

**HARTZELL PROPELLER INC.**  
**SERVICE BULLETIN**  
**TRANSMITTAL SHEET**  
**HC-SB-61-372**  
**Governor - Speeder Compression Spring**

December 01, 2016

This page transmits a revision to Service Bulletin HC-SB-61-372.

- Original Issue, dated Aug 31/16
- Revision 1, dated Dec 01/16

Propeller assemblies that have previously complied with the terminating action in a previous revision of this Service Bulletin are not affected.

Changes are shown by a change bar in the left margin of the revised pages.

Revision 1 is issued to change the following in this Service Bulletin:

- Revise Table 1, "Serial Numbers of Affected S-1-20 Governors"

This Service Bulletin is reissued in its entirety.

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1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. S-1-20 governors with serial numbers listed in Table 1 are affected by this Service Bulletin.
- (a) The affected governors are installed on normally aspirated Cirrus SR22 aircraft that have Hartzell Propeller Inc. PHC-J3YF-1RF and PHC-J3Y(1)F-1N model propellers installed.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. INFORMATION CONTAINED IN THIS SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE SERVICE BULLETIN INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN.

B. Concurrent Requirements

- (1) Additional service documents may apply to the components/propellers affected by this Service Bulletin. Compliance with additional service documents may be necessary in conjunction with the completion of the Accomplishment Instructions in this Service Bulletin. Refer to the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com) for a cross-reference of service documents.

G36NJ	G2819NJ	G2850NJ	G2900NJ	G2932NJ	G2976NJ
G42NJ	G2820NJ	G2851NJ	G2901NJ	G2933NJ	G3005NJ
G2380NJ	G2821NJ	G2852NJ	G2902NJ	G2956NJ	G3006NJ
G2742NJ	G2822NJ	G2853NJ	G2903NJ	G2957NJ	G3007NJ
G2760NJ	G2825NJ	G2858NJ	G2904NJ	G2958NJ	G3123NJ
G2761NJ	G2826NJ	G2859NJ	G2906NJ	G2959NJ	G3124NJ
G2789NJ	G2827NJ	G2870NJ	G2919NJ	G2960NJ	G3125NJ
G2790NJ	G2828NJ	G2871NJ	G2920NJ	G2961NJ	-
G2791NJ	G2829NJ	G2872NJ	G2921NJ	G2970NJ	-
G2792NJ	G2830NJ	G2873NJ	G2923NJ	G2972NJ	-
G2793NJ	G2831NJ	G2898NJ	G2930NJ	G2974NJ	-
G2804NJ	G2832NJ	G2899NJ	G2931NJ	G2975NJ	-

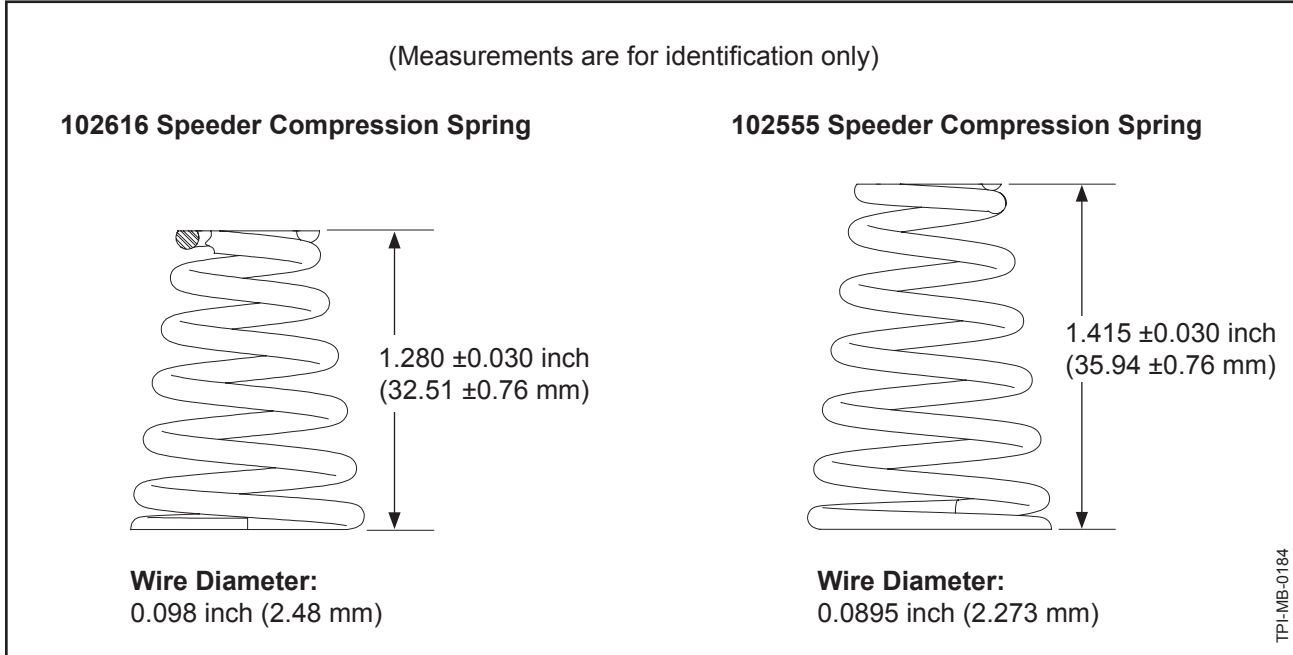
**Serial Numbers of Affected S-1-20 Governors**  
**Table 1**

HARTZELL PROPELLER INC.

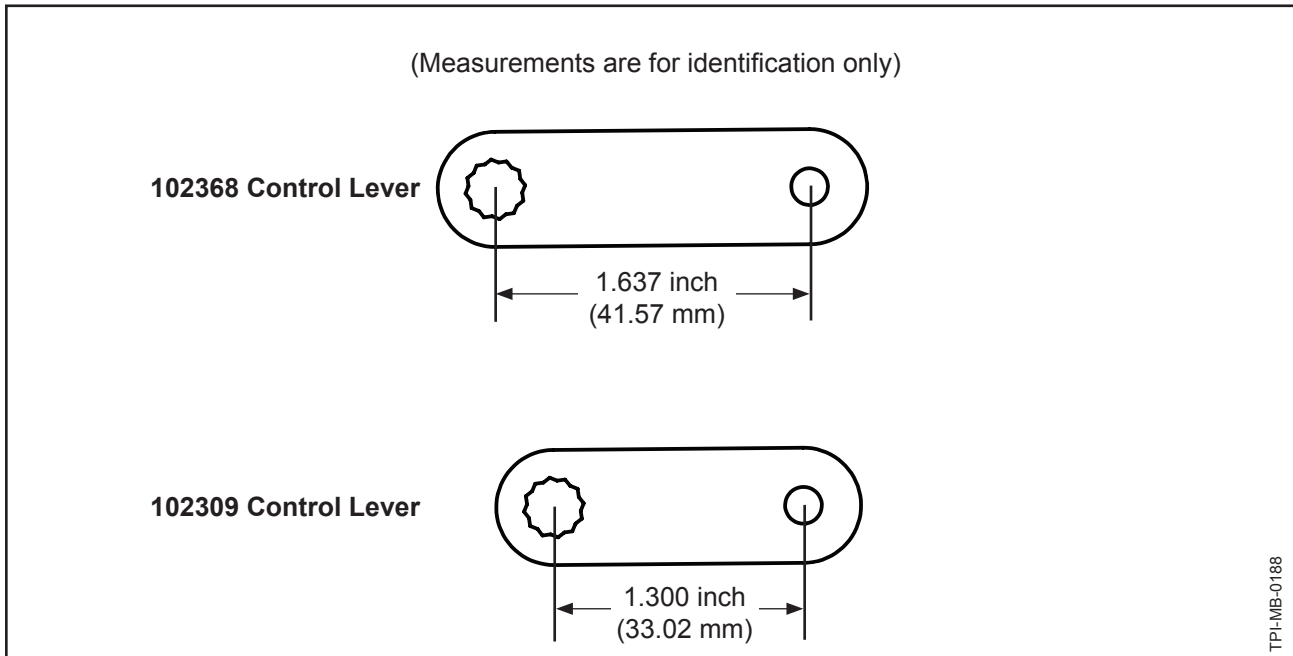
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### Governor - Speeder Compression Spring



Spring Identification  
Figure 1



Control Lever Identification  
Figure 2

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C. Reason

- (1) Hartzell Propeller Inc. has received reports of RPM fluctuations on normally aspirated Cirrus SR22 aircraft operating with the affected governors.
  - (a) Hartzell Propeller Inc. is introducing the 102616 speeder compression spring as a replacement for the 102555 speeder compression spring used in the affected governors.
    - 1 Installation of the 102616 speeder compression spring will prevent the RPM fluctuations on aircraft operating with the affected governors.
  - (b) Hartzell Propeller Inc. is introducing the 102368 control lever as a replacement for the 102309 control lever used in the affected governors.
    - 1 Installation of the 102368 control lever will increase the low RPM setting so that an engine test can be performed with the propeller in a fixed pitch configuration.

D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin introduces the 102616 speeder compression spring as a replacement for the 102555 speeder compression spring used on the affected governors. Refer to Figure 1 for spring identification.
  - (a) Existing inventory/stock of 102555 speeder compression springs may be used on Hartzell Propeller Inc. governor models that were manufactured with the 102555 spring if those governors are not affected by this Service Bulletin.
- (3) This Service Bulletin introduces the 102368 control lever as a replacement for the 102309 control lever used on the affected governors. Refer to Figure 2 for control lever identification.
  - (a) Existing inventory/stock of 102309 control levers may be used on Hartzell Propeller Inc. governor models that were manufactured with the 102309 control lever if those governors are not affected by this Service Bulletin.
- (4) This Service Bulletin provides instructions for installing the 102616 speeder compression spring and the 102368 control lever on affected governors at governor overhaul.
- (5) This Service Bulletin provides instructions for inspecting the 102616 speeder compression spring and the 102368 control lever at governor overhaul.
- (6) Hartzell Propeller Inc. S-1-20 model governors manufactured after the release of this Service Bulletin will incorporate the 102616 speeder compression spring and the 102368 control lever.

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E. Compliance

- (1) At next governor overhaul, install a new or serviceable 102616 speeder compression spring and a new or serviceable 102368 control lever in accordance with the Accomplishment Instructions in this Service Bulletin.

NOTE: Overhaul intervals are specified in Hartzell Propeller Inc. Service Letter HC-SL-61-61Y.

- (a) Installation of the 102616 speeder compression spring and the 102368 control lever is terminating action for this Service Bulletin.

F. Approval

- (1) FAA acceptance has been obtained on technical data in this publication that affects type design.

G. Manpower

- (1) No additional man-hours are required when performed at overhaul.

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not changed

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

J. References

- (1) Hartzell Propeller Inc. Service Letter HC-SL-61-61Y  
- Available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com)
- (2) Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30)

K. Other Publications Affected

- (1) Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30)

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2. Material Information

CAUTION: INSTRUCTIONS AND PROCEDURES IN THIS SERVICE BULLETIN MAY INVOLVE PROPELLER CRITICAL PARTS. REFER TO THE APPLICABLE PROPELLER OVERHAUL OR OWNER'S MANUAL FOR INFORMATION ABOUT PROPELLER CRITICAL PARTS.

A. Material Required for Each Governor

<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
102616	Spring, Compression, Speeder	1
102368	Control Lever	1

3. Accomplishment Instructions

CAUTION: INSTRUCTIONS AND PROCEDURES IN THIS SERVICE BULLETIN MAY INVOLVE PROPELLER CRITICAL PARTS. REFER TO THE APPLICABLE PROPELLER OVERHAUL OR OWNER'S MANUAL FOR INFORMATION ABOUT PROPELLER CRITICAL PARTS.

A. Installing the 102616 Speeder Compression Spring and 102368 Control Lever at Governor Overhaul

- (1) This procedure must be performed by a service facility with the appropriate rating and approval to overhaul mechanically actuated governors.
- (2) Install the 102616 speeder compression spring and the 102368 control lever in accordance with the assembly instructions for S-1-20 governors in Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30) - except, do not install the B-3834-0663 control shaft washer on the bottom of the control shaft.
  - (a) Complete the governor overhaul procedures in accordance with Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30).
- (3) Make an entry in the logbook indicating installation of the 102616 speeder compression spring and the 102368 control lever as terminating action for this Service Bulletin.

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**B. Instructions for Continued Airworthiness**

- (1) Inspecting the 102616 Speeder Compression Spring
  - (a) Inspect the 102616 speeder compression spring in accordance with Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30).
- (2) Inspecting the 102368 Control Lever
  - (a) Inspect the 102368 control lever in accordance with Hartzell Propeller Inc. Mechanically Actuated Governors and Accessories Maintenance Manual 130B (61-23-30).

**C. Recommended Service Facilities**

- (1) Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.
- (2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller Inc. requirements before being recommended by Hartzell Propeller Inc. Each service facility is audited by Hartzell Propeller Inc. to verify the continuation of the standards.
- (3) Hartzell Propeller Inc. recommends that you use one of these service facilities when having your governor/propeller overhauled or repaired.
- (4) For a current list of Hartzell Propeller Inc. Recommended Service Facilities, contact Hartzell Propeller Inc. Product Support or refer to the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com).

**D. Contact Information**

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