

# SERVICE BULLETIN

## MAIN WHEEL ASSEMBLY - BRAKE DISC - INSPECT/REPLACE WITH NEW DISC

- EFFECTIVITY:** Parker P/N 40-83A or 40-83B, wheel assemblies equipped with the 164-02502, 164-02503 or 164-12502 (chrome plated) welded brake disc assemblies.
- APPLICABILITY:** Beech Aircraft models 33 or 36 series or other aircraft types equipped with the part numbers listed above.
- REASON:** Product Improvement - The welded brake disc configuration for the above applications have been superseded with a brake disc machined from a solid forged billet, which offers enhanced service life.
- DESCRIPTION:** This document provides the necessary instructions to inspect the existing welded brake discs and ordering information for the superseding forged brake disc part numbers and attachment hardware.
- 164-02505 Brake Disc (forged) replaces 164-02502 or 164-02503.
  - 164-12505 Brake Disc, Chrome (forged) replaces 164-12502.
- A product improvement change using kidney shaped washers, longer bolts and a welded disc (164-02503) was implemented in production. This change was also offered to the field by a Product Reference Memo, PRM52 (199-178 Disc Kit). When disc replacement for this configuration is required, the attachment hardware must also be changed. For wheel assemblies not containing the longer bolts and kidney washers the superseding forged discs are interchangeable provided a thin washer replaces the existing thick washer. Replacement parts may be procured individually or as a service bulletin kit part number SB7033-1, Disc Kit (forged) or SB7033-2, Disc Kit, Chrome (forged). Kits contain enough parts to reconfigure one aircraft.
- COMPLIANCE:** Recommended - When existing parts are worn beyond the minimum disc thickness or if brake difficulty is observed.
- APPROVAL:** The contents of this service bulletin are FAA approved.
- WEIGHT & BALANCE:** Insignificant.



# SERVICE BULLETIN

**PUBLICATIONS:** Superseding part number information to be incorporated into the Product Catalog at next revision.

**MATERIALS:** Service bulletin kit list for P/N SB7033-1 Disc Kit (forged) and SB7033-2 Disc Kit, Chrome (forged).

<u>Part Number</u>	<u>Description</u>	<u>Qty. For SB7033-1</u>	<u>Qty. For SB7033-2</u>
164-02505	Brake Disc (Forged)	2	
164-12505	Brake Disc, Chrome (Forged)		2
103-20400	AN5-35A Bolt	6	6
094-10400	MS21044-N5 Nut	6	6
095-10700	AN960-516L Washer (Thin)	6	6
SB7033	Service Bulletin (This Document)	1	1

## ACCOMPLISHMENT INSTRUCTION:

1. Jack aircraft per manufacture's maintenance manual.
2. Completely deflate tire and remove valve core.

**CAUTION: FAILURE TO DEFLATE  
TIRE PRIOR TO REMOVING AXLE  
NUT COULD RESULT IN SERIOUS  
PERSONAL INJURY.**

3. Remove back plate from brake cylinder, loosen axle nut and remove wheel from aircraft.
4. Loosen three bolts and remove welded brake disc. Magnetic particle and visually inspect brake disc in area around bolt holes for cracks/distortion or replace with new disc. It is permissible at owner's discretion to reassemble wheels with airworthy welded brake discs, use existing hardware and proceed to step 7. If cracks or distortion are observed in the bolt area or disc is below minimum thickness, replace with superseded P/N and hardware as listed in the materials section.
5. Discard kidney shaped washers (095-00800), AN960-516 thick washers (095-10500) or AN5-36A bolts (103-20500) if installed.
6. Reassemble wheel with 095-10700 washers (AN960-516L) against nut and head of 103-20400 bolt (AN5-35A) against disc. EXAMINE TO ENSURE PROPER LOCK NUT INSTALLATION.
7. Torque wheel bolts to 150 in.-lbs.
8. Re-install wheels on axles, back plates to cylinder (torque 85-90 in.-lbs) and inflate tire.
9. Make log book maintenance entry.