

# SERVICE INFORMATION LETTER

**Subject:** Shaft External Spline Slightly Oversize Possibly Affecting Installation

1. Planning

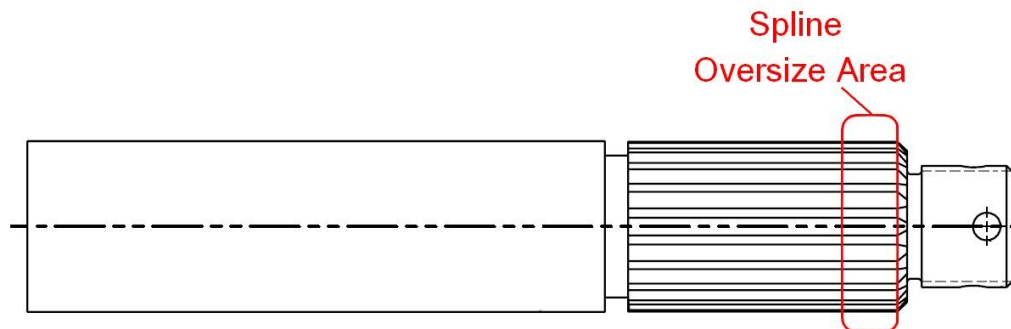
a. Effectivity

Wencor P/N	NHA P/N	NHA Description	ATA	Aircraft Application
65B13152-3WE	140N2665-X	Mechanism Instal-No. X Passenger Door Handle	52-11-05 52-11-05 52-11-13 52-11-15 52-11-25	B757-200 Series B757-200CB Series B757-200PF Series B757-300 Series

b. Reason:

An unknown quantity of the Wencor Inner Shaft's PN 65B13152-3WE were manufactured with a slightly oversize external spline (approx. .0004") as measured on the pitch diameter over pins. The oversize condition was found to be near the end of the spline area as shown in Figure 1. This condition may affect or prevent the installation of the Shaft into the NHA if the internal spline on the mating part is at its minimum size creating a tight fit condition.

However, it is also possible that this condition will not ever be noticed during an installation because of the size condition of the mating part.



**Figure 1, Inner Shaft Showing Oversize Spline Area**

Revision: Original  
 Date: Jan 23, 2013

Service Information Letter No: 130123-001  
 Page 1 of 4



1625 North 1100 West  
Springville, UT 84663  
801-489-2000

### c. Background

The manufacturing process of the Shaft did not account for the possibility of spline taper, which appears to be the cause for the out of tolerance condition. When the Shaft spline was inspected, the end of the spline area was not measured, but only the middle area was measured which was found to be within tolerance. The end of the spline area, which was slightly out of tolerance was not properly inspected, which allowed the out of tolerance Shafts to be accepted, sold to customers and put into service.

Wencor has taken appropriate corrective action to ensure all Inner Shafts manufactured after August 2012 meet the size and process requirements as defined on the Wencor drawing.

### d. Safety

This out of tolerance condition does not affect aircraft safety or instructions for continued airworthiness.

## 2. Recommended Action

### a. Repair and Overhaul

To confirm acceptable usage of the Wencor Inner Shaft, the user shall perform a fit check with the NHA. If the Wencor Inner Shaft can be installed in a normal manner according to the CMM (see Figure 2), the Wencor Inner Shaft can be put into service without any concerns.

If the user suspects an out of tolerance condition on the spline or has trouble installing the Wencor Inner Shaft into the NHA, the Shaft should be returned to Wencor for replacement.

## 3. Compliance

There is no required time frame for compliance with this SIL. However, Inner Shafts purchased after August 2012 have been verified to eliminate any spline taper and meet the Wencor design and manufacturing requirements.

Revision: Original  
Date: Jan 23, 2013

Service Information Letter No: 130123-001  
Page 2 of 4



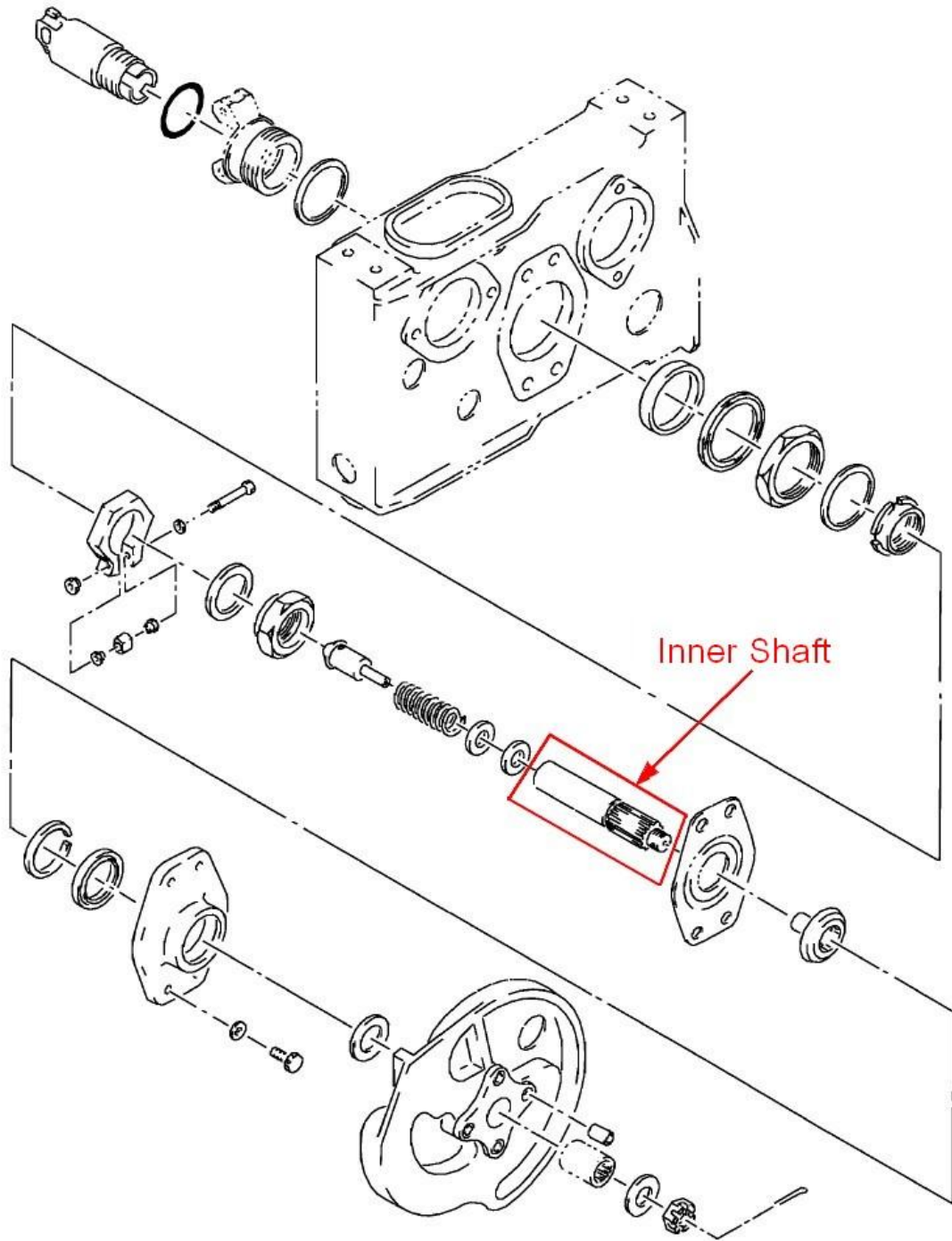
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#### 4. Material

Wencor Inner Shaft's that require replacement as a result of this Service Information Letter will be covered free of charge under the Wencor material warrantee. If there are any questions regarding this Service Information Letter, please contact the applicable Wencor sales representative by calling 801-489-2000 or email: [sales@wencor.com](mailto:sales@wencor.com). For technical questions please contact Jon Bies at [jbies@wencor.com](mailto:jbies@wencor.com).

Revision: Original  
Date: Jan 23, 2013

Service Information Letter No: 130123-001  
Page 3 of 4



**Figure 2, Inner Shaft in Passenger Door Handle Mechanism**