



SERVICE LETTER

No. 666

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

September 13, 1973 M

Subject:

Propeller Governor Speed-Adjusting Shaft, Lever and
Lever Clamp Screw Replacement -- reference attached
Woodward Service Bulletin No. 33549, dated May 1973.

Models Affected:

PA-31P Navajo

Serial Numbers Affected:

31P-1 to 31P-7300157 incl., 31P-7300159, 31P-7300161
to 31P-7300163 incl., 31P-7300164 (left engine only),
31P-7300165 (right engine only), 31P-7300166 (left engine
only), 31P-7300167 and 31P-7300169.

Compliance Time:

Refer to attached Woodward Service Bulletin No. 33549,
Compliance.

Purpose:

To provide distribution of attached Woodward Service
Bulletin No. 33549, dated May 1973.

Instructions:

Refer to attached Woodward Service Bulletin No. 33549,
Corrective Action.

Material Required:

Refer to attached Woodward Service Bulletin No. 33549,
Parts Required.

Availability of Parts:

Your Piper Dealer.

Effectivity Date:

This Service Letter is effective September 24, 1973.

Summary:

Please contact your Piper Dealer to make arrangements for
compliance with the attached Woodward Service Bulletin
No. 33549, dated May 1973.

May 1973

TO

1. Operators of twin engine (reciprocating) airplanes that use Woodward control lever type propeller governors.
2. FAA or foreign government approved propeller governor repair stations.

SUBJECT

Propeller governor speed-adjusting shaft, lever and lever clamp screw replacement.

PURPOSE

To detect and correct loose governor speed adjusting levers and advise governor repair stations of updating of certain governor models required at overhaul. Detection of loose levers during normal maintenance is an important function. Your attention is called to SB33537A dealing with this problem.

EQUIPMENT AFFECTED

Woodward lever type, light airplane propeller governors that do not have a control lever retaining ring.

COMPLIANCE

Within 25 operating hours after issue date of this bulletin, determine that the speed adjusting lever is correctly positioned and firmly clamped on its shaft.

DETAILS

There have been instances of control levers sliding axially on the speed-adjusting shaft when not properly clamped. If complete disengagement occurs, this will cause the propeller to feather. Changes to prevent disengagement are now incorporated in all current new or factory-serviced lever-type propeller governors.

CORRECTIVE ACTION

Within 25 operating hours after the issue date of this bulletin, and during each regular inspection, follow the procedures outlined below.

1. Apply an axial load of 5-10 pounds (in both directions) to the speed adjusting lever to determine that it is tightly clamped on the serrated shaft. Do not mistake end play of the shaft in the governor cover for a loose lever.
2. If the speed adjusting lever slides on the serrated shaft as the axial load is applied, the shaft and lever must be inspected to insure they are not excessively worn. Do not lose the radial relation between the shaft and lever. A new socket head screw, Part Number 1039-268 may be installed in place of the fillister head, lever clamp screw, to facilitate tightening. If they are in satisfactory condition, torque the clamp screw to 33-38 lb. ins. with the lever at the maximum rpm setting and positioned axially on the shaft to maintain .020-.045 inch clearance between the bottom side of the lever and the top of the governor cover. Recheck per paragraph 1 above, and, if secure, lockwire the clamp screw.

3. If 33-38 lb. ins. torque applied to the lever clamp screw does not secure the lever on its shaft, the lever or shaft is worn excessively and is unserviceable.

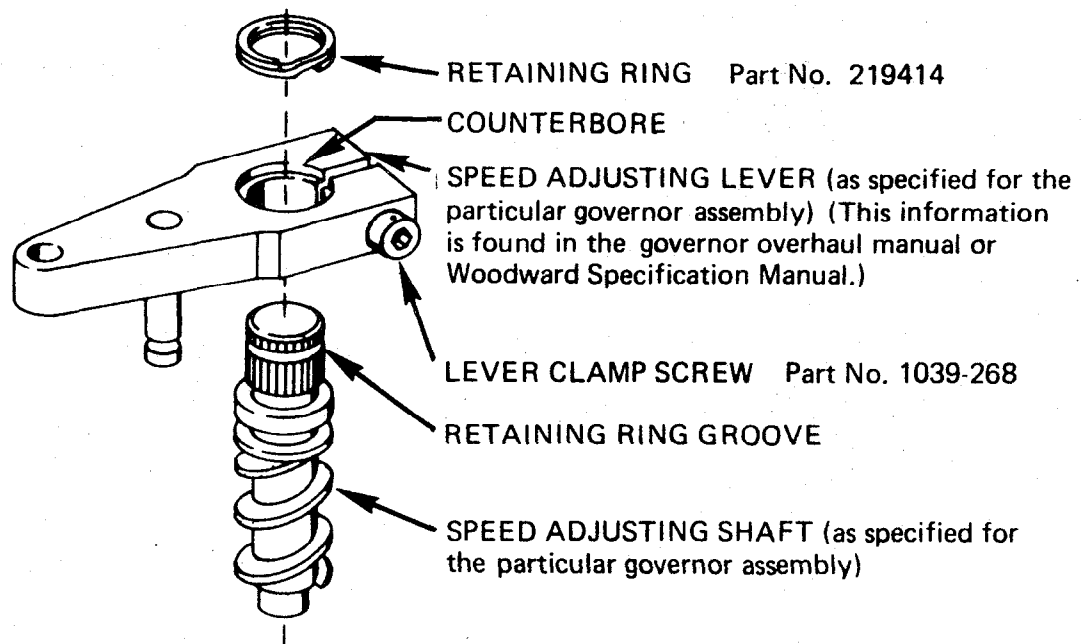
Return the governor to Woodward Governor Co. or an FAA approved governor overhaul station for corrective action or replace it with a serviceable exchange unit.

4. At next regular governor overhaul, if not already incorporated, install the following new parts to provide positive lever retention.

PARTS REQUIRED

1. Speed adjusting shaft with retaining ring groove.
2. Speed adjusting lever with counterbore.
3. Retaining ring.
4. Lever clamp screw (installed torque of 33-38 lb. ins. is required).

Specify the governor part and serial numbers when ordering parts.



Woodward Governor Company
Main Office: Rockford, Illinois, U.S.A.
Fort Collins, Colorado, U.S.A. - Tokyo, Japan
Sydney, N.S.W., Australia

Woodward Governor Nederland B.V.
Hoofddorp, The Netherlands

Woodward Governor (U.K.) Ltd.
Slough, Bucks., England

Woodward Governor GmbH
Lucerne, Switzerland

Woodward Governor (Quebec) Ltd.
Montreal, Quebec, Canada