

Cleveland

Wheels & Brakes

Parker Hannifin Corporation

Aircraft Wheel & Brake

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SERVICE BULLETIN

WHEEL ASSEMBLY – 6 INCH DIE CAST- INSPECT/REPLACE

- EFFECTIVITY:** Parker Hannifin 6-inch die cast wheel assembly, wheel half assembly and wheel half subassembly (formerly McCauley Products) with MFG. DATE code 03/95 and after for the following part numbers:
- D-30660-1, -2, -3, -6, -7 & -8 Main Wheel Assemblies
 - 161-30661 Inner Wheel Half Assembly (161-30662 Inner Wheel Half Subassy)
 - 162-30656 Outer Wheel Half Assembly (162-30657 Outer Wheel Half Subassy)
 - D-30660-4, -5, -9 & -10 Main Wheel Assemblies
 - 161-30661-2 Inner Wheel Half Assembly (161-30662-2 Inner Wheel Half Subassy)
 - 162-30656-2 Outer Wheel Half Assembly (162-30657-2 Outer Wheel Half Subassy)
 - D-30665 Nose Wheel Assembly
 - 161-30666 Inner Wheel Half Assembly (161-30667 Inner Wheel Half Subassy)
 - 162-30656 Outer Wheel Half Assembly (162-30657 Outer Wheel Half Subassy)
 - D-30665-1 Nose Wheel Assembly
 - 161-30666-1 Inner Wheel Half Assembly (161-30667-1 Inner Wheel Half Subassy)
 - 162-30656-1 Outer Wheel Half Assembly (162-30657-1 Outer Wheel Half Subassy)
- APPLICABILITY:** The above listed products have been furnished for use on the following Cessna Aircraft Company model numbers: 150, A150, F150, 152, A152, F152, FA152, 172, 172RG, F172, FR172, R172, 177, 177RG, F177RG, 180, 182, F182, FR182, R182, T182, TR182, FR182, 185, 206 Series, 207 Series, 210 Series, P210, 310 Series, 337 Series, F337, FT337, 340 Series, 402 Series, 404, 414 Series, 421 Series, 425 Series, and 441 aircraft.
- In addition, products may have been used on kit planes, homebuilt aircraft or by float manufacturers.
- REASON:** Parker Hannifin has received reports of surface irregularities in the web wall areas surrounding the hub on the wheel assemblies listed above. The returned products have been examined and determined to contain through wall discontinuities (non-knitting or crack-like indications). It is required that product containing indications be thoroughly examined and if determined to be defective must be removed from service. Continued use of a defective product could result in the loss of directional control or brake effectiveness during taxi.
- DESCRIPTION:** This service bulletin is issued to inform users of the above mentioned products of possible defects and the requirement to inspect aircraft and stock rooms for listed part numbers impression stamped with MFG. DATE 03/95 and later.
- 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.

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ACCOMPLISHMENT INSTRUCTIONS:

A) SPARES INVENTORY

- 1) Immediately upon receipt of this Service Bulletin, inspect all spares inventory for above referenced wheel assemblies, wheel half assemblies and wheel half subassemblies to identify affected products having MFG. DATE 03/95 or later.
- 2) The MFG. DATE is impression stamped on the outer web surface of the tube well on a pad adjacent to the axle hub. Refer to Figure 1 below.
- 3) Return all affected products to the point of purchase for warranty consideration.

B) PRODUCT INSTALLED ON AIRCRAFT

- 1) At next annual inspection, tire change 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 aircraft, kit aircraft or float systems using the products referenced above. If wheel products have been replaced on the aircraft after the 03/95 date, then it may be possible that an affected replacement part was installed. Nose wheel assemblies should be visible without removal from aircraft. Inner wheel half assemblies on a main wheel may require removal from the aircraft. If so, jack aircraft in accordance with airframe manufacturers' maintenance instructions and remove wheel to gain access to the MFG. DATE (See instruction A2 above and Figure 1 below).

- 2) Aircraft that have been identified as not being equipped with affected products may be returned to service.
- 3) For aircraft that are identified as being equipped with affected products, replacement of product or a dye penetrant inspection is required. Dye penetrant inspection requires that the products be stripped and thoroughly inspected for defects in accordance with the Cleveland Wheels & Brakes Component Maintenance Manual. Product that has been determined to be airworthy may be repainted and returned to service. Make appropriate entry in aircraft log books.

NOTE:

All general aviation wheel products regardless of the construction or materials used in their manufacture are to be periodically inspected in accordance with the Cleveland Wheels & Brakes Component Maintenance Manual.

- 4) Products that are determined to be defective are to be returned to the point of purchase for warranty consideration. Note: The 6 inch die cast wheel products are no longer being manufactured. Therefore, replacement products in the form of a complete wheel and brake conversion kit may be ordered from distribution. See Replacement Kits to determine which conversion kit is required for your application.

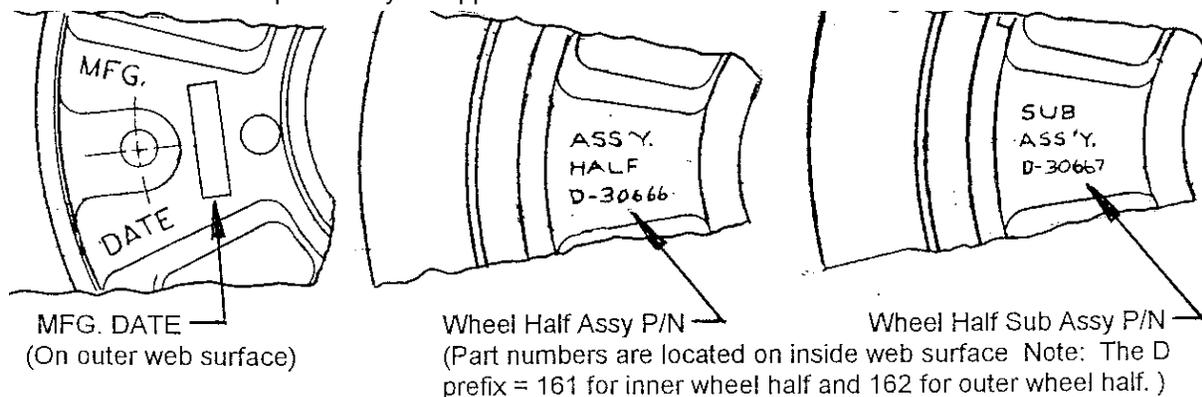


FIGURE 1 - MANUFACTURE DATE / PART NUMBER MARKING LOCATIONS



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REPLACEMENT KITS: This wheel and brake applicability data is accurate to the best of our knowledge. It is to be used only as a guide, and not to be construed as the basis for aircraft installation approval. Consult the airframe maintenance manual, parts catalog, or equipment list (for optional installations), to confirm the approved part number for a particular application. It is the responsibility of the installer to assure that only approved parts have been used.

6 INCH DIE CAST WHEEL P/N's AFFECTED	REPLACEMENT W&B CONV KIT P/N	APPLICABILITY
D-30660-1 or -8 161-30661 (161-30662) 162-30656 (162-30657)	199-84 or 199-84 Chrome (*2)	Cessna Models (*1): 150, F150, A150, FA150, 152, A152, F152, FA152, 177, 177RG, F177RG, 182, A182 & F182
	199-84A or 199-84A Chrome (*2)	Cessna Models: 172 (*1), F172 (*1), R172 & FR172
D-30660-2 or -6 161-30661 (161-30662) 162-30656 (162-30657)	199-60 or 199-60 Chrome Standard duty 6.00-6 equipment for aircraft equipped with Cessna axle P/N 0541124 & 1441003-1. Not for use on aircraft equipped with crosswind landing gear. Installation is per FAA STC SA52GL & SA62GL and (*2) for selected models.	Cessna Models: 180, 180A thru 180F, 180H, 180J, 185, 185A, 185B, A185E, A185F, 206E, 206F, TU206E, TU206F, 210,210A, 210B, 210C, 210D, 210K, 210L, 210M, T210K, T210L & T210M 206 series (*2)
	199-60A or 199-60A Chrome Standard duty 6.00-6 equipment. Installation is per FAA STC SA52GL and (*2) for selected models.	P210N(S/N's P21000001 thru P21000150) 182 series (*2)
D-30660-3 or -7 161-30661 (161-30662) 162-30656 (162-30657)	199-62 (3-Bolt Wheel), 199-62 Chrome (3-Bolt Wheel) or 199-62A (*2) (6-Bolt Wheel) Heavy-duty 8.00-6 equipment for aircraft equipped with Cessna axle P/N 0541124 & 1441003-1. Not for use on aircraft equipped with crosswind landing gear. Installation is per FAA STC SA63GL and (*2) for selected models.	Cessna Models: 180, 180A thru 180K, 185, 185A thru 185E, A185E, A185F, 206, P206, U206, U206F, U206G, TU206E, TU206F, TU206G & T206 series (*2)
D-30660-4 or -9 161-30661-2 (161-30662-2) 162-30656-2 (162-30657-2)	199-155 Heavy duty 8.00-6 equipment, high corrosion resistant kit, wheel includes chrome brake disc and chrome bearings. Installation per FAA Form 337.	Cessna Models: 180, 182, R182, FR182, 185, A185, 206, P206, TU206, 210 series, T210 series
D-30660-5 or -10 161-30661-2 (161-30662-2) 162-30656-2 (162-30657-2)	Contact Cleveland Customer Support for instructions	
D-30665 161-30666 (161-30667) 162-30656 (162-30657)	40-76A (*2)	Cessna: 172 series, FR172, 182 series, F182, 206 series, 207 series, 310, 337, P337,FP337
D-30665-1 161-30666-1 (161-30667-1) 162-30656-1 (162-30657-1)	40-140A (*2)	Cessna: 340, 401, 402, 404, 414, 421, 425 & 441

(*1) Selective S/N for these models, consult Cleveland Customer Support for specific applicability.

(*2) Authorization for conversion is per Cessna parts lists approving the Cleveland products as alternates for the McCauley products.