

# Cleveland

Wheels & Brakes

## Parker Hannifin Corporation

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# SERVICE BULLETIN

## UPGRADE OF 40-84 WHEEL ASSEMBLY TO 40-84B CONFIGURATION

- EFFECTIVITY:** Parker P/N 40-84 Wheel Assemblies.
- APPLICABILITY:** All aircraft equipped with the P/N 40-84 wheel assemblies that are to be upgraded to the 40-84B configuration for use with Ø1.500 in. axles and Ø1.875 grease seal configuration on inboard wheel half.
- REASON:** Product Upgrade - To allow reconfiguration of the P/N 40-84 Wheel Assembly currently using a 1.625 inch inside diameter grease felt seals on the inboard wheel halves to P/N 40-84B Wheel Assembly which will use a 1.875 inch inside diameter grease felt seal on the inboard wheel half. This change **must** incorporate the use of an axle or axle adapters that will accommodate the increased grease seal diameter. This change will provide for increased bearing-to-collar surface contact area.
- DESCRIPTION:** This document provides the necessary instructions and P/N requirements to upgrade the 40-84 Wheel Assembly to the 40-84B configuration. Replacement parts may be procured individually under the Parker part numbers or as the Service Bulletin Kit P/N SB7059-1 from Parker Hannifin distributors or from the airframe manufacturer.
- COMPLIANCE:** **Optional**
- APPROVAL:** The design contents of this Service Bulletin are FAA DER approved.
- WEIGHT & BALANCE:** None
- PUBLICATIONS:** P/N 40-84B illustrated parts list information will be incorporated into the Cleveland Wheels & Brakes Product Catalog at next revision.
- MATERIALS:** SB7059-1 Service Bulletin Kit Parts List:
- Note:** Each Kit will contain the parts required to convert one (1) 40-84 Wheel Assembly to the 40-84B configuration.

<u>PARKER P/N</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
154-01600	Felt, Grease Seal	1
153-01600	Ring, Grease Seal	2
155-00100	Ring, Retaining	1
166-19700	Nameplate (for 40-84B Wheel Assembly)	1
166-20000	Nameplate, "Warning"	1
SB7059	Service Bulletin (This Document)	1



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- INSTRUCTIONS:
1. Jack aircraft, deflate tire and remove the 40-84 Wheel Assembly from the aircraft per instructions in the aircraft Service Manual.
  2. Next, remove and discard the following components from each 40-84 Wheel Assembly.

**Note:** It is not necessary to remove the tire or split the Wheel to comply with this bulletin.

<u>PARKER P/N</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
155-00100	Ring, Retaining (Inner Wheel Half)	1
153-00400	Ring, Grease Seal (Inner Wheel Half)	2
154-00300	Felt, Grease Seal (Inner Wheel Half)	1
166-02100	Nameplate (located on Outboard Wheel Half)	1

3. If desired, remove existing bearing cones and clean with P-D-680 Stoddard Solvent, dry with compressed filtered air then regrease bearings with MIL-G-81322 grease. Reinstall bearing cones in hub of wheel halves.

**Note:** Prior to installing new grease seal felts and rings, lightly saturate the grease seal felts, P/N 154-01600 with SAE 10 oil.

4. Install grease seal rings P/N 153-01600 and grease seal felts P/N 154-01600 supplied in SB7059-1 Kit on inboard wheel hubs and secure with retaining ring P/N 155-00100.
5. Install new nameplate P/N 166-19700 on outboard wheel half. **Note:** The manufacturing date code for all replacement nameplates will be coded with the current date that the nameplate is printed. Example: A nameplate that is printed in November of 1999 will be identified as Mfg. 11R99 (An "R" between the month and year indicates that this is a replacement nameplate).
6. Install P/N 166-20000 "Warning" nameplate adjacent to the inflation valve.
7. Reinflate tire to the required operating pressure.
8. Reinstall the Wheel Assembly using approved axle or spacers of proper length, diameter and material required for fit to the new Ø1.875 inch inside diameter grease seal.
9. Make a log book entry referencing this activity, and return aircraft to service (as applicable).