

Cleveland

Wheels & Brakes

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SERVICE BULLETIN

UPGRADE OF 40-86B WHEEL ASSEMBLY TO 40-86F CONFIGURATION

- EFFECTIVITY:** Parker P/N 40-86B Wheel Assemblies.
- APPLICABILITY:** All aircraft equipped with the P/N 40-86B wheel assemblies that are to be upgraded to the 40-86F configuration for use with Ø1.500 in. axles and Ø1.750 grease seal configuration.
- REASON:** Product Upgrade - To allow reconfiguration of the P/N 40-86B Wheel Assembly currently using 1.625 in. I.D. Grease Seal Felts on the Inboard and Outboard Wheel Halves to P/N 40-86F Wheel Assembly which will use 1.75 in. I.D. Grease Seals on the Inboard and Outboard Wheel Halves. 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 40-86B Wheel Assembly to the 40-86F configuration. Service Bulletin Kit P/N SB7058-1 can be procured 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 40-86F illustrated parts list information will be incorporated into the Cleveland Wheels & Brakes Product Catalog at next revision.
- MATERIALS:** SB7058-1 Service Bulletin Kit Parts List:
- Note: Each Kit will contain the parts required to convert one (1) 40-86B Wheel Assembly to the 40-86F configuration.

<u>PARKER P/N</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
154-03000	Grease Seal	2
155-00100	Ring, Retaining	2
166-19700	Nameplate (for 40-86F Wheel Assembly)	1
166-20000	Nameplate, "Warning"	1
SB7058	Service Bulletin (This Document)	1

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- INSTRUCTIONS:
1. Jack aircraft, deflate tire and remove the 40-86B Wheel Assembly from the aircraft per instructions in the aircraft Service Manual.
 2. Next, remove and discard the following components from each 40-86B 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 & Outer Wheel Half)	2
153-00400	Ring, Grease Seal (Inner & Outer Wheel Half)	4
154-00300	Felt, Grease Seal (Inner & Outer Wheel Half)	2
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.
4. Install grease seals P/N 154-03000 supplied in SB7058-1 Kit on inboard and outboard wheel hubs and secure with retaining rings 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 April of 1997 will be identified as Mfg. 04R97 (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 Ø1.750 in. grease seals.
9. Make a log book entry referencing this activity, and return aircraft to service (as applicable).