

BRAKE ASSEMBLY – CYLINDER HOUSING – INSPECT/REPLACE

EFFECTIVITY: Parker Hannifin brake assembly cylinder housing P/N 061-14100 used in the following assemblies, subassemblies and conversion kits and identified with a MFG DATE 08/99 through 11/99:

Brake Assembly P/N's: 30-75, 30-75A, 30-75B, 30-75X

Brake Cylinder Subassembly P/N: 091-04400 (spare subassembly used in the 30-75, 30-75A & 30-75X Brake Assemblies).

Conversion Kit P/N's: 199-84, 199-84 Chrome, 199-84A, 199-84A Chrome, 199-105, 199-105 Chrome, 199-124 & 199-124 Chrome

APPLICABILITY: The above listed products have been furnished for use on the following Cessna Aircraft Company model numbers: 150, A150L, F150K,L , FRA150L, 152, A152, F152, FA152, 172L through 172S, 172RG, F172K, 177B, 177A,B , 177RG, 182N.

In addition, products may have been used on kit planes and homebuilt aircraft.

REASON: Cracks were observed in the cylinder piston bore area, resulting from impact during impression stamping of the heat lot number. It has been determined that these products are to be removed from service. Continued use of the defective products could result in loss of brake hydraulic pressure affecting directional control and brake effectiveness.

DESCRIPTION; This service bulletin is issued to inform users of the above mentioned products with possible defects and the requirement to inspect aircraft and stockrooms for listed part numbers identified with a MFG. DATE of 08/99 through 11/99. Not all products shipped within these manufactured date codes have impression stamped casting heat numbers. The Accomplishment Instructions section of this service bulletin provides the necessary information to perform a detailed inspection and appropriate disposition for product removal from stock and/or service.

COMPLIANCE: **Mandatory- Perform accomplishment instructions as outlined on page 2.**

APPROVAL: The contents of this Service Bulletin are FAA DER approved.

WT. & BAL.: Not Applicable

PUBLICATIONS: This service bulletin will be incorporated into the Cleveland Wheels & Brakes Component Maintenance Manual.

SERVICE BULLETIN

ACCOMPLISHMENT INSTRUCTIONS:

A. SPARES INVENTORY

- 1) Immediately upon receipt of this Service Bulletin, inspect all spares inventory for referenced brake assemblies, brake cylinder subassemblies and brake assemblies contained in conversion kits to identify affected products having a manufacturing date of 8/99 through 11/99. The MFG. DATE is printed on the brake assembly nameplate. The nameplate is located on the cylinder housing outer radius adjacent to the back plate.
- 2) If a manufacturing date from 8/99 to 11/99 is observed, further inspect the brake assembly cylinder as shown in Figure 1 for evidence of an **impression stamped** number in the area reserved for the casting heat lot number.
- 3) If an impression stamped number is observed, these units must be returned to Parker Hannifin. Instructions for returning the units to Parker Hannifin can be obtained by contacting the Customer Support Team at 800-272-5464 or 440-937-1272. If the area in question has a raised cast number, **no further action is required**.

B. PRODUCT INSTALLED ON AIRCRAFT

- 1) At next annual inspection, tire change, brake maintenance or within 100 flight hours, whichever occurs first, visually inspect the applicable aircraft to determine if affected products are installed.

Note: This process may be facilitated by reviewing the aircraft maintenance records for all type certificated and kit aircraft using the products referenced above. If brake products have been purchased and installed on the aircraft between 08/99 and 11/99 then it may be possible that an affected part was involved. If so, remove any fairings in accordance with the airframe manufacturer's maintenance instructions to gain access to the brake assembly and inspect for the MFG DATE (see instruction A2 above and Figure 1 below).
- 2) Aircraft that have been identified as not being equipped with the affected products may be returned to service. Make appropriate entry in aircraft logbooks.
- 3) For aircraft that are identified as being equipped with affected products, inspect all referenced products installed on the aircraft for a manufacturing date of 8/99 through 11/99. The MFG. DATE is printed on the brake assembly nameplate.
- 4) If a manufacturing date between 8/99 to 11/99 is observed, further inspect the brake assembly cylinder as shown in Figure 1 for evidence of an **impression stamped** number in the area reserved for the casting heat lot number.
- 5) If an impression stamped number is observed, immediately remove this equipment from the aircraft and return it to the point of purchase for warranty replacement consideration (See instruction A3 above). If the area in question has a raised cast number, **no further action is required**.

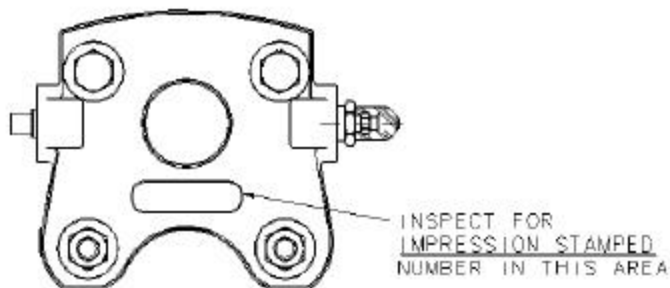


FIGURE 1 – INSPECTION OF BRAKE CYLINDER HOUSING