

Cleveland

Wheels & Brakes

Parker Hannifin Corporation

Aircraft Wheel & Brake

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PRODUCT REFERENCE MEMO

UPGRADE OF CLEVELAND WHEEL & BRAKE ASSEMBLIES 40-137/30-103 (PER TSO C26b) TO 40-174/30-148 (PER TSO C26c)

APPLICABILITY: All Grumman Mallard Models G-73 converted to Cleveland Wheels & Brakes with Conversion Kit 199-81 (Wheel Assembly 40-137 and Brake Assembly 30-103).

PURPOSE: To increase wheel & brake rating to that suitable for use on Turbo Mallard aircraft.

Existing Mallard Conversion Kit 199-81 is obsolete and may be made into new Turbo Mallard Conversion Kit 199-113 through use of Parts Kit 199-117. this change is mandatory for use of Cleveland equipment on Turbo Mallard aircraft.

PROCEDURE: A. Wheel Assembly

1. Deflate tire and remove wheel from aircraft.
2. Remove and discard existing wheel bolts, nuts and washers.
3. Install new wheel bolts, nuts and washers. Torque to 180 in-lb.
4. Remove existing wheel nameplate.
5. Apply new wheel nameplate (Model 40-174) in same location.

B. Brake Assembly

1. Remove and discard existing pressure plate bolts (part number 069-01100), nuts and washers.
2. Replace with new bolts, washers, bushings and nuts per 30-148 blueprint.
3. Replace existing back plate bolt washers (095-12700) with new washers (095-12300).
4. Retorque back plate bolts to 450 in-lb.
5. Torque pressure plate bolts to 200 in-lb.
6. Remove existing brake nameplates.
7. Apply new brake nameplate (Model 30-148) in same location.

C. Assure that wheels and brakes are remounted on aircraft per installation drawing 50-83.

Cleveland kit number 199-117 will upgrade one aircraft. It includes the following hardware:



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<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
103-31200	Bolt (Wheel)	20
095-12400	Washer (Wheel)	40
094-10100	Nut (Wheel)	20
103-22800	Pressure Plate Bolt	8
095-02800	Washer	8
145-08200	Bushing	8
095-10500	Washer	8
094-10400	Nut	8
095-12300	Washer (Back Plate Bolt)	24
166-08600	Nameplate - Brake 30-148	
166-09800	Nameplate - Wheel 40-174	
	Blueprints - 30-148, 40-174, 50-83	
	PRM #31	
	STC Copy	