

Cleveland

Wheels & Brakes

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SERVICE BULLETIN

MAIN WHEEL ASSEMBLY 40-424 – P/N 154-08400 GREASE SEAL REPLACEMENT

- EFFECTIVITY:** Parker Hannifin Main Landing Gear Wheel Assembly Model Number 40-424 Grease Seal P/N 154-08400.
- APPLICABILITY:** Pilatus Aircraft LTD., aircraft models PC-12, PC-12/45, PC-12/47, and PC-12/47E, equipped with Parker Hannifin, Aircraft Wheel & Brake, Main Wheel Assemblies P/N 40-424 (ref. conversion kit 199-241).
- REASON:** Parker Hannifin has received reports indicating that if the grease seal is not centered upon installation, the wheel bearing bore may develop grooves and wear due to friction between the grease seal outer diameter and the wheel grease seal bore.
- DESCRIPTION:** This document provides the necessary instructions to remove and replace the P/N 154-08400 grease seal.
- COMPLIANCE:** RECOMMENDED at next tire change or annual inspection, whichever occurs first.
- APPROVAL:** The contents of this Service Bulletin are FAA DER approved.
- WEIGHT & BAL.:** Not Applicable
- PUBLICATIONS:** This service bulletin will be incorporated into the Cleveland Wheels & Brakes Component Maintenance Manual, CMM 40-424, at next revision.
- MATERIALS:** Service bulletin kit P/N SB7087-1 contains the following parts to rework one 40-424 wheel assembly to use the new grease seal. Contact Pilatus Business Aircraft, Broomfield, Colorado, or Parker Hannifin, Aircraft Wheel & Brake Service Center for ordering information.

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
154-08401	Grease Seal	2
SB7087	Service Bulletin (copy of this document)	1

ACCOMPLISHMENT INSTRUCTIONS:

- 1) At the next tire change or annual inspection, inspect aircraft or aircraft records to determine if Main Wheel Assembly Model Number 40-424 (ref. Conversion kit 199-241) is installed.
- 2) Aircraft that have been identified as not being equipped with the 40-424 Main Wheel may be returned to service.
- 3) Remove 40-424 main wheel from the aircraft.
- 4) All 40-424 wheels verified as being equipped with the P/N 154-08401 grease seal per SB7087 may be returned to service (ref. Figure 1 (after)).
- 5) If inspection indicates that the 154-08400 grease seal is installed (ref. Figure 1 (before)), contact Pilatus Business Aircraft, Broomfield, Colorado, or Parker Hannifin, Aircraft Wheel & Brake Service Center to obtain grease seal kit SB7087-1 listed in MATERIALS Section of this Service Bulletin.

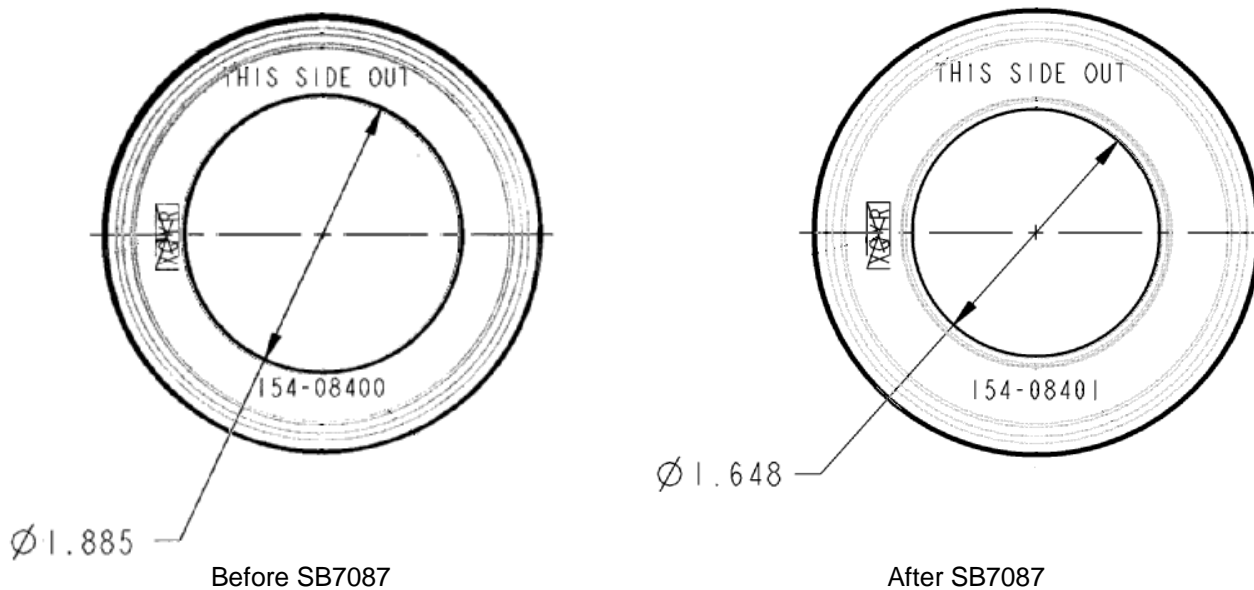


Figure 1

- 6) Remove the retaining ring adjacent to the inboard bearing, and remove grease seal 154-08400.
- 7) Inspect wheel half grease seal bore adjacent to the inboard bearing for wear ruts per CM40-424 REPAIR section (area 5). Wear ruts of .050 inch maximum depth are permissible.
- 8) Install P/N 154-08401 Grease Seal adjacent to the inboard bearing. Observe "THIS SIDE OUT" instructions on seal. Install retaining ring into appropriate groove in wheel half.
- 9) Repeat steps 6 through 8 for the outboard bearing seal.
- 10) Return wheel assembly to service.
- 11) Make an appropriate Log Book entry for each maintenance activity performed.