

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

FOR FAA USE ONLY
OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE <i>CESSNA</i>	MODEL <i>A185F</i>
	SERIAL NO. <i>18502213</i>	NATIONALITY AND REGISTRATION MARK <i>N3946Q</i>
2. OWNER	NAME (As shown on registration certificate) <i>PAUL MENNEN</i>	ADDRESS (As shown on registration certificate) <i>756 CLARA DR. PALO ALTO, CA 94303</i>

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS <i>VERN MILLER 200 FORD RD, SP 254 SAN JOSE, CA 95138</i>	B. KIND OF AGENCY <input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. <i>APP 193877A</i>
---	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE <i>5-8-84</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Vern R. Miller</i>
-----------------------	---

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA FIT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION <i>5-8-84</i>	CERTIFICATE OR DESIGNATION NO. <i>193877A</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Vern R. Miller</i>
--	--	---

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed McCauley wheels & brakes.
Installed Cleveland wheel & brake
conversion kit P/N 199-62 in accordance
with STC SA636L. No change to
wt & balance.

end

ADDITIONAL SHEETS ARE ATTACHED

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

Number SA63GL

This certificate, issued to Cleveland Wheels & Brakes
Division of VanSickle Industries, Inc.
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 3 of the Civil Air Regulations.

Original Product — Type Certificate Number: A4CE, 5A6, 3A24

Make: Cessna

Model: 180, 180A, 180B, 180C, 180D, 180E, 180F,
180H, 180J, 185, 185A, 185B, A185E, A185F,
206E, 206F, TU206E, and TU206F

Description of Type Design Change:

Install Cleveland Wheel and Brake Conversion Kit P/N 199-62 in accordance with Cleveland Installation Drawing 50-36 dated May 2, 1974, and 20-128 Revision D dated May 19, 1968.

1. This kit is eligible only on Cessna axle P/N's 0541124 and 1441003-1.

Limitations and Conditions: 2. This installation is not eligible for use on aircraft equipped with the optional crosswind (castering) landing gear.
3. This installation applies only to aircraft equipped with 8.00x6 tires.
4. This STC approval should not be incorporated in any aircraft of this specific model on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 22, 1974

Date issued:

Date of issuance: August 6, 1974

Date amended: October 25, 1974



By direction of the Administrator

Keith D. Anderson
KEITH D. ANDERSON (Signature)

Chief, Engineering and Manufacturing Branch,
Great Lakes Region AGL-210

(Title)

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.

CLEVELAND AIRCRAFT PRODUCTS

PARTS LIST

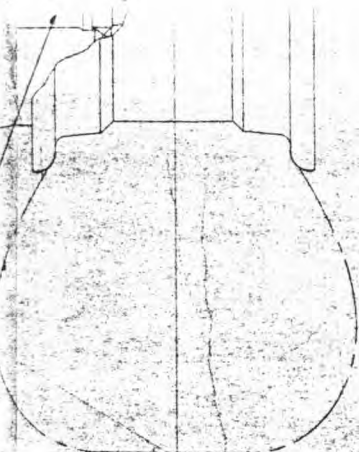
199-62 CONVERSION KIT FOR CESSNA AIRCRAFT

MODEL SERIES 180, 185, 206

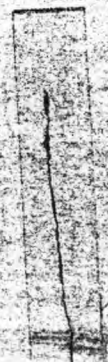
<u>Cleveland Part Number</u>	<u>Cessna P/N</u>	<u>Description</u>	<u>Qty.</u>
40-75D	C163001-0302	Wheel Assembly 6.00 x 6 Type III	2
30-52N	C163030-0313/0314	Brake Assembly	2
50-36		Installation Instruction 180, 185, 206 Series	1
SA63GL		Supplemental Type Certificate (180, 185, 206 Series)	1

This kit will convert one aircraft to
Cleveland Wheels and Brakes

1. WHEELS SHALL BE TESTED IN FIELD
 NO EVIDENCE OF BONDING OR EXCESSIVE WEAR
 B. CHECK FOR POSSIBLE INTERFERENCE PECULIAR
 TO INDIVIDUAL AIRCRAFT



VIEW A FROM A/C NOSE
 LOOKING AFT



REFERENCE
 PRINT ONLY
 PARKER HANNIFIN CORP.
 ENG. JAN 09 1984 DEPT.
 AVON, OHIO
 DO NOT USE
 FOR PRODUCTION

THIS DESIGN IS THE PROPERTY OF PARKER-HANNIFIN CORP.
 VEHICLE DIVISION AND IS NOT TO BE COPIED, DUPLICATED
 OR USED AS THE BASIS FOR MANUFACTURE OR SALE OF EQUIP-
 MENT WITHOUT OUR WRITTEN PERMISSION.

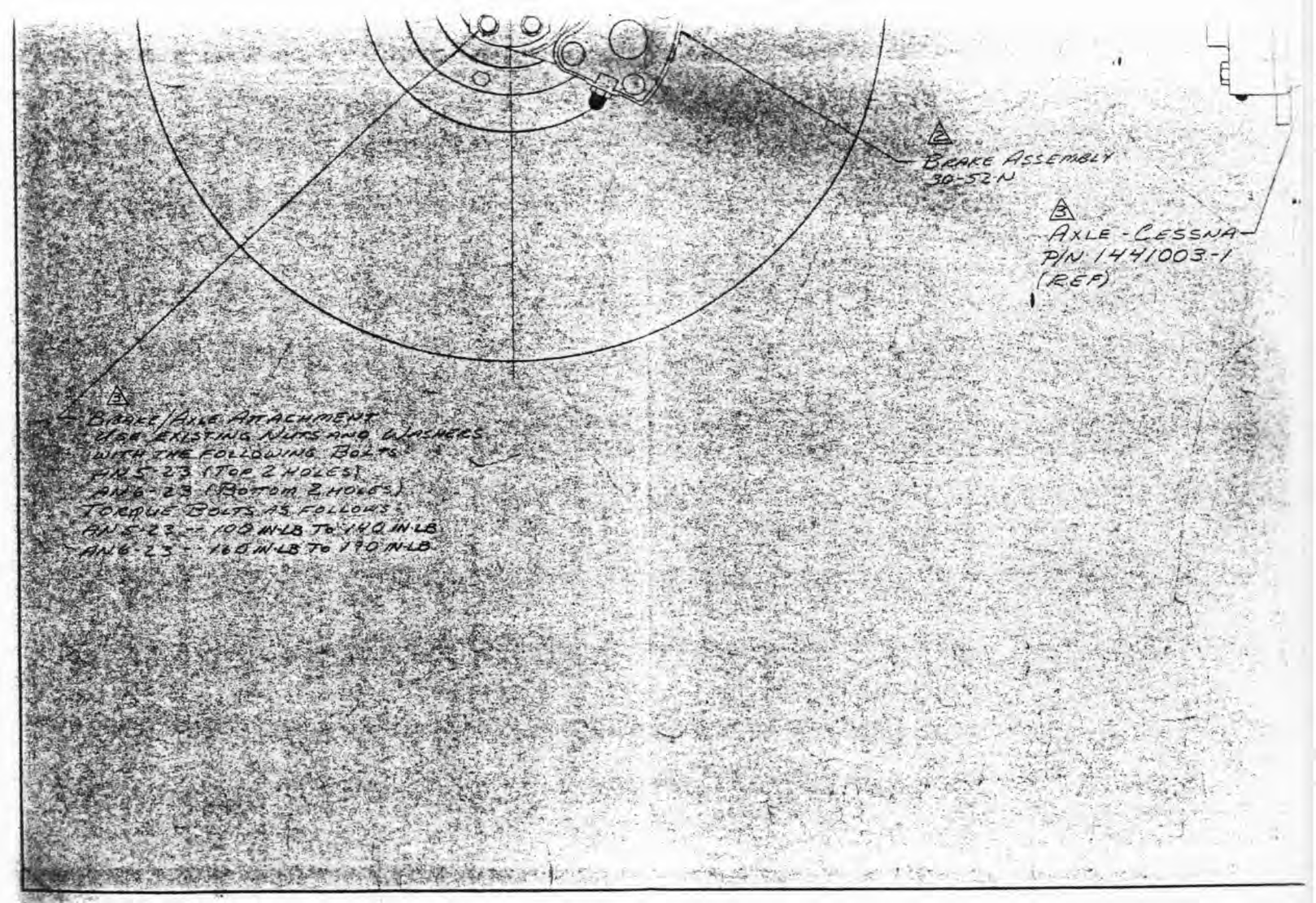
WHEEL & BRAKE CONVERSION
 FOR CESSNA 180, 185 AND 206
 EQUIPPED WITH 8.00x6 TIRES

WORK TO DIMENSIONS - DO NOT SCALE
 ALL DIMENSIONS IN INCHES
 UNLESS OTHERWISE SPECIFIED
 TOLERANCE FOR SIZE $\pm .010$
 TOLERANCE FOR HOLE $\pm .030$
 TOLERANCE FOR ANGULAR DIMS. $\pm .1^\circ$
 TOLERANCE FOR PRACT. DIMS. $\pm 1/32"$
 BREAK SHARP EDGES - REMOVE ALL BURRS

NEXT ASSEMBLY	USED ON	NEXT ASSEMBLY	FINAL
APPLICATION		QUANTITY REQ'D	

DRAWN BY P. 12/12	MATERIAL	SURFACE TREATMENT
CHECKED BY	HEAT TREAT	PATTERN, FORGING OR BLANK NO.

WT
 SCALE
 NAME
 CLEVELAND AIRCRAFT PRODUCTS
 A DIVISION OF
VAN SICKLE INDUSTRIES INC.
 AVON, OHIO
 CLEVELAND WHEEL 50-5



A technical drawing of a brake assembly, showing a semi-circular component with a central hub and several mounting holes. A vertical centerline is drawn through the hub. A callout line points from the text 'BRAKE ASSEMBLY 30-52 N' to a specific hole on the right side of the assembly. Another callout line points from the text 'AXLE-CESSNA PIN 1441003-1 (REF)' to a hole on the right side of the assembly. A third callout line points from the text 'BRAKE/AXLE ATTACHMENT' to the central hub area.

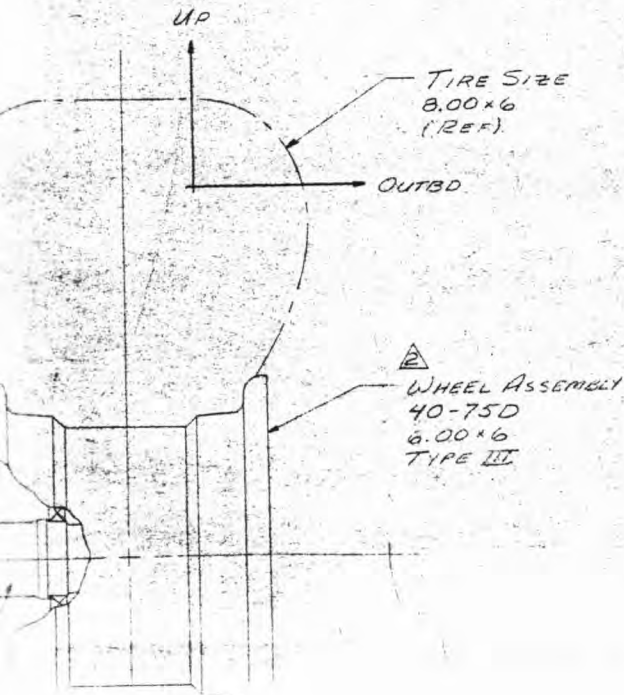
△
BRAKE ASSEMBLY
30-52 N

△
AXLE-CESSNA
PIN 1441003-1
(REF)

△
BRAKE/AXLE ATTACHMENT
USE EXISTING NUTS AND WASHERS
WITH THE FOLLOWING BOLTS
AN5-23 (TOP 2 HOLES)
AN6-23 (BOTTOM 2 HOLES)
TORQUE BOLTS AS FOLLOWS
AN5-23 - 100 IN-LB TO 140 IN-LB
AN6-23 - 160 IN-LB TO 190 IN-LB


NOTES:

1. THIS INSTALLATION APPLIES TO CESSNA MODEL SERIES 180, 182 AND 206 EQUIPPED WITH 8.00x6 TIRES.
- △ COMPONENTS SUPPLIED BY CLEVELAND AIRCRAFT PRODUCTS
- △ COMPONENTS NOT SUPPLIED WITH CLEVELAND CONVERSION KIT.
4. FOR INSTALLATION ON AIRCRAFT WITH WHEEL FAIRINGS USE AN 9/15-ID FITTING FOR BRAKE LINE ATTACHMENT.
FOR INSTALLATION ON AIRCRAFT WITHOUT WHEEL FAIRINGS USE AN 9/14-ID FITTING FOR BRAKE LINE ATTACHMENT.



INSTALLATION PROCEDURE

1. REMOVE EXISTING MLG WHEELS & BRAKES
2. INSTALL TORQUE PLATE ON AXLE USING HARDWARE SPECIFIED
3. INSTALL 40-75D WHEEL ON AXLE. INSTALL AXLE NUT WHILE ROTATING THE WHEEL, HAND TIGHTEN AXLE NUT TO PROPERLY SEAT BEARINGS. WHEN BEARINGS ARE SEATED HAND TIGHTEN NUT UNTIL IT STOPS, BACK OFF AXLE NUT TO THE NEAREST HOLE AND INSERT COTTER PIN. (REF. DWG. 20-128).
4. REMOVE BACK PLATES FROM CYLINDER. INSTALL CYLINDER ON TORQUE PLATE. RE-ASSEMBLE BACK PLATES AND TORQUE BOLTS TO 60" N.L.B.
5. ROUTE BRAKE LINE PER DWG. 50-36 AND CONNECT TO FITTING. AN 9/14-ID (WITHOUT FAIRING) -- AN 9/15-ID (WITH FAIRING).
6. UPON COMPLETION OF INSTALLATION - PRESSURIZE BRAKES AND BLEED SYSTEM.
7. WHEELS SHOULD ROTATE FREELY. THERE SHOULD BE NO EVIDENCE OF BINDING OR EXCESSIVE BRAKE DRAG.
8. CHECK FOR POSSIBLE INTERFERENCE PECULIAR TO INDIVIDUAL AIRCRAFT.

REF. 
HYDRAULIC LINES:
ESSNA FN 12B0506-145 (L.H.)
ESSNA FN 12B0506-144 (R.H.)
ESSNA FN 51B10-800 (HOSE ASSY)
NOTE:
FLEXIBLE HOSE ASSEMBLY TO
BE ROUTED UNDER GEAR.

