pressure of all bottles be 2000 psi and the indicator to be marked with a green arc between 1450-2000 psi. It also suggested that aircraft with the 100 cu. in bottle (p/n AB2-2962) installed should have indicators marked with a red radial at 2500 psi.
- f) It is noted that all bottles have a maximum service rating of 2000 psi with the exception of the 100 cu. in. bottle (p/n AB2-2962) which has a safe capacity of 2500 psi.

RECOMMENDATIONS:

- a) Despite the higher service rating of the 100 cu. in. bottle (p/n AB2-2962) the recommended recharge pressure of all bottles remains at 2000 psi as indicated in the Ref [2] newsletter.
- b) All emergency air brake pressure indicators should be marked as shown in Figure 1. Indicators without range markings as shown in Figure 1 should be modified at next replacement and may be forwarded to Kelowna Flightcraft for rework if desired.



Yellow Radial: 1450 psig
Green Arc: 1450 psig to 2000 psig
Red Radial: 2015 psig

Figure 1: Recommended range markings for emergency air brake indicator

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