



# SERVICE LETTER

No. 707

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

February 27, 1974 S/M

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Subject: Modified Flyball Assembly to Improve RPM Control  
-- reference attached Hartzell Service Letter No. 75,  
dated November 16, 1973.

Models and Serial  
Numbers Affected: All Piper airplanes with Hartzell propeller governors installed.

Compliance Time: Refer to attached Hartzell Service Letter No. 75, Recom-  
mended Action.

Purpose: To provide distribution of attached Hartzell Service Letter  
No. 75, dated November 16, 1973, which announces a  
product refinement feature to Hartzell propeller governors  
installed on Piper airplanes.

Instructions:

1. Refer to attached Hartzell Service Letter No. 75,  
Recommended Action and Instructions.
2. Owners of Hartzell propeller governor equipped Piper  
airplanes may participate in the product refinement  
program discussed in the body of the attached Hartzell  
Service Letter No. 75 by one of two methods:
  - a. Replace existing governor flyweight assembly  
with an improved flyweight assembly on an  
exchange basis at a suggested list price of \$6.00;  
or
  - b. Replace existing governor flyweight assembly  
with a new flyweight assembly at a suggested  
list price of \$17.95.

Material Required: Reference Hartzell Service Letter No. 75, Page 2 "Part  
Number" column.

It is recommended that this propeller governor refinement  
program be handled through a certified propeller overhaul  
facility.

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*Hartzell* • PROPELLER, INC.



*Manufacturers of Airplane Propellers*  
350 WASHINGTON AVE.

**PIQUA, OHIO 45356**

SERVICE LETTER NO. 75

November 16, 1973

Subject: Modified Flyball Assembly to Improve RPM Control

Discussion: To effect an improved RPM control on aircraft with the Hartzell governors, a modified flyweight assembly designed to absorb the torsional motions of the drive gear are being installed in all Hartzell production governors.

Recommended Action:

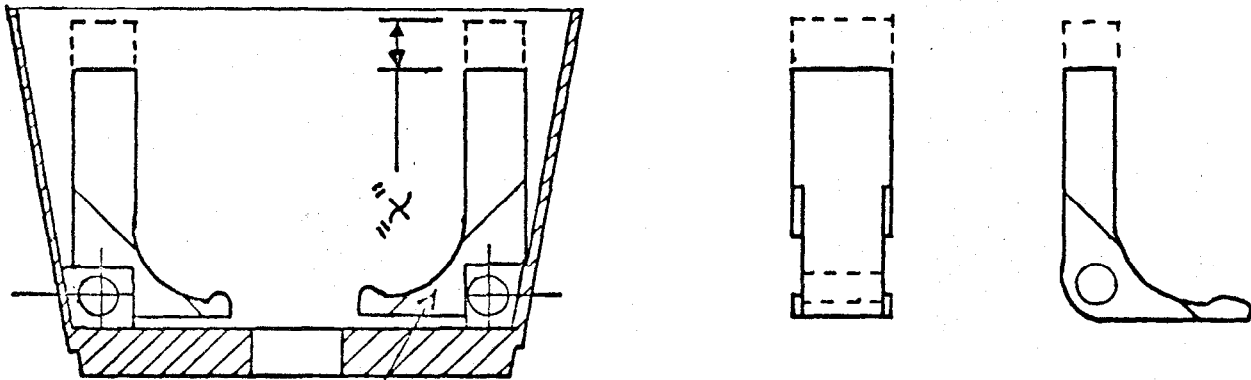
- 1) Governors now in the field which are not providing acceptable RPM control may be returned to the factory for exchange. All governors will be brought up to date at overhaul.
- 2) Governors may be modified in the field.

Instructions:

To modify governors in the field:

- 1) Determine flyweight assembly needed using parts listed in this letter.
- 2) The flyweight assembly can be changed by:
  - a) removing cover assembly
  - b) removing flyweight assembly locking ring
  - c) removing flyweight assembly
  - d) placing new flyweight assembly in place
  - e) replacing lock ring, making sure it is in place
  - f) replacing cover gasket 50672, and
  - g) installing cover assembly

Apply equal torque to all nuts. If governor is removed from engine, replace governor mounting gasket MS100009.



A-153(A)-(C) FLYWEIGHT (SEE CHART)  
(MATERIAL GROUND FROM  
SIDES ON "A" MODIFICATION)

A-153A-2	0	1600-2800
A-153A-1	.250	2500-3700
A-153A	.462	3200-4350
A-153-2	0	1600-2800
A-153-1	.250	2500-3700
A-153	.462	3200-4350
PART NO.	X" LENGTH REMOVED	RPM RANGE