

Wheels & Brakes

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## PRODUCT REFERENCE MEMO

## REPLACEMENT AND RETORQUE OF BOLTS ON 40-107A WHEEL ASSEMBLY

EFFECTIVITY: Gulfstream Aerospace Models: 560F, 680F, 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B, 840, 980, 1000

Those equipped with Cleveland Main Wheels & Brakes.

PURPOSE: The purpose of this Product Reference Memo is to advise owner/operators that are using Cleveland 40-107A Wheel Assemblies on their aircraft that some commuter operators are experiencing bolt failures while operating at gross weight conditions. As a result, Bolt Torque Value has been increased from 180 in-lb. to 300 in-lb.

MATERIALS

- REQUIRED: Cleveland Kit 199-172 will convert one (1) aircraft. It consists of two (2) 166-09400 Nameplates, this PRM, and Maintenance Manual for 40-107/30-107 Series Main Wheel & Brake.
  - NOTE: See Section III. New wheel bolts, washers and nuts may be required, to be ordered separately.

INSPECTION

- PROCEDURE: WITHIN THE NEXT 100 HOURS remove and disassemble 40-107A Wheel Assembly per maintenance manual instructions and inspect all AN6-40A Tie Bolts (Parker P/N 103-31000) for cracks by magnaflux inspection procedures per MIL-I-6868.
- ACCEPTANCE: After inspecting bolts 100% for cracks, AN6-40A Bolts may be returned to service if <u>NO</u> evidence of cracks exists.
- REJECTION: Any crack in bolt shank, root radius of head, or minor dia. of thread necessitates replacement of all bolts, washers and nuts with new hardware of same part number.

ITEM AN DES	SIGNATION PA	ARKER P/N Q1	<u>ry</u>
Bolt AN	6-40A	103-31000	8
Washer AN	960-616 (	095-10600 1	6
Nut AN	364-624 (	094-10100	8

<u>NOTE</u>: Parts listed above are <u>NOT</u> included in Kit 199-172 and must be ordered separately, if required.





## **PRODUCT REFERENCE MEMO**

## REASSEMBLY:

- 1) Locate existing nameplate on outer wheel half and note month and year of manufacture, stamped in block titled "Mfg.".
- 2) Take new nameplate P/N 166-09400; verify that it is stamped with the following information:

Model	<u>40-107A</u>	Static Rating	<u>6000 #</u>	
Size	<u>24 x 7.7</u>	Mfg	Wgt.	<u>24.9 #</u>

Then impression stamp or scribe in block titled "Mfg." the original month and year of manufacture as noted in Step 1.

- 3) Remove original nameplate and replace with new nameplate in same location on outer wheel half.
- 4) Reassemble wheel as per Maintenance Manual, torquing wheel bolts at 300 in-lb.
- 5) Repeat Inspection, Acceptance, Rejection and Reassembly procedures for the other wheel, then reinstall both wheels on aircraft, per manual.
- Make a log book entry referencing conformance to PRM 48, add PRM and Maintenance Manual to aircraft paperwork and then return aircraft to service.