



SERVICE BULLETIN

No. 466

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA EA-1 Approved"

June 2, 1975

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Subject:

Air Conditioning System Modification.

Models Affected:

PA-31T Cheyenne

Serial Numbers Affected:

31T-7400002 to 31T-7520016 incl., 31T-7520218 to 31T-7520023 incl., 31T-7520025 to 31T-7520039 incl.
NOTE: Material replacement provisions (reference Material Required, below) apply to all aircraft specified above; electrical rewiring portion of the Air Conditioning System Modification kit does not apply to aircraft serial numbers 31T-7520026 to 31T-7520039 incl.

Compliance Time:

At the next Programmed Inspection Event, not to exceed the next fifty (50) hours of operation.

Purpose:

Investigation of field reports describing air conditioning compressor clutch and belt failures has determined that in flight airflow through the right nacelle is causing the condenser fan motor to generate electrical current. The voltage generated by the condenser fan motor results in clutch and belt overheating and possible failure due to partial air conditioner clutch engagement.

This service release provides material and instructions to modify the Air Conditioning System on the above referenced aircraft by electrically isolating the condenser fan circuit from the compressor clutch circuit, and replacing the freon compressor assembly (the new replacement freon compressors contained in Piper kit number 760 979 incorporate clutch centering pins), receiver/dehydrator assembly and compressor belt. This modification is designed to prevent premature compressor, clutch and/or belt failures resulting from the above condition.

Instructions:

Contained in Piper Kit number 760 979, Air Conditioning System Modification.

Material Required:

One (1) each per aircraft Piper kit number 760 979, Air Conditioning System Modification.

Availability of Parts:

Your Piper field service facility.

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Effectivity Date:

This Service Bulletin is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to make arrangements for compliance with this service release in accordance with Compliance Time, above. The modification material specified herein and (8) hours labor allowance available free of charge through your Piper field service facility.

A Service Publication Compliance Form is enclosed with each copy of this service release mailed to affected owners of record; this form is to be filled out according to instructions on the form reverse side and left with the Piper field service facility performing the modification.