

## **40-279 / 40-279A WHEEL ASSEMBLIES - 154-10600 INBOARD GREASE SEAL - INSPECT / REPLACE**

- EFFECTIVITY:** Parker P/N 40-279A Wheel Assemblies shipped from Parker from June 9, 2005 through April 17, 2007 (DATE MFG: 06/05 (June 2005) through 04/07 (April 2007)). Applicable to spare grease seals 154-10600 shipped from Parker starting March 16, 2007 and ending May 9, 2007. Applicable to SB7082-1 Kit shipped on January 27, 2006.
- APPLICABILITY:** All Air Tractor Model 802 Aircraft currently operating with Parker Hannifin Corporation, Aircraft Wheel & Brake Division P/N 40-279 and 40-279A Wheel Assemblies that are equipped with P/N 154-10600 Grease Seals, 154-10600 Grease seals shipped as spares and SB7082-1 Kits.
- REASON:** A field report regarding metal to metal contact of 154-10600 Grease Seal with bearing cone has lead to discovery of nonconforming grease seals shipped. The inside diameter of the metal backing has been observed to be undersized (Ref. DIA. 3.312 in Figure 1). This can result in the metal backing coming into contact with the bearing cone. This condition if left uncorrected could potentially result in reduced service life of the grease seal and the bearing.
- DESCRIPTION:** This document provides the necessary instructions to inspect and replace the applicable P/N 154-10600 grease seals.
- COMPLIANCE:** MANDATORY. Replace non-conformant seals at the earliest opportunity. Contact Parker Hannifin, Aircraft Wheel & Brake - Avon, Ohio for instructions on how to obtain replacement seals.
- APPROVAL:** The contents of this Service Bulletin are FAA DER approved.
- WEIGHT & BAL.:** None
- PUBLICATIONS:** This service bulletin will be incorporated into the Component Maintenance Manual at next revision.
- MATERIALS:** Contact Parker Aircraft Wheel & Brake for replacement seal availability and return instructions.



# SERVICE BULLETIN

## PROCEDURE:

### A. PRODUCT INSTALLED ON AIRCRAFT

- 1) Review maintenance records for compliance to SB7082. If seals comply to SB7082, then proceed to step 3.
- 2) Inspect Wheel Half of Parker Hannifin, Aircraft Wheel & Brake P/N 40-279A at earliest opportunity for date of manufacture (DATE MFG). If Wheel Assembly has DATE MFG: 0605 (June 2005) through 04/07 (April 2007) then proceed to step 3. If wheels are not within the included DATE MFG range then identify the assembly as complying with SB7089 and no further activity is required.
- 3) Jack aircraft per service manual and fully deflate tires. Remove P/N 155-08300 snap ring that secures P/N 158-01700 hubcap and outboard wheel half then remove hubcap.
- 4) Remove cotter pin, axle nut and axle washer and then remove wheel assembly from axle per service manual instructions.
- 5) With wheel assembly off aircraft, remove P/N 155-08300 snap ring on inboard wheel half then remove grease seal.
- 6) a) If grease seal is P/N 154-03900, then the seal is conformant and make appropriate entry in aircraft log books to identify wheel assembly as complying with SB7089. Inspect at normal service intervals per the AWB maintenance manual.  
b) If grease seal is P/N 154-10600, then inspect grease seal for non-conforming condition:

#### NONCONFORMING CONDITION:

Inspect rubber flange (Ref. Figure 1).

If the part is the 154-10600 and there is no revision letter on the seal then the parts have been made prior to the nonconformity correction and the seal is **non-conformant**. Immediately return nonconforming seal to Parker Hannifin, Aircraft Wheel & Brake and inspect bearings per maintenance manual. Upon receipt of replacement seal, clean grease seal bore area with Stoddard solvent or other suitable cleaner and dry thoroughly, install new seal in bore of inboard wheel half making sure seal is thoroughly seated in wheel hub bore, and then secure with snap ring P/N 155-08300 and re-assemble wheel assembly per airframe maintenance manual, install on aircraft and make appropriate entry in aircraft log books to identify wheel assembly as complying with SB7089. Note: Silicone Spray or wheel bearing grease can be applied to outside diameter of seal to facilitate installation.

If there is a revision letter present of A or higher after the 154-10600 part number, the seal is **conformant**. Re-assemble wheel assembly per airframe maintenance manual, install on aircraft and make appropriate entry in aircraft log books to identify wheel assembly as complying with SB7089. Inspect at normal service intervals per the AWB maintenance manual.



# SERVICE BULLETIN

## **B. INVENTORY OF WHEEL ASSEMBLIES**

- 1) Inspect Wheel Assembly on Parker Hannifin, Aircraft Wheel & Brake 40-279A for date of manufacture (DATE MFG). If Wheel Assembly has DATE MFG: 0605 (June 2005) through 04/07 (April 2007) then proceed to step 2. If wheels are not within the included DATE MFG range then identify on the grease seal / hardware package as complying with SB7089 and no further activity is required.
- 2) Remove both grease seals from hardware package, inspect or nonconforming condition per A.6:).  
  
If seals are conformant, identify grease seal package as complying with SB7089.

If seals are non-conformant, immediately return seals to Parker Hannifin, Aircraft Wheel & Brake. Upon receipt and installation of replacement seals, identify on the grease seal / hardware package as complying with SB7089.

## **C. INVENTORY OF GREASE SEALS**

- 1) Check shipping records. If grease seals were shipped from Parker Hannifin, Aircraft Wheel & Brake within March 16, 2007 through May 9, 2007, then inspect grease seals for nonconforming condition per A.6:  
  
If seals are conformant, identify grease seal package as complying with SB7089.

If seals are non-conformant, immediately return seals to Parker Hannifin, Aircraft Wheel & Brake. Upon receipt and installation of replacement seals, identify on the grease seal / hardware package as complying with SB7089.

## **D. INVENTORY OF KITS**

- 1) Check shipping records. If SB7082-1 Kit was shipped from Parker Hannifin, Aircraft Wheel & Brake on January 27, 2006, then inspect grease seals for nonconforming condition per A.6:.  
  
If seals are conformant, identify grease seal package as complying with SB7089.

If seals are non-conformant, immediately return seals to Parker Hannifin, Aircraft Wheel & Brake. Upon receipt and installation of replacement seals, identify on the grease seal / hardware package as complying with SB7089.



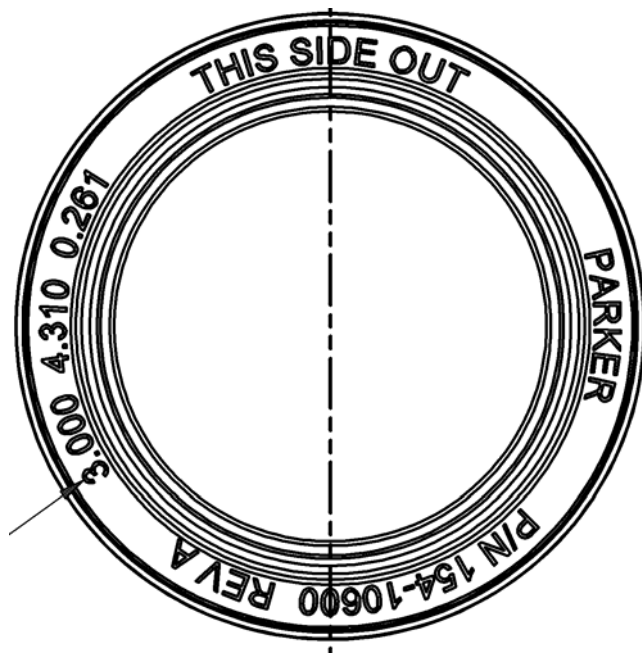


Fig-1

