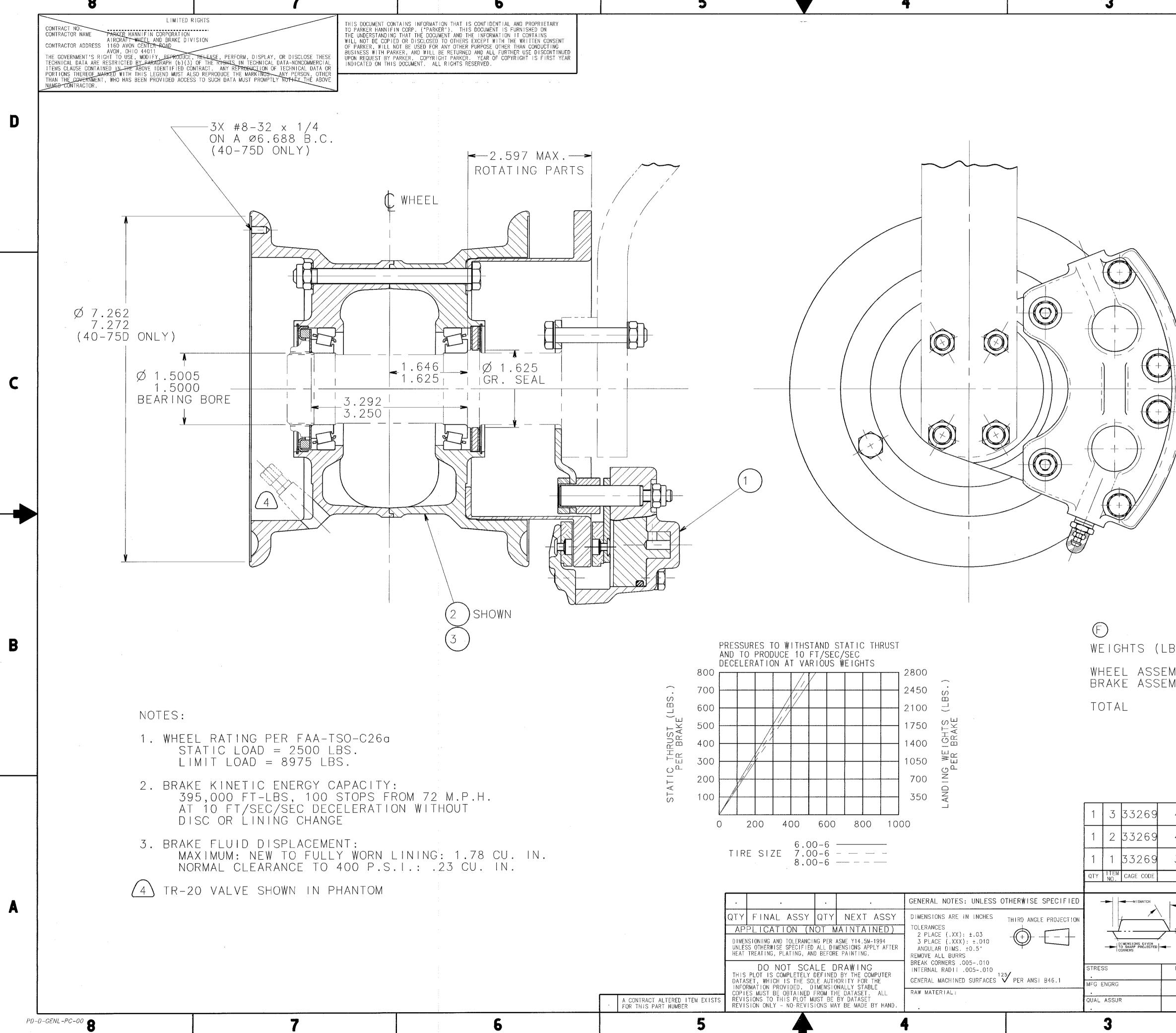
#### AIRCRAFT WHEEL & BRAKE DIVISION PARKER HANNIFIN CORPORATION AVON, OHIO

#### PARTS LIST 199-62 CONVERSION KIT

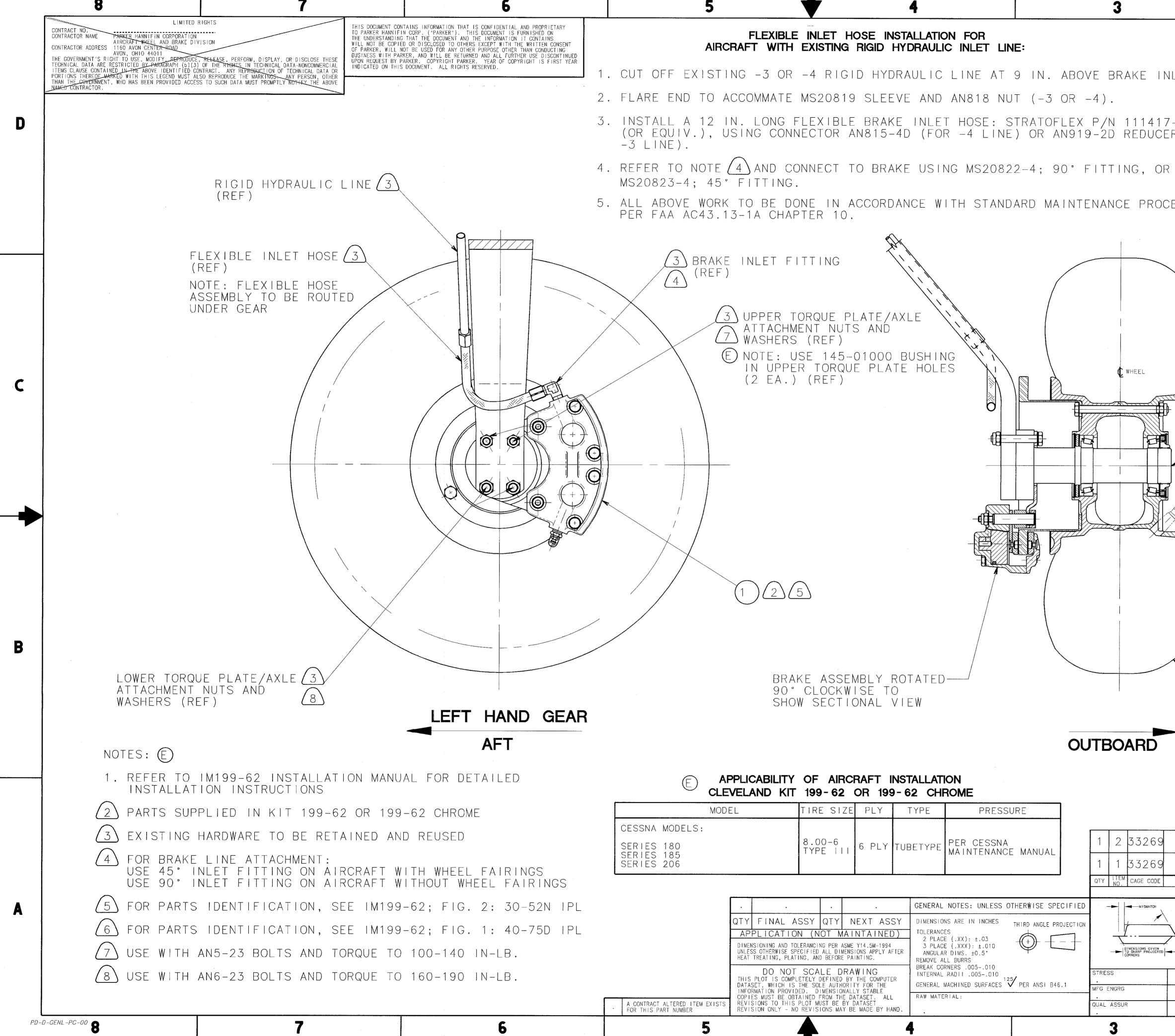
#### CESSNA AIRCRAFT MODEL SERIES 180, 185 & 206 6.00-6 EQUIPMENT

PART NUMBER	DRAWING REVISION	DESCRIPTION QUANTITY
30-52N 40-75D	Rev. F, dated 10-14-1999 Rev. K, dated 08-20-2011	Brake Assembly2Wheel Assembly2
	Publication Package	(P/N PP199-62)
IM199-62	Rev. A, dated 06-12-2001	Installation Manual
50-36	Rev. E, dated 02-26-1998	Installation Drawing
20-128	Rev. F, dated 02-26-1998	Wheel & Brake Assembly Drawing
SA63GL	Amendment dated 01-05-95	Supplemental Type Certificate (180, 185,and 206 Series Aircraft)
PRM13A		Product Reference Memo - "Conditioning Procedure for Non-Asbestos Organic Brake Lining"
		Pilot Operating Manual Inserts
		Product Registration Card

NOTES: 1. This kit will convert one aircraft to Cleveland Wheels and Brakes.	199-62 Rev. B Rev. C Rev. D Rev.E Rev.F Rev.G
2. For use with MIL-H-5606 hydraulic fluid.	07-15-1993 (C/N 308-76 04-21-1994 (DCN 0311-11) 02-26-1998 (DCN 0323-15) 06-12-2001 (DCN 0346-54) 06-05-2008 (DCN 0380-27) 10-31-2013 (ECO-0027796)



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SERIES 185 SERIES 206					1

4	3	DWG. NO. SHEET REV. 2	1
FLEXIBLE INLET HOSE INSTALLATION FOR CRAFT WITH EXISTING RIGID HYDRAULIC INLET LIN	E:	REVISION CHANGE REV DESCRIPTION OF CHANGE 0323-15 E REDRAWN ON CAD; SEE C/N	NS CHG CHK DATE APPROVED BY BY DATE APPROVED PMH BB 98-02-26 R. Hotto
ING -3 OR -4 RIGID HYDRAULIC LINE AT ACCOMMATE MS20819 SLEEVE AND AN818 NU IN. LONG FLEXIBLE BRAKE INLET HOSE: S JSING CONNECTOR AN815-4D (FOR -4 LINE	T (-3 OR -4).		
(4) AND CONNECT TO BRAKE USING MS2082 FITTING. TO BE DONE IN ACCORDANCE WITH STAND, 13-1A CHAPTER 10.			
3 UPPER TORQUE PLATE/AXLE			
ATTACHMENT NUTS AND WASHERS (REF) E NOTE: USE 145-01000 BUSHING IN UPPER TORQUE PLATE HOLES (2 EA.) (REF)	WHEEL	3 AXLE CESSNA P/N 1441003-	1 (REF)
		<ul> <li>AXLE NUT CESSNA P/N S1117-24</li> <li>COTTER PIN (REPLACE P/N MS24665-351 (RE</li> </ul>	)
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BRAKE ASSEMBLY ROTATED 90° CLOCKWISE TO SHOW SECTIONAL VIEW	OUTBOARD	TIRE (REF) REFER TO APPLICABILITY	CHART
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CLEVELAND WHEELS & BRAKES IM199-62 INSTALLATION MANUAL FOR CONVERSION KIT 199-62 FOR CESSNA SERIES 180, 185, 206





PARKER HANNIFIN CORPORATION - AIRCRAFT WHEEL & BRAKE 1160 Center Road - Avon, Ohio 44011 - Customer Service 1-800-Braking

## STOP!

PLEASE TAKE A FEW MOMENTS TO COMPLETE AND RETURN THE ATTACHED REGISTRATION CARD. IT IS IMPORTANT THAT ALL INFORMATION IS LEGIBLY PRINTED. THIS DATA WILL ASSIST PARKER HANNIFIN, AIRCRAFT WHEEL & BRAKE IN THE EVENT THAT NOTIFICATION TO END USERS OF SPECIFIC AIRWORTHINESS DOCUMENTS IS NECESSARY.



#### IM199-62 INSTALLATION MANUAL FOR CONVERSION KIT 199-62

#### TABLE OF CONTENTS

<b>SECTION</b>	SUBJECT	PAGE NO.
1.0	Introduction	1
1.1	Purpose	1
1.2	Kit Equipment	1
2.0	TSO Notice	1
3.0	Applicability	2
3.1	Kit 199-62	2
4.0	Safety	2
5.0	Product Registration	2
6.0	Order Information	3
7.0	Equipment Description	3
7.1	Brake Assembly	3
7.2	Wheel Assembly	4
8.0	Kit Installation	4
8.1	Remove Existing Equipment	4
8.2	Install Cleveland Equipment	4
8.3	Bleed Brakes	5
8.4	Brake Lining Conditioning	5
9.0	Weight and Balance Computations	5
9.1	Weight and Balance Data	6
10.0	Pilot Operating Manual Inserts	6
11.0	Illustrated Parts List - 40-75D Wheel Assembly	7
12.0	Illustrated Parts List - 30-52N Brake Assembly	8
13.0	Kit Parts List	9



#### IM199-62 INSTALLATION MANUAL FOR CONVERSION KIT 199-62

#### LIST OF REVISIONS

<u>RE\</u>	<u>/ISION</u>	DATE	PAGE	DESCRIPTION	APVD
I	NC	02-26-1998		Production Release Installation Instructions Cleveland Wheels & Brakes Conversion Kit 199-62	<b>BB</b> ( DCN 0323-15)
	A	06-12-2001	7 9	Add "40-75DGOLD" @ Item 1 Add "464-13601" @ Item 17 Add Note (4)	<b>BB</b> ( DCN 0346-54)



#### 1.0 INTRODUCTION

The information herein addresses the installation of a Cleveland Conversion Kit . It is published for the guidance of qualified maintenance personnel responsible for the installation of a Cleveland Conversion Kit , manufactured by Parker Hannifin Corporation, Aircraft Wheel and Brake.

#### 1.1 PURPOSE

This manual provides the necessary procedures to accomplish the installation of a Cleveland Conversion Kit. For information regarding service limits, maintenance and component overhaul, consult the Cleveland Wheels and Brakes <u>Component Maintenance Manual</u>, and the <u>Technician's Service Guide</u> (PRM 64), both published by Parker Hannifin, Aircraft Wheel and Brake. The manual and guide should be passed on to the owner or retained by the maintenance facility for future reference.

#### 1.2 KIT EQUIPMENT

Each kit contains all materials needed to replace existing equipment with Cleveland Wheels and Brakes. Kit 199-62 will completely retrofit one aircraft to Cleveland equipment. Refer to Kit Parts List.

#### 2.0 TSO NOTICE

The wheels and brakes used in this conversion kit carry a "TSO" marking which identifies them as having been fully laboratory tested and qualified to meet the applicable Federal Aviation Agency (FAA) specifications and requirements.

After final certification, substitution of critical parts or changes of processes or materials are not permitted without requalification of the assemblies and resubmittal of the test data to the FAA for approval.

FAA regulations subject both Parker Hannifin, Aircraft Wheel and Brake and the user to constant surveillance to assure that uncompromising Quality Assurance materials and processing controls are maintained in order to provide replacement parts that are the same as the parts originally certified in the assembly.



#### 3.0 APPLICABILITY

#### 3.1 KIT 199-62

The equipment supplied under Kit No. 199-62 is applicable to the following aircraft.

TABLE I, APPLICABILITY

# MAKE MODELS Cessna 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K Cessna 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F Cessna 206, P206, U206, U206F, U206G, TU206E, TU206E, TU206F, TU206G

#### 4.0 <u>SAFETY</u>

Always follow proper safety precautions when handling or servicing any aircraft braking system or component(s) of such systems.

**<u>CAUTIONS</u>** and <u>**WARNINGS**</u> are noted throughout this manual, where applicable. Follow them when servicing aircraft wheel and brake equipment.

#### 5.0 PRODUCT REGISTRATION

The product registration card is located at the front of this manual. The card is our way of tracking the conversion kits and your guarantee of receiving any future airworthiness information applicable to Conversion Kit No. 199-62. Please fill out the registration card completely and return promptly. Postage is prepaid.



#### 6.0 ORDER INFORMATION

To order spare parts, contact the nearest Parker Hannifin, Aircraft Wheel and Brake distributor in your area, or contact Aircraft Wheel and Brake at the following address or numbers:

Parker Hannifin Corporation Aircraft Wheel and Brake Attn: Customer Service Dept. 1160 Center Road Avon, Ohio 44011

Telephone: (440) 937-6211 1-800-272-5464

Fax: (440) 937-5409

**<u>NOTE</u>**: To order the Wheel and Brake Assemblies Component Maintenance Manual, contact Aircraft Wheel and Brake.

#### 7.0 EQUIPMENT DESCRIPTION

#### 7.1 BRAKE ASSEMBLY

The brake is a single caliper, 2 piston external disc design, with organic lining. It is suitable for use with brake fluid conforming to MIL-H-5606.

The cylinder contains the brake fluid which operates the pistons and pressure plate. Back plates are secured to the cylinder with bolts and washers on the opposite side of the brake disc. The back plates and pressure plate each hold brake linings. Two anchor bolts, attached to the cylinder with nuts and washers, slide or float in torque plate bushings. The torque plate is mounted to the landing gear axle. The caliper (cylinder assembly) is the assembly which includes the cylinder, pistons, back and pressure plates, linings and other related components.



#### 7.2 WHEEL ASSEMBLY

The wheel is cast magnesium and conforms to all tire and rim association standards for a 6.00-6 divided type wheel. It is a tube-type design only.

The wheel incorporates inboard and outboard halves which are fastened together with bolts, washers, and nuts. The brake disc is attached to the wheel by the bolts. The wheel rotates on two tapered roller bearings, which seat in bearing cups in the wheel half hubs. Felt grease seals provide protection and lubricant retention for the bearing.

#### 8.0 KIT INSTALLATION

#### WARNING: INSURE AIRCRAFT IS SECURE AND STABLE BEFORE BEGINNING ANY WORK. WORKING UNDER AN IMPROPERLY STABILIZED AIRCRAFT COULD CAUSE INJURY OR DEATH.

#### 8.1 REMOVE EXISTING EQUIPMENT

- a. Properly raise the aircraft off the ground following the airframe manufacturer's instructions. <u>Fully deflate tire</u>.
- b. Remove and retain axle nut.
- c. Remove existing main landing gear wheels.
- d. Disconnect lower hydraulic line (existing flexible inlet hose or rigid inlet line) at brake inlet fitting and cap line.
- e. Remove and retain inlet fitting from existing brake assemblies.
- f. Remove existing brake assemblies from axle.

#### 8.2 INSTALL CLEVELAND EQUIPMENT

- a. Install Torque Plate on axle using hardware specified. Use 145-01000 bushing (2 ea.) on upper torque plate/axle hole locations. Refer to 50-36 Installation Drawing.
- b. Check tire inflation pressure. Carefully inflate if not to specified level.
- C Check to be sure wheel bearings are installed and lubricated, and grease seals are installed.
- d. Carefully slide wheel/tire assembly onto axle making sure inboard bearing is seated.



#### 8.2 INSTALL CLEVELAND EQUIPMENT (Cont'd)

- e. Install axle nut. Axle nut torquing procedures vary considerably. The following procedure is based on the best available service information. Torque axle nut using value specified in aircraft manual or the following:
  - 1. Rotate the wheel/tire while tightening axle nut to 150-200 in-lbs. (16.9 to 22.6 Nm) to seat the bearing.
  - 2. Back off axle nut to zero torque.
  - 3. Tighten axle nut 30-40 in-lbs. (3.4 to 4.5 Nm) while rotating wheel/tire.
  - 4. Rotate axle nut (clockwise or counterclockwise) to nearest axle slot and cotter pin hole, and insert cotter pin. Bend ends of cotter pin around axle nut.
    - **NOTE**: Wheel must rotate freely without perceptible play.
- f. Remove Backplate Assembles from Brake Assembly. Install Brake Assembly on Torque Plate. Re-assemble Backplate Assemblies and "Dry" torque bolts to 85-95 in-lbs.
- g. Install existing brake inlet fittings to Cleveland Brake Assemblies.
- h. Re-connect lower hydraulic inlet hose at the brake inlet fitting.
  - **<u>NOTE</u>**: If existing brakes were equipped with a rigid inlet line, convert to a flexible inlet hose. See 50-36 Installation Drawing for flexible inlet hose installation.

#### 8.3 BLEED BRAKES

Check brake system reservoir fluid level and bleed brakes per airframe manufacturer's maintenance manual.

**NOTE**: Wheels should rotate freely. There should be no evidence of binding or excessive Brake drag.

**<u>CAUTION</u>**: CHECK FOR POSSIBLE INTERFERENCE PECULIAR TO INDIVIDUAL AIRCRAFT.

#### 8.4 BRAKE LINING CONDITIONING

When new linings are installed, it is important to condition them properly to obtain the service life designed into them. Condition linings per attached product reference memo PRM 13A.



#### 9.0 WEIGHT AND BALANCE COMPUTATIONS

Weigh existing wheels and brakes. Subtract from new weights to derive weight increase created by the kit installation. Multiply weight increase by applicable aircraft moment and revise weight and balance information in log book.

#### 9.1 WEIGHT AND BALANCE DATA

New installed (per gear leg)

 Wheel assy......
 7.25 lbs.

 Brake assy......
 <u>3.02 lbs.</u>

 Total......
 10.27 lbs.

Complete form 337 and make appropriate log book entries.

#### 10.0 PILOT OPERATING INSERTS

Inserts are located in front with conversion kit documentation.

Attach label in pilot operating manual as close as possible to the original section labeled <u>Main</u> <u>Wheel Assembly</u>. Enter the correct arm and moment in blocks provided. Zero items out for the original main wheel and brake assemblies that have been removed.

Inserts are reprinted below for reference:

х	Two dual piston, single disc Brake Assemblies,	3.02 ea.
	Cleveland P/N 30-52N	
х	Two 6.00-6 Type III Wheel Assemblies,	7.25 ea.
	Cleveland P/N 40-75D	

Cleveland Brake Assembly P/N 30-52N is a single caliper, single fixed disc design, using two pistons per caliper which respond to fluid pressure from the master cylinders for brake application.



NOTES:

(3) Not Illustrated

(1) Supersedes 164-03600 Per PRM61(2) Supersedes 164-13600 Per PRM61

#### 11.0 WHEEL ASSEMBLY IPL

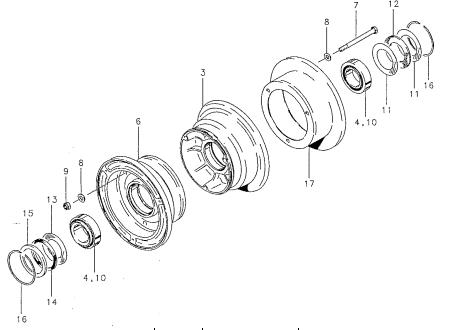
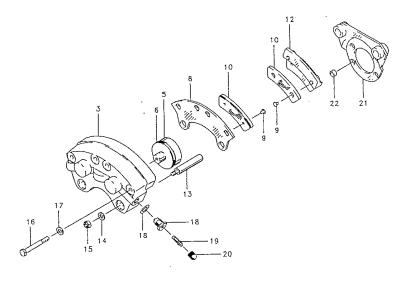


FIG.	PART NUMBER	DESCRIPTION	QTY.
	40-75D	Wheel Assembly	
	40-75DCHROME	Wheel Assembly	
1	40-75DGOLD	Wheel Assembly	1
2	161-03000	Inner Wheel Half Assembly	1
3	151-02600	Inner Wheel Half	1
4	214-00100	Cup-Bearing	1
5	162-02700	Outer Wheel Half Assembly	1
6	152-02400	Outer Wheel Half	1
4	214-00100	Cup-Bearing	1
7	103-20400	Bolt AN5-35A	3
8	095-10700	Washer AN960-516L	3
9	094-10400	Nut MS21044-N5	3
10	214-00200	Cone-Bearing	2
11	153-00400	Ring-Grease Seal	2
12	154-00300	Felt-Grease Seal	1
13	153-00300	Ring-Grease Seal	1
14	154-01300	Felt-Grease Seal	1
15	153-01500	Ring-Grease Seal	1
16	155-00100	Snap Ring	2
	164-03601	Brake Disc (1)	
	164-13601	Brake Disc, Chrome (2)	
17	464-13601	Brake Disc, Performance Gold	1
18	166-02100	Nameplate (3)	1
19	166-04500	Nameplate (3)	1

#### FIGURE 1 ILLUSTRATED PARTS LIST (IPL) FOR 40-75D WHEEL ASSEMBLY



#### 12.0 BRAKE ASSEMBLY IPL



	PART		
FIG.	NUMBER	DESCRIPTION	QTY.
1	30-52N	Brake Assembly	1
2	091-02100	Cylinder Assembly	1
3	061-01800	Cylinder	1
4	092-01600	Piston Assembly	2
5	062-01500	Piston	2
6	101-02700	O-Ring MS28775-222	2
7	073-01000	Pressure Plate Assembly	1
8	063-01100	Pressure Plate	1
9	105-00200	Rivet	4
10	066-10500	Lining	2
11	074-01000	Back Plate Assembly	2
12	064-01500	Back Plate	2
9	105-00200	Rivet	4
10	066-10500	Lining	2
13	069-00400	Anchor Bolt	2
14	095-10200	Washer AN960-416L	2
15	094-10300	Nut MS21044-N4	2
16	103-11800	Bolt ABP4-21AM	4
17	095-10400	Washer AN960-416	4
18	081-00100	Seat-Bleeder	1
19	079-00300	Screw -Bleeder	1
20	183-00100	Cap-Bleeder	1
21	075-05401	Torque Plate Assembly	1
22	145-01000	Bushing	2
23	166-20100	Nameplate (1)	1

NOTES: (1) Not Illustrated

#### FIGURE 2 ILLUSTRATED PARTS LIST (IPL) FOR 30-52N BRAKE ASSEMBLY



#### 13.0 KIT PARTS LIST

#### 199-<mark>62</mark> KIT (3)

SEE <u>NOTE</u>	PART NUMBER	DESCRIPTION	QUANTITY
(1) (2)	40-75D 30-52N	Wheel Assembly Brake Assembly	2 2
	IM199- <mark>62</mark>	Installation Manual for Conversion Kit 199- <mark>62</mark>	1
	50- <mark>36</mark>	Installation Drawing	1
	20-128	Wheel and Brake Assy Drawing	1
	SA63GL	Supplemental Type Certificate (180, 185, 206 Series)	1
	PRM13A	Conditioning Procedure for Non Asbestos Organic Brake Lining	1
		Pilot Operating Manual Inserts	1
		Product Registration Card	1

(1) For Subassembly and Parts identification: See Fig 1; 40-75D IPL

(2) For Subassembly and Parts identification: See Fig 2; 30-52N IPL

(3) 199-62CHROME is identical except for chrome brake disc: see Fig. 1; 40-75D IPL

(4) 199-62GOLD is identical except for Performance Gold Brake Disc: see Fig. 1; 40-75D IPL



Wheels & Brakes

Parker Hannifin Corporation Aircraft Wheel & Brake 1160 Center Road Avon, Ohio 44011 USA 1-800-BRAKING (272-5464) 216-937-1272 • FAX 216-937-5409

## PRODUCT REFERENCE MEMO

#### CONDITIONING PROCEDURE FOR NON ASBESTOS ORGANIC BRAKE LINING

The brake lining material used in this brake assembly is a non asbestos organic composition. This material must be properly conditioned in order to provide maximum performance and service life.

Conditioning may be accomplished as follows:

- 1. Taxi aircraft for 1500 feet with engine at 1700 rpm applying brake pedal force as needed to develop a 5 10 mph taxi speed.
- 2. Allow brakes to cool for 10 15 minutes.
- 3. Apply brakes and check to see if a high throttle static run up may be held with normal pedal force. If so, conditioning is completed.
- 4. If static run up cannot be held, repeat steps 1 through 3 as needed to successfully hold.

This conditioning procedure will generate sufficient heat to create a thin layer of glazed material at the lining friction surface. Normal brake usage should generate enough heat to maintain the glaze throughout the life of the lining.

Light brake usage can cause the glaze to wear off, resulting in reduced brake performance. In such cases, the lining may be conditioned again following the instructions set forth in this PRM.





Parker Hannifin Corporation Aerospace/Aircraft Wheel & Brake 1160 Center Road Avon, OH 44011

Date: \_ \_/\_ \_/20\_ \_

Subject: Letter of Authorization for Installation of STC'd Conversion Kits

To whom it may concern:

Parker Hannifin Corporation, Aircraft Wheel & Brake Division, hereby states that the following item(s):

KIT NUMBER: 199-\_\_\_\_\_

FAA APPROVAL: 1) STC # \_\_\_\_\_

NO OTHER APPROVALS NECESSARY

AUTHORIZATION TO INSTALL: With the sale of this STC KIT, OWNER of the Supplemental Type Certificate agrees to permit the buyer or buyer's agent or agency to use the certificate to alter the product under the terms and conditions of this STC.

A/C MAKE:

A/C MODEL\_\_\_\_\_

TAIL # \_\_\_\_\_

Regards,

Technical Support Team Technical Hotline (800) 272-5464 <u>Clevelandwbhelp@parker.com</u> Web-site: <u>www.clevelandwheelandbrake.com</u> Manufacturer of Cleveland Wheels & Brakes

### United States of America Department of Transportation—federal Aviation Administration Supplemental Type Certificate

Number

This certificate, issued to

SA63GL Aircraft Wheel and Brake Division Parker Hannifin Corporation 1160 Center Road Avon, Ohio 44011

certifies that the change in the type design for the following product with the limitations and conditions

therefor as specified hereon meets the airworthiness requirements of Part of the \*

Regulations.

Original Product \_\_ Type Certificate Number \* Make \* Model \* \*See attached FAA Approved Model List (AML) No SA63GL for list of approved airplane models and applicable airworthiness regulations

Description of Type Design Change Installation of Cleveland Main Wheels and Brakes in accordance with Parker Hannifin Corporation Conversion Kit Parts Lists 199-62, Revision C, dated April 21, 1994, and P/N 199-62A, Revision A, dated April 21, 1994, or later FAA approved revisions.

Similations and Genditions 1. This kit is eligible only on Cessna axle P/N's 9541124 and 1441003-1. 2. This installation is not eligible for use on aircraft equipped with the optional crosswind (castering) landing gear 3. Compatibility of this design change with previously approved modifications must be determined by the installer 4. A copy of this certificate and FAA Approved Model List (AML) No. SA63GL amended January 5, 1995, or later FAA approved revision must be maintained as part of the permanent records for the modified aircraft

This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

rendered, suspended, reveked, or a termination date is otherwise established by the Administrator of the

Federal Aviation	Idministration					
Gate of application	5/22/74	Date reissued	10/28/80			
Date of issuance	8/6/74	Date amended	10/25/74, 4/1/81, 1/5/95			
24 * L0 * L0	AVIATION TAVIATION	By direction of Thome O Thomas J. Richter, I Systems & Equipme	the Administrator The Administrator Manager M			
W.C.	WISTRATIO	Chicago Aircraft Certification Office				

(Tille)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21-47

	AML	AMENDMENT				
, 1974	V					
ISSUE DATE: August 6, 1974	AFM	SUPPLEMENT NUMBER/DATE	N/A	N/A	N/A	Thomas J. Richter, Manager Systems & Equipment Branch Chicago Aircraft Certification Office 1/5/95
	INSTALLATION INSTRUCTIONS	NUMBER NO. & DATE	C, 4-21-94 A, 4-21-94	C, 4-21-94 A, 4-21-94	C, 4-21-94 A, 4-21-94	FAA Approved: 7 Active of Richter, Manager Thomas J. Richter, Manager Systems & Equipment Branc Chicago Aircraft Certificatio Amended: <u>1/5/95</u>
		NUMBER	Conver- sion Kit Parts List No. 199-62 or 199-62A	Conver- sion Kit Parts List No. 199-62 or 199-62A	Conver- sion Kit Parts Líst No. 199-62 or 199-62A	FAA Approved:- <u>7</u> Thoma System Chicag Amended: <u>1/5/95</u>
	CERTIFICATION BASIS	FOR ALTERATION	CAR 3 and Amendments listed in TCDS No. 5A6	CAR 3 and Amendments listed In TCDS No. 3A24	CAR 3 and Amendments listed in TCDS No. A4CE	Page 1 of 1
	ORIGINAL TYPE	CERTIFICATE NUMBER	5A6	3A24	A4CE	
		AIRCRAFT MODEL	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	206, P206, U206, U206G, U206G, TU206E, TU206G	
		AIRCRAFT MAKE	Cessna	Cessna	Cessna	
		ITEM	event	0	m	

FAA APPROVED MODEL LIST (AML) NO. SA63GL PARKER HANNIFIN CORPORATION INSTALLING CLEVELAND MAIN WHEELS AND BRAKES