

Cleveland

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SERVICE BULLETIN

CONVERSION OF P/N 40-75P WHEEL ASSEMBLY TO P/N 40-406 CONFIGURATION

- EFFECTIVITY:** Parker P/N 40-75P wheel assemblies.
- APPLICABILITY:** All Cirrus, Model SR22 aircraft equipped with the P/N 40-75P wheel assemblies that are to be upgraded to use P/N 30-233B brake and P/N 40-406 wheel assemblies.
- Current spares inventory of P/N 40-75P wheel assembly for Cirrus Model SR22.
- REASON:** Product conversion to permit brake upgrade - To allow reconfiguration of the P/N 40-75P wheel assembly to P/N 40-406 which uses the same Inboard and Outboard wheel halves and a thicker brake disc that is compatible with P/N 30-233B brake assembly.
- DESCRIPTION:** This document provides the necessary instructions and identifies required hardware to upgrade P/N 40-75P wheel assembly to P/N 40-406 configuration.
- COMPLIANCE:** **Mandatory-** If P/N 30-233B brake assembly is used on SR22 aircraft the main wheel assembly **MUST** be reconfigured to P/N 40-406.
- APPROVAL:** The design contents of this Service Bulletin are FAA DER approved.
- WEIGHT & BALANCE:** Accomplishing this Service Bulletin results in a 0.60 pound weight increase per wheel.
- PUBLICATIONS:** P/N 40-406 IPL is published in the Cleveland Wheels & Brakes Product Catalog and service information is published Parker AWBCMM0001-6 Component Maintenance Manual.
- MATERIALS:** SB7085-1 Service Bulletin Kit Parts List:
- Each Service Bulletin Kit will contain the parts required to convert **ONE (1)** P/N 40-75P wheel assembly to P/N 40-406 configuration.

Table 1 Conversion Hardware

<u>PARKER P/N</u>	<u>DESCRIPTION</u>	<u>QUANTITY PER KIT</u>
164-02504	Brake Disc	1
154-00300	Felt, Grease Seal	1
153-00400	Ring, Grease Seal	2
154-01300	Felt, Grease Seal	1
153-01500	Ring, Grease Seal	1
153-00300	Ring, Grease Seal	1
095-10700	Washer (AN960-516L)	3
094-10400	Nut (MS21044-N5)	3
166-19700	Nameplate (Replacement, 40-406 Ass'y)	1
166-20000	Nameplate "Warning"	1
SB7085	Service Bulletin (This Document)	1



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INSTRUCTIONS:

WARNING: DEFLATE TIRE BEFORE LOOSENING WHEEL TIEBOLTS

P/N 40-75P main wheel assembly **MUST** be converted to P/N 40-406 configuration to operate with heavy duty brake assemblies P/N 30-233B.

- 1) For new wheels that have not been in service, proceed to step 3.
- 2) Jack aircraft, **DEFLATE** tire and remove valve core, remove wheel IAW Cirrus Design Aircraft maintenance procedures, disassemble wheel, and thoroughly inspect the wheel halves and components (except as noted in Table 2) for airworthiness IAW Parker AWBCMM0001-6 Component Maintenance Manual.
- 3) **DEFLATE** tire and remove valve core, remove and discard the hardware and nameplates as shown in Figure and 1listed in Table 2 below.

The following components must be removed from the existing P/N 40-75P wheel assembly and discarded. CAUTION: Do not use sharp tool to remove nameplate.

Table 2- Removal Items

<u>P/N</u>	<u>DESCRIPTION</u>	<u>QUANTITY PER WHEEL</u>
153-00400	Ring, Grease Seal	2
154-00300	Felt, Grease Seal	1
095-10500	Washer (AN960-516)	3
094-10400	Nut (MS21044-N5)	3
164-01501	Brake Disc	1
166-19700	Nameplate (located on Outboard Wheel Half)	1

4) Disassemble the wheel and inspect components IAW Cleveland Wheel and Brake Component Maintenance Manual, AWBCMM0001-6.

5) Assemble the wheel-tire assembly with the hardware furnished in SB7085-1 Conversion Kit, (Table 1) IAW Parker AWBCMM0001-6 Component Maintenance Manual and as shown in Figure 2.

5a) Prior to installing new grease seal rings and grease seal felts on inboard and outboard wheel hubs, lightly coat the I.D. and inner face of grease seal felts, P/N 154-00300 and 154-01300 with MIL-G-81322 bearing grease.

5b) Install grease seal rings P/N 153-00400 and grease seal felt P/N 154-00300 in inboard wheel hubs and secure with retaining ring P/N 155-00100. Install grease seal ring P/N 153-00300, grease seal felt P/N 154-01300, and grease seal ring P/N 153-01500 in outboard wheel hubs and secure with retaining ring P/N 155-00100. Ref. Figures 3 and 4. Torque wheel tiebolt system evenly to half the final torque then evenly to 150 in-lbs **DRY**.

6) Apply replacement nameplate, P/N 166-19700, on outboard wheel half opposite inflation valve hole. Ref. Figure 2. (The manufacturing date code for all replacement nameplates will include "R" between the month and year that it is printed to indicate a replacement nameplate. A nameplate printed in February of 2006 will bear Mfg. Date of 02R06).

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7) Apply P/N 166-20000 Warning Nameplate adjacent to the inflation valve hole, Ref. Figure 2. Do not apply over existing nameplate. (Two warning nameplates are permissible.)

8) Replace valve core, tube, and tire. Inflate the wheel-tire assembly IAW aircraft maintenance manuals and make appropriate maintenance log book entry that P/N 40-75P wheel assemblies were converted to P/N 40-406 configuration per SB7085.

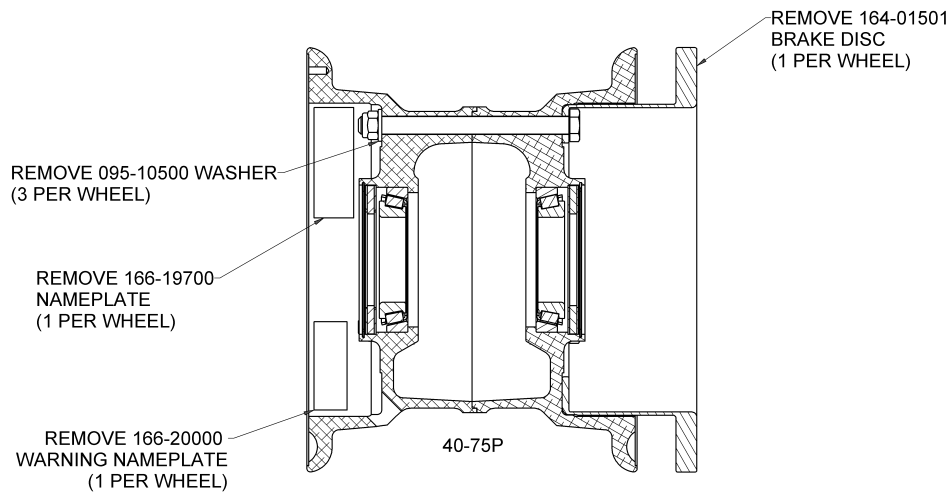


Figure 1

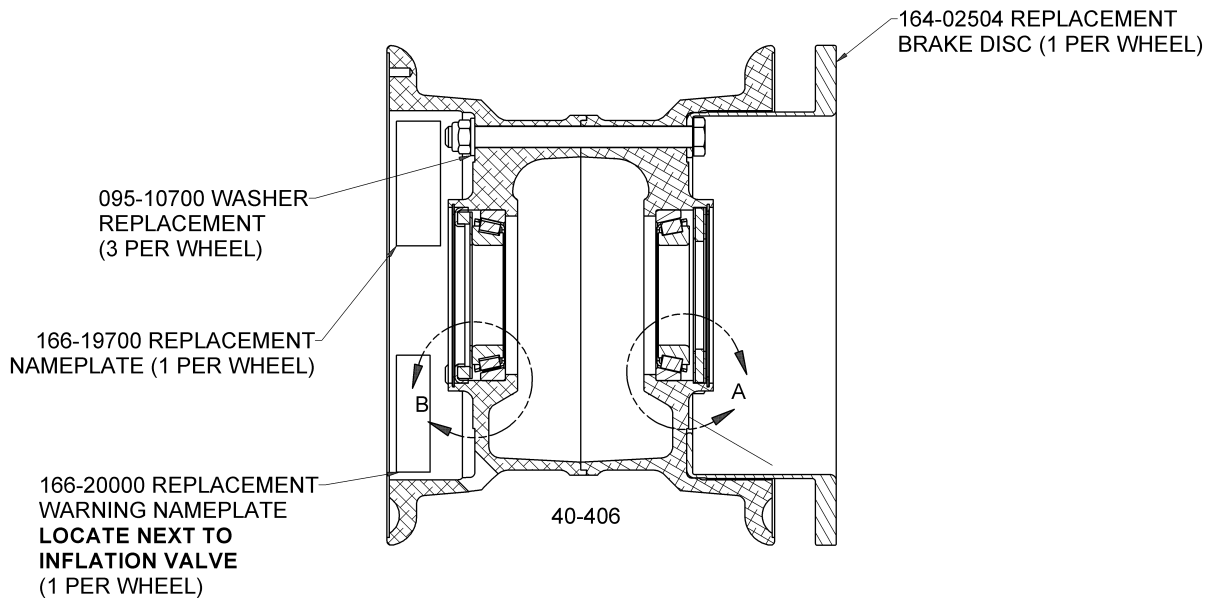


Figure 2

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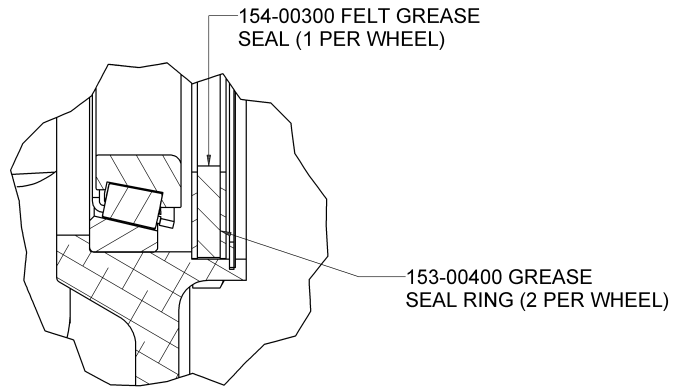


Figure 3 (View A)
Inner grease seal configuration

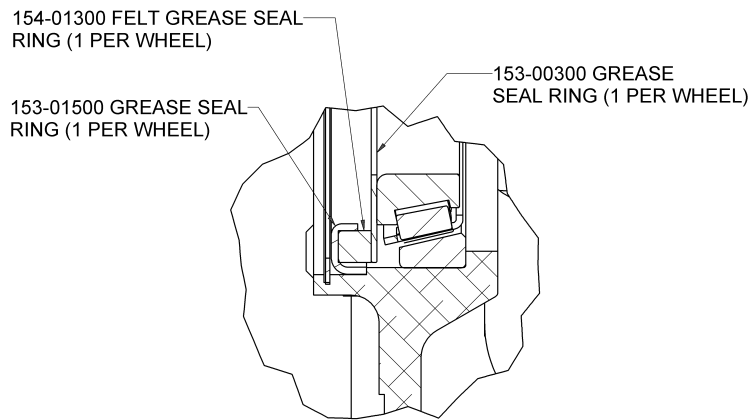


Figure 4 (View B)
Outer grease seal configuration

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