



**PIPER**

**Customer Services**

# SERVICE LETTER

**No. 593**

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

October 11, 1971

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Subject: Harness Connector Plug Strain Relief Hood Installation

Models Affected: PA-23-250 (Six Place) Aztec and PA-31 Navajo with AltiMatic V or AltiMatic V / FD Installations only.

Serial Numbers Affected: PA-23-250 (Six Place) Aztec; Serial Nos. 27-4053, 27-4574 to 27-4719 incl., 27-4726 to 27-4731 incl.; and PA-31 Navajo; Serial Nos. 31-620, 31-712 to 31-751 incl., 31-764.  
The above aircraft with AltiMatic V or AltiMatic V / FD Installations only.

Compliance Time: Recommended at the next 100 hour inspection or annual inspection, whichever occurs first.

Purpose: Recent reports relative to the AltiMatic V series automated flight control systems have indicated the need for strain relief at connector plugs.

This Service Letter provides material and instructions to install connector plug strain relief hoods on the harness/connector plug assemblies at the following system component locations:

1. Main harness junction (PA-31 only-located at upper left rear of pedestal).
2. Power supply.
3. Computer Amplifier.
4. Trim Servo.
5. Pitch Servo.
6. Roll Servo.

Please refer to attached sketches for a general illustration of typical strain relief hood installations and applicable locations in the aircraft.

Instructions: Contained in the following AltiMatic V and AltiMatic V / FD Connector Plug Relief Hood Installation Kits;  
PA-23-250 (Six Place) Aztec-Piper Kit No. 760 555  
PA-31 Navajo-Piper Kit No. 760 556

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Material Required:

1. PA-23-250 (Six Place) Aztec; one (1) each (per aircraft) Piper Kit No. 760 555, AltiMatic V and AltiMatic V / FD Connector Plug Relief Hood Installation.
2. PA-31 Navajo; one (1) each (per aircraft) Piper Kit No. 760 556, AltiMatic V and AltiMatic V / FD Connector Plug Relief Hood Installation.

Availability of Parts:

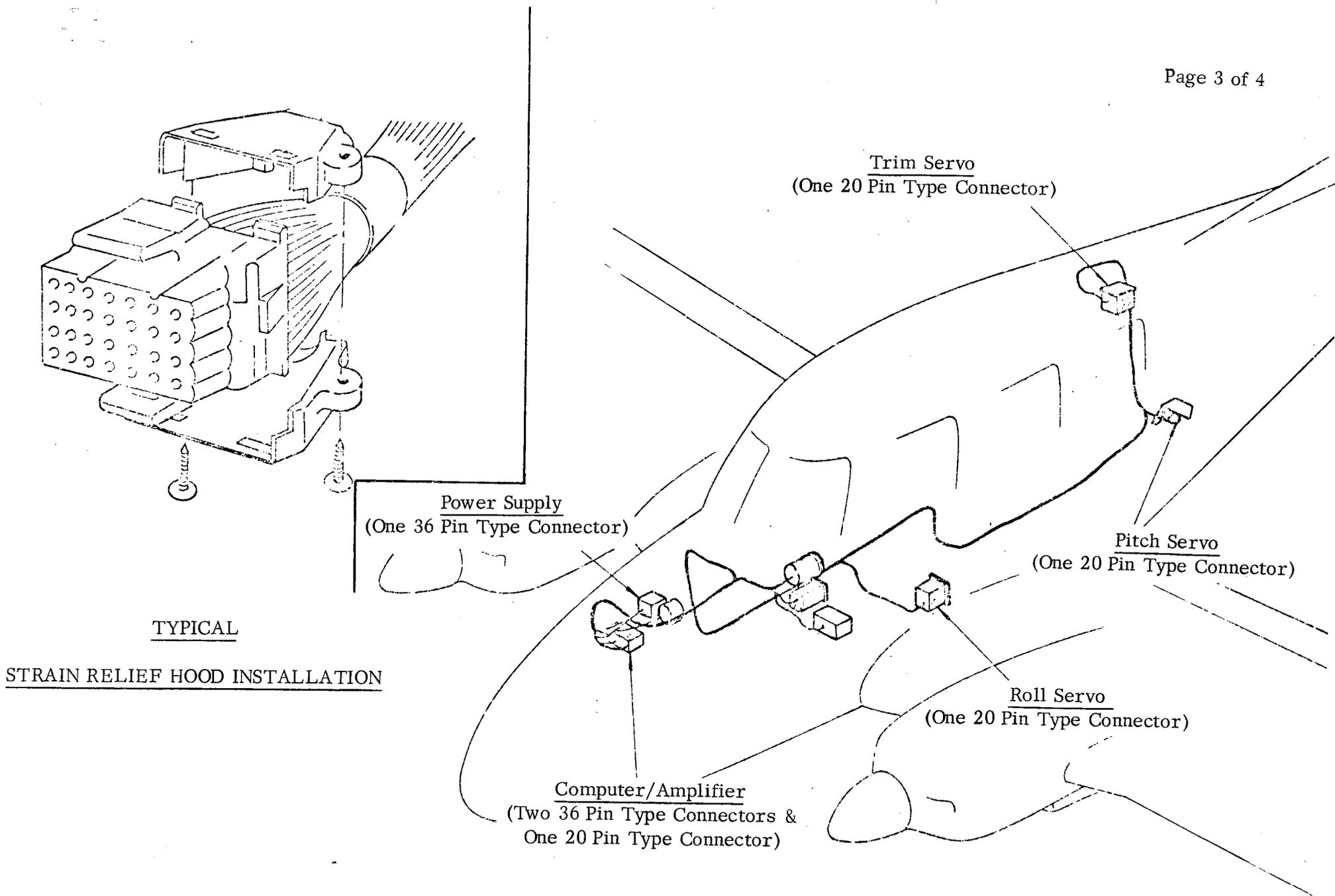
Your Piper Dealer.

Effectivity Date:

This Service Letter is effective October 15, 1971.

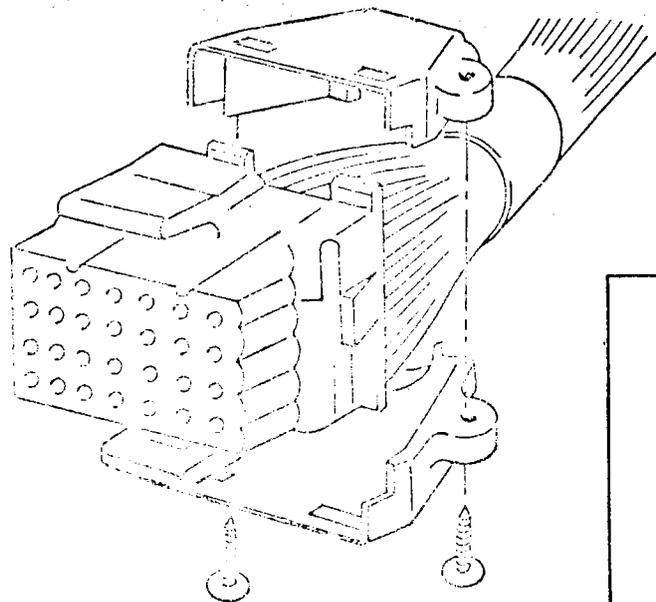
Summary:

Material for this modification is available at no charge through your Piper Dealer, providing the compliance time provisions are adhered to.



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General Illustration of Affected Alt. V and  
Alt. V F/D System Components (Typical PA-23-250 - 6 place)



TYPICAL

STRAIN RELIEF HOOD INSTALLATION

Computer/Amplifier  
(Two 36 Pin Type Connectors &  
One 20 Pin Type Connector)

Trim Servo  
(One 20 Pin Type Connector)

Power Supply  
(One 36 Pin Type Connector)

Pitch Servo  
(One 20 Pin Type Connector)

Roll Servo  
(One 20 Pin Type Connector)

Harness Assembly (PA-31 only)  
(Four 36 Pin Type Connectors)  
Connectors located at upper left  
rear of pedestal.

General Illustration of Affected Alt. V and  
Alt. V F/D System Components (Typical PA-31)

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