

# SERVICE BULLETIN

## CITATION BRAKE ASSY - BRAKE ROTOR DISC - INSPECT / REPLACE

**EFFECTIVITY:** All Parker Hannifin spare replacement brake rotor discs, P/N 159-03500 in inventory. All Parker Hannifin 30-161A (part of 199-164 Conversion Kit), 30-189A (part of 199-177 Conversion Kit) and 030-18902 (part of 199-18000 Conversion Kit) Brake Assemblies, and 235-01200 Heat Stacks that have been overhauled between January, 1996 through May, 1996. Parker Hannifin 030-18902 (part of 199-18000 Conversion Kit) Brake Assemblies S/N's 1152 and 1153, manufacture date 2/96.

**APPLICABILITY:** All Cessna Citation Models 500, 501, 550, 551, and S550 (SII) equipped with Parker Hannifin main wheels and brakes and spares stock inventory of 159-03500 Brake Rotor Discs and 235-01200 Heat Stacks.

**REASON:** Brake Rotor Disc Verification - It has been discovered that above listed assemblies may have been assembled with a brake rotor disc of similar size to the 159-03500 brake rotor disc. The incorrect brake disc may have been shipped as an individual component, or as a subcomponent of heat stacks, brake assemblies, and conversion kits. Continued operation of an aircraft equipped with a brake assembly containing an incorrect brake rotor disc component may result in excessive brake drag and greatly reduced brake effectiveness.

**DESCRIPTION:** This document provides the necessary instructions to inspect and confirm receipt of the proper brake discs. The similar brake discs mistakenly used in an assembly or shipped as a detail part have nearly the same outside diameter, same number of drive tangs but have a significantly larger inside diameter as the 159-03500 brake rotor discs. The incorrect brake rotor disc drive tang is wider than the 159-03500 drive tang which may make it difficult to install the brake assembly into the wheel. Suspect assemblies can be readily inspected for the correct part by the part number itself, 159-03500. The part number is stamped on one side of a disc drive tang. If the correct part number, 159-03500 can't be verified on the installation, confirmation of proper part can be accomplished by a dimensional inspection of the brake rotor disc inside diameter. See accomplishment instructions.

**COMPLIANCE:** **Mandatory-** This service bulletin must be complied with prior to next flight.

**APPROVAL:** The contents of this service bulletin are FAA DER approved.

**WEIGHT & BALANCE:** N/A

**PUBLICATIONS:** N/A

**MATERIALS:** Calipers or other device capable of measuring an inside diameter of eight (8) inches or less.

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## ACCOMPLISHMENT INSTRUCTIONS:

1. Inspect all inventory of 159-03500 Brake Rotor Discs and 235-01200 Heat Stacks to verify that the parts and packaging identification match. Inspect brake rotor discs for proper part number, 159-03500. The part number is stamped on one side of a disc drive tang. If part number is not legible, measure the inside diameter of the rotor disc. Discs that measure larger than 7.5 inches are to be returned immediately to Parker. Call Aircraft Wheel and Brake at 1-800-272-5464 to make arrangements for replacement brake rotor discs.
2. For equipment installed on the aircraft, use a flashlight and magnifying glass to inspect brake rotor disc for proper part number, 159-03500. The part number is stamped on one side of a disc drive tang. If the part number is verified as being correct, proceed directly to step 9. If the part number is not legible proceed to step 3.
3. Remove wheel and if necessary the brake assembly per the aircraft maintenance manual.
4. Inspect for correct brake rotor disc part number, 159-03500. If part number is correct proceed directly to step 7. If part number is not legible proceed with step 5.
5. Disassemble the brake assembly in accordance with the Parker component maintenance manual that was furnished with the wheel and brake conversion kit package.
6. Measure the inside diameter of the rotor disc. If the disc measures larger than 7.5 inches, the wrong part is installed. **THE AIRCRAFT MUST NOT BE OPERATED UNTIL THE CONDITION IS CORRECTED.** Call Aircraft Wheel and Brake at 1-800-272-5464 to make arrangements for replacement brake rotor discs.
7. Re-assemble, install and functionally test the brake assembly in accordance with the component maintenance manual furnished with the wheel and brake conversion kit package.
8. Install brake and wheel assembly per aircraft maintenance manual.
9. Make log book entry for service bulletin compliance and return aircraft to service.