

# Cleveland

Wheels & Brakes

## Parker Hannifin Corporation

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# SERVICE BULLETIN

### BRAKE MODEL 30-66D - TORQUE PLATE - INSPECT / REPLACE / RE-IDENTIFY ASSEMBLY

- EFFECTIVITY:** All Parker Hannifin model number 30-66D brake assemblies
- APPLICABILITY:** All Pilatus Britten-Norman MK III Trislander aircraft, Models BN-2A MkIII, BN-2A MkIII-2, and BN-2A MkIII-3 or any other aircraft equipped with Parker Hannifin model 30-66D Brake Assemblies
- REASON:** Product Improvement - The 075-10400 Torque Plate Assembly, part of the Parker Hannifin P/N 30-66D Brake Assembly has exhibited signs of cracking at the brake anchor bolt bushing mounting ear locations. Cracking is accelerated when installed on an aircraft that is operated in hard service conditions, such as those experienced with short field operations. Non-compliance with this service bulletin may result in a loss of braking capability.
- DESCRIPTION:** This service bulletin immediately rescinds the TSO-C26a approval for the Model 30-66D Brake Assembly. Parker Hannifin Model 30-66H Brake Assembly incorporates an improved torque plate assembly, P/N 075-19800, and supersedes the 30-66D Brake Assembly which uses the 075-10400 Torque Plate Assembly. Instructions are provided to remove existing 075-10400 Torque Plate Assembly and replace with 075-19800 Torque Plate Assembly, 2 each 145-14700 Bushings and re-identify brake assembly. The new torque plate is manufactured from steel and is thinner in the axle flange attachment area and will require shorter bolts. Contact Pilatus Britten Norman for the bolt type and size required.
- COMPLIANCE:** **Mandatory** - Perform accomplishment instructions within the next 10 hours.
- APPROVAL:** The design contents of this Service Bulletin are FAA DER approved.
- WEIGHT & BALANCE:** Each 075-10400 Torque Plate Assembly weighs .43 pounds. The 075-19800 Torque Plate Assembly weighs .81 pounds representing a .38 pound weight increase for each brake installation which results in a 1.52 pound weight increase for the aircraft.
- PUBLICATIONS:** The superseding product information contained in this bulletin is to be incorporated into the Cleveland Wheel and Brake Product Catalog at next revision.
- MATERIALS:** Replacement parts may be purchased individually or as a service bulletin kit, P/N SB7053-1. Each SB7053-1 "Service Bulletin Kit, 30-66D Brake Assembly" will contain enough parts to rework all four brake assemblies on one aircraft. Torque plate mounting hardware is not included in this kit and must be obtained from Pilatus Britten Norman.

<u>Parker P/N</u>	<u>Description</u>	<u>Quantity</u>
075-19800	Torque Plate Assembly	4
145-14700	Bushings	8
166-19700	Nameplate, Replacement- P/N 30-66H Brake Assy.	4
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## ACCOMPLISHMENT INSTRUCTIONS:

- 1) Within the next 10 hours of receipt of this service bulletin, jack aircraft and remove wheel, brake caliper back plate and caliper to gain access to the torque plate in accordance with aircraft maintenance manual.
- 2) Remove torque plates 075-10400 and perform a thorough inspection for cracks, dings, nicks and excessive corrosion. Pay particular attention to the areas that surround the anchor bolt mounting ears and the flange mounting bolts.
- 3) If any of these conditions are observed, immediately remove the part from service and install a new P/N 075-19800 torque plate using 2 each 145-14700 bushings and attachment bolts as directed by Pilatus Britten Norman. Remove existing nameplate and affix new nameplate, furnished with service bulletin kit SB7053-1. Coat anchor bolts on caliper with a spray silicon or other suitable a dry film lubricant and reinstall brake assembly.
- 3) If torque plates have been determined to be airworthy it is permissible to continue to operate the aircraft until replacement parts can be obtained provided the TSO C26a marking designation is obliterated from the nameplate and the torque plates are re-inspected at an interval not to exceed every 50 landings.
- 4) Revise weight and balance and record compliance in the aircraft log book.