



SERVICE BULLETIN

No. 400

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA EA-1 Approved"

February 6, 1974

Subject: Alternator Pulley and Belt Replacement

Models Affected: Serial Numbers Affected:

Affects only aircraft listed below with factory-installed air conditioning (right engine only).

PA-31 Navajo

31-752 to 31-7400976 incl. (NOTE: Although the new segmented cog-constructed belts appear on aircraft serial numbers 31-7400975 and 31-7400976, it will be necessary to install a new alternator pulley contained in Alternator Pulley and Belt Replacement Kit, Piper Part No. 760 805, on these aircraft.)

PA-31-350 Navajo Chieftain

31-7305005 to 31-7305125 incl. and 31-7405127 to 31-7405132 incl. (NOTE: Although the new segmented cog-constructed belts appear on aircraft serial numbers 31-7305108, 31-7305110 to 31-7305119 incl., 31-7305123 to 31-7305125 incl. and 31-7405127 to 31-7405132 incl., it will be necessary to install a new alternator pulley contained in Alternator Pulley and Belt Replacement Kit, Piper Part No. 760 805, on these aircraft.)

Compliance Time: Within the next 100 hours of operation.

Purpose: As stated in Avco Lycoming Service Instruction No. 1283, dated July 27, 1973, it has been determined that alternator belt slippage may occur on the above referenced models during operation in heavy precipitation. The design of the original alternator drive system could allow this to happen, since the smooth grooved pulley is driven by a continuous surface type belt.

This service release provides material and instructions to replace the existing alternator pulley and belt with a new alternator pulley (with ridged grooves) and a cog-constructed belt (with segmented contacting surfaces). Installation of this new alternator drive system is designed to provide a more positive drive during operation in heavy precipitation.

Instructions: Contained in Alternator Pulley and Belt Replacement Kit, Piper Part No. 760 805.

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Instructions: (continued)

NOTE: Also contained in this kit is a Pilot's Operating Manual Revision (including an Airplane Flight Manual Revision) which adds a cautionary note relative to the alternator system for air conditioned aircraft.

Material Required:

One (1) each per aircraft (air conditioned models only)
Alternator Pulley and Belt Replacement Kit, Piper Part No. 760 805.

Availability of Parts:

Your Piper Dealer.

Effectivity Date:

This Service Bulletin is effective February 18, 1974.

Summary:

Please contact your Piper Dealer to make arrangements for compliance with the provisions of this Service Bulletin as specified in Compliance Time, above. Material associated with this service release is available through your Piper Dealer free of charge, providing the installation is accomplished by a Piper Dealer.

A Service Publication Compliance form is enclosed with each copy of this Service Bulletin 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 Dealer performing the modification.

BULLETIN SUPPLEMENT - PROCEDURAL OPERATING INFORMATION

Material Allowance:

One each per aircraft (air conditioned models only)
Alternator Pulley and Belt Replacement Kit, Piper Part
No. 760 805, @ suggested unit retail price \$58.55F.

NOTE: This material will not be disseminated by the
Automatic Factory Distribution system; however,
orders from distributors will be processed no
charge providing the affected aircraft serial number
accompanies each order.

Labor Allowance:

Not applicable.

Disposition of Parts in Stock:

Refer to Avco Lycoming Service Instruction No. 1283,
dated July 27, 1973, a copy of which is contained in each
Alternator Pulley and Belt Replacement Kit, Piper Part
No. 760 805.

Disposition of Replaced Parts:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity per Aircraft</u>	<u>Code</u>
LW-12230	Pulley - Alternator	One each	D
LW-12701	Drive Belt - Alternator	One each	D