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08/01/00

Service bulletin a-30-1
Affecting a-30 altitude encoder all serial numbers
April 10, 1989

To: ACK A-30 altitude encoder distributors.
Please provide copies of this letter to all installing dealers.

Re: grounding of a-30 during calibration and correspondence testing.

Recent field service history has indicated that the a-30 calibration may be affected by the location of its Mounting tray in relation to the aircraft ground point selected when correspondence adjustment is made or a Final correspondence check is done with the encoder removed from its mounting tray.

The a-30 was designed to be essentially ratio-metric in regard to input voltage and is virtually not Affected by wide changes in input voltage. However a slight difference in potential between a+ and the Ground points selected for the ground wire connection and the mounting location of the encoder causes a Slight change in the internal reference voltage of the a-30. We believe older airframes or corroded Airframes will be more subject to this condition. Following these recommended procedures will assure that This condition, if present, does not affect final calibration of the encoder.

If the mounting tray is not connected to the airframe ground, o.g.: mounted on the non-metallic i2lc3ve box Of some aircraft or mounted to a composite material component of the airframe, the grounding requirements Of this service bulletin do not apply.

Our two recommended methods of complying with this service bulletin are as follows:

1. When doing final correspondence verification of the encoder and altimeter the encoder should be securely Fastened into its mounting tray. The mounting tray must be in its final mounting location in the aircraft And securely tightened prior to testing.

Or

2. If the encoder is removed from its mounting tray during final correspondence adjustment and Verification, attach a heavy jumper cable between the die cast encoder chassis and its mounting tray. The Mounting tray must be in its final mounting location in the aircraft and securely tightened prior to Testing. The jumper should be awg 16 or heavier wire with heavy spring type alligator clips on each end its Length should not exceed 3 feet.