

HARTZELL

INSTALLATION INSTRUCTIONS

Make HAWKER BEECHCRAFT CORPORATION	Model 58, 58A, G58 BARON	Date: 09-29-2009	Revision: D	Drawing No. 20002-0000
Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 1 OF 14

REVISION RECORD

REVISION	CHANGE DESCRIPTION	ENGINEER	DATE
-	INITIAL RELEASE	S. JOHNSON	01-03-2006
A	CHANGES INDICATED BY . ADDED B.4, B.5 & B.6. INCREASED LOW PITCH ANGLE, WAS 12.2 FOR 285-HP ENGINE & 12.5 FOR 300 HP ENGINE (TABLE 2). ADDED NOTE (1) & (2) (TABLE 2 & 3). ADDED NOTE FOR D.4. CHANGED NOTE FOR D.6 & E.9, WAS SPINNER ASSY. C-3567-1(P) & C-3567-4(P). ADDED D.8. CHANGED D.9 & E.13, WAS AFMS20002. ADDED NOTE FOR E.2. ADDED "USE EXISTING HARDWARE WHERE NECESSARY" TO E.6 NOTE (P.7). ADDED "SHIM COMPRESSOR MOUNTING BRACKET AS NEEDED TO ALIGN PULLEYS" TO E.8. ADDED "SEE LATEST RAYTHEON WIRING DIAGRAM MANUAL FOR EXISTING PROPELLER DE-ICE SYSTEM WIRING INFORMATION" TO E.10. ADDED E.12 & E.15.	S. JOHNSON	04-20-2006
B	CHANGES INDICATED BY . - REVISE B.3 TO REFERENCE LATEST REVISION OF DRAWING 5E2793. - TABLE 2, UPDATE LOW-PITCH BLADE ANGLE ON 285 HP ENGINE - ADD SKETCH SHOWING DIFFERENCE BETWEEN -1 AND -4 SPINNER - REVISED D.4 & D.6 TO REFERENCE ONLY SPINNER MODEL NOT INDIVIDUAL BULKHEAD AND DOME MODELS. - REVISED E.2 & E.9 TO REFERENCE ONLY SPINNER MODEL NOT INDIVIDUAL BULKHEAD AND DOME MODELS.	L. DOUD	02-20-2007
C	CHANGES INDICATED BY IN LEFT MARGIN. - REVISED E.3. AND E.4. TO ALLOW USE OF 4E2375-1 DE-ICE SLIP RINGS IN LIEU-OF 4E3422-1 ON AIRCRAFT S/N TH-1231 THRU TH-1388 AND TH-1390 THRU TH-1395.	L. DOUD	03-26-2007
D	UPDATED COMPANY NAME ON ALL PAGES. ADDED REFERENCE TO HARTZELL DE-ICE DRAWING 103294 ON PAGES 2, 6, 7, 8, 10 & 13. DIVIDED INSTRUCTIONS INTO SECTION 1 FOR FIELD INSTALLATION AND SECTION 2 FOR G58 FACTORY INSTALLATION (ADDED PAGES 9 THROUGH 13). CHANGES DENOTED BY CHANGE BAR IN LEFT MARGIN	B. MEYER	09-29-2009

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THIS DOCUMENT PROVIDES INSTRUCTIONS FOR THE INSTALLATION OF HARTZELL PHC-J3YF-2UF/FC7391D(K) PROPELLERS ON BEECH 58, 58A, AND G58 BARON AIRPLANES FOR BOTH EXISTING AIRCRAFT IN THE FIELD AND NEW PRODUCTION (FACTORY) G58 AIRCRAFT.

NOTE : HAWKER BEECHCRAFT CORPORATION (HBC) IS THE CURRENT HOLDER OF THE 58 BARON TYPE CERTIFICATE AND THIS COMPANY NAME IS USED THROUGHOUT THIS DOCUMENT. THIS STC ALSO APPLIES TO AIRCRAFT PREVIOUSLY PRODUCED UNDER THE RAYTHEON AIRCRAFT COMPANY AND BEECH AIRCRAFT COMPANY NAMES.

SECTION 1 : FIELD INSTALLATION

A. ELIGIBILITY:

HAWKER BEECHCRAFT MODEL 58, 58A, AND G58 BARON EQUIPPED AS SHOWN IN TABLE 1 BELOW.

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TABLE 1: AIRCRAFT LIMITATIONS.

ITEM	MAKE / MODEL	LIMITATIONS
ENGINES*	TELEDYNE CONTINENTAL MOTORS IO-520-C/CB	MAXIMUM CONT. POWER: 285 HP MAXIMUM CONT. RPM: 2700
	TELEDYNE CONTINENTAL MOTORS IO-550-C	MAXIMUM CONT. POWER: 300 HP MAXIMUM CONT. RPM: 2700
GOVERNORS	WOODWARD D210939, D210662, 210662, B210710, A210780, OR B210800 [3 LBS. EA.]	

* IT IS THE RESPONSIBILITY OF THE INSTALLER TO VERIFY APPROVAL OF THE ENGINE ON THE AIRCRAFT UNDER T.C. 3A16 OR OTHERWISE BY STC.

B. NOTES:

- FOR REMOVAL AND INSTALLATION OF PROPELLER, PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE RAYTHEON PARTS AND SERVICE MANUALS AND HARTZELL PROPELLER, INC. PROPELLER OWNERS MANUAL NO. 115N, REVISION 11, DATED DECEMBER 2004 OR LATER FAA APPROVED REVISION.
- FOR PROPELLER ADJUSTMENT AND OPERATION, FOLLOW THE PROCEDURES OUTLINED IN HARTZELL PROPELLER, INC. PROPELLER OWNERS MANUAL NO. 115N, REVISION 11, DATED DECEMBER 2004 OR LATER FAA APPROVED REVISION.
- ELECTRIC DE-ICE EQUIPPED PROPELLERS (FC7391DK) ARE LIMITED TO AIRCRAFT SERIAL NO. TH-1231 AND LATER. FOR DE-ICE EQUIPMENT INSTALLATION, REFER TO GOODRICH GENERAL ARRANGEMENT DRAWING NO. 5E2793, REV. C, DATED 31JAN06 OR LATER FAA APPROVED REVISION, OR, FOR PROPELLERS EQUIPPED WITH HARTZELL DE-ICE EQUIPMENT, HARTZELL DRAWING 103294, REVISION A OR LATER FAA APPROVED REVISION.
- FOR INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, REFER TO HARTZELL DOCUMENT 20002-30, REV. IR, DATED JANUARY 3, 2006, OR LATER FAA-APPROVED REVISION.
- AIRPLANE FLIGHT MANUAL SUPPLEMENT AFMS 20002-1 IS REQUIRED FOR MODEL 58, 58A, AND G58 BARON AIRPLANES, SERIAL NO. TH-1389, TH-1396 AND AFTER.
- AIRPLANE FLIGHT MANUAL SUPPLEMENT AFMS 20002-2 IS REQUIRED FOR MODEL 58 AND 58A BARON AIRPLANES, SERIAL NO. TH-1 THROUGH TH-1395, EXCEPT TH-1389.
- INSTALLATION WITH DE-ICED PROPELLERS LIMITED TO AIRCRAFT THAT HAD 3-BLADE PROPELLERS PREVIOUSLY INSTALLED.

C. PREPARATION:

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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 3 OF 14

1. CHECK/VERIFY AIRCRAFT IS ELIGIBLE FOR INSTALLATION OF "7391" SERIES PROPELLERS PER SECTION A AND TABLE 1.
2. DETERMINE WHETHER OR NOT THE AIRCRAFT IS EQUIPPED WITH A FACTORY AIR CONDITIONING SYSTEM (COMPRESSOR MOUNTED ON LEFT ENGINE).
3. VERIFY PROPELLERS BEING INSTALLED CONFORM TO THE PROPELLER LIMITATIONS SHOWN IN TABLE 2.

TABLE 2: PROPELLER LIMITATIONS.

HUB MODEL	PHC-J3YF-2UF
BLADE MODEL	FC7391D(K)
MAX. DIAMETER (IN.)	75
MIN. DIAMETER (IN.)	73
FEATHER ANGLE (30-IN. STA.)	80.0° ± 0.5°
HIGH PITCH ANGLE (30-IN. STA.)	18.5° ± 1.0°
LOW PITCH ANGLE (30-IN. STA.) (285 HP ENGINE)	12.8° ± 0.2°
LOW PITCH ANGLE (30-IN. STA.) (300 HP ENGINE)	12.8° ± 0.2°
SPINNER ASSY. P/N (NO AIR COND.)	C-3567-1(P)
SPINNER ASSY. P/N (WITH AIR COND.)	C-3567-4(P)

TABLE 3: EQUIPMENT WEIGHT.

ITEM	QTY.	WEIGHT (LBS.)
PROPELLER, HARTZELL PHC-J3YF-2UF/FC7391D	2	85.0 (EA.)
PROPELLER, HARTZELL PHC-J3YF-2UF/FC7391DK (WITH DE-ICE)	2	88.5 (EA.)
SPINNER, HARTZELL C-3567-1(P)	2	6.0 (EA.)
SPINNER, HARTZELL C-3567-4(P) (FOR AIR COND.)	2	5.5 (EA.)

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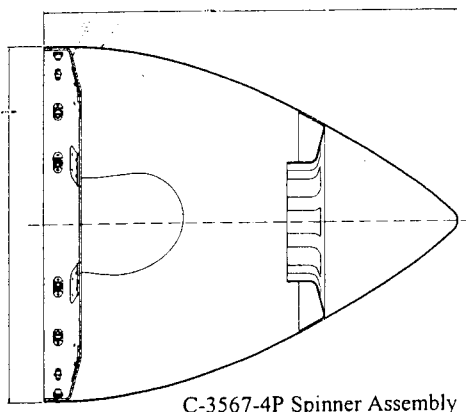
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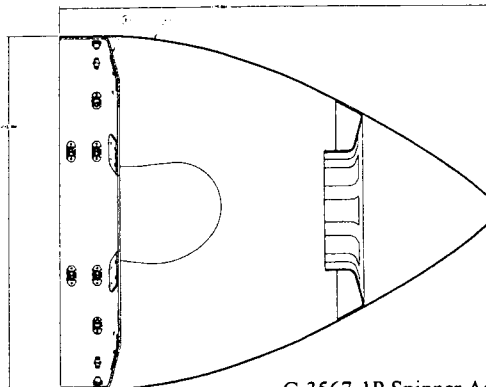
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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 4 OF 14



C-3567-4P Spinner Assembly



C-3567-1P Spinner Assembly

D. INSTALLATION PROCEDURE FOR PHC-J3YF-2UF/FC7391D (NON-DE-ICE) PROPELLERS:

1. REMOVE THE ORIGINAL PROPELLERS AND SPINNERS.
2. IF THE ORIGINAL PROPELLERS WERE EQUIPPED WITH AN ALCOHOL ANTI-ICE SYSTEM:
 - (a) CAP OFF THE FLUID SUPPLY LINE TO EACH PROPELLER.
 - (b) FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL (NEAR THE PROPELLER ANTI-ICE SWITCH) IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"PROPELLER ANTI-ICE SYSTEM INOP"
3. FOR AIRCRAFT SERIAL NO. TH-1 THRU TH-1230 EQUIPPED WITH AN ELECTRO-THERMAL PROPELLER DE-ICE SYSTEM:
 - (a) DISCONNECT POWER TO THE SYSTEM BY REMOVING THE PROP DE-ICE CIRCUIT BREAKER SWITCH FROM THE INSTRUMENT PANEL. INSTALL APPROPRIATE PLUG TO FILL VACATED HOLE IN INSTRUMENT PANEL.
 - (b) REMOVE THE BRUSH BLOCK ASSEMBLY AND MOUNTING BRACKET FROM EACH ENGINE.
 - (c) SECURE LOOSE, UNUSED WIRES. WIRES SHOULD BE INDIVIDUALLY DEAD-ENDED, TIED INTO A BUNDLE AND SECURED TO A PERMANENT STRUCTURE. EACH WIRE SHOULD HAVE STRANDS CUT EVEN WITH THE INSULATION AND A PRE-INSULATED, CLOSED-END CONNECTOR OR A 1-INCH PIECE OF INSULATING TUBING PLACED OVER THE WIRE WITH ITS END FOLDED BACK AND TIED (REF. FAA AC 43.13-1B, SECTION 11-96).
 - (d) FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL (NEAR THE PROPELLER DE-ICE SWITCH) IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"PROPELLER DE-ICE SYSTEM INOP"

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4. INSTALL NEW SPINNER BULKHEAD ON EACH PROPELLER IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-4P SPINNER ASSEMBLY.

5. INSTALL PHC-J3YF-2UF/FC7391D PROPELLER ON EACH ENGINE IN ACCORDANCE WITH HARTZELL MANUAL 115N. USE ONLY NEW MOUNTING HARDWARE SUPPLIED WITH EACH PROPELLER.
6. INSTALL NEW SPINNER DOMES IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-1P SPINNER ASSEMBLY.


FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-4P SPINNER ASSEMBLY.

7. VERIFY THAT THE AIRCRAFT OPERATING LIMITATIONS PROHIBIT FLIGHT IN ICING CONDITIONS. IF NOT, FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED"

8. CHECK BAFFLE SEALS FOR PROPER FIT. REPLACE WORN SEALS WHERE NECESSARY. SEAL GAPS WITH RTV SEALANT. VERIFY FWD BAFFLE SEAL DOES NOT INTERFERE WITH ANY ROTATING PROPELLER COMPONENTS. VERIFY COWL FLAP SYSTEM IS RIGGED IN ACCORDANCE WITH THE LATEST HAWKER BEECHCRAFT SERVICE MANUAL.
9. ATTACH A COPY OF THE AIRPLANE FLIGHT MANUAL SUPPLEMENT PER SECTION B TO THE AIRPLANE FLIGHT MANUAL.
10. GROUND RUN ENGINES AND ADJUST GOVERNORS IN ACCORDANCE WITH HARTZELL MANUAL 115N.
11. WEIGH AIRPLANE AND RECORD NEW EMPTY WEIGHT AND CG LOCATION IN AIRCRAFT LOGS PER FAA AC 43.13-1B, OR REVISE THE EXISTING AIRCRAFT WEIGHT AND BALANCE RECORDS TO SHOW THE REMOVAL OF THE ORIGINAL PROPELLERS AND SPINNERS AND THE ADDITION OF THE NEW PROPELLERS AND SPINNERS AT THE SAME MOMENT ARM. SEE TABLE 3 FOR APPLICABLE EQUIPMENT WEIGHTS.
12. COMPLETE THE APPROPRIATE LOGBOOK ENTRIES AND RETURN AIRCRAFT TO SERVICE WITH FAA FORM 337 REFERENCING STC.

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E. INSTALLATION PROCEDURE FOR PHC-J3YF-2UF/FC7391DK (DE-ICE) PROPELLERS:

NOTE: INSTALLATION LIMITED TO AIRCRAFT SERIAL NO. TH-1231 AND LATER EQUIPPED WITH EXISTING ELECTRO-THERMAL DE-ICE SYSTEM.

1. REMOVE THE ORIGINAL PROPELLERS AND SPINNERS.
2. INSTALL NEW HARTZELL SPINNER BULKHEADS ON THE PHC-J3YF-2UF/FC7391DK PROPELLERS IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-4P SPINNER ASSEMBLY.

3. INSTALL DE-ICE SYSTEM ROTATING COMPONENTS (WIRE HARNESS, SLIP RING, MOUNTING PLATE, ETC.) ON THE PROPELLERS IN ACCORDANCE WITH GOODRICH DRAWING 5E2793 OR FOR AIRCRAFT EQUIPPED WITH HARTZELL DE-ICE COMPONENTS, HARTZELL DRAWING 103294. THESE DRAWINGS MAY BE USED FOR AIRCRAFT S/N TH-1231 TO TH-1388 AND TH-1390 TO TH-1395 DESPITE ELIGIBILITY STATEMENT ON DRAWING. SEE TABLE 4 FOR APPLICABLE DE-ICE KIT PART NUMBERS.

TABLE 4: PROPELLER DE-ICE EQUIPMENT.

ORIGINAL PROP MFG.	AIR COND.	GOODRICH PROP KIT P/N	GOODRICH AIRFRAME KIT P/N ^{4,5}	HARTZELL PROP KIT P/N	HARTZELL AIRFRAME KIT P/N
HARTZELL	NO	5E2793-1	5E2793-2	103294-1	103294-2
HARTZELL	YES	5E2793-1	5E2793-3	103294-1	103294-3
McCAULEY	NO	5E2793-1	5E2793-4	103294-1	103294-4
McCAULEY	YES	5E2793-1	5E2793-5	103294-1	103294-5

4. FOR AIRCRAFT PREVIOUSLY EQUIPPED WITH HARTZELL PHC-J3YF-2UF/FC7663K-2R PROPELLERS (WITH PROP DE-ICE), INSTALLED IN ACCORDANCE WITH HARTZELL STC SA773CE OR SA5533NM OR BY THE FACTORY (AIRCRAFT SERIAL NO. TH-1231 AND LATER), ALL SERVICEABLE AIRFRAME-MOUNTED DE-ICE EQUIPMENT MAY BE RETAINED AND USED WITH THIS STC. THE 4E2375-1 SLIP RING ASSEMBLY USED ON AIRCRAFT SERIAL NO. TH-1231 TO TH-1388 AND TH-1390 TO TH-1395 (ON AIRCRAFT WITHOUT AIR CONDITIONING OR ON RIGHT SIDE OF AIRCRAFT WITH AIR CONDITIONING) INSTALLED PER BEECH DRAWINGS/MANUALS OR GOODRICH DRAWING 7E1394 MAY ALSO BE RETAINED IN PLACE OF THE 4E3422-1 SLIP RINGS THAT ARE SPECIFIED BY THIS STC IN GOODRICH DRAWING 5E2793 AND HARTZELL DRAWING 103294.

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5. FOR AIRCRAFT PREVIOUSLY EQUIPPED WITH McCAULEY PROPELLERS (WITH PROP DE-ICE), IT IS NECESSARY TO REMOVE AND REPLACE THE ENGINE-MOUNTED MODULAR BRUSH ASSEMBLIES AND MOUNTING BRACKETS. ALL OTHER SERVICEABLE AIRFRAME-MOUNTED DE-ICE EQUIPMENT MAY BE RETAINED AND USED WITH THIS STC.

6. INSTALL SLIP RING ASSEMBLY, SPLIT MOUNTING PLATE, AND ENGINE-MOUNTED MODULAR BRUSH ASSEMBLIES AND MOUNTING BRACKETS (IF NECESSARY) IN ACCORDANCE WITH GOODRICH DRAWING 5E2793 OR HARTZELL DRAWING 103294. ADJUST POSITION OF BRUSHES TO SLIP RING SURFACE.

NOTE: TO INSTALL THE MOUNTING BRACKET, IT IS NECESSARY TO REMOVE AND RE-INSTALL THE TWO FWD CRANKCASE FLANGE NUTS. TORQUE CRANKCASE FLANGE NUTS PER LATEST TELEDYNE CONTINENTAL MOTORS SERVICE BULLETIN SB96-7.

NOTE: TO INSTALL THE LEFT ENGINE BRUSH ASSEMBLY MOUNTING BRACKET ON AIRCRAFT EQUIPPED WITH AIR CONDITIONING, IT IS NECESSARY TO REMOVE AND RE-INSTALL THE AIR CONDITIONING COMPRESSOR MOUNTING BRACKET PER LATEST RAYTHEON SERVICE MANUAL. USE EXISTING HARDWARE WHERE NECESSARY.

7. INSTALL DE-ICE EQUIPPED PROPELLERS ON THE AIRCRAFT IN ACCORDANCE WITH HARTZELL MANUAL 115N. USE ONLY NEW MOUNTING HARDWARE SUPPLIED WITH EACH PROPELLER.

8. FOR AIRCRAFT EQUIPPED WITH AIR CONDITIONING, SHIM COMPRESSOR MOUNTING BRACKET AS NEEDED TO ALIGN PULLEYS. ADJUST THE COMPRESSOR PULLEY AND BELT TENSION PER LATEST RAYTHEON SERVICE MANUAL.

9. INSTALL NEW SPINNER DOMES IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-4P SPINNER ASSEMBLY.

10. VERIFY THE AIRCRAFT IS EQUIPPED WITH GOODRICH 3E1964-3 DE-ICE TIMER (PREFERRED) OR McCAULEY B45018 TIMER. IF NOT, REMOVE EXISTING TIMER AND INSTALL GOODRICH 3E1964-3 DE-ICE TIMER PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL. ALL OTHER EXISTING CABIN-MOUNTED DE-ICE SYSTEM COMPONENTS MAY BE RETAINED AND USED WITH THIS STC. SEE LATEST RAYTHEON WIRING DIAGRAM MANUAL FOR EXISTING PROPELLER DE-ICE SYSTEM WIRING INFORMATION.

11. VERIFY THAT THE AIRCRAFT OPERATING LIMITATIONS AND INSTALLED EQUIPMENT ALLOW FLIGHT IN ICING CONDITIONS. IF NOT, FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED"

12. CHECK BAFFLE SEALS FOR PROPER FIT. REPLACE WORN SEALS WHERE NECESSARY. SEAL GAPS WITH RTV SEALANT. VERIFY FWD BAFFLE SEAL DOES NOT INTERFERE WITH ANY

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ROTATING PROPELLER COMPONENTS. VERIFY COWL FLAP SYSTEM IS RIGGED IN ACCORDANCE WITH THE LATEST HAWKER BEECHCRAFT SERVICE MANUAL.

13. ATTACH A COPY OF THE AIRPLANE FLIGHT MANUAL SUPPLEMENT PER SECTION B TO THE AIRPLANE FLIGHT MANUAL.
14. GROUND RUN ENGINES AND ADJUST GOVERNORS IN ACCORDANCE WITH HARTZELL MANUAL 115N.
15. VERIFY PROPELLER DE-ICE SYSTEM FUNCTIONS PROPERLY PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL.
16. WEIGH AIRPLANE AND RECORD NEW EMPTY WEIGHT AND CG LOCATION IN AIRCRAFT LOGS PER FAA AC 43.13-1B, OR REVISE THE EXISTING AIRCRAFT WEIGHT AND BALANCE RECORDS TO SHOW THE REMOVAL OF THE ORIGINAL PROPELLERS AND SPINNERS AND THE ADDITION OF THE NEW PROPELLERS AND SPINNERS AT THE SAME MOMENT ARM. SEE TABLE 3 FOR APPLICABLE EQUIPMENT WEIGHTS.

NOTE: THE WEIGHT DIFFERENCE BETWEEN COMPONENTS NOT LISTED IN TABLE 3, SUCH AS THE DE-ICE TIMER OR BRUSH BLOCK AND MOUNTING BRACKET, IS NEGLIGIBLE.

17. COMPLETE THE APPROPRIATE LOGBOOK ENTRIES AND RETURN AIRCRAFT TO SERVICE WITH FAA FORM 337 REFERENCING STC.

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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 9 OF 14

SECTION 2 : FACTORY INSTALLATION (New production aircraft)

A. ELIGIBILITY:

HAWKER BEECHCRAFT G58 BARON EQUIPPED AS SHOWN IN TABLE 5.

TABLE 5: AIRCRAFT LIMITATIONS.

ITEM	MAKE / MODEL	LIMITATIONS
ENGINE	TELEDYNE CONTINENTAL MOTORS IO-550-C	MAXIMUM CONT. POWER: 300 HP MAXIMUM CONT. RPM: 2700
GOVERNORS	WOODWARD D210939, D210662, 210662, B210710, A210780, OR B210800 [3 LBS. EA.]	

B. NOTES:

1. FOR PROPELLER ADJUSTMENT AND OPERATION, FOLLOW THE PROCEDURES OUTLINED IN HARTZELL PROPELLER, INC. PROPELLER OWNERS MANUAL NO. 115N, REVISION 11, DATED DECEMBER 2004 OR LATER FAA APPROVED REVISION.
2. FOR DE-ICE EQUIPMENT INSTALLATION, REFER TO HARTZELL DRAWING, REVISION A OR LATER FAA APPROVED REVISION AND HARTZELL DRAWING 103538, REVISION A OR LATER FAA APPROVED REVISION.
3. FOR INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, REFER TO HARTZELL DOCUMENT 20002-30, REV. A, OR LATER FAA APPROVED REVISION.
4. AIRPLANE FLIGHT MANUAL SUPPLEMENT AFMS 20002-1 IS REQUIRED FOR MODEL G58 BARON AIRPLANES, SERIAL NUMBER TH-1396 AND AFTER.

C. REFERENCE INFORMATION:

THE APPLICABLE COMMERCIAL PART NUMBERS ARE SHOWN FOR ~~ADVISORY~~ CONVENIENCE IN TABLE 6 BELOW:


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Make HAWKER BEECHCRAFT CORPORATION	Model 58, 58A, G58 BARON	Date: 09-29-2009	Revision: D	Drawing No. 20002-0000
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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS	Page: 10 OF 14
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TABLE 6: COMMERCIAL PART NUMBERS

STANDARD PRODUCTION PAINT SCHEME?	PROPELLER DE-ICE INSTALLED?	AIR-CONDITIONING INSTALLED?	PROPELLER ASSEMBLY PART NUMBER
NO	YES	YES	J3F10880S
NO	YES	NO	J3F10881S
YES	YES	YES	J3F10850S
YES	YES	NO	J3F10851S
YES	NO	YES	J3F10800S
YES	NO	NO	J3F10801S

D. PREPARATION:

- DETERMINE WHETHER OR NOT THE AIRCRAFT IS EQUIPPED WITH A FACTORY AIR CONDITIONING SYSTEM (COMPRESSOR MOUNTED ON LEFT ENGINE).
- VERIFY PROPELLERS BEING INSTALLED CONFORM TO THE PROPELLER LIMITATIONS SHOWN IN TABLE 7.

TABLE 7: PROPELLER LIMITATIONS.

HUB MODEL	PHC-J3YF-2UF
BLADE MODEL	FC7391D(K)
MAX. DIAMETER (IN.)	75
MIN. DIAMETER (IN.)	73
FEATHER ANGLE (30-IN. STA.)	80.0° ± 0.5°
HIGH PITCH ANGLE (30-IN. STA.)	18.5° ± 1.0°
LOW PITCH ANGLE (30-IN. STA.) (300 HP ENGINE)	12.8° ± 0.2°
SPINNER ASSY. P/N (NO AIR COND.)	C-3567-1(P)
SPINNER ASSY. P/N (WITH AIR COND.)	C-3567-4(P)

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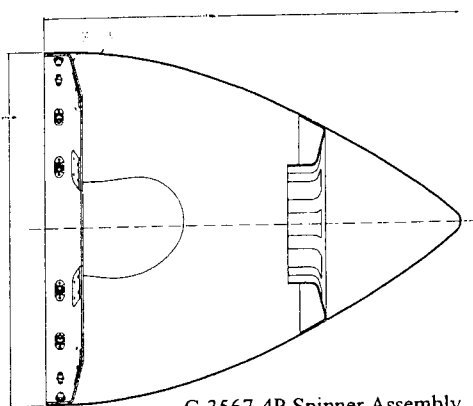
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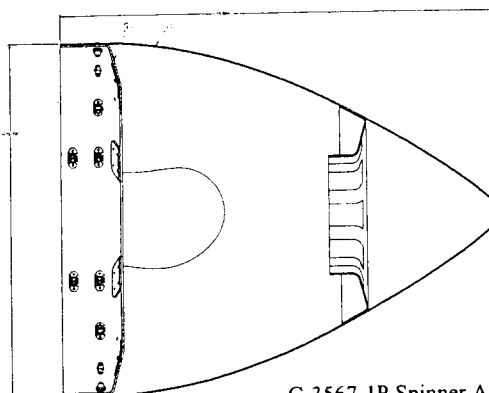
Make HAWKER BEECHCRAFT CORPORATION	Model 58, 58A, G58 BARON	Date: 09-29-2009	Revision: D	Drawing No. 20002-0000
Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 11 OF 14

TABLE 8: EQUIPMENT WEIGHT.

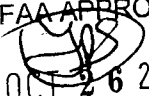
ITEM	QTY.	WEIGHT (LBS.)
PROPELLER, HARTZELL PHC-J3YF-2UF/FC7391D	2	85.0 (EA.)
PROPELLER, HARTZELL PHC-J3YF-2UF/FC7391DK (WITH DE-ICE)	2	88.5 (EA.)
SPINNER, HARTZELL C-3567-1(P)	2	6.0 (EA.)
SPINNER, HARTZELL C-3567-4(P) (FOR AIR COND.)	2	5.5 (EA.)



C-3567-4P Spinner Assembly



C-3567-1P Spinner Assembly

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INSTALLATION INSTRUCTIONS

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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 12 OF 14

E. INSTALLATION PROCEDURE FOR PHC-J3YF-2UF/FC7391D (NON-DE-ICE) PROPELLERS:

1. INSTALL NEW SPINNER BULKHEAD ON EACH PROPELLER IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-4P SPINNER ASSEMBLY.

2. INSTALL PHC-J3YF-2UF/FC7391D PROPELLER ON EACH ENGINE IN ACCORDANCE WITH HARTZELL MANUAL 115N. USE ONLY NEW MOUNTING HARDWARE SUPPLIED WITH EACH PROPELLER.

3. INSTALL NEW SPINNER DOMES IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-4P SPINNER ASSEMBLY.

4. VERIFY THAT THE AIRCRAFT OPERATING LIMITATIONS PROHIBIT FLIGHT IN ICING CONDITIONS. IF NOT, FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED"

5. CHECK BAFFLE SEALS FOR PROPER FIT. REPLACE WORN SEALS WHERE NECESSARY. SEAL GAPS WITH RTV SEALANT. VERIFY FWD BAFFLE SEAL DOES NOT INTERFERE WITH ANY ROTATING PROPELLER COMPONENTS. VERIFY COWL FLAP SYSTEM IS RIGGED IN ACCORDANCE WITH THE LATEST HAWKER BEECHCRAFT SERVICE MANUAL.

6. ATTACH A COPY OF THE AIRPLANE FLIGHT MANUAL SUPPLEMENT PER SECTION B TO THE AIRPLANE FLIGHT MANUAL.

7. GROUND RUN ENGINES AND ADJUST GOVERNORS IN ACCORDANCE WITH HARTZELL MANUAL 115N.

8. WEIGH AIRPLANE AND RECORD NEW EMPTY WEIGHT AND CG LOCATION IN AIRCRAFT LOGS PER FAA AC 43.13-1B, OR REVISE THE EXISTING AIRCRAFT WEIGHT AND BALANCE RECORDS TO SHOW THE REMOVAL OF THE ORIGINAL PROPELLERS AND SPINNERS AND THE ADDITION OF THE NEW PROPELLERS AND SPINNERS AT THE SAME MOMENT ARM. SEE TABLE 8 FOR APPLICABLE EQUIPMENT WEIGHTS.

9. COMPLETE THE APPROPRIATE LOGBOOK ENTRIES AND FAA FORM 337 REFERENCING STC.

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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 13 OF 14

F. INSTALLATION PROCEDURE FOR PHC-J3YF-2UF/FC7391DK (DE-ICE) PROPELLERS:

NOTE: INSTALLATION LIMITED TO AIRCRAFT SERIAL NO. TH-1231 AND LATER EQUIPPED WITH EXISTING ELECTRO-THERMAL DE-ICE SYSTEM.

1. INSTALL NEW HARTZELL SPINNER BULKHEADS ON THE PHC-J3YF-2UF/FC7391DK PROPELLERS IN ACCORDANCE WITH HARTZELL MANUAL 115N.

NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. BULKHEADS FROM C-3567-4P SPINNER ASSEMBLY.

2. INSTALL DE-ICE SYSTEM ROTATING COMPONENTS (WIRE HARNESS, SLIP RING, MOUNTING PLATE, ETC.) ON THE PROPELLERS IN ACCORDANCE WITH HARTZELL DRAWING 103294. SEE TABLE 9 FOR APPLICABLE DE-ICE KIT PART NUMBERS.

TABLE 9: PROPELLER DE-ICE EQUIPMENT.

AIR COND.	HARTZELL PROP KIT P/N	HARTZELL AIRFRAME KIT P/N
NO	103294-1	103294-4
YES	103294-1	103294-5

4. INSTALL ENGINE-MOUNTED MODULAR BRUSH ASSEMBLIES AND MOUNTING BRACKETS IN ACCORDANCE WITH HARTZELL DRAWING 103294.

NOTE: TO INSTALL THE MOUNTING BRACKET, IT IS NECESSARY TO REMOVE AND RE-INSTALL THE TWO FWD CRANKCASE FLANGE NUTS. TORQUE CRANKCASE FLANGE NUTS PER LATEST TELEDYNE CONTINENTAL MOTORS SERVICE BULLETIN SB96-7.

NOTE: TO INSTALL THE LEFT ENGINE BRUSH ASSEMBLY MOUNTING BRACKET ON AIRCRAFT EQUIPPED WITH AIR CONDITIONING, IT IS NECESSARY TO REMOVE AND RE-INSTALL THE AIR CONDITIONING COMPRESSOR MOUNTING BRACKET PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL. USE EXISTING HARDWARE WHERE NECESSARY.

5. INSTALL DE-ICE EQUIPPED PROPELLERS ON THE AIRCRAFT IN ACCORDANCE WITH HARTZELL MANUAL 115N. USE ONLY NEW MOUNTING HARDWARE SUPPLIED WITH EACH PROPELLER.

6. FOR AIRCRAFT EQUIPPED WITH AIR CONDITIONING, SHIM COMPRESSOR MOUNTING BRACKET AS NEEDED TO ALIGN PULLEYS. ADJUST THE COMPRESSOR PULLEY AND BELT TENSION PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL.

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Reference: STC No. SA10551SC	Title: INSTALLATION INSTRUCTIONS FOR HARTZELL MODEL NO. PHC-J3YF-2UF/FC7391D(K) PROPELLERS			Page: 14 OF 14

6. INSTALL NEW SPINNER DOMES IN ACCORDANCE WITH HARTZELL MANUAL 115N.
NOTE: FOR AIRCRAFT WITHOUT AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-1P SPINNER ASSEMBLY.
FOR AIRCRAFT WITH AIR CONDITIONING, USE 2 EA. DOMES FROM C-3567-4P SPINNER ASSEMBLY.
8. INSTALL GOODRICH 3E1964-3 DE-ICE TIMER PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL.
9. VERIFY THAT THE AIRCRAFT OPERATING LIMITATIONS AND INSTALLED EQUIPMENT ALLOW FLIGHT IN ICING CONDITIONS. IF NOT, FABRICATE AND INSTALL THE FOLLOWING PLACARD ON THE INSTRUMENT PANEL IN CLEAR VIEW OF THE PILOT (LETTER HEIGHT 0.10 INCHES, MINIMUM):

"FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED"
10. CHECK BAFFLE SEALS FOR PROPER FIT. REPLACE WORN SEALS WHERE NECESSARY. SEAL GAPS WITH RTV SEALANT. VERIFY FWD BAFFLE SEAL DOES NOT INTERFERE WITH ANY ROTATING PROPELLER COMPONENTS. VERIFY COWL FLAP SYSTEM IS RIGGED IN ACCORDANCE WITH THE LATEST HAWKER BEECHCRAFT SERVICE MANUAL.
11. ATTACH A COPY OF THE AIRPLANE FLIGHT MANUAL SUPPLEMENT PER SECTION 2B TO THE AIRPLANE FLIGHT MANUAL.
12. GROUND RUN ENGINES AND ADJUST GOVERNORS IN ACCORDANCE WITH HARTZELL MANUAL 115N.
13. VERIFY PROPELLER DE-ICE SYSTEM FUNCTIONS PROPERLY PER LATEST HAWKER BEECHCRAFT SERVICE MANUAL.
14. WEIGH AIRPLANE AND RECORD NEW EMPTY WEIGHT AND CG LOCATION IN AIRCRAFT LOGS PER FAA AC 43.13-1B, OR REVISE THE EXISTING AIRCRAFT WEIGHT AND BALANCE RECORDS TO SHOW THE REMOVAL OF THE ORIGINAL PROPELLERS AND SPINNERS AND THE ADDITION OF THE NEW PROPELLERS AND SPINNERS AT THE SAME MOMENT ARM. SEE TABLE 8 FOR APPLICABLE EQUIPMENT WEIGHTS.
NOTE: THE WEIGHT DIFFERENCE BETWEEN COMPONENTS NOT LISTED IN TABLE 8, SUCH AS THE DE-ICE TIMER OR BRUSH BLOCK AND MOUNTING BRACKET, IS NEGLIGIBLE.
15. COMPLETE THE APPROPRIATE LOGBOOK ENTRIES AND FAA FORM 337 REFERENCING STC.

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