

## Introduction

### General

There are a variety of publications available from Cleveland Wheels & Brakes to assist in the maintenance, overhaul or troubleshooting of Cleveland products. These documents are intended to supplement, not replace, the airframe manufacturer's instructions when Cleveland products are used. The "Component Maintenance Manual" (CMM) is an excellent reference publication used by many installers and technicians. It has been generically written to address the common practices and procedures used to inspect, troubleshoot and overhaul most General Aviation external type wheels and brakes. The CMM is often used in conjunction with the Product Catalog which presents detailed illustrated parts breakdowns. The more complex internal type wheels and brakes generally have a manual expressly written for their overhaul and maintenance type activities. Selected Service Bulletins and Product Reference Memos are included as part of the CMM. New releases or revisions to these documents are included with each new issue of the CMM.

### Manual Use

Use of this manual requires reference to the Cleveland Wheels & Brakes Product Catalog. When referencing the Product Catalog, please note the term "cylinder assembly" or "caliper" is a reference to a brake assembly which includes the cylinder in addition to a back plate, pressure plate, brake linings, piston(s), and other components.

The term "cylinder" is used to identify the housing for the piston(s), o-rings, and brake fluid. The cylinder is a component of the caliper.

When referencing the Product Catalog, you may note terms "cylinder assembly" and "caliper" being used interchangeably.

### Manual Updates

Effective July 1, 1997, this manual (CMM) has been converted to a bound printed publication format. This manual is now identified by a document number "AWBCMM0001-x," which is located in the upper left corner of each page. The "-x" suffix indicates the manual issue number, where "-1" is the first issue. AWBCMM0001-1 (dated July 1, 1997) supersedes CMM Revision D (dated July 1, 1996).

The revision service for this publication, as had been offered in the past, is no longer available. Whenever an interim revision to the publication is required the information will be listed on the Record of Revisions page, which precedes the Table of Contents page. The Technical Publication Notice (TPN) provides detailed revision information to selective sections of the parent publication. Each TPN is identified with the parent publication number and a sequentially assigned revision number indicating the revision level of the parent publication it has been issued against. For example: TPN\_AWBCMM0001-7.1 will be the first interim revision issued against AWBCMM0001-7. TPN\_AWBCMM0001-7.2 would be the second interim revision and so forth. Whenever a general revision of the parent document is required, the publication's revision number is advanced and the TPN process will begin again.

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Consult the Cleveland Wheel & Brakes website for current service publications and any TPN's that have been issued against it. For additional information regarding publication availability please contact the Cleveland Wheels & Brakes Technical Support Team. Product Information Cards located at the front of this publication can also be used to order the CMM and the Product Catalog.

For technical assistance, contact the **TECHNICAL SERVICES HOTLINE:**

[techhelp@parker.com](mailto:techhelp@parker.com) 1-800-BRAKING (272-5464)

Fax: 440-937-5409

**NOTE:** This manual, along with the Product Catalog, is also available as part of a Parker General Aviation Product Information CD ROM.

Units of Measure

The measurements used in this manual are presented in U.S. Standard Units with metric equivalents in parentheses after or below the U.S. units. Conversions and abbreviations are listed in the following table:

U.S. Standard Unit	U.S. Standard Abbreviation	Corresponding Metric Unit	Metric Abbreviation
degrees Fahrenheit	°F	degrees Celsius	°C
foot pounds	ft-lb	Newton-meter	N·m
gallon	gal	liter	l
inch	in.	millimeter	mm
inch pounds	in-lb	Newton-meter	N·m
mile	mi	kilometer	km
miles per hour	mph	kilometers/hour	km/hr
ounce	oz	milliliter	ml
pounds per square inch	psi	kilopascals	kPa

Abbreviations

Abbreviations used in this manual are listed and defined below.

para      paragraph      P/N      part number  
ref      reference

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