



The New Piper Aircraft, Inc.
 2926 Piper Drive
 Vero Beach, Florida, U.S.A. 32960

SERVICE No. 1042 BULLETIN

**PIPER CONSIDERS
 COMPLIANCE MANDATORY**

Date: June 9, 2000 (M)

SUBJECT: Inspection of the Heated Deice Panel Installation

MODELS AFFECTED: **SERIAL NUMBERS AFFECTED:**

PA-34-220T Seneca V 3449002 through 3449152

COMPLIANCE TIME: Prior to the next flight into known or forecast icing conditions, but not to exceed the next one hundred (100) hours time in service or annual inspection.

PURPOSE: It has been reported that during conditions of extreme snow and/or icing, the heated deice panel used for pilot's visibility may accumulate ice and/or snow under the panel such that normal operation may not provide adequate visibility. This condition is caused primarily by inadequate contact of the deice panel seals and bumpers with the pilot's windshield. The gap left by this condition allows snow and ice to accumulate between the windshield and deice panel with the resultant inability to keep the area clear. This one time inspection and, if necessary, adjustment of the heated panel, provides a remedy for this condition. Left uncorrected, should snow or ice accumulations be experienced, impaired or total loss of forward visibility may result, creating difficulties in landing and ground operations.

This Service Bulletin requires an inspection with possible adjustment and/or repair of the aircraft heated deice panel to improve the condition described above.

APPROVAL: The technical contents of this Service Bulletin have been approved by the FAA.

INSTRUCTIONS:

Caution:
 Use care when handling heated deice panel to insure that panel integrity is not compromised and that wires inside the glass are not damaged.

REFER TO FIGURE 1.

1. Inspect the Heated Deice Panel Installation to verify that the deice panel seals and bumpers are making full contact with the windshield, and that there are no gaps evident between the panel and the windshield. If any of these conditions are not satisfactory, proceed to Instruction 2.
2. Select Windshield Heat Control Switch to OFF and disengage the WSHLD HEAT circuit breaker. Remove electrical plug from receptacle assembly, if necessary.

(OVER)
 ATA: 3041

INSTRUCTIONS: (Continued)

3. Check that the seals are in good condition and fully bonded to the deice panel and that the lower and inboard seals are bonded together at the mitered corner. Seals that are in good condition but not fully bonded to the deice panel or not fully bonded together at the mitered corner may be rebonded using black RTV133, or equivalent, sealant.
4. If, after the seals are verified in good condition and properly bonded, there is still inadequate contact of the deice panel seals and bumpers with the windshield, continue with Instruction 5.

Note:

Instructions 5 and 6 are designed to allow for hand working of the deice panel to obtain a proper fit. It is permissible to use any one or any combination of the instructions listed below.

5. Adjust the deice panel so that the lower seal makes full contact with the windshield as follows:
 - (a) Remove the two MS35206-328 screws from the windshield collar and elongate the attachment holes in the deice panel to allow for more adjustment.

OR
 - (b) Trim the existing bushings as necessary and prime. After trimming the bushings, it will be necessary to file the collar on the deice panel to maintain 0.03 minimum clearance from the windshield collar.

OR
 - (c) Increase the height of the bushings by adding 0.063 aluminum washers (NAS1149DO363H).
 - (d) Install the deice panel to the windshield collar.
6. After the lower seal has been adjusted to make full contact with the windshield, insure the inboard seal makes full contact with the windshield by adjusting the upper corner bumpers as follows:

Note:

The inboard seal should extend below the bumpers 0.03 to 0.06 to allow for sufficient compression of the seal against the windshield in flight.

- (a) If additional height is needed for the bumpers, replace the existing bumpers with new bumpers (Piper Part Number 31637-03, length 11/16").
 - (b) If it is determined that the bumpers need to be trimmed, carefully trim as required to match the mating surface of the windshield.
7. Upon completion of adjustments:
 - (a) Be sure that the two screws that secure the deice panel to the windshield collar are sufficiently tightened.
 - (b)

Reconnect the electrical plug to the recept
 - (c) Check for proper operation of the deice panel.

Note:

If the airplane is to be flown with the heated deice panel removed, rotate the receptacle plate 180° and replace it to cover the holes in the fuselage skin. Also replace the two windshield collar screws.

8. Make an appropriate logbook entry indicating compliance with this Service Bulletin.

MATERIAL REQUIRED:

As required by inspection, up to two (2) each bumpers (plates), Piper Part Number 31637-03. Hardware and sealant may be obtained locally.

AVAILABILITY OF PARTS:

Your Piper Field Service Facility.

EFFECTIVITY DATE:

This Service Bulletin is effective upon receipt.

SUMMARY:

Applicable Factory Participation is limited to new aircraft in warranty at the time of compliance. Factory Participation will remain in effect for a period of time **not to exceed 180 days** from the date of this Service Bulletin.

Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this Service Bulletin in accordance with the compliance time indicated.

NOTE:

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/changes should be directed to:

THE NEW PIPER AIRCRAFT, INC.
Attn: Customer Services
2926 Piper Drive
Vero Beach, FL 32960

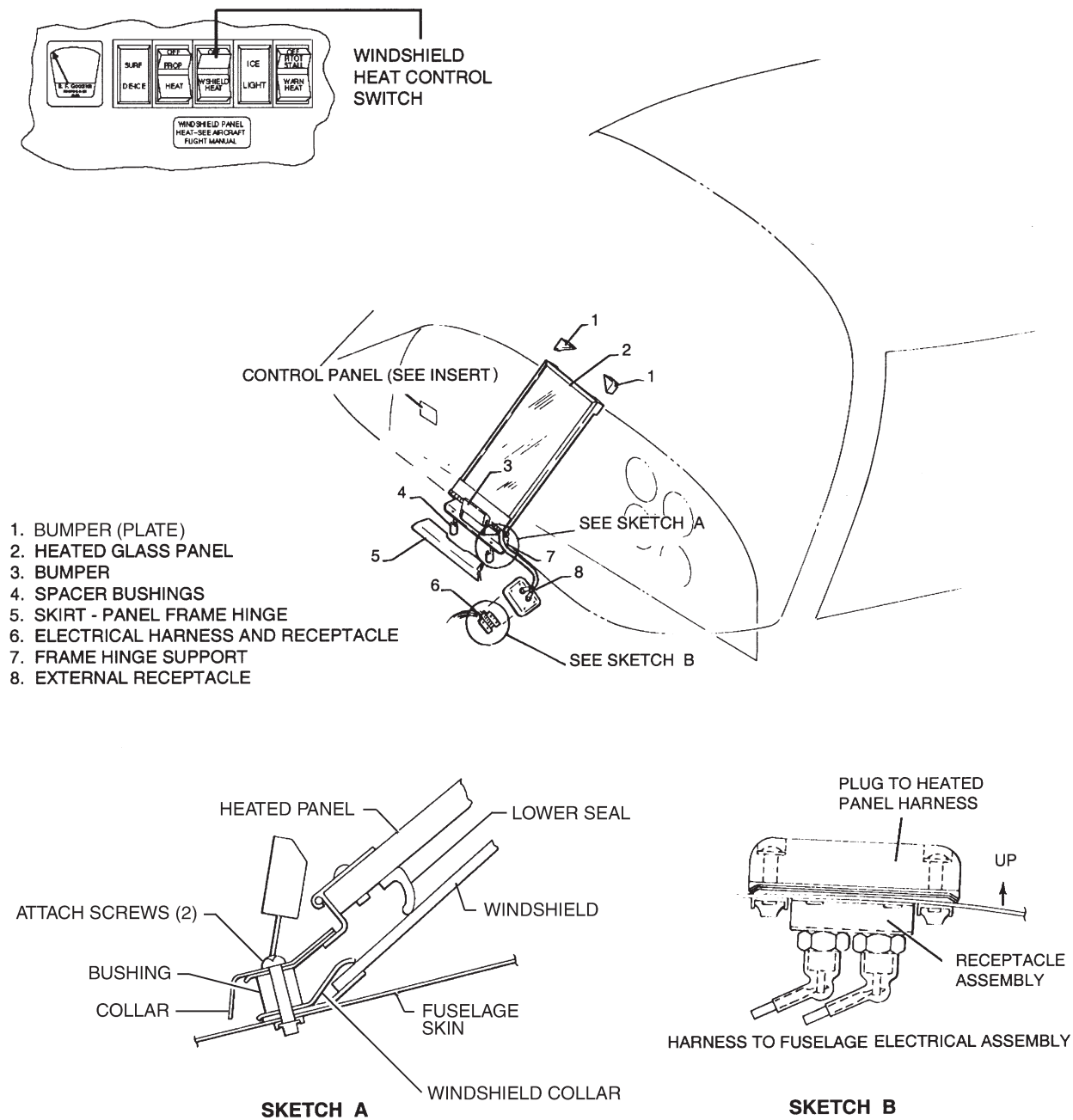


Figure 1