

# Cleveland

Wheels & Brakes

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# SERVICE BULLETIN

## 40-279 / 40-279A WHEEL ASSEMBLIES – IMPROVED HUBCAP AND GREASE SEAL

**EFFECTIVITY:** Parker P/N 40-279 and P/N 40-279A Wheel Assemblies.

**APPLICABILITY:** All Air Tractor Model 802 Aircraft currently operating with Parker Hannifin Corporation, Aircraft Wheel & Brake Division P/N 40-279 and P/N 40-279A Wheel Assemblies that are equipped with P/N 158-01700 Hub Caps and P/N 154-03900 Grease Seals.

**REASON:** Product Improvement - Parker has completed the design and testing of a new hubcap, P/N 158-02600 that incorporates an integral molded seal that offers improved and redundant sealing characteristics over that of P/N 158-01700. In addition, a new seal P/N 154-10600 is also available for the inboard wheel half that offers improved sealing characteristics from external contamination. (Refer to Figures 1 and 2 of this bulletin).

**DESCRIPTION:** This document provides the necessary instructions and P/N requirements to order and install new P/N 158-02600 Molded Seal Hubcaps, P/N 095-25900 Axle Washers and P/N 154-10600 Grease Seals on those P/N 40-279 or P/N 40-279A Wheel Assemblies that are currently equipped with P/N 158-01700 Hubcap and P/N 154-03900 Grease Seals. All P/N 40-279A Wheel Assemblies with a manufacturing date of 4/04 to 5/05 were equipped with the P/N 158-02600 Hubcap & P/N 095-25900 Axle Washer. Therefore those wheel assemblies would only require the new P/N 154-10600 Grease Seals for the inboard wheel halves which can be ordered through Air Tractor or Cleveland Wheel and Brake distributors if desired.

**COMPLIANCE:** **Optional** but **Recommended**.

**APPROVAL:** The design contents of this Service Bulletin are FAA DER approved.

**WEIGHT &**

**BALANCE:** None.

**PUBLICATIONS:** P/N 40-279 Wheel Assembly and P/N 40-279A Wheel Assembly illustrated parts list information will be incorporated into the Cleveland Wheels & Brakes Product Catalog No. AWBPC0001 at the next revision. The SB7082 Service Bulletin will be incorporated into the Cleveland Wheels and Brakes Product Catalog and Maintenance Manual No. AWBCMM0001 at the next revision.

**MATERIALS:** **SB7082-1, Service Bulletin Kit Parts List:**

Note: Each Kit will contain the parts required to convert one (1) aircraft currently equipped with either two P/N 40-279 or P/N 40-279A Wheel Assemblies (using P/N's 158-01700 & 154-03900) to the improved style hubcap and grease seal P/N's below. Order Kit Number "**SB7082-1**" through Air Tractor or Cleveland Wheel and Brake distributors.

PARKER P/N	SB7082-1 KIT PARTS DESCRIPTION	QUANTITY
158-02600	HUBCAP, MOLDED SEAL	2
095-25900	AXLE WASHER	2
154-10600	GREASE SEAL (Inboard Wheel Half)	2
SB7082	SERVICE BULLETIN (This document)	1

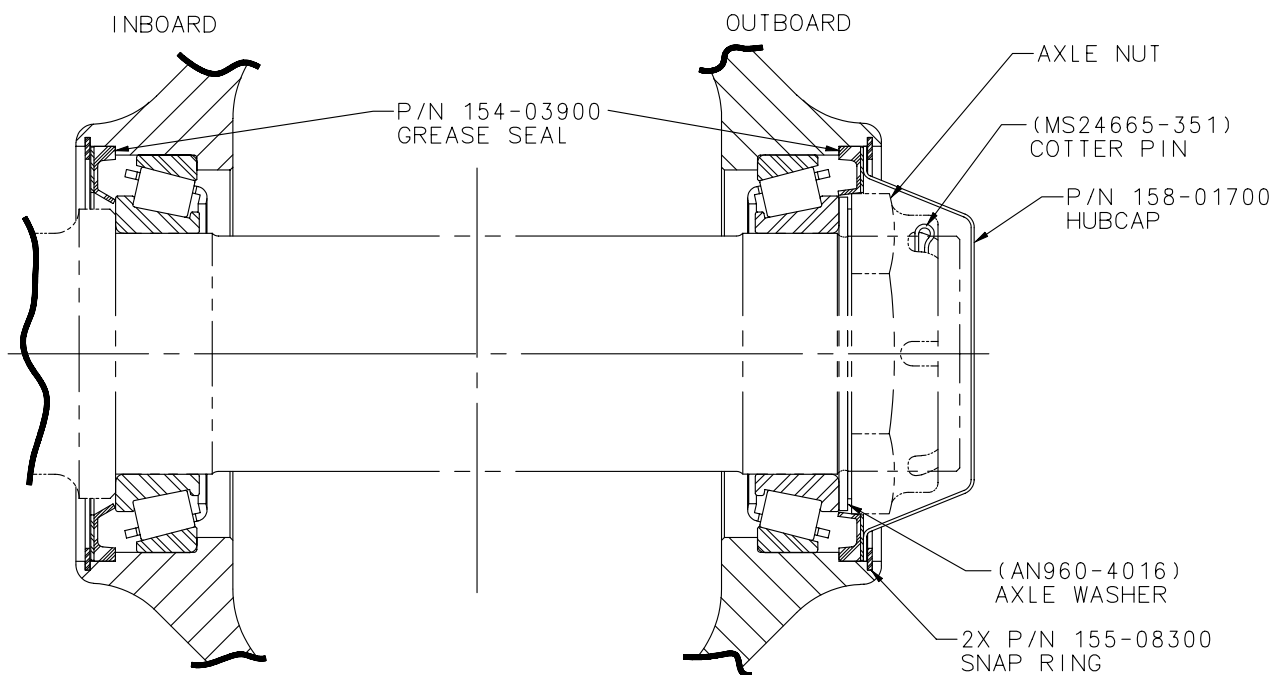


FIGURE 1 - 40-279 AND 40-279A WHEEL ASSEMBLIES  
WITH P/N 158-01700 HUBCAP AND 154-03900 GREASE SEALS

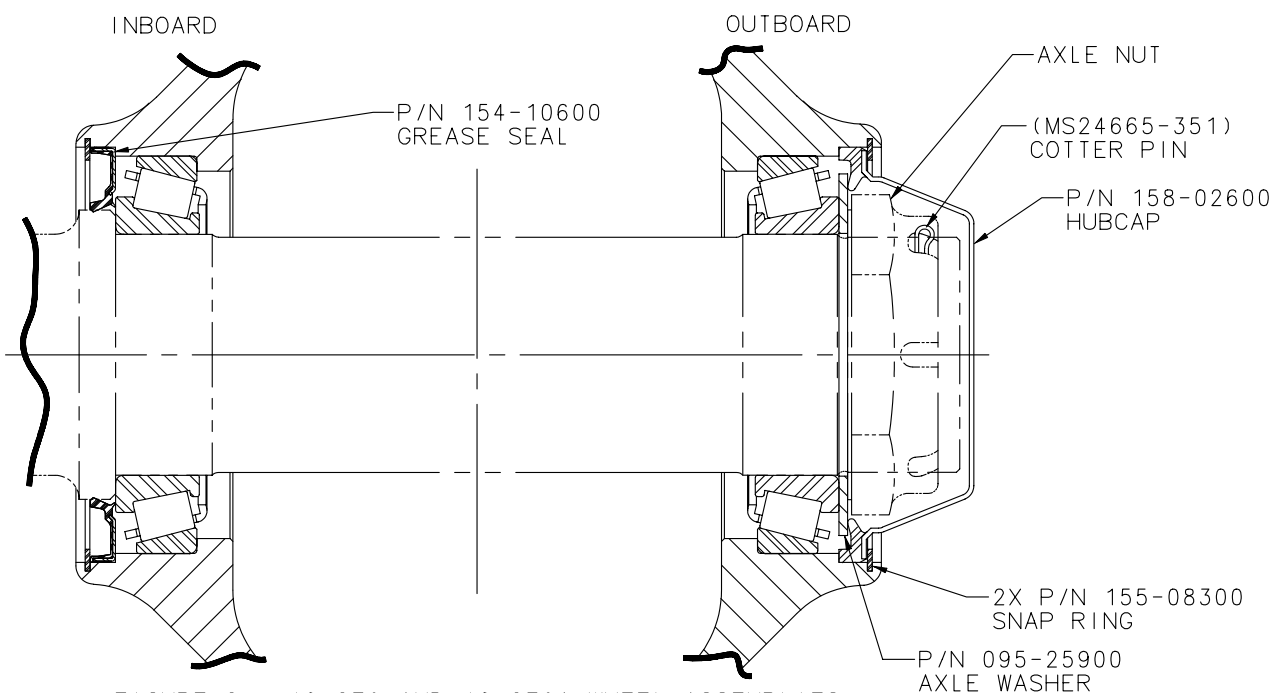


FIGURE 2 - 40-279 AND 40-279A WHEEL ASSEMBLIES  
WITH P/N 158-02600 HUBCAP, 154-10600 GREASE SEAL  
AND 095-25900 AXLE WASHER



# SERVICE BULLETIN

## INSTRUCTIONS:

Installing P/N 158-02600 Molded Seal Hubcap, P/N 095-25900 Axle Washer & P/N 154-10600 Grease Seal on P/N 40-279 & 40-279A Wheel Assemblies:

(Refer to Figure 1 and Figure 2 of this bulletin for assembly and installation instructions)

1. Jack aircraft per aircraft service manual and fully deflate tires. Remove P/N 155-08300 snap ring that secures P/N 158-01700 hubcap on outboard wheel half then remove hubcap. Retain snap ring but discard P/N 158-01700 hubcap.

Note: If the hubcap removed in Note 1 is P/N 158-02600 molded seal hubcap and the Wheel Assembly is identified with a P/N 40-279A Nameplate, then the Wheel Assembly is one that was shipped from the factory with the new P/N 158-02600 molded seal hubcap and P/N 095-25900 axle washer to the airframe manufacturer. Procure only the P/N 154-10600 Grease Seals required for the inboard wheel halves.

2. Remove cotter pin, axle nut and axle washer and then remove wheel assembly from axle per service manual instructions. Retain axle nut, cotter pin and discard axle washer (AN960-4016). New axle washer is supplied with Service Bulletin Kit.
3. With wheel assembly off aircraft, remove P/N 155-08300 snap ring on inboard wheel half then remove and discard P/N 154-03900 grease seals from both inboard and outboard wheel halves. Clean grease seal bore area of both wheels halves with Stoddard solvent or other suitable cleaner and dry thoroughly.
4. Install new P/N 154-10600 grease seal in bore of outboard wheel half making sure seal is thoroughly seated in wheel hub bore, and then secure with snap ring P/N 155-08300. Note: Silicone Spray or wheel bearing grease can be applied to outside diameter of seal to facilitate installation.
5. Re-install wheel assembly on axle in reverse order of removal, except now install new axle washer P/N 095-25900 then torque axle nut to airframe manufactures instructions and secure with Cotter Pin.
6. Coat outside diameter of P/N 158-02600 molded seal hubcap elastomer with silicone spray or a light coating of bearing grease then install hubcap into bore of outboard wheel half. Secure hubcap with P/N 155-08300 snap ring.
7. Re-inflate tires to airframe manufacturers recommended pressure then remove aircraft from jacks. Make appropriate maintenance log book entry noting compliance to Parker Hannifin Corporation, Aircraft Wheel & Brake Division Service Bulletin No. SB7082, and return aircraft back to service.

