

Cleveland

Wheels & Brakes

Parker Hannifin Corporation

Aircraft Wheel & Brake

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PRODUCT REFERENCE MEMO

AVAILABILITY OF HEAVY DUTY BOLTS AND NUTS FOR CLEVELAND WHEEL MODELS 40-107A, 40-170 40-170A AND 40-198

PURPOSE: Wheel Models 40-107A, 40-170, 40-170A and 40-198 have been changed as of May 1, 1990 to use Heavy Duty MS21250-06056 bolts and NAS1804-6N nuts. This PRM provides aircraft owners a means to retrofit existing wheel to use the Heavy Duty equipment.

APPLICABILITY:

1. Rockwell/Gulfstream Aerospace Commander 560, 680, 681, 685, 690, 695, 840, 900, 980, 1000 Series; those equipped with Cleveland Main Wheel 40-107A (Original Equipment or per STC SA497GL Approved Main Wheel & Brake Conversion.)
2. Beech Queen Air; those equipped with Cleveland Main Wheel 40-170 (per STC SA673GL Approved Main Wheel & Brake Conversion).
3. Beech 18 Volpar; those equipped with Cleveland Main Wheel 40-170 (per STC SA788GL Approved Main Wheel & Brake Conversion).
4. Swearingen Merlin II A & B; those equipped with Cleveland Main Wheel (per STC SA1009GL Approved Main Wheel & Brake Conversion).
5. Beech 90 Series; those equipped with Cleveland Main Wheel 40-170 or 40-170A (Original Equipment or per STC SA619GL Approved Main Wheel & Brake Conversion).
6. Rockwell Commander 500 Series; those equipped with Cleveland Main Wheel 40-198 (per STC SA706GL Approved Main Wheel & Brake Conversion).

EFFECTIVITY: May, 1990 and after.

COMPLIANCE: Optional - at owner's discretion.

MATERIALS

REQUIRED: The following will retrofit one (1) wheel:

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
103-32500	Bolt (MS21250-06056)	8
094-15800	Nut (NAS1804-6N)	8
095-03100	Washer-C'Sunk (MS20002C6)	16

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- PROCEDURE:
1. Remove and disassemble main wheel per applicable maintenance manual instructions.
 2. Replace existing wheel bolts, nuts and washers with new materials as listed above. Reassemble wheel as per maintenance instructions, lubtork bolts at 300 in-lbs.

NOTE: One (1) washer under each bolt head and nut, countersunk side of washer to face bolt head or nut (as applicable).
 3. 40-107A wheels only. Assure that reidentification of wheel has been performed per [PRM48](#) (provides 300 in-lb torque label).
 4. Reinstall wheel on aircraft per applicable manual.
 5. Make a log book entry referencing this activity and return aircraft to service.