#### **INSTRUCTIONS FOR INSTALLATION**

### OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS

#### AND C-4558-() SPINNERS ON

### PIPER PA-34-200T SENECA II & PA-34-220T - SENECA III

#### STC SA649GL

#### LOG OF REVISIONS

Revision	Revised	Description of Revision	FAA	Date
	Pages		Approved	
A	2	Sheet 2 (installation sketch) redrawn		11/4/1996
В	1-6	Page 1:  Added "PA-34-200T Seneca II;  Replaced "Electrical System" with "General Arrangement Drawing, Prop de-ice";  Removed "Report No. 70-04-700C Installation Manual";  Removed "Report No. 68-04-712C Maintenance Manual";  Added "(ATA 30-60-02) Installation and Maintenance Manual";  Removed "H" from "Report No. 68-04-714H"  Added "(ATA 30-60-01)" & "Brush Block";  Added "(P)" to spinner assembly, two places;  Removed S/N restriction (to add Seneca II)  Page 2: Incorporated Drawing B-4061, Rev. D  Page 3:  Added "PA-34-200T - Seneca II";  Added "and PA-34-200T";  Removed "Serial number 34-8133001 and up"  Page 4:  Added "PA-34-200T - Seneca II";  Added "Piper PA-34-200T - Seneca II";  Added "(P)" to D-4560-2  Page 5:  Added "Piper PA-34-200T - Seneca II";  Added "(P)" to C-4558-3(P);  Added "Piper PA-34-200T - Seneca II";  Added "Piper PA-34-		4/29/1997
С		Complete re-write. Removed drawings and references from BOM that are not sent with kit. Harmonized procedures with STC SA1118SO.		
D	2 (	Update affectivity table to include new de-ice hardware kit		
	5   1	drawing. Add Tech Support contact information. ncorporate use of de-ice kit drawing 102600 into installation nstructions		

NOTE: All changes are indicated by a black vertical line along the left margin.

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

NOTE: All changes are indicated by a black vertical line along the left margin.

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

Please read these instructions before starting installation. If you have any questions regarding installation of this STC, please contact Hartzell Propeller at:

Phone: (937) 778-4379 or 1-800-942-7767 E-mail: techsupport@hartzellprop.com

#### **BILL OF MATERIALS**

-4	-3	-2	-1	Part Number	Part Name
1	1	1	1	Drawing B-4061	Installation Instructions
1	1			Goodrich Drawing 7E1431	Electrical De-Ice Installation Drawing
1**	1**			102600()	De-ice Hardware Kit (See Note **2)
1	1	1_	1	Hartzell Manual 115N	Propeller Owner's Manual
<u> </u>				-4 Installation	Right Engine, Deicing
				-3 Installation	Left Engine, Deicing
				-2 Installation	Right Engine, Non-Deicing
				-1 Installation	Left Engine, Non-Deicing
1		<del></del>		PHC-C3YF-2LKUF / FJC7453K	Propeller Assembly
	1			PHC-C3YF-2KUF / FC7453K	Propeller Assembly
		1		PHC-C3YF-2LKUF / FJC7453	Propeller Assembly
			1	PHC-C3YF-2KUF / FC7453	Propeller Assembly
1	1	1	1	C-4558-3(P)	Spinner Assembly
1*		1*		Hartzell U-8-8L or Hartzell E-8-7L	Governor Assembly
1		1		Hartzell U-3-8L or Hartzell E-3-7L	Right Engine Governor Assembly
	1		1	Hartzell U-3-8 or Hartzell E-3-7	Left Engine Governor Assembly

Notes: \* 1) Aircraft equipped with Hartzell synchrophaser only

\*\*2) De-ice kit dependent on propeller model being upgraded from as shown below:

	Applicable De-ice hardware kit
Aircraft OEM Propeller	
2 Blade Hartzell	102600-3
3 Blade McCauley	102600-4

### INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

#### **GENERAL**

Hartzell three-bladed propellers may be installed on the Piper PA-34-200T and PA-34-220T aircraft using the (L)TISO-360-KB engines. The aircraft may be factory equipped with or without the optional airframe mounted propeller deicing equipment, with or without propeller snychrophasers. When installing this STC on the PA-34-200T, the aircraft must have been previously modified by STC SA1797NM to install the (L)TSIO-360-KB engines.

Each combination of factory installed options that are related to the propeller requires specific instructions and Bills of Material for Supplemental Type Certificate modification to the three-bladed Hartzell propeller.

#### Propeller and Propeller Limits

#### Left Engine

1 Hartzell, Hub Model PHC-C3YF-2KUF Blade Model FC7453 or FC7453K

#### Right Engine

1 Hartzell, Hub Model PHC-C3YF-2LKUF Blade Model FJC7453 or FJC7453K

#### Pitch Setting at 30" Station

High 80° to 82° (Feathered), Low 9.5° ± 0.2°

Diameter: Not over 76", not under 75"

Spinner: Hartzell Part Number C-4558-3 Left and Right Hand

Governor Assembly:

- Hartzell Hydraulic Governor Model E-3-7 or U-3-8 (Left)
- 1 Hartzell Hydraulic Governor Model E-3-7L or U-3-8L (Right)
- Hartzell Hydraulic Governor
  Model E-8-7L or U-8-8L (Right with Synchrophaser)
  Installation, Piper Drawing 36890 or 87719

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

### NON-DEICING PROPELLER INSTALLATION (B-4061-1 and -2 installations)

- 1. Read and familiarize yourself with the propeller installation procedures provided in Section 3 of Hartzell Manual 115N (Propeller Owner's Manual). Reference instructions for "Installation of "F" Flange Propellers."
- Install the spinner bulkhead unit before installing the propeller on the engine crankshaft. The A-2476-9 spinner mounting kit hardware is installed on factory-delivered propellers. Reference "Spinner Pre-Installation" instructions in Hartzell Manual 115N. Torque spinner mounting nuts to the appropriate torque specified in the Manual 115N table.
- 3. Remove the top spark plug from #6 cylinder.
- 4. Rotate the engine crankshaft until #6 cylinder is on approximate top dead center. This will position the dowel pin holes on the crankshaft flange at 12 o'clock and 6 o'clock.
- 5. Ensure the propeller shaft O-ring is properly seated before mounting the propeller.
- 6. Align and install the appropriate propeller with one blade oriented straight-up, in-line with the top engine case split line.
- 7. Complete installation of propeller mounting hardware per "Installation of "F" Flange Propellers" in Hartzell Manual 115N.
- 8. Continue with Step 11 in the "DEICING PROPELLERS INSTALLATION" section to complete installation.

# !NSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

### DEICING PROPELLERS INSTALLATION (B-4061-3 and -4 Installations)

- Read and familiarize yourself with the propeller installation procedures provided in Section 3 of Hartzell Manual 115N (Propeller Owner's Manual). Reference instructions for "Installation of "F" Flange Propellers."
- 2. Install the spinner bulkhead unit before installing the propeller on the engine crankshaft. The A-2476-9 spinner mounting kit hardware is installed on factory-delivered propellers. Reference "Spinner Pre-Installation" instructions in Hartzell Manual 115N. Torque spinner mounting nuts to the appropriate torque specified in the Manual 115N table.

**NOTE:** Use parts list/bill of materials on kit drawing 102600 in lieu of parts list on Goodrich drawing 7E1431.

- 3. Reference Goodrich Drawing 7E1431 and Hartzell kit drawing 102600. Install Slip Ring Assembly P/N 4E2422 and Mounting Plate P/N 4E3153 on the engine flange in accordance with Drawing 7E1431 with kit hardware specified on Hartzell drawing 102600. Install 1 each item 17 washer (not shown on Goodrich Drawing 7E1431) between item 15 plate and item 18 nut. It is recommended to loosely fasten the mounting plate and slip ring together with item 14 to facilitate alignment of the mounting plate holes with the propeller mounting studs.
- 4. If converting from a two blade propeller installation, remove and replace ammeter, shunt, timer, circuit breaker and associated hardware. Install new components in same location as previously installed. Modify aircraft wiring as required per Goodrich Drawing 7E1431 note 3.
- 5. Remove the top spark plug from #6 cylinder.
- 6. Rotate the engine crankshaft until #6 cylinder is on approximate top dead center. This will position the dowel pin holes on the crankshaft flange at 12 o'clock and 6 o'clock.
- 7. Ensure the propeller shaft O-ring is properly seated before mounting the propeller.

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

- 8. Rotate the Slip Ring Assembly as necessary to align the lead wires with the de-ice wire screw holes in the spinner bulkhead before installing the propeller and torquing the propeller mounting nuts.
- 9. Align and install the appropriate propeller with one blade oriented straight-up, in-line with the top engine case split line.
- 10. Complete installation of propeller mounting hardware per "Installation of "F" Flange Propellers" in Hartzell Manual 115N.

**NOTE:** Torque the mounting plate-to-slip ring nuts after the propeller is installed on the engine crankshaft but before torquing the propeller mounting nuts.

- 11. Reference Goodrich Drawing 7E1431. Install all Goodrich de-icing components on the spinner bulkhead including the slip ring wire leads and de-ice boot wire leads to the screw-post. Fasten de-icer boot wire leads with clamps and tie-straps as shown on drawing 7E1431.
- 12. Install spinner dome and complete spinner installation per Hartzell Manual 115N Spinner Installation Section 3.6. Based on the dome configuration, use the appropriate installation procedure for single-piece spinner dome for spinners with no dome cap, or two-piece spinner dome (Procedure 2) for spinners with a dome cap.
- 13. Remove RPM restriction placards from instrument panel (Cross wind restriction and/or MP-RPM restriction).
- 14. Attach Hartzell P.O.H. Supplement No. B-4061 to the existing FAA Approved Airplane Flight Manual.

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

15. Apply the following weight and moment corrections to the weight and balance records based on the propeller configuration replaced:

For Replacing	ı Hartzell	Two-Blade	<b>Propellers</b>
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Items Installed on the Aircraft	Weight a	<u>ın</u> d Balance	Change
	Wt. (lb)	Arm (in)	Moment (lb-in)
PHC-C3YF-2KUF/FC7453 and PHC-C3YF-2LkFU/FJC7453	+50	20.3	+1015
PHC-C3YF-2KUF/FC7453K and PHC-C3YF-2LKUF/FJC7453K	+54.6	20.3	+1108
C-4558-( ) Spinners	No si	gnificant ch	ange

For Replacing McCauley Three-Blade Propellers

Items Installed on the Aircraft	Weight a	and Balance	e Change
	Wt. (lb)	Arm (in)	Moment (lb-in)
PHC-C3YF-2KUF/FC7453 and PHC-C3YF-2KLFU/FJC7453	+19.5	20.3	+396
PHC-C3YF-2KUF/FC7453K and PHC-C3YF-2LKUF/FJC7453K	+24.5	20.3	+497
C-4558-( ) Spinners	No si	gnificant ch	nange

If Governors Are Replaced

Items Installed on the Aircraft	Weight a	nd Balance	e Change
E-3-7 or U-3-8 (Left) E-3-7L or U-3-8L (Right)	Wt. (lb) No Change	Arm (in)	Moment (lb-in)
E-8-7L or U-8-8L (Right with Synchrophaser)			

# INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T & PA-34-220T STC SA649GL

- 15. Perform ground engine run for a functional and leak check per Hartzell Manual 115N.
- 16. Make the appropriate logbook entries and return aircraft to service with FAA Form 337 referencing STC.
- 17. Fly a functional check-flight using normal procedures, note maximum RPM setting and readjust governor high-RPM stop if necessary.
- 18. Post-installation dynamic balance of the propeller/engine combination is recommended, but not required, per Section 61-00-15 of Hartzell Owner's Manual 115N.

### DEPARTMENT OF TRANSPORTATION DATE: Feb 8, 2008 FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS Page 1 of 1 AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATIONS MAKE MODEL NO. TYPE (Airplane, Radio, NAME OF APPLICANT Helicopter, etc.) **Piper** PA-34-200T and PA-34-220T Airplane Hartzell Propeller Inc. LIST OF DATA IDENTIFICATION TITLE INSTRUCTIONS FOR INSTALLATION OF HARTZELL PHC-C3YF-2(L)KUF/F(J)C7453(K) Document: B-4061, Revision D PROPELLERS AND C-4558-( ) SPINNERS ON PIPER PA-34-200T SENECA II and PA-34-Dated 2/8/08 220T SENCA III. \_\_\_\_\_ END \_\_\_\_ PURPOSE OF DATA Revise Installation Instructions for Piper Seneca II and III, STC SA649GL to update kit effectivity table and revise installation steps to include reference to new de-ice kit drawing 102600. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR 23,901 CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered XXX accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations. I (XX) therefore, have been examined in X Approve these data SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) DESIGNATION NUMBER(S) CLASSIFICATION(S) Chart B - A7, B7, A16, B16 Leslie A. Doud DERY-410155-CE Chart G - A5, A7, A8, A10

#### IOTES:

ITEM INCLUDED AS PART OF BLADE BILL-OF-MATERIAL

2

EXISTING HARDWARE INSTALLED ON AIRCRAFT

<u>/2 \</u> ^

THE FOLLOWING ARE ACCEPTABLE SUBSTITUTES FOR THE ITEMS LISTED:

ITEM	PART NO		DE	SCRIPTION			
31	41-2-S14-LN2 (35	АМР)	CIRCUIT	BREAKER,	35	AMP	(E-T-A)
31	4 12 - K 14 - L N 2 - 3 5 A			BREAKER,			

4 ITEM INSTALLATION DETAILS ARE DEPICTED ON GENERAL ARRANGEMENT DRAWING, 7E1431, AND APPLICABLE STC DOCUMENTATION

12	12	12	12       12       6       10       B-7035-14       SCREW, PAN HEAD       SCREW, PAN HEAD         12       12       6       9       B-6655-06       NUT, HEX, SELF-LOCKING       B         12       12       6       8       B-3837-N632       WASHER       B         12       12       6       7       B-6637-30       SCREW, PAN HEAD, CRES       B         6       6       3       6       3H1271-2       LEAD CLIP       LEAD CLIP         6       6       3       5       B-3852-1-0       TIE STRAP       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP       TIE STRAP         6       6       3       3 3H2050       WIRE HARNESS       TIE STRAP         9       2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROPELLER SIDE HARDWARE         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONV ERSION KIT         X       102600-4       3-BLADE MCCAULEY TO 3-BLADE	12       12       6       10       B-7035-14       SCREW, PAN HEAD       Page 12       2       12       12       6       9       B-6655-06       NUT, HEX, SELF-LOCKING       B       12       12       6       8       B-3837-N632       WASHER       B       B       B       12       12       6       7       B-6637-30       SCREW, PAN HEAD, CRES       B       B       B       3       3       6       3H1271-2       LEAD CLIP       LEAD CLIP       B	12	2 4 3 6	24		12	12	2 H 12 6 0	BUSHING, INSULATING	
12	12	12	12	12       12       6       9       B-6655-06       NUT, HEX, SELF-LOCKING         12       12       6       8       B-3837-N632       WASHER       B         12       12       6       7       B-6637-30       SCREW, PAN HEAD, CRES       SCREW, PAN HEAD, CRES         6       6       3       6       3H1271-2       LEAD CLIP       LEAD CLIP         6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3 H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE	12		<del> </del>			11	B-3864-37	WASHER, LOCK, INT TOOTH	26,0
12 6 8 B-3837-N632 WASHER  12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 3 6 3H1271-2 LEAD CLIP 6 3 5 B-3852-1-0 TIE STRAP 12 6 4 B-3852-2-0 TIE STRAP 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  ( 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT 3-BLADE	12	12	12	12	12					-			[ <u>`</u>
12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 3 6 3H1271-2 LEAD CLIP 6 3 5 B-3852-1-0 TIE STRAP 12 6 4 B-3852-2-0 TIE STRAP 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  ( 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT  102600-4 3-BLADE McCAULEY TO 3-BLADE	12	12	12	12	12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 6 3 6 3H1271-2 LEAD CLIP 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1					<del></del>		NUT, HEX, SELF-LOCKING	7
SCHEW, PAN HEAD, CRES   SCHEW, PAN HEAD, CRES	1	6 6 3 6 3H1271-2 LEAD CLIP 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT X 102600-4 3-BLADE MCCAULEY TO 3-BLADE HARTZELL KIT	6       6       3       6       3H1271-2       LEAD CLIP         6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3 3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         3       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         X       102600-4       3-BLADE MCCAULEY TO 3-BLADE	6 6 3 6 3H1271-2 LEAD CLIP 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL	5 6 3 6 3H1271-2 LEAD CLIP 5 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 5 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1		<del></del>			<del>                                     </del>		<del></del>	[8
STATE   STRAP	6 6 3 5 B-3852-1-0 TIE STRAP  12 12 6 4 B-3852-2-0 TIE STRAP  6 6 3 3 3 3H2050 WIRE HARNESS  2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1  1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 CONVERSION KIT  CONVERSION KIT  3-BLADE McCAULEY TO 3-BLADE HARTZELL KIT	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       10260D-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         X       102600-4       3-BLADE MCCAULEY TO 3-BLADE HARTZELL KIT	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         X       102600-4       3-BLADE McCAULEY TO 3-BLADE	6 6 3 5 B-3852-1-0 TIE STRAP  12 12 6 4 B-3852-2-0 TIE STRAP  6 6 3 3 3H2050 WIRE HARNESS  2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1  1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL	5 6 3 5 B-3852-1-0 TIE STRAP  12 12 6 4 B-3852-2-0 TIE STRAP  5 6 3 3 3H2050 WIRE HARNESS  2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1  1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1					<del> </del>			
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6       3       5       B-3852-1-0       TIE STRAP         12       6       4       B-3852-2-0       TIE STRAP         6       3       3 3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       10260D-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         C       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         102600-4       3-BLADE MCCAULEY TO 3-BLADE	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         C       3-BLADE MCCAULEY TO 3-BLADE HARTZELL KIT         TY       0TY	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         X       102600-4       3-BLADE MCCAULEY TO 3-BLADE HARTZELL KIT	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-3       2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT         3-BLADE MCCAULEY TO 3-BLADE	6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE	6 6 3 5 B-3852-1-0 TIE STRAP  12 12 6 4 B-3852-2-0 TIE STRAP  6 3 3 3H2050 WIRE HARNESS  2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1  1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1	6	6		3	6			-[
6 3 6 3H1271-2 LEAD CLIP 6 3 5 B-3852-1-0 TIE STRAP 12 6 4 B-3852-2-0 TIE STRAP 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  ( 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT  102600-4 3-BLADE McCAULEY TO 3-BLADE	6 6 3 6 3H1271-2 LEAD CLIP 6 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT  ( 102600-4 3-BLADE McCAULEY TO 3-BLADE HARTZELL KIT	6 6 3 6 3 11271-2 LEAD CLIP 6 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT  ( 102600-4 3-BLADE McCAULEY TO 3-BLADE HARTZELL KIT	6 6 3 6 3 H1271-2 LEAD CLIP 6 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT 3-BLADE MCCAULEY TO 3-BLADE	6 6 3 6 3 H1271-2 LEAD CLIP 6 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL	6 6 3 6 3 H1271-2 LEAD CLIP 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1		12		6	7	B-6637-30°	SCREW, PAN HEAD, CRES	$\dashv$
SOURCE   FAN HEAD, CRES   SOURCE   FAN HEAD, CRES	SOURTH   FAN   SOURCES	SOLUM, FAN HEAD, CRES   SOLUM, FAN HEAD, CRES	SONTEW, FAN HEAD, CRES   SONTEM, FAN HEAD, C	SONEW, FAN HEAD, CRES   SONEW, FAN HEAD, CRES	5 6 3 6 3H1271-2 LEAD CLIP 5 6 6 3 5 B-3852-1-0 TIE STRAP 6 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3H2050 WIRE HARNESS  2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1		<del></del>			<del>                                     </del>		<del></del>	В
12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 3 6 3H1271-2 LEAD CLIP 6 3 5 B-3852-1-0 TIE STRAP 12 6 4 B-3852-2-0 TIE STRAP 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 10260D-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  ( 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT 3-BLADE	12	12	12	12	12					<del></del>			_
12 6 8 B-3837-N632 WASHER  12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 3 6 3H1271-2 LEAD CLIP 6 3 5 B-3852-1-0 TIE STRAP 12 6 4 B-3852-2-0 TIE STRAP 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  ( 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT 102600-4 3-BLADE McCAULEY TO 3-BLADE	12	12	12 12 6 8 B-3837-N632 WASHER  12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 6 6 3 6 3H1271-2 LEAD CLIP 6 6 3 5 B-3852-1-0 TIE STRAP 12 12 6 4 B-3852-2-0 TIE STRAP 6 6 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1  X 102600-1 PROPELLER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-3 2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT  X 102600-4 3-BLADE McCAULEY TO 3-BLADE	12	12	12				-			ļ-
12	12	12	12	12       12       6       9       B-6655-06       NUT, HEX, SELF-LOCKING         12       12       6       8       B-3837-N632       WASHER       B         12       12       6       7       B-6637-30'       SCREW, PAN HEAD, CRES         6       6       3       6       3H1271-2       LEAD CLIP         6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         1       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         X       102600-1       PROPELLER SIDE HARDWARE         X       102600-2       AIRFRAME SIDE HARDWARE	12	12	12		6	10	B-7035-14		— S
12	12	12	12	12	12	36	36		18	11	B-3864-37	WASHER, LOCK, INT TOOTH	_ 6
12	12	12	12	12       12       6       10       B-7035-14       SCREW, PAN HEAD       B       SCREW, PAN HEAD       SCREW, PAN	12		1			12	2H1260	BUSHING, INSULATING	ç
18	36	36   36   18   11   B-3864-37   WASHER, LOCK, INT TOOTH   36   36   12   12   6   10   B-7035-14   SCREW, PAN HEAD   37   38   38   38   38   38   38   38	36   36   18   11   B-3864-37   WASHER, LOCK, INT TOOTH   36   36   12   12   6   10   B-7035-14   SCREW, PAN HEAD   37   38   37   38   38   37   38   38	36   36   36   18   11   B-3864-37   WASHER, LOCK, INT TOOTH   12   12   6   10   B-7035-14   SCREW, PAN HEAD   12   12   6   9   B-6655-06   NUT, HEX, SELF-LOCKING   12   12   6   8   B-3837-N632   WASHER   12   12   6   7   B-6637-30   SCREW, PAN HEAD, CRES   6   6   3   6   3H1271-2   LEAD CLIP   6   6   3   5   B-3852-1-0   TIE STRAP   12   12   6   4   B-3852-2-0   TIE STRAP   6   6   3   3   3H2050   WIRE HARNESS   6   6   3   3   3H2050   WIRE HARNESS   1   3H2303-10   PROP DE-ICER (LEFT-HAND ROTATION)   1   1   3H2303-10   PROP DE-ICER (RIGHT-HAND ROTATION)   1   1   3H2303-10   PROP DE-ICER (RIGHT-HAND ROTATION)   1   1   3H2303-10   AIRFRAME SIDE HARDWARE   102600-2   AIRFRAME SIDE HARDWARE   2   2-BLADE TO 3-BLADE HARTZELL	18		<del></del>			<del></del>	· · · · · · · · · · · · · · · · · · ·	NUT, BRASS	$\neg$
12	24	24	24	24	12		<del></del>		10				
12	24         24         12         13         B-6641-265         NUT, BRASS           24         24         12         12         2H1260         BUSHING, INSULATING           36         36         18         11         B-3864-37         WASHER, LOCK, INT TOOTH           12         12         6         10         B-7035-14         SCREW, PAN HEAD           12         12         6         9         B-6655-06         NUT, HEX, SELF-LOCKING           12         12         6         8         B-3837-N632         WASHER           12         12         6         8         B-3837-N632         WASHER           12         12         6         7         B-6637-30         SCREW, PAN HEAD, CRES           6         6         3         6         3H1271-2         LEAD CLIP           6         6         3         5         B-3852-1-0         TIE STRAP           12         12         6         4         B-3852-2-0         TIE STRAP           12         12         6         4         B-3852-2-0         TIE STRAP           12         31         3H23050         WIRE HARNESS           12         31	24         24         12         13         B-6641-265         NUT, BRASS           24         24         12         12         2H1260         BUSHING, INSULATING           36         36         18         11         B-3864-37         WASHER, LOCK, INT TOOTH           12         12         6         10         B-7035-14         SCREW, PAN HEAD           12         12         6         9         B-6655-06         NUT, HEX, SELF-LOCKING           12         12         6         8         B-3837-N632         WASHER           12         12         6         7         B-6637-30         SCREW, PAN HEAD, CRES           6         6         3         6         3H1271-2         LEAD CLIP           6         6         3         5         B-3852-1-0         TIE STRAP           12         12         6         4         B-3852-2-0         PROP DE-ICER (LEFT-HAND ROTATION)	24     24     12     13     B-6641-265     NUT, BRASS       24     24     12     12     241260     BUSHING, INSULATING       36     36     18     11     B-3864-37     WASHER, LOCK, INT TOOTH       12     12     6     10     B-7035-14     SCREW, PAN HEAD       12     12     6     9     B-6655-06     NUT, HEX, SELF-LOCKING       12     12     6     8     B-3837-N632     WASHER       12     12     6     7     B-6637-30     SCREW, PAN HEAD, CRES       6     6     3     6     3H1271-2     LEAD CLIP       6     6     3     5     B-3852-1-0     TIE STRAP       12     12     6     4     B-3852-2-0     TIE STRAP       12     12     6     4     B-3852-2-0     TIE STRAP       6     6     3     3 3H2050     WIRE HARNESS       2     3H2292-10     PROP DE-ICER (LEFT-HAND ROTATION)     1       X     10260D-1     PROP ELLER SIDE HARDWARE       X     10260D-1     PROPELLER SIDE HARDWARE       X     10260D-2     AIRFRAME SIDE HARDWARE       X     10260D-3     2-BLADE TO 3-BLADE HARTZELL CONVERSION KIT       CONVERSION KIT	24       24       12       13       B-6641-265       NUT, BRASS         24       24       12       12       2H260       BUSHING, INSULATING         36       36       18       11       B-3864-37       WASHER, LOCK, INT TOOTH         12       12       6       10       B-7035-14       SCREW, PAN HEAD         12       12       6       9       B-6655-06       NUT, HEX, SELF-LOCKING         12       12       6       8       B-3837-N632       WASHER         12       12       6       7       B-6637-30       SCREW, PAN HEAD, CRES         6       6       3       6       3H1271-2       LEAD CLIP         6       6       3       5       B-3852-1-0       TIE STRAP         12       12       6       4       B-3852-2-0       TIE STRAP         6       6       3       3       3H2050       WIRE HARNESS         2       3H2292-10       PROP DE-ICER (LEFT-HAND ROTATION)       1         3       3H2303-10       PROP DE-ICER (RIGHT-HAND ROTATION)       1         4       102600-1       PROPELLER SIDE HARDWARE	12	2	2	2		14	<del></del>		_i
2	2 2 2 14 4H2422 SLIP RING ASSEMBLY 24 24 12 13 B-6641-265 NUT, BRASS 24 24 12 12 2H1260 BUSHING, INSULATING 36 36 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 36 36 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 37 12 12 6 10 B-7035-14 SCREW, PAN HEAD 38 12 12 6 8 B-8655-06 NUT, HEX, SELF-LOCKING 39 B-6655-06 NUT, HEX, SELF-LOCKING 40 12 12 6 8 B-3837-N632 WASHER 41 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 41 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 41 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 41 12 12 6 4 B-3852-1-0 TIE STRAP 41 12 12 6 4 B-3852-2-0 TIE STRAP 41 12 12 6 4 B-3852-2-0 TIE STRAP 41 12 12 6 4 B-3852-2-0 TIE STRAP 42 12 13 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 43 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1 44 102600-1 PROPELLER SIDE HARDWARE 45 102600-2 AIRFRAME SIDE HARDWARE 46 102600-3 Z-BLADE HARTZELL 47 102600-4 AIRFRAME SIDE HARDWARE 48 102600-4 AIRFRAME SIDE HARDWARE 49 102600-4 AIRFRAME SIDE HARDWARE 40 102600-4 AIRFRAME SIDE HARDWARE 40 102600-4 AIRFRAME SIDE HARDWARE	2 2 2 14 4H2422 SLIP RING ASSEMBLY 24 24 12 13 B-6641-265 NUT, BRASS 24 24 12 12 2H1260 BUSHING, INSULATING 36 36 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 36 36 19 B-7035-14 SCREW, PAN HEAD 37 12 12 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 38 11 B-3837-N632 WASHER 39 12 12 6 8 B-3837-N632 WASHER 4 12 12 6 8 B-3837-N632 WASHER 4 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 4 6 6 3 6 3H1271-2 LEAD CLIP 4 6 6 6 3 6 3H1271-2 LEAD CLIP 5 6 6 6 3 3 5 B-3852-1-0 TIE STRAP 6 6 6 3 3 3 3H2050 WIRE HARNESS 4 3H2292-10 PROP DE-ICER (LEFT-HAND ROTATION) 1 5 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1 6 X 102600-1 PROPELLER SIDE HARDWARE 6 X 102600-2 AIRFRAME SIDE HARDWARE 6 X 102600-4 3-BLADE MCCAULEY TO 3-BLADE HARTZELL KIT	2	2 2 2 14 4H2422 SLIP RING ASSEMBLY 24 24 12 13 B-6641-265 NUT, BRASS 24 24 12 12 2H1260 BUSHING, INSULATING 36 36 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 12 12 6 10 B-7035-14 SCREW, PAN HEAD 12 12 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 12 12 6 8 B-3837-N632 WASHER 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 13 6 3 H1271-2 LEAD CLIP 14 12 6 4 B-3852-1-0 TIE STRAP 15 12 6 4 B-3852-2-0 TIE STRAP 16 6 3 3 3 3H2050 WIRE HARNESS 2 3H2292-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1 1 3H2303-10 PROP ELER SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE  X 102600-2 AIRFRAME SIDE HARDWARE	2 2 2 14 4H2422 SLIP RING ASSEMBLY 24 24 12 13 B-6641-265 NUT, BRASS 24 24 12 12 2H1260 BUSHING, INSULATING 36 36 36 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 37 12 12 6 10 B-7035-14 SCREW, PAN HEAD 38 12 12 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 38 12 12 6 8 B-3837-N632 WASHER 39 12 12 6 7 B-6637-30 SCREW, PAN HEAD, CRES 30 6 3 6 3H1271-2 LEAD CLIP 30 6 3 5 B-3852-1-0 TIE STRAP 31 12 12 6 4 B-3852-2-0 TIE STRAP 31 12 12 6 4 B-3852-2-0 TIE STRAP 31 12 12 6 13 3 3 3H2050 WIRE HARNESS 31 2 3H2292-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1 1 3H2303-10 PROP DE-ICER (RIGHT-HAND ROTATION) 1	4	4	4		15	4 H 3 15 3		-
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12	(2) (2)   19   4E2032   BRUSH BLOCK BRACKET   2	12	C2   C2   19	(2) (2)	(2) (2)				<del>                                     </del>				_
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4	4	4	4	4	4	_	8	8		2.5	B-3837-N832		-1,
8         2         B-3837-N832         WASHER, CRES           4         4         24         B-6637-50         SCREW, PAN HEAD, CRES           2         2         23         3H2062-2         MODULAR BRUSH BLOCK ASSEMBLY           2         2         22         1H1157         SHIM, BRUSH BLOCK           (2)         (2)         21         B-3874-42A         BOLT, 1/4-28, HEX HEAD         2           (2)         (2)         20         3E1935         SUPPORT ARM ASSEMBLY         2           (2)         (2)         19         4E2032         BRUSH BLOCK BRACKET         2           (2)         12         16         B-3837-0463         WASHER, CRES           (2)         12         16<	8	8	8	8         8         25         B-3837-N832         W ASHER, CRES           4         4         4         4         4         B-6637-50         SCREW, PAN HEAD, CRES           2         2         2         2         3 H2062-2         MODULAR BRUSH BLOCK ASSEMBLY           2         2         2         11157         SHIM, BRUSH BLOCK           (2)         (2)         21         B-3874-42A         BOLT, 1/4-28, HEX HEAD         2           (2)         (2)         19         4E2032         BRUSH BLOCK BRACKET         2           (2)         (2)         19         4E2032         BRUSH BLOCK BRACKET         2           12         12         12         18         B-3808-4         NUT, SELF-LOCKING         2           12         12         12         16         B-7077-52         BELLEVILE SPRING WASHER         2           12         12         12         16         B-7077-52         BELLEVILE SPRING WASHER         4           4         4         4         44242         SLIP RING ASSEMBLY         2           2         2         14         4H2422         SLIP RING ASSEMBLY         2           24         24         12	8		4	4	<u> </u>	26	B-6655-08	NUT, HEX, SELF-LOCKING	
State	8	B	B	8	8			1	ļ	27	3E 1964 – 3	TIMER, DE-ICE	
4	4	4	4	4	4		<del></del>	<del> </del>	ļ	+		SHUNT, AMMETER, 50 AMP	$\neg$
1 1 27 3E1964-3 TIMER, DE-ICE 4 4 4 26 B-6855-08 NUT, HEX, SELF-LOCKING 8 8 25 B-3837-N832 WASHER, CRES 4 4 4 24 B-6637-50 SCREW, PAN HEAD, CRES 2 2 2 23 3H2062-2 MODULAR BRUSH BLOCK ASSEMBLY 2 2 2 22 1H1157 SHIM, BRUSH BLOCK 2 2 2 22 1H1157 SHIM, BRUSH BLOCK ASSEMBLY 2 2 2 22 1H1157 SHIM, BRUSH BLOCK 2 2 2 20 3E1935 SUPPORT ARM ASSEMBLY 2 2 2 19 4E2032 BRUSH BLOCK BRACKET 2 2 10 19 4E2032 BRUSH BLOCK BRACKET 2 12 18 B-3808-4 NUT, SELF-LOCKING 3 WASHER, CRES 4 4 15 H3153 MOUNTING PLATE, SPLIT 4 4 15 4H3153 MOUNTING PLATE, SPLIT 5 12 12 16 B-7077-52 BELLEVILLE SPRING WASHER 4 4 15 4H3153 MOUNTING PLATE, SPLIT 5 12 12 13 B-6641-265 NUT, BRASS 5 18 11 B-3864-37 WASHER, LOCK, INT TOOTH 5 12 6 10 B-7035-14 SCREW, PAN HEAD 5 6 10 B-7035-14 SCREW, PAN HEAD 6 12 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 7 B-6637-30 SCREW, PAN HEAD  CRES 7 B-6637-30 SCREW, PAN HEAD, CRES 8 B-3837-N632 WASHER 8 B-3852-1-0 TIE STRAP 8 B-6637-30 SCREW, PAN HEAD, CRES 8 B-3837-N632 WASHER 9 B-6637-30 SCREW, PAN HEAD 9 B-6637-30 S	1	1	1	1	1			<del> </del>	<del></del>	<del></del>	<del></del>		
1 1 28 MS91586-2 SHUNT, AMMETER, 50 AMP 1 1 1 27 3E1964-3 TIMER, DE-ICE 4 4 26 B-6655-08 NUT, HEX, SELF-LOCKING 8 8 25 B-3837-N832 WASHER, CRES 4 4 4 24 B-6637-50 SCREW, PAN HEAD, CRES 2 2 2 23 3H2062-2 MODULAR BRUSH BLOCK ASSEMBLY 2 2 2 21 H1157 SHIM, BRUSH BLOCK 2 2 2 22 H1157 SHIM, BRUSH BLOCK 2 2 2 22 H1157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1		(1)	(1)	ļ	30	32370-11	SWITCH, ILLUM. ROCKER (PIPER) 2	$\neg$
1 1 29 3H1389-7 AMMETER, 29-33 AMPS ARC 1 1 28 MS91586-2 SHUNT, AMMETER, 50 AMP 1 1 27 3E1964-3 TIMER, DE-ICE 4 4 26 B-6655-08 NUT, HEX, SELF-LOCKING 8 8 2 25 B-3837-N832 WASHER, CRES 2 2 2 3 3H2062-2 MODULAR BRUSH BLOCK ASSEMBLY 2 2 2 2 3 3H2062-2 MODULAR BRUSH BLOCK ASSEMBLY 2 2 2 2 3 3H2062-2 MODULAR BRUSH BLOCK ASSEMBLY 2 2 2 2 2 1H1157 SHIM, BRUSH BLOCK 2 2 2 2 3 3H2062-2 BRUSH BLOCK BRACKET 2 2 2 2 2 1H157 SHIM, BRUSH BLOCK 2 2 2 2 2 19155 SUPPORT ARM ASSEMBLY 2 2 2 2 3 3H2062-2 BRUSH BLOCK BRACKET 2 2 2 2 3 3H2062-2 BRUSH BLOCK BRACKET 2 2 2 1 12 18 B-3808-4 NUT, SELF-LOCKING 1 12 12 17 B-3837-0463 WASHER, CRES 1 12 12 16 B-7077-52 BELLEVILLE SPRING WASHER 4 4 15 4H3153 MOUNTING PLATE, SPLIT 2 2 14 4H2422 SLIP RING ASSEMBLY 3 B-6641-265 NUT, BRASS 4 12 12 12 2H1260 BUSHING, INSULATING 1 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 1 6 9 B-6655-06 NUT, HEX, SELF-LOCKING 1 6 9 B-6657-30 WASHER, LOCK, INT TOOTH 2 6 8 B-3837-N632 WASHER 3 6 B B-3837-N632 WASHER 4 B-3852-2-0 TIE STRAP 5 6 3 5 B-3852-1-0 TIE STRAP 6 3 3 5 B-3852-1-0 TIE STRAP 7 6 4 B-3852-2-0 TIE STRAP 7 7 8 5 AMPS ARE 8 8 8 29 AMPS ARE 8 9 AMPS ARE 8 9 AMPS ARE 8 9 AMPS ARE 8 9 AMPS ARC 8 102600-1 PROPELLER SIDE HARDWARE 8 102600-2 AIRFRAME SIDE HARDWARE 8 102600-3 CONVERSION KIT 102600-3 3-BLADE MCCAULEY TO 3-BLADE	1	1	1	1	1		(1)	1 (1)	<del>                                     </del>	31	454-724		