TECHNICAL INSTRUCTION
HAC15-001 Rev. A, April 3, 2018

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

HA225-7DEC and HA225-9DEC Latch Assembly
INSTALLED ON
BOEING 737 SERIES AIRCRAFT
BOEING 757 SERIES AIRCRAFT

(SEE THE RESPECTIVE HA225-7DEC OR HA225-9DEC SUPPLEMENT FOR SPECIFIC MODELS)

All softcopies and hardcopies of this document are uncontrolled.
The only controlled copy can be found at http://ipc.heico.com/

1. Introduction

This HEICO Aerospace Technical Instruction (TI) defines the Instructions for Continued Airworthiness when P/N HA225-7DEC and HA225-9DEC are installed on the aircraft listed on the FAA approved supplement for P/N HA225-7DEC and HA225-9DEC. P/Ns HA225-7DEC and HA225-9DEC are FAA Approved (PMA) as replacements for Boeing P/Ns HA225-7 and HA225-9.

Boeing P/Ns HA225-7DEC and HA225-9DEC are overhead bin latches. The HA225-7DEC and HA225-9DEC latches are identical except for the addition of a locking mechanism on the HA225-9DEC latch.

The DEC Technologies, Inc. latches replaced the Compression Spring with a silicone rubber Damper. The design of the Latch allows the Hook to retract while the Handle is held shut. The Damper performs the same function as the Compression Spring, which is to maintain a slight resistive force on the Handle when the Hook is retracted with the Handle held shut.

2. Replacement of Compression Spring of P/N HA225-7DEC and HA225-9DEC

NOTE:
The information presented in this section is for informational purposes only. It is not intended to alter any existing aircraft manual or documentation

Hartwell Service Instruction SI 11-10-01 provides instructions for replacing both the Torsion and Compression Springs. Shown below in Figure 1 is an exploded view of an HA225 series Latch, configured with the Damper installed in place of the Compression Spring. Figure 2 shows the correct location and orientation of the Damper, P/N 131731-7-13DEC, for the HA225 series latches.

HA225-7DEC

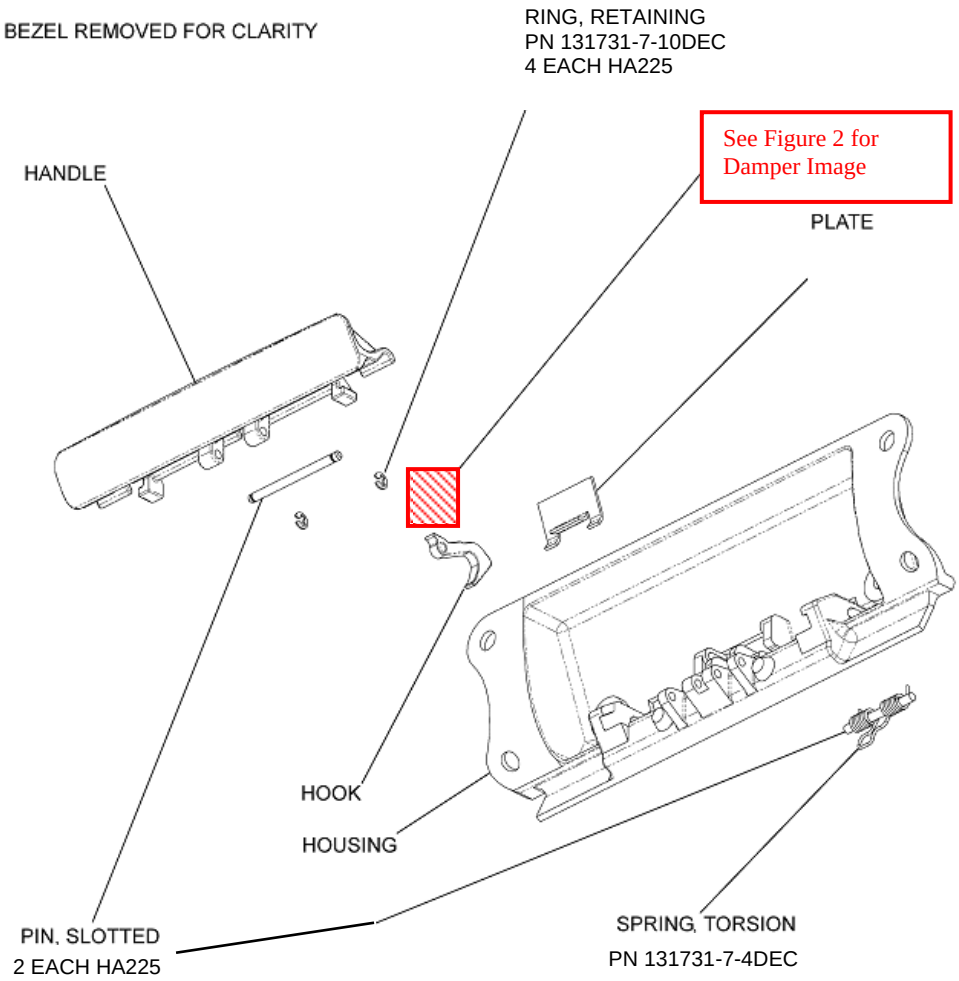

FIGURE 1: Spring Replacement

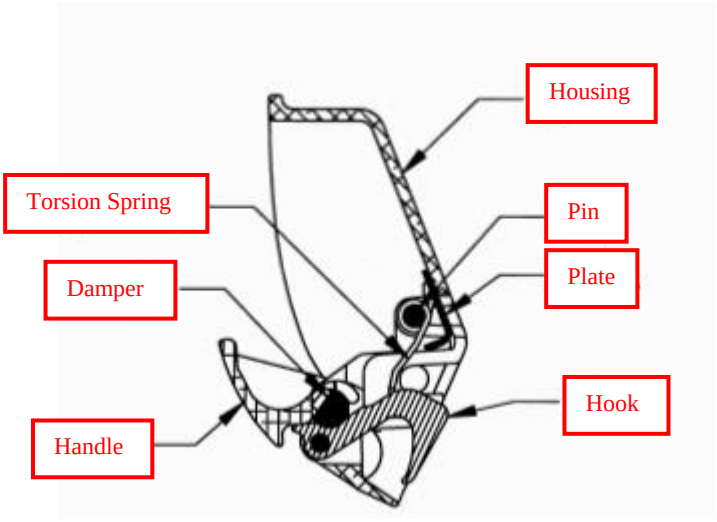

FIGURE 2: HA225-7DEC with Damper

3. Airworthiness Limitations

The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved. The Instructions for Continued Airworthiness presently acceptable to the FAA for P/Ns HA225-7 and HA225-9 are valid for use on P/Ns HA225-7DEC and HA225-9DEC with exception of the repair procedures found below in Section 4. Due to the fact that P/Ns HA225-7DEC and HA225-9DEC are not life limited parts, no additional airworthiness limitations are imposed by the supplementary Instructions for Continued Airworthiness found below in Section 4.

4. Repair of the HA225-7DEC and HA225-9DEC Latches

Damper Replacement –

1. Remove the Bezel Assembly and verify the Housing part marking,
   a. If the Housing is marked "TURBINE KINETICS, INC.", skip the remaining of this “Damper Replacement” section and next “Torsion Spring Replacement - HA225 Series” section. Afterwards, follow the Hartwell ICA in full (configured with Compression Spring).
   b. If the Housing is marked "DEC TECHNOLOGIES, INC.", process as listed below in Steps 2 through 9 (configured with Damper):

2. Remove the two retaining rings from the slotted Pin.

3. Slide the slotted pin out of the handle. Avoid grabbing the pin with pliers as this can remove the dry film lubricant. Use a similar sized gage pin to push the slotted Pin out of the Housing.

4. Separate the Handle form the Housing.

5. Remove the old Damper from the Handle.

6. Put the new Damper, P/N 131731-7-13DEC into the handle. See Figure 2 for the correct orientation.

7. Make sure the Hook is in the housing.

8. Align the ID of the holes in the Handle, Hook, and Housing and insert the slotted Pin.

9. Secure the slotted pin with the two retaining rings. Ensure there is no play in the retaining rings. If the retaining rings are loose in the groove, replace with P/N 131731-7-10DEC.

Torsion Spring Replacement – HA225 Series

1. Remove the two retaining rings from the slotted Pin.

2. Slide the slotted pin out of the handle. Avoid grabbing the pin with pliers as this can remove the dry film lubricant. Use a similar sized gage pin to push the slotted Pin out of the Housing.

3. Remove the old Torsion Spring from the Handle.

4. Put the new Torsion Spring (P/N 131731-7-4DEC) into the Handle.

5. Make sure the Plate is in the Handle.

6. Align the ID of the Spring with the ID of the holes in the Housing and insert the slotted Pin.

7. Make sure the closed loop of the Torsion Spring engages the Hook.

8. Secure the slotted pin with the two retaining rings. Ensure there is no play in the retaining rings. If the retaining rings are loose in the groove, replace with P/N 131731-7-10DEC.

5. Material Information

This document will be maintained and the latest approved revision posted on the HEICO web site at http://ipc.heico.com .

6. Revision and Approval History

Initial Release – November 11, 2015

Rev. A – April 3, 2018

All changes are identified throughout this document per marginal indicia.

The original PMA holder's design (DEC Technologies, Inc.) for P/Ns HA225-7DEC and HA225-9DEC replaced the Compression Spring used in the OEM design with a Damper. The current PMA holder (Turbine Kinetics, Inc.) for P/Ns HA225-7DEC and HA225-9DEC has revised both designs to utilize an equivalent replacement to the OEM Compression Spring in place of the Damper.