

# Cleveland

Wheels & Brakes

Parker Hannifin Corporation

**Aircraft Wheel & Brake**

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# PRODUCT REFERENCE MEMO

## AVAILABILITY OF NEW MAIN WHEEL & BRAKE TO PROVIDE ADDITIONAL TIRE TO BACKPLATE CLEARANCE ON ISLANDER AIRCRAFT EQUIPPED WITH 7.00-6 TIRES

**PURPOSE:** This PRM announces availability of Wheel & Brake Model 40-90F/30-23D plus instructions for retrofit of existing equipment, 40-90 or 40-90B/30-23C.

**APPLICABILITY:** Pilatus Britten-Norman Islander Models BN-2, BN-2A, BN-2B, BN-2T; those aircraft equipped with Main Wheel & Brake 40-90 or 40-90B/30-23C.

**EFFECTIVITY:** 04-07-92.

**COMPLIANCE:** Optional. Recommended for aircraft with 7.00-6 tires.

### MATERIALS

**REQUIRED:** Retrofit Kit 199-202:

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
164-01506	Brake Disc, Forged	4
069-02600	Anchor Bolt	8
094-10400	Nut (MS21044-N5) for Wheel	12
095-10500	Washer (AN960-516) for Wheel	24
103-20500	Bolt (AN5-36A) for Wheel	12
166-19700	Nameplate for Wheel	4
166-20000	Nameplate - Warning for Wheel	4
166-20100	Nameplate for Brake	4

**NOTE:** Quantity indicated will retrofit one aircraft.



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PROCEDURE: NOTE: All maintenance to be done per Aircraft Maintenance Manual, and per Cleveland Wheels & Brakes Component Maintenance Manual.

1. Deflate tires and remove existing Main Wheels & Brakes.
2. Remove brake disc from each wheel and replace with 164-01506 brake disc. Reassemble wheel using new hardware (094-10400 Nuts, 095-10500 Washers, one under each bolt head and nut, and 103-20500 Bolts).
3. Remove anchor bolts from each brake and replace with 069-02600 anchor bolts.
4. Inspect brake linings for wear. Replace as needed.
5. Reidentify each wheel by removing the existing nameplate from the Outboard Wheel Half, replacing it with a new nameplate P/N 166-19700 with Identification markings as follows:

PART NO.: 40-90F  
TORQUE PROCESS: TORQUE  
TORQUE VALUE: 150 IN-LBS.  
QUALIFICATION BASIS: FAA-TSO-C26a  
SIZE: 6.00-6  
DATE: MORYR (E.G. MARCH, 1996 is 03R96)

Install a new warning nameplate P/N 166-20000 on the Outboard Wheel Half, adjacent to the inflation valve.

6. Reidentify each brake by removing the existing nameplate from the backside of the Cylinder Housing, replacing it with a new nameplate P/N 166-20100 with Identification markings as follows:

PART NO.: 30-23D  
TORQUE PROCESS: TORQUE  
TORQUE VALUE: 65-75 IN-LBS.  
QUALIFICATION BASIS: FAA-TSO-C26a  
DATE: MORYR (E.G. MARCH, 1996 is 03R96)

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).

7. Reinstall Main Wheels and Brakes. Bleed brakes and condition linings, if needed.
8. Make a log book entry reflecting this activity and return aircraft to service.