

AIRCRAFT WHEEL & BRAKE DIVISION  
PARKER HANNIFIN CORPORATION  
AVON, OHIO

PARTS LIST

199-266 SERVICE KIT

SERVICE TIE BOLT / OVERHAUL KIT

FOR

WHEEL MODEL 40-77A

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
103-10500	Bolt (AN4-22H)	3
094-01200	Nut (MS21042-4)	3
095-10400	Washer (AN960-416)	3
154-13000	Grease Seal, Molded	2
166-19700	* Nameplate (Replacement, 40-77A Assembly)	1
166-20000	Nameplate, Warning	1
<u>Publication Package (P/N PP199-26600)</u>		
199-26600 P/L	Parts List for 199-266 Kit (This Document)	1
PRM73	Product Reference Memo Wheels & Brakes – Preparation for Service	1
PRM78	Product Reference Memo Wheel Bearing Grease Mobil SHC 100	1
PRM94	Product Reference Memo 40-77A, 40-77B and 40-77F Wheel Assemblies, Tie Bolt / Overhaul Set Availability	1
PRM97	Product Reference Memo Molded Bearing Seal Availability for 5-inch Internal Wheel	1

**NOTES:**

This Service Kit will convert one 40-77A Wheel Assembly to use a low profile nut Tie Bolt Set.

- \* The Assembly Department shall fill out the 166-19700 as a replacement nameplate for 40-77A, Per 40-77A Wheel Assembly Drawing requirements as follows:
  - a. Part Number: 40-77A
  - b. Torque Process: TORQUE
  - c. Torque Value: 75 IN-LBS
  - d. Qualification Basis FAA TSO-C26a
  - e. Size: 5.00-5
  - f. Date: MO R YR (Shipping Date: example – January, 2007 is 01 R 07)

199-266  
 REV. NC 06-03-2009 (0384-77)  
 REV. A 05-12-2015 (0051750)

# Cleveland

Wheels & Brakes

Parker Hannifin Corporation

**Aircraft Wheel & Brake**

1160 Center Road

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1-800-BRAKING (272-5464)

440-937-1315 • FAX 440-937-5409

# PRODUCT REFERENCE MEMO

## WHEELS & BRAKES - PREPARATION FOR SERVICE – ON-AIRCRAFT CLEANING

The following procedures are intended to extend the service life of wheel and brake equipment.

### **Wheel Assemblies:** Refer to Figure 1

- Inspect bearings to ensure adequate grease and service as required using the preferred bearing grease per Mobil Aviation Grease SHC 100.
- If felt grease seals are used, lightly coat all surfaces of the seals with bearing grease prior to installing.
- If rubber lip seals are used, lubricate the bearing seal bore with bearing grease.

**CAUTION:** AVIATION WHEEL BEARING GREASES SHOULD NOT BE INTERMIXED WITH EACH OTHER. IF USING OTHER APPROVED GREASE, COMPLETE REMOVAL OF CONTAINED GREASE AND BEARING CLEANING IS REQUIRED.

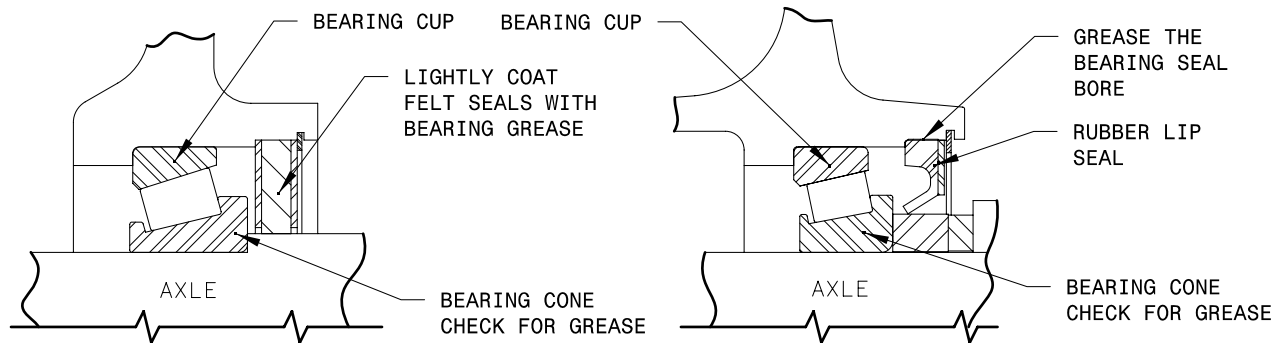


Figure 1

### **Brake Assemblies:**

- Condition linings as applicable per PRM13A, PRM14A or individual maintenance manuals for internal type design.

### **On Aircraft Cleaning Procedure:**

**CAUTION:** DO NOT USE HIGH PRESSURE SPRAY WASH EQUIPMENT. ITS USE CAN INJECT SOAP SOLUTION AND WATER INTO THE BEARINGS AND OTHER INTERNAL CAVITIES RESULTING IN CORROSION AND REDUCED SERVICE LIFE.

- Hand wash wheels & brakes with a mild soap and water solution. Rinse with low-pressure spray.

For additional assistance contact Technical Services:

Websites: [www.clevelandwheelsandbrakes.com](http://www.clevelandwheelsandbrakes.com)

[www.parker.com/ag/wbd](http://www.parker.com/ag/wbd)

E-mail: [techhelp@parker.com](mailto:techhelp@parker.com)

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Initial Release February 27, 2001

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PRM73

Page 1 of 1

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# PRODUCT REFERENCE MEMO

## WHEEL ASSEMBLIES – PREFERRED BEARING GREASE (MOBIL AVIATION GREASE SHC 100)

- EFFECTIVITY:** All Parker Hannifin (Cleveland Wheels & Brakes) wheel assemblies.
- APPLICABILITY:** Any aircraft equipped with Parker Hannifin wheel assemblies.
- REASON:** ExxonMobil “Mobil Aviation Grease SHC 100” is the preferred bearing grease for use in all Parker Hannifin (Cleveland Wheels & Brakes) wheel assemblies.
- DESCRIPTION:** Mobil Aviation Grease SHC 100 is a high performance grease which combines a synthesized hydrocarbon base fluid with a lithium soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash and a tenacious structural stability. The unique properties provide outstanding protection against wear, rust, corrosion and high temperature degradation. The grease is recommended for aviation applications which need a lubricant that can perform normal functions yet go far beyond in terms of high and low temperature and long-life performance. The grease has an operating temperature range of -65°F (-54°C) to + 350°F (+177°C). There is no Military specification for this product.
- CAUTION:** Aviation bearing greases should not be intermixed with each other. Precautions should be taken to ensure that this grease is not intermixed with other wheel bearing greases and is being used in accordance with the manufacturer’s guidelines. For technical Data and MSDS sheets on Mobil Aviation Grease SHC 100, visit the manufactures Web Site at: [www.mobil.com](http://www.mobil.com)
- COMPLIANCE:** Recommended
- APPROVAL:** The engineering contents of this Product Reference Memo are FAA DER approved.
- WEIGHT & BALANCE:** Not applicable
- PUBLICATIONS:** The information contained in this Product Reference Memo (PRM78) is to be incorporated into the Product Catalog and Maintenance Manual at the next revision of each.
- INSTRUCTIONS:** At next tire change or overhaul remove and discard the grease felts. Thoroughly clean wheel assembly and completely remove the contained grease from the bearings, bearing bore and hub per Component Maintenance Manual. Refer to AWBCMM0001, latest issue, for grease packing instructions. Pack bearings with Mobile SHC-100. Install new felt grease seals lubricated with Mobile SHC-100.

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# PRODUCT REFERENCE MEMO

## **40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY**

### **1. PLANNING INFORMATION**

#### **A. APPLICABILITY**

All Parker Hannifin (Cleveland Wheels & Brakes) P/N 40-77A, 40-77B, & 40-77F Wheel Assemblies used on:

- Aermacchi Model SF-260 Aircraft
- Aerospacial /Socata Model TB9 Tampico, TB10 Tobaga, TB200, 100, 110 125, 150, & 180
- Avions Pierre Robin Model HR400 Series, DR400 Series, & R3000 Series Aircraft
- Cessna Model 150C Aircraft
- Commander Model BO 209 Aircraft
- Embraer Model EMB213 Aircraft
- FFA Flugzeugwerke Model AS202-18A4 Aircraft
- Grob Model G115 Series Owner / Operators
- Grumman American Model 112 Series, AA-5 Series, and TR2 Aircraft
- Hunting Firecracker Model NDN 1T Aircraft
- Piper Aircraft Model PA-46-500, PA46-31P, PA44-180, PA34-220T, PA32-301, -301T, & PA28 Aircraft
- Slingsby Model T67C, M, T3A, & 200 Firefly Aircraft
- Sportavia Sportsman Model T67C, M, T3A, & 200 Firefly Aircraft
- Varga Aircraft Model 2150A/218 Kachina Aircraft
- Wing Aircraft Model D-1 Derringer Aircraft



# PRODUCT REFERENCE MEMO

## 40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY

### B. REASON

**CAUTION:** OWNER/OPERATORS ARE ADVISED THAT THE ENTIRE FASTENER SYSTEM SHOULD BE CHANGED TO MAINTAIN PROPER TORQUE-TENSION RELATIONSHIP. IT IS RECOMMENDED TO CHANGE THE FASTENER SYSTEM AS A COMPLETE SET AT EACH TIRE CHANGE OR OVERHAUL.

To bring these wheels into compliance with Cleveland's current fastener design standard and inform Owner/Operators of the resulting new washer thickness and low profile nut for the subject wheel assemblies.

The original tie bolt system guidance from the 1972 standard, AC43.13.1A, Chapter 5, Section 1, Para 230 (a) (2), permits just the chamfer or round end of the bolt to be seen at the top of the nut. No failure has occurred as a result of this original tie bolt system.

Cleveland's current fastener design standard, AC43.13-1B, Chapter 7, Section 4, Para. 7-64 (f) recommends a minimum of one thread exposure above the nut.

Thus we are updating these assemblies with low profile all metal lock nuts that meet the minimum of one thread exposure above the nut under all conditions. The low profile nut provides distinct visual indication of proper thread engagement. Use of the existing nut is still an accepted configuration; however, a different torque value is required. Refer to Figures 1 and 2 for configuration examples.

### C. DESCRIPTION

This PRM provides the inspection guidance and replacement instructions of tie bolt set in the subject wheel assemblies. The following procedures are provided to assure proper installation of low profile tie bolt nuts when accomplishing an overhaul.

The Cleveland Wheels & Brakes Component Maintenance Manual Number AWBCMM0001, latest issue, is available and should be used for general maintenance guidelines for External Design Wheels and brakes.

### D. COMPLIANCE

Optional, at owner's discretion. The existing tie bolt nut remains an acceptable configuration for the subject wheel assemblies.

### E. APPROVAL

The engineering contents of this Product Reference Memo are FAA DER approved.

### F. WEIGHT AND BALANCE

Not affected.



# PRODUCT REFERENCE MEMO

## 40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY

### G. OTHER PUBLICATIONS AFFECTED

This PRM will be incorporated into Parker Hannifin publication AWBCMM001, Product Reference Memo section at the next scheduled revision.

## 2. ACCOMPLISHMENT INSTRUCTIONS

### A. INSPECTION


Refer to Hardware Reference Identification Photos

- (1) At next tire change or overhaul replace the tie bolt set and incorporate the low profile nut per this Product Reference Memo.
- (2) At next available maintenance interval, and at Owner's discretion, inspect tie bolt system for evidence of one complete thread exposed from the nut. If one complete bolt thread is exposed above the nut, aircraft may be returned to service at Owner's discretion.

### B. REPLACEMENT INSTRUCTIONS

**SAFETY WARNING:**  WHEN INFLATING DEFLATING TIRES OR CONDUCTING INFLATION CHECKS FOLLOWING A DISASSEMBLY, ALWAYS USE A BLASTPROOF EXPLOSION CAGE TO PROTECT FROM PERSONAL INJURY.

- (1) Deflate the tire and remove the wheel assemblies from the aircraft in accordance with the aircraft manufacturer's instructions.

**SAFETY WARNING:**  FULLY DEFLATE THE TIRE BEFORE REMOVING THE VALVE CORE. THE AIR IN A TIRE PUTS PRESSURE ON THE VALVE CORE. THE VALVE CORE CAN EJECT WITH GREAT FORCE AND CAN CAUSE INJURY OR DEATH.

- (2) Remove the valve core from the tire.
- (3) Prior to disassembly, note the orientation of washers, bolts and nuts relative to the disc so the same orientation is used during reassembly.
- (4) Disassemble and service wheel in accordance with instructions in Component Maintenance Manual, AWBCMM0001, latest issue, and proceed as follows: Remove and discard the tie bolts, nuts, and washers. Thoroughly clean wheel assembly per Component Maintenance Manual. Deepwell 7/16 and 5/16, 6-point sockets are recommended.
- (5) Thoroughly clean wheel assembly per Component Maintenance Manual. Completely remove the contained grease and clean the bearings and bore. Refer to AWBCMM0001, latest issue, for grease packing instructions and pack bearings with Mobile SHC-100. Install new felt grease seals lubricated with Mobile SHC-100.





# PRODUCT REFERENCE MEMO

## 40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY

- (6) Align tube on wheel half and join inner and outer wheel halves assuring that the tube is free from the joint line between wheel halves.

**SAFETY WARNING:**  **NEVER INFLATE THE MOUNTED TUBE WITHOUT ALL TIE BOLTS INSTALLED AND PROPERLY TORQUED.**

- (7) Install new tie bolts, washers, and nuts as a set. The bolt head must be located against the brake disc flange and the washers are installed under the nuts.

**WARNING:** FAILURE TO PROPERLY TORQUE THE WHEEL ASSEMBLY BOLTS MAY RESULT IN PREMATURE FAILURE OF THE MATING COMPONENTS OR HARDWARE.

**CAUTION:** THE USE OF POWER TOOLS TO INSTALL NUTS AND BOLTS IS NOT A RECOMMENDED PRACTICE. IT MAY CAUSE OVER TORQUING OF THE FASTENER SYSTEM AND RESULT IN DAMAGE TO THE FASTENER OR MATING COMPONENTS.

**NOTE:** Fastener torque information is also available in the Cleveland Wheels & Brakes Component Maintenance Manual, AWBCMM0001, latest issue, or Technician's Service Guide, AWBTSG0001, latest issue. If there is any conflict or question regarding dry torque value on your assembly, contact Cleveland Customer Support for assistance.

- (8) Reassemble wheel per maintenance manual instructions installing one (1) washer under each nut and DRY torque nuts in two steps; first to 35 in-lbs then to 75 in-lbs. ALWAYS restrain the bolt head and torque the nuts using a crisscross pattern until all nuts are properly torqued. Lubricant is **NOT** to be used.
- (9) Place Warning label adjacent to valve hole.
- (10) Place identification label opposite valve hole.
- (11) Reinstall wheel on aircraft per applicable aircraft manual.

### C. RETURN TO SERVICE

- (1) When returning the wheel assembly to service, apply a liberal amount of Mobile Aircraft grease SHC-100 to the bearings per PRM 78, the mating cavity areas, and lightly coat all surfaces of the grease felts. Install rubber lip grease seals per PRM 85, if equipped.
- (2) After installation of the wheel assembly on the aircraft, torque the axle nut to manufacturer's recommendation and secure with cotter pin as specified in the Airframe Owner's Handbook, install hubcap and secure with snap ring as applicable.
- (3) Make a logbook entry referencing the change of hardware Record the flight hours from the Hobbs meter, the length of time wheels have been in service, number of tire changes, the torque applied to the tie bolt nuts, inflation pressure, and date that the aircraft is returned to service.

# PRODUCT REFERENCE MEMO

## 40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY

### HARDWARE REFERENCE IDENTIFICATION PHOTOS

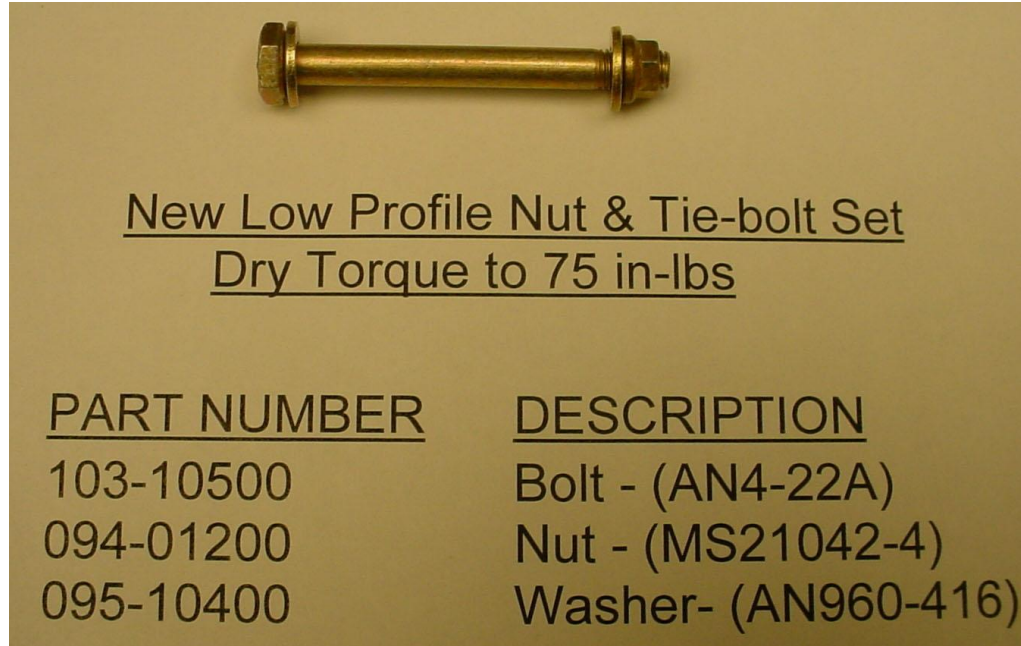


Figure 1 New Configuration

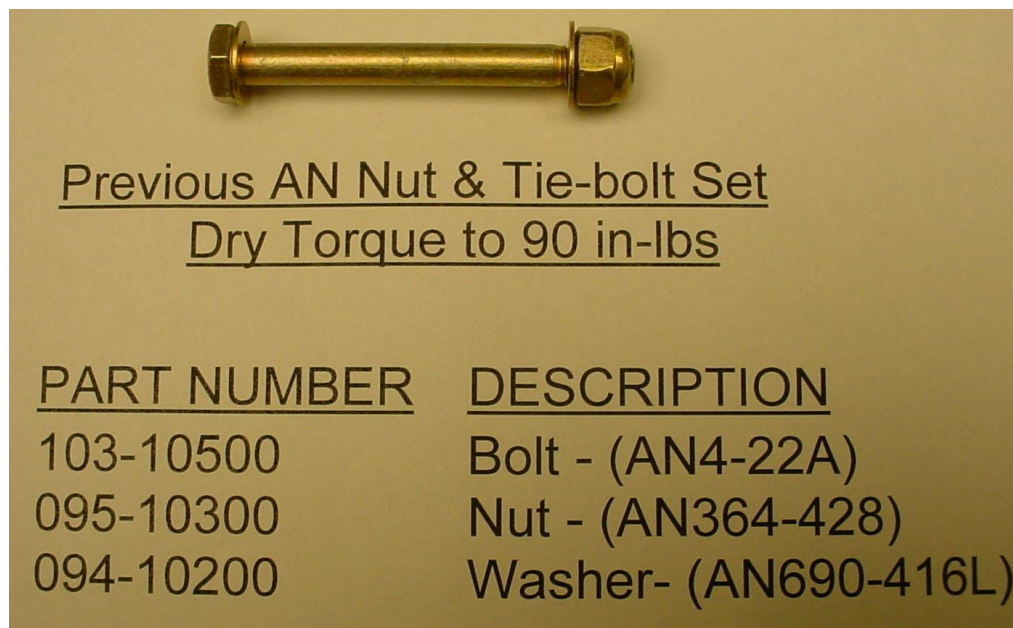


Figure 2 Previous Configuration





# PRODUCT REFERENCE MEMO

## 40-77A, 40-77B, AND 40-77F WHEEL ASSEMBLIES, TIE BOLT / OVERHAUL SET AVAILABILITY

### 3. MATERIAL INFORMATION

#### A. LIST OF COMPONENTS

Service kit 199-266 will upgrade and includes components to overhaul one (1) wheel assembly for 40-77A.

Service kit 199-268 will upgrade and includes components to overhaul one (1) wheel assembly for 40-77B.

Service kit 199-269 will upgrade and includes components to overhaul one (1) wheel assembly for 40-77F.

Standard parts not listed and optional parts should be ordered separately.

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
103-10500	Bolt-(AN4-22A)	3
094-01200	Nut-(MS21042-4)	3
095-10400	Washer-(AN960-4)	3
154-00800	Felt grease Seal	2
166-19700	Nameplate	1
166-20000	Nameplate	1
PRM 73	Product Reference Memo	1
PRM 78	Product Reference Memo	1
PRM 94	Product Reference Memo	1

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# PRODUCT REFERENCE MEMO

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## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

### 1. PLANNING INFORMATION

#### A. APPLICABILITY

The following wheel assemblies are applicable to either one or both of the molded seal configurations.

40-12	40-77	40-77B	40-77F	40-78	40-78B	40-78J	40-151A
40-12A	40-77A	40-77C	40-77G	40-78A	40-78E	40-151	40-230

#### B. EFFECTIVITY

Available as a spares replacement. Production use will initiate **October**, 2013.

#### C. REASON

A product improvement in the bearing grease retention system as a replacement to the current felt seal configuration.

## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

### D. DESCRIPTION

This PRM provides the replacement instructions of the felt seal components in the subject wheel assemblies. The following procedures are provided to assure proper installation of the alternate molded seal.

One new molded bearing seal configuration is available that will significantly improve the prevention of water infiltration into the bearing hub area providing more protection against possible bearing corrosion.

- (1) 154-13000 Molded Seal

Refer to Figure 1. The new 154-13000 molded seal configuration and the corresponding current felt seal configuration are listed below.

Molded Seal Configuration P/N	Qty	Felt Seal Configuration P/N	Qty
154-13000 Bearing Seal	1	153-00800 Ring, Grease Seal	2
		154-00600 Felt, Grease Seal	1

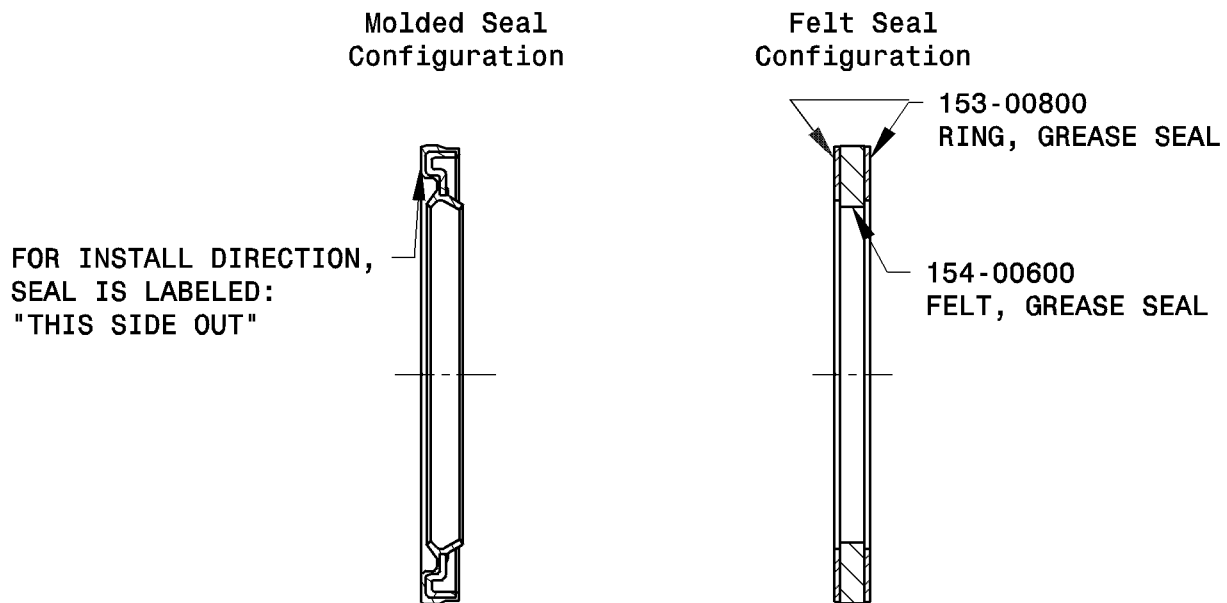


Figure 1 154-13000 Molded Seal to Felt Seal Comparison

## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

### E. COMPLIANCE

Recommended. At next annual inspection, scheduled overhaul or at owner's discretion.

### F. APPROVAL

The engineering contents of this Product Reference Memo are FAA DER approved.

### G. WEIGHT AND BALANCE

Not affected.

### H. OTHER PUBLICATIONS AFFECTED

AWBPC0001 .....Product Catalog

All individual wheel assembly component maintenance manuals and kit installation manuals that are affected by this PRM will be updated at the next scheduled revision.

## 2. ACCOMPLISHMENT INSTRUCTIONS

### A. IDENTIFICATION

Refer to the wheel assembly list in paragraph **1.A. APPLICABILITY**. A wheel assembly will use either one or both of the molded seals as an alternate to the existing felt seal configuration.

In addition to or in absence of individual wheel assembly maintenance manuals, refer to the following publications, published by Parker Hannifin – Aircraft Wheel and Brake, for disassembly and assembly procedures; service limits, general maintenance guidelines, and applicable related data. Always obtain the latest issue in effect.

AWBCMM0001 .....Component Maintenance Manual, External Design Wheels & Brakes  
AWTSG0001 .....Technician's Service Guide (formerly PRM64)

Contact technical support for additional assistance.

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Fax: (440) 937-5409  
Tel: 1-800-BRAKING (1-800-272-5464)

### B. REPLACEMENT INSTRUCTIONS

Refer to the following paragraphs and figures for installation instructions and wheel assembly applicability.

**SAFETY WARNING:**  **DEFLATE THE TIRE. WORKING ON OR NEAR A FULLY INFLATED TIRE CAN BE DANGEROUS.**



# PRODUCT REFERENCE MEMO

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## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

(1) 40-12, 40-12A

Note: All listed wheel assemblies are main wheels. Seal replacement is for the inboard wheel half only.

Refer to Figure 2 and replace the inboard felt seal configuration as follows.

- (a) Deflate the tire.
- (b) Loosen the brake back plate assembly tie bolts which fasten the back plate to the brake housing. Remove the back plate and the insulator shim, if so equipped.
- (c) 40-12 only: Remove the dust shield attachment hardware (washer and screw) and the dust shield.
- (d) Remove the outboard wheel half snap ring and hubcap.
- (e) Remove and retain the axle mounting hardware and slide the wheel/tire assembly off of the axle.
- (f) Remove the inboard wheel half snap ring.
- (g) Remove the felt seal components: 2X 153-00800 grease seal ring and 1X 154-00600 grease seal felt from the inboard wheel half.
- (h) Install the 154-13000 molded seal in the inboard wheel half. Make sure the molded seal is installed correctly by observing "THIS SIDE OUT" in molded characters on the seal.
- (i) Install the inboard wheel half snap ring.
- (j) Slide the wheel assembly onto the axle and install the axle mounting hardware accordance with the Airframe Owner's Handbook manual or wheel assembly component maintenance manual if so equipped. Make sure the inboard bearing is seated.
- (k) Install the outboard wheel half hubcap and snap ring.
- (l) Install the brake insulator shim and fasten the back plate to the brake housing by installing the tie bolts. Tighten the tie bolts to specifications in accordance with the brake assembly component maintenance manual or, if one does not exist, AWBCMM0001, Component Maintenance Manual, External Design Wheels & Brakes.
- (m) 40-12 only: Install the dust shield with the attachment hardware (washer and screw). Tighten the screw to 30 to 40 in-lb.
- (n) Inflate the tire to the service inflation pressure.

## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

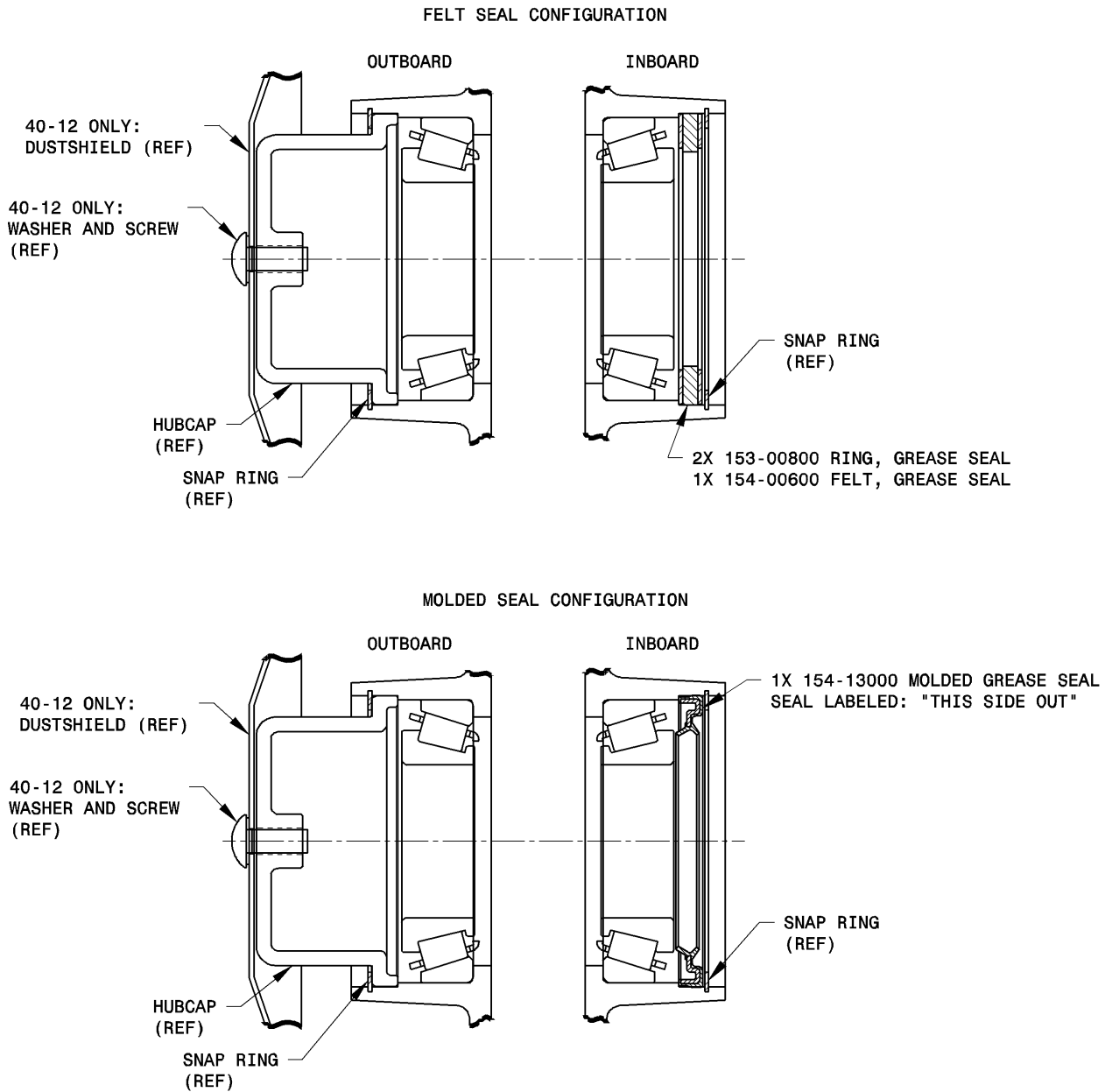


Figure 2 Felt Seal Configuration Replacement  
40-12, 40-12A



# PRODUCT REFERENCE MEMO

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## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

(2) 40-78, 40-78A, 40-78B, 40-78E, 40-78J, 40-151, 40-151A, 40-230

Note: All listed wheel assemblies are main wheels.

Refer to Figure 3 and replace the inboard and outboard felt seal configurations as follows.

- (a) Deflate the tire.
- (b) Loosen the brake back plate assembly tie bolts which fasten the back plate to the brake housing. Remove the back plate and the insulator shim, if so equipped.
- (c) Remove any optional equipment to expose the axle mounting hardware such as a dust shield.
- (d) Remove and retain the axle mounting hardware and slide the wheel/tire assembly off of the axle.
- (e) Remove the snap rings from both wheel halves.
- (f) Remove the felt seal components: 2X 153-00800 grease seal ring and 1X 154-00600 grease seal felt from each wheel half.
- (g) For each wheel half, install the 154-13000 molded seal. Make sure the molded seal is installed correctly by observing "THIS SIDE OUT" in molded characters on the seal.
- (h) Install the snap rings for each wheel half.
- (i) Slide the wheel assembly onto the axle and install the axle mounting hardware accordance with the Airframe Owner's Handbook manual or wheel assembly component maintenance manual if so equipped. Make sure the inboard bearing is seated.
- (j) Install the brake insulator shim, if so equipped, and fasten the back plate to the brake housing by installing the tie bolts. Tighten the tie bolts to specifications in accordance with the brake assembly component maintenance manual or, if one does not exist, AWBCMM0001, Component Maintenance Manual, External Design Wheels & Brakes.
- (k) Install any optional equipment such as a dust shield.
- (l) Inflate the tire to the service inflation pressure.

## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

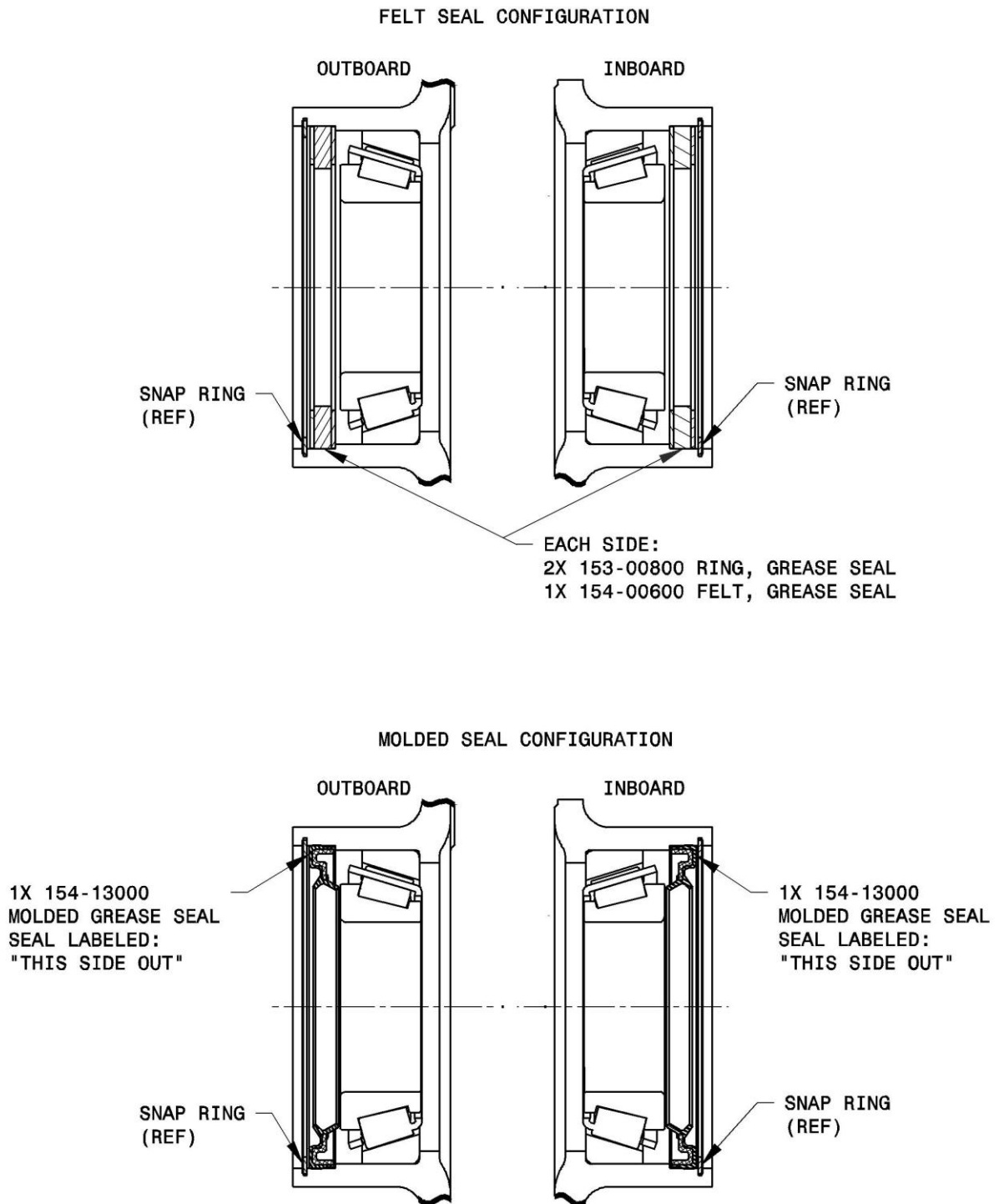


Figure 3 Felt Seal Configuration Replacement  
40-78, 40-78A, 40-78B, 40-78E, 40-78J, 40-151, 40-151A, 40-230





# PRODUCT REFERENCE MEMO

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## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

(3) 40-77, 40-77A, 40-77B, 40-77C, 40-77F, 40-77G

Note: All listed wheel assemblies are nose wheels.

Refer to Figure 4 and replace the inboard and outboard felt seal configurations as follows.

- (a) Deflate the tire.
- (b) Remove any optional equipment to expose the axle mounting hardware such as a dust shield.
- (c) Remove and retain the axle mounting hardware and slide the wheel/tire assembly off of the axle.
- (d) Remove the snap rings from both wheel halves.
- (e) Remove the felt seal components: 2X 153-00800 grease seal ring and 1X 154-00600 grease seal felt from each wheel half.
- (f) For each wheel half, install the 154-13000 molded seal. Make sure the molded seal is installed correctly by observing "THIS SIDE OUT" in molded characters on the seal.
- (g) Install the snap rings for each wheel half.
- (h) Slide the wheel assembly onto the axle and install the axle mounting hardware accordance with the Airframe Owner's Handbook manual or wheel assembly component maintenance manual if so equipped. Make sure the inboard bearing is seated.
- (i) Install any optional equipment such as a dust shield.
- (j) Inflate the tire to the service inflation pressure.

## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

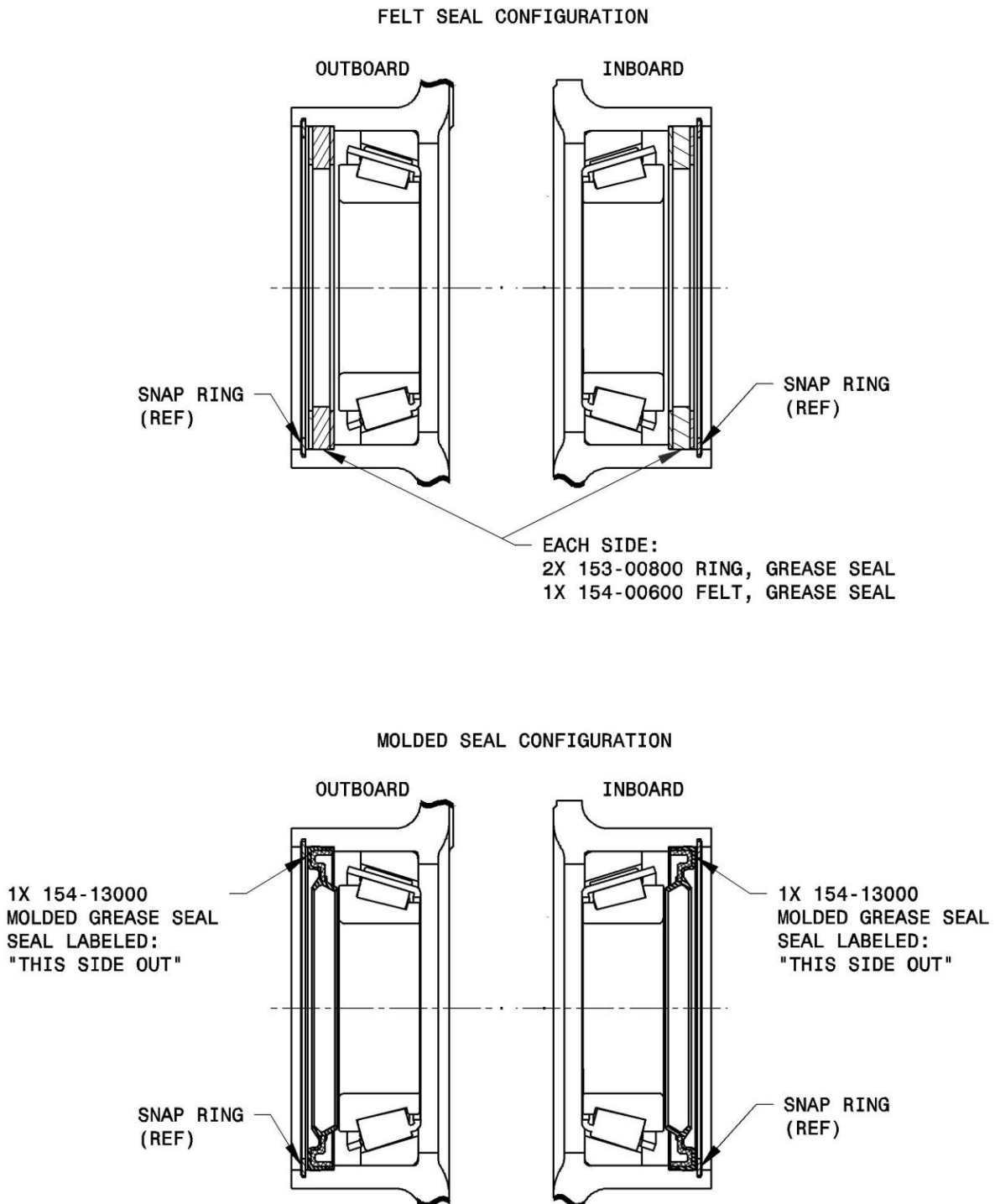


Figure 4 Felt Seal Configuration Replacement:  
40-77, 40-77A, 40-77B, 40-77C, 40-77F, 40-77G



# PRODUCT REFERENCE MEMO

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## MOLDED BEARING SEAL AVAILABILITY FOR 5-INCH EXTERNAL WHEEL

### C. RETURN TO SERVICE

Make a logbook entry referencing the change of hardware.