



SERVICE *No.* 970 BULLETIN

Piper Aircraft Corporation
2926 Piper Drive
Vero Beach, Florida, U.S.A. 32960

PIPER CONSIDERS COMPLIANCE MANDATORY

DATE: April 18, 1994

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SUBJECT:

Defrost System Modification

MODELS AFFECTED:

PA-32R-301 Saratoga II HP

SERIAL NUMBERS AFFECTED:

3213029, 3213042 through 3213077,
3213079 and 3213080

COMPLIANCE TIME:

At the next regularly scheduled inspection event, but not to exceed the next fifty (50) hours time in service.

APPROVAL:

The technical contents of this Service Bulletin have been approved by the F.A.A.

PURPOSE:

Reports have been received of excessive heat coming from the defrost outlets when selected. Indications are deformed plastic defrost deflectors on the cowl deck forward of the glare shield and, in extreme cases slight distortions in the co-pilots and/or pilots windshield near the defrost outlet.

If this condition exists and is left uncorrected, the plastic parts associated with the defrost system may be damaged and either or both windshields may be optically impaired or damaged beyond repair.

This Service Bulletin announces the availability of redesigned defrost system components which when installed will alleviate the above described condition.

INSTRUCTIONS: (Refer to Sketch A as necessary)

1. Prior to performing the procedures below, inspect the defrost system plastic parts for evidence of damage due to overheat. This includes the cowl deck with the defrost deflectors at the windshield and the trim cover inside the nose baggage compartment. If damage is observed visually from the outside of the panels it will be necessary to inspect beneath them for hidden damage. Replace the damaged panels as required. Refer to the appropriate parts catalog.
2. If there is evidence of the defrost deflector being melted or deformed, inspect the co-pilot and the pilot plexiglass windshield. Look for signs of optical distortion near the defrost outlet. If overheat has occurred, distortion will be obvious (some distortion is natural due to the curvature of the windshield). Order replacement windshield(s) as required, refer to the appropriate parts catalog.
3. Upon completion of the inspections and replacements (if necessary) above, proceed to Instruction 4.
4. Gain access to the power plant by removing the upper and lower cowling. (Ref. to Chap. 71 of the Piper Maintenance Manual).

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5. Disconnect and remove the large diameter flexible air duct on right hand engine exhaust muffler shroud and disconnect the other end of the air duct from the tee coupling for the defrost air duct. Remove the tee coupling from aircraft.
6. Disconnect the two large diameter flexible air ducts on left hand engine exhaust muffler shroud.
7. Remove the existing engine exhaust muffler shroud on the left hand side (pilots side) by loosening the band clamps which hold the shroud halves together.
8. Disconnect and remove the small diameter flexible air duct for the defrost system from the top of the firewall.
9. Install the new exhaust shroud Piper P/N 24862-20 and tighten the band clamps to secure the assembly. Re-connect and secure the two existing large diameter flexible air ducts from Instruction 6.
10. Install the new defrost air duct Piper P/N 63633-204 on the small diameter fitting of the new left hand side exhaust shroud. Route the defrost duct up to the firewall fitting mentioned in Instruction 8. Routing is not critical, however you should be sure there are no kinks or heavy chafing points and that the duct is as close to the firewall as possible. Secure as required.
11. Install the new large diameter flexible air duct Piper P/N 63633-205 on the right hand engine exhaust muffler shroud. Route and secure in the same manner as the removed duct. Connect the other end of the duct to the air box where the tee coupling was removed.
12. Check shroud clamps and all duct clamps for security. Check defroster for proper operation.
13. Install upper and lower cowling. (Ref. to Chap. 71 of the Piper Maintenance Manual).
14. Make an appropriate Logbook entry of compliance with this Service Bulletin.

MATERIAL REQUIRED: One (1) each Muffler Shroud, Piper Part Number 24862-20, One (1) each Defrost Air Duct Piper Part Number 63633-204 and One (1) each Air Duct Piper Part Number 63633-205 per aircraft.

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVE DATE: This Service Bulletin is effective upon receipt.

SUMMARY: Any applicable 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 and to obtain information concerning any applicable factory participation.

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 owners name and address.

Correction/changes should be directed to:

PIPER AIRCRAFT CORPORATION
ATTN: Customer Service
2926 Piper Drive
Vero Beach, FL 32960

SKETCH A

