



PIPER

Customer Services

Piper Aircraft Corporation

SERVICE LETTER

No. 631A

Lock Haven, Pennsylvania, U.S.A.

April 25, 1973

(Supersedes and voids Service Letter No. 631, dated September 20, 1972)

Reason for Revision:

Additional inspection requirement referred to in Purpose and Instructions, below.

Subject:

Alternator Switch and Circuit Breaker Panel Wiring Inspection

Models Affected:

PA-31 and PA-31-300 Navajo

Serial Numbers Affected:

31-2 to 31-841 incl.

Compliance Time:

Within the next 100 hours of operation or at the next 100-hour or annual inspection, whichever occurs first.

Purpose:

A recent field report involving a loss of electrical power output revealed the possibility of a loose connection at the power buss where the jumper wire connects the alternator output circuit breakers to the buss. Improper attachment hardware was found installed at this point, allowing the possibility of a loose connection. Further investigation in this area revealed that the edge of the switch mounting bracket may interfere with the field wires.

This service release provides instructions to inspect the above referenced area to determine that (1) correct jumper wire attachment hardware is installed, (2) a proper distance of one inch exists between the edge of the switch mounting bracket and the center of the voltage regulator selector switch and (3) Part No. 40882-00 Battery Attachment Link is properly installed (refer to attached sketch/instruction sheet for an illustrated description of this area).

Instructions:

Referring to the attached sketch/instruction sheet:

1. Inspect jumper wire attachment hardware for proper installation;
2. Insure that a proper distance of one inch exists between the edge of the switch mounting bracket and the center of the voltage regulator selector switch; and
3. Insure proper installation of Part No. 40882-00 Battery Attachment Link.

(over)

Instructions: (continued)

NOTE: The above referenced aircraft that have previously complied with Piper Service Letter No. 631, dated September 20, 1972 need only check for proper installation of the Part No. 40882-00 Battery Attachment Link, per No. 3, above.

4. If the Part No. 40882-00 Battery Attachment Link is not installed as shown on the attached sketch/instruction sheet, install accordingly.

Material Required:

One (1) each AN4-4A bolt (Piper Part No. 401 307), one (1) each MS20365-428C nut (Piper Part No. 404 888), and/or one (1) each Part No. 40882-00 Battery Attachment Link, as required per the attached sketch/instruction sheet.

Availability of Parts:

Your Piper Dealer.

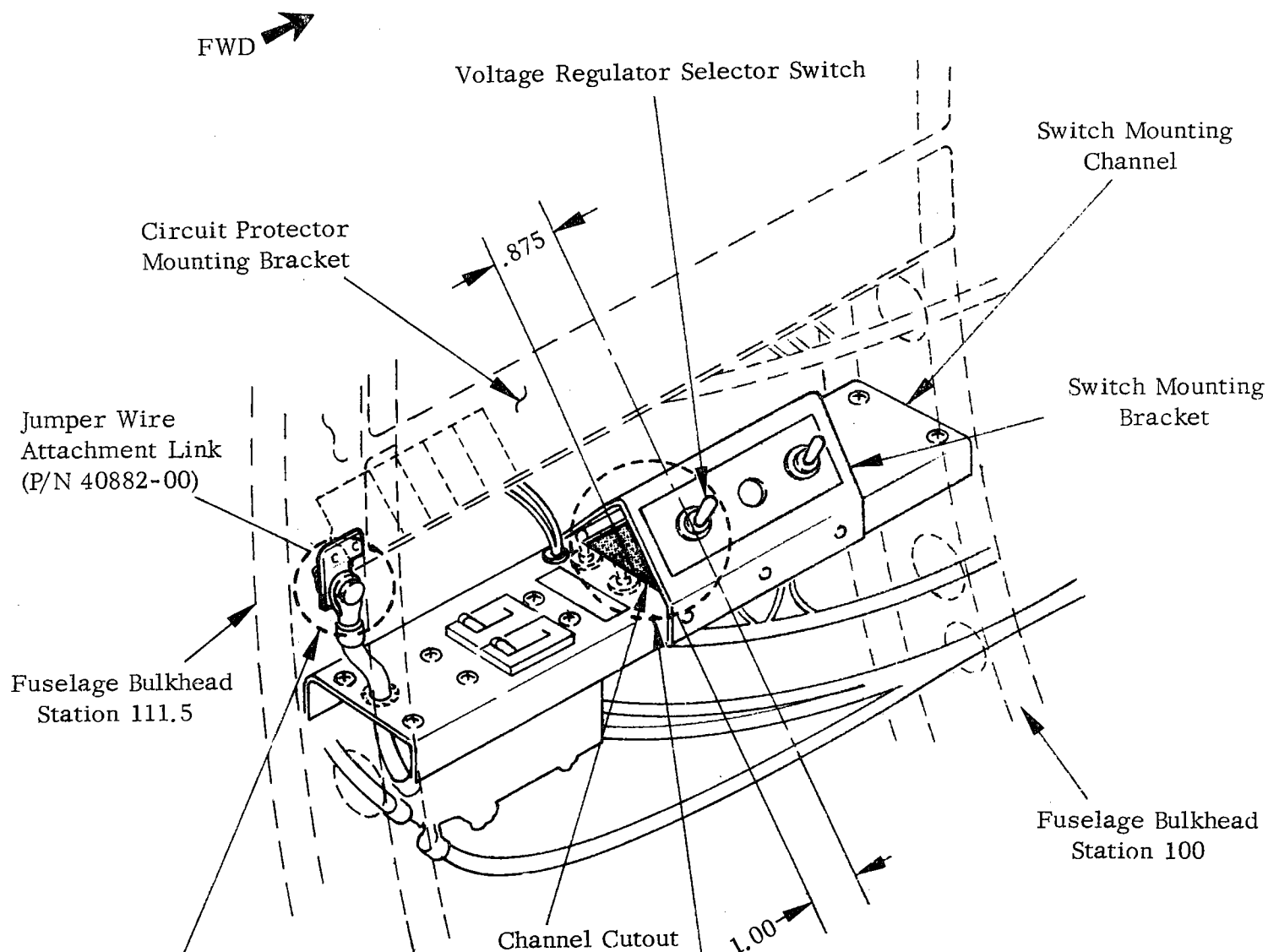
Effectivity Date:

This Service Letter is effective May 21, 1973.

Summary:

Please contact your Piper Dealer to make arrangements for compliance with the provisions of this Service Letter according to the provisions of Compliance Time, above. Material described above, if required, will be provided by your Piper Dealer free of charge, as long as the inspection/replacement is accomplished by a Piper Dealer.

IMPORTANT NOTE: Only Instructions Nos. 3 and 4, above, will apply to aircraft that have already complied with the provisions of Piper Service Letter No. 631, dated September 20, 1972.



Inspect to make certain that the jumper wire attachment link is installed. Inspect jumper wire attachment hardware to assure that only AN4-4A Bolt and MS20365-428C Nut are used to attach the jumper wire to the link. The torque of hardware must be of sufficient tension to provide a tight electrical connection.

Inspect to make certain there is a distance of 1 inch between the edge of the switch mounting bracket and the center of the voltage regulator selector switch. If the 1 inch distance has not been maintained, enlarge the channel cutout to obtain a distance of .875 between the center of the voltage regulator selector switch and the edge of the channel cutout.

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