



SERVICE BULLETIN

No. 546

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"Modification DOA EA-1 Approved"

May 18, 1977

S/M

Subject: Inspection of Whelen Wing Tip Strobe Lights; Reference F.A.A. Airworthiness Directive 75-05-04

<u>Models Affected:</u>	<u>*Serial Numbers Affected:</u>
PA-23-250 (6 place) Aztec	27-4445 to 27-7654172 Incl., 27-7654174, 27-7654175, 27-7654177 to 27-7654198 Incl., 27-7654201 to 27-7754007 Incl., 27-7754009 to 27-7754013 Incl., 27-7754015, 27-7754016, 27-7754018 to 27-7754028 Incl., 27-7754030 to 27-7754057 Incl., 27-7754062 to 27-7754066 Incl., 27-7754068 to 27-7754072 Incl., and 27-7754078 to 27-7754080 Inclusive.
PA-31 and PA-31-325 Navajo	31-683 to 31-7712049 Inclusive.
PA-31-350 Navajo Chieftain	31-5001 to 31-7752080 Inclusive.
PA-31P Pressurized Navajo	31P-1 to 31P-7530004 Incl., 31P-7530006 to 31P-7630012 Incl., 31P-7630014 to 31P-7630018 Incl. and 31P-7730001 to 31P-7730003 Inclusive.
PA-31T Cheyenne	31T-7400002 to 31T-7620013 Incl., 31T-7620015 to 31T-7720007 Incl., 31T-7720009 to 31T-7720023 Incl., 31T-7720026, and 31T-7720027.
PA-36-285 and PA-36-300 Pawnee Brave	36-7360001 to 36-7360022 Incl., 36-7360024 to 36-7560066 Incl., 36-7560068 to 36-7560134 Incl., 36-7660002 to 36-7660075 Incl., 36-7660077 to 36-7660115 Incl., 36-7660117 to 36-7660125 Incl., 36-7660127 to 36-7660129 Incl., 36-7660131 to 36-7660134 Incl., 36-7760001 to 36-7760008 Incl., 36-7760011, 36-7760014, 36-7760015, and 36-7760017 to 36-7760019 Inclusive.

* NOTE: Aircraft referenced above that have previously complied with FAA AD 75-05-04 and have not had Wing Tip Strobe Lights replaced (since), are not affected by this Service Release.

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Models Affected:Serial Numbers Affected:

PA-24-260 Comanche "C" 24-3642, 24-4000 to 24-5047 Inclusive

PA-39 Twin Comanche 39-1 to 39-155 Inclusive

NOTE: The above two models are affected by this Service Release only
if the subject strobe lights have been replace in the field.

Compliance Time: Within the next 100 hours of operation.

Purpose: The subject Airworthiness Directive was issued against the Whelen Engineering Company A-427 Strobe Light Assemblies "to preclude possible ignition of flammable fluids or vapors by arcing at the strobe light flash tube" (quoted from A.D. 75-05-04). The affected strobe light units may be installed as original equipment on the aircraft specified above, and it has been brought to our attention that a number of these strobe light units may not be in accordance with the subject Airworthiness Directive.

This Service Release provides instructions to inspect the above referenced aircraft to determine if Whelen A-427 strobe lights are installed, and to insure that they are in compliance with the subject Airworthiness Directive.

Instructions: (Modification instructions extracted from F.A.A. A.D. 75-05-04 text).

1. Expose wing tip strobe light assembly to view (refer to attached sketch for a typical strobe light assembly illustrated view).
2. If the following modification has already been accomplished, no further action is required; make appropriate entry in aircraft log book re compliance with this Service Release.
3. If the following modification has not been accomplished, proceed as follows:
 - a. Install on the base of the Whelen A-427 Flash Tube Assembly a pressure sensitive vinyl label conforming to Whelen drawing no. A-30052, Revision 1 dated October 15, 1974 or later F.A.A. approved revision.
 1. Scotch Brand Type 33+ Vinyl Plastic electrical tape or equivalent tape - approved by an F.A.A. Maintenance/Avionics Inspector may be used in lieu of the vinyl label (if any plastic tape is used, it must be formed to cover the rivet at the rear of the flash tube without covering the identifying part number).

Instructions: (Continued)

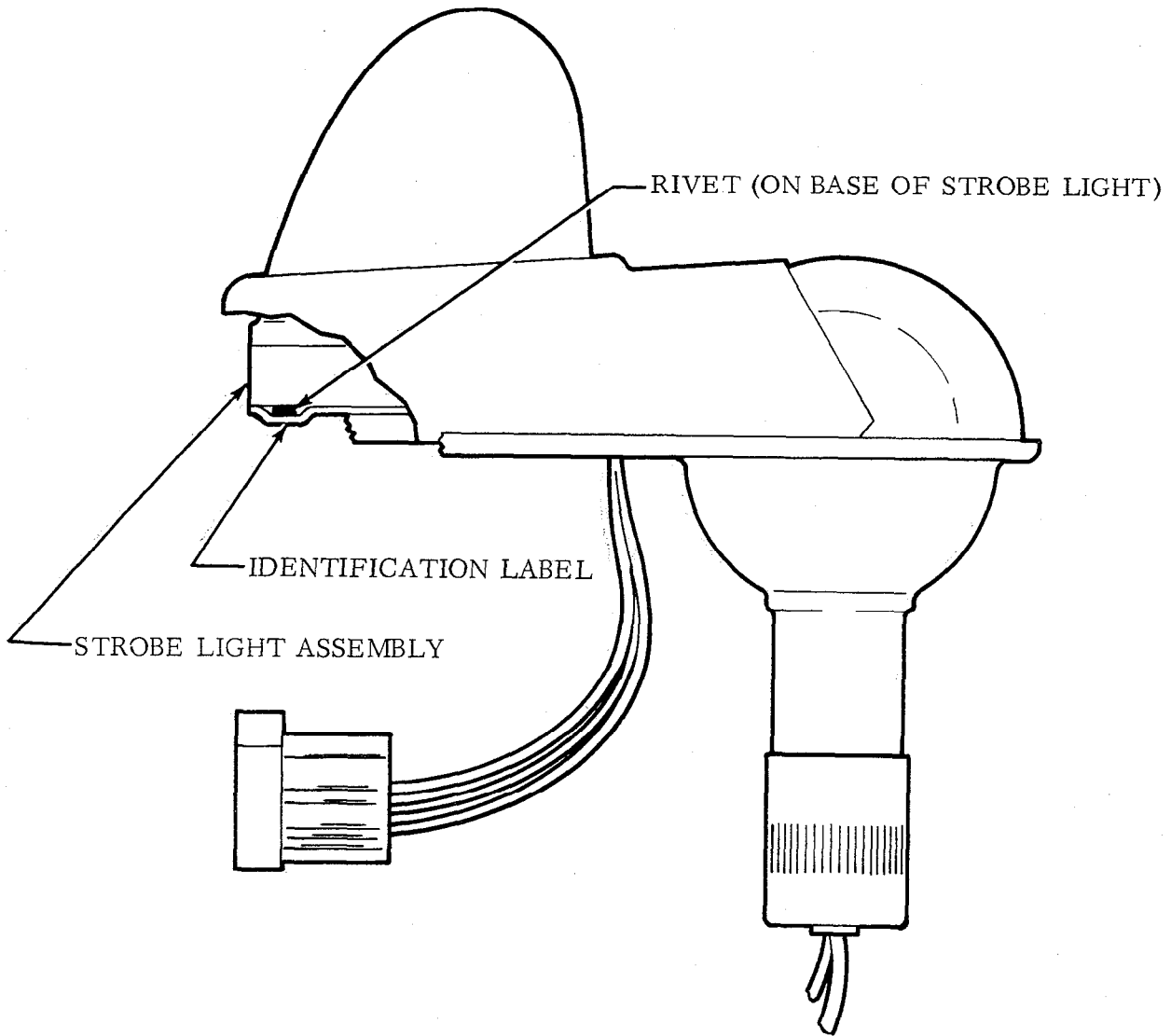
3. b. If the flash tube incorporates a label, the new label or tape may be installed directly over the old label.
- c. Install label or tape only when the label or tape and the flash tube are at a temperature above 50 degrees F.
4. Make appropriate service release compliance entry in aircraft log book.

Material Required: Refer to Instructions 3.a and 3.a.1, above.

Availability of Parts: Your Piper Field Service Facility or obtain locally.

Effectivity Date: This Service Bulletin is effective upon receipt.

Summary: Please contact your Piper Field Service Facility to make arrangements for the inspection and - if necessary, the simple modification described herein, in accordance with the provisions of Compliance Time, above.



WHELEN NAVIGATION AND STROBE LIGHT ASSEMBLY