

Cleveland

Wheels & Brakes

Parker Hannifin Corporation

Aircraft Wheel & Brake

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SERVICE BULLETIN

UPGRADE OF 40-77B NOSE WHEEL ASSEMBLY TO 40-77G CONFIGURATION

EFFECTIVITY: Parker P/N 40-77B Nose Wheel Assemblies configured with wheel flange style as shown in Figure 1.

NOTICE:

This bulletin is effective only for new 40-77B Wheel Assemblies that have not seen field service. In-service wheel assemblies **may not** be converted to the 40-77G configuration.

APPLICABILITY: 40-77B Nose Wheel Assemblies for use on EMB-312 F & H Model French Tucano Aircraft.

REASON: Product Upgrade- To allow reconfiguration of 40-77B Nose Wheel Assemblies operating with 5.00-5, 6 ply tires at 72.5 psi inflation pressure to operate with 5.00-5, 10 ply tires at inflation pressures up to 90 psi.

DESCRIPTION: This document provides the necessary instructions and hardware requirements to upgrade the 40-77B Nose Wheel Assembly to a 40-77G configuration. Replacement parts may be procured individually under the MS or Parker part numbers (when shown) or from Parker Hannifin as Kit part number SB7035-1.

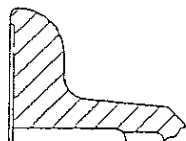
COMPLIANCE: **Mandatory** - If existing new 40-77B Nose Wheel Assemblies are to be operated with inflation pressures exceeding 72.5 psi.

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

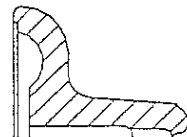
WEIGHT & BALANCE: None.

PUBLICATIONS: 40-77G information to be incorporated into the Cleveland Wheels & Brakes Product catalog at next revision.

NOTE: 40-77B Wheel Assemblies may be converted to 40-77G configuration only if the Wheel Flanges on those wheels shown as Style "A" are in use. If the existing 40-77B Wheels have flange styles as shown in Style "B", then those wheels may not be converted to 40-77G



STYLE "A" (solid Flange)
Permissible to reconfigure



STYLE "B" (scalloped flange)
Do not reconfigure

Figure 1. Wheel Flange Styles



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MATERIALS:

Kit list for P/N SB7035-1, Service Bulletin Kit, 40-77B Tie Bolts.

<u>Parker P/N</u>	<u>Description</u>	<u>Quantity</u>
103-85600	Bolt, External Wrenching, MS21250-04030	3
095-14600	Washer, Double C'sunk, MS14155-4	6
094-13800	Nut	3
217-30653	Grommet	1
166-19700	Nameplate, For P/N 40-77G Nose Wheel Assy.	1
166-20000	Nameplate, Warning	1
SB7035	Service Bulletin (This Document)	1

ACCOMPLISHMENT

INSTRUCTIONS:

1) The following components must be removed from the existing 40-77B Wheel Assemblies and discarded:

<u>Parker Part Number</u>	<u>Description</u>	<u>Quantity</u>
103-10500	Bolt, AN4-22A	3
095-10200	Washer, AN960-416L	6
094-10300	Nut, MS21044-N4	3
166-08700	Nameplate	1

2) Re-assemble the wheel assembly with the hardware listed in SB7035-1 kit. Apply antisieze compound per Mil-T-5544 to washer and nut surfaces prior to assembly. Lubtork wheel bolt tie nuts to 90-100 in-lbs when a tire is mounted.

3) 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 February of 1997 will be identified as Mfg. 02R97 (An "R" between the month and year indicates that this is a replacement nameplate).

4) Install P/N 166-20000 Warning Nameplate adjacent to the valve stem hole.