



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

SERVICE No. 1004 BULLETIN

PIPER CONSIDERS COMPLIANCE MANDATORY

DATE: June 6, 1997

(M)

SUBJECT:

Inspection of the E303 Electrical Connector
and Heater Blower Power Wire

MODELS AFFECTED:

PA-31-350 Navajo Chieftain
PA-31-350 T1020

SERIAL NUMBERS AFFECTED:

31-5001 through 31-8452021
31-8253001 through 31-8553002

COMPLIANCE TIME:

To coincide with the next scheduled maintenance, but not to exceed the next one-hundred (100) hours time in service.

APPROVAL:

The technical content of this Service Bulletin has been approved by the Federal Aviation Administration.

PURPOSE:

A report was received indicating that during a routine inspection in the area of the pilot's circuit breaker panel, an electrical connector appeared to be burned and a wire coming from both sides of the connector had darkened about 1/2 inch along the wire. Although no anomalies were noted in system function, it was discovered that the heater blower received power through this connection. The report indicated that several other aircraft of the same type were afflicted in a similar manner. This condition if not corrected, may result in smoke in the cockpit and/or the loss of the heater blower motor function.

This Service Bulletin requires inspection for the condition described above and provides the instructions necessary to replace the damaged connector and for the modification of the heater blower wire.

INSTRUCTIONS:

1. Disconnect the battery and remove any other electrical power source from the aircraft. Remove the pilot's seat and interior panels as required to gain access to the area around the pilots circuit breaker panel.
2. Look for a white square Molex style connector (six pin) labeled E303. The label may appear as a tag on the harness or marked on the connector itself. *If the connector is discolored no label may appear.*
3. Remove the wires from the E303 connector and inspect the connector and wires for damage. Should the connector appear discolored or distorted the connector must be replaced. If no damage or distortion is noted, it is only necessary to extract the Heater Blower wire (pin 3).
4. If any wire passing through the E303 connector is damaged, a repair must be made before continuing with these instructions. When extracting wires from E303, take care to identify individual wires on each side of the connector as to position. Do not repair the heater blower motor power wire (large wire) at this time.

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INSTRUCTIONS: (CONT'D)

5. Install the terminals as follows: Into the connector (female) Piper Part Number 484-202, install Piper Part Number 488-478 terminals (socket) in position 1, 2 and 5, install Piper Part Number 488-554 terminals (socket) in position 4 and 6, position 3 is blank. Into the connector (male) Piper Part Number 581-926, install Piper Part Number 488-479 terminals (pin) in position 1, 2 and 5, install Piper Part Number 488-555 terminals (pin) in position 4 and 6, position 3 is blank.
6. Bypass the E303 (pin 3) connector by splicing each end of the Heater Blower wire together with Piper Part Number 588-732 splice. To splice, slip the blue shrink tube over the wire, insert the wire into each end of the silver splice, crimp the splice, slide the shrink tube midway over the splice joint and apply hot air using a heat gun to shrink the shrink tube securely.
7. Connect E303 and apply a cable tie to secure the connection.
8. Re-install the interior panels removed in instruction 1 and re-install the pilot's seat. (*Assure the seat stops are installed correctly and that the seat operates properly.*)
9. Connect the battery and check the heater blower for function.
10. Upon successful completion of these instructions, make an appropriate logbook entry of compliance with this Service Bulletin.

MATERIAL REQUIRED: As required by inspection, up to one (1) each, Connector, Piper Part Number 484-202, one (1) each, Connector, Piper Part Number 581-926, three (3) each, Terminal, Piper Part Number 488-478, two (2) each, Terminal, Piper Part Number 488-554, three (3) each, Terminal, Piper Part Number 488-479, two (2) each, Terminal, Piper Part Number 488-555, and one (1) each, Splice, Piper Part Number 588-732, per airplane.

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVITY DATE: This Service Bulletin is effective upon receipt.

SUMMARY: There is no applicable factory participation for this Service Bulletin.

Please contact your Factory Authorized Piper Field 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