

HARTZELL PROPELLER INC.
SERVICE BULLETIN
TRANSMITTAL SHEET

HC-SB-61-88A

Governor

Governor - Replacement of Relief Valve Springs

February 20, 2008

This page transmits Revision 1 to Service Bulletin HC-SB-61-88A.

- Original Issue (as SB-88), dated July 2, 1964, amended July 8, 1964
- Reissued (as SB-88A) dated August 4, 1964
- Revision 1 dated February 20, 2008

Propeller assemblies that have previously complied with previous revisions of this Service Bulletin are not affected.

FAA approval has been obtained on technical data in this publication that affects type design.

This Service Bulletin has been reissued in it's entirety.

This revision is issued to change the following in the Service Bulletin:

- This Service Bulletin was previously obsoleted in error. Revision 1 is being issued due to its association with Airworthiness Directive 64-15-03.
- Updated compliance to reflect current parts.
- Formatting changes.

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1. Planning Information

A. Effectivity

- (1) F-6-3 and F-6-5 governors used on Piper PA-30 and on PA-23-250 aircraft equipped with HC-E2Y(K,R)-2()/F7666(A)-4 propellers are affected by this Service Bulletin.
- (2) F-6-3A and F-6-5A governors, as well as any affected governor that has previously complied with Hartzell Service Bulletin 88A, dated August 4, 1964 or subsequent, are exempt from this Service Bulletin.

B. Concurrent Requirements

None

C. Reason

- (1) There have been reports of inadvertent feathering of the propeller during single engine operation.
- (2) Service Bulletin 88A was previously obsoleted in error. Revision 1 to this Service Bulletin is being issued since it is referenced by Airworthiness Directive 64-21-05.

D. Description

- (1) This bulletin requires replacement of the previously installed A-3107 relief spring with a strengthened A-3107 relief spring.

E. Compliance

- (1) Airworthiness Directive 64-21-05 states that compliance was to be completed within 10 hours time in service after the effective date of the AD (Sept. 16, 1964). All affected governors should have previously complied with this bulletin.

F. Approval

This Service Bulletin revision is approved by the Manager, FAA, Chicago Aircraft Certification Office, ACE 115C, by approval document dated August 20, 2008 as an alternate method of compliance with Airworthiness Directive 64-21-05.

G. Manpower

Governor Removal & Re-installation - 1 hr.
Relief Valve Inspection & Reassembly - 0.5 hr.
Testing (if parts replacement was required) - 0.5 hr.

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H. Weight and Balance

Not changed.

I. Electrical Load Data

Not changed.

J. References

(1) Hartzell Governor Maintenance Manual 130B (61-23-30)

(2) Airworthiness Directive 64-21-05

K. Other Publications Affected

None

2. Material Information

A. Material Necessary for Each Governor

<u>Part Number</u>	<u>Keyword</u>	<u>Obsolete Part Number</u>	<u>Fig/Item No.</u>	<u>Qty</u>
A-255-1	Plug, Rel. Valve	65188, A-255	1028-58	1
A-3107	Spring	A-3107 (see Note 1)	1028-60	1
A-3173	Relief Valve	321141, A-3173 (see Note 2)	1028-61	1

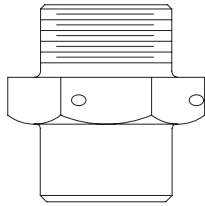
NOTE 1: Obsolete versions of the A-3107 spring were made from 0.075 inch wire. The current version is made from 0.080 inch wire. See Figure 1.

NOTE 2: Obsolete versions of the relief valve were made with a rectangular slot. Current design features a round hole. See Figure 1.

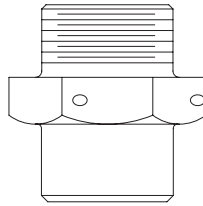
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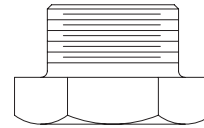
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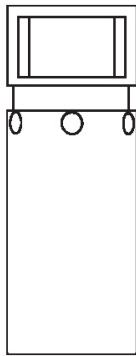
65188 Relief
Valve Nut
(Ham. Std. - obsolete)



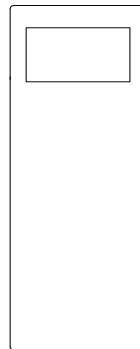
A-255 Relief
Valve Nut
(obsolete)



A-255-1 Relief
Valve Nut
(current)



65188 Relief Valve
(Ham. Std. - obsolete)



A-3173 Relief Valve
(obsolete)



A-3173 Relief Valve
(current)



A-3107 Spring
Wire size 0.075 inch (obsolete)
Wire size 0.080 inch (current)

Identification of Relief Valve Components
Figure 1

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Governor-Replacement of Relief Valve Springs

3. Accomplishment Instructions

- A. Remove the governor from the aircraft.
- B. Inspect the governor relief valve components in accordance with Figure 1.
- C. Replace any obsolete parts with those of current design.
- D. Using a low stress metal stamp, stamp an "A" following the governor model number - for example, change F-6-5 to F-6-5A.
- E. Re-assemble the governor in accordance with Hartzell Governor Maintenance Manual 130B (61-23-30).
- F. Test the governor in accordance with Hartzell Governor Maintenance Manual 130B (61-23-30).
- G. Reinstall governor on aircraft.
- H. Make a logbook entry indicating compliance with this Service Bulletin.