



KING AIR 200/B200 SERIES WITH PT6A-52

ENGINES

STC SA10824SC

EASA.IM.A.S.02839

ANAC 2008S05-15

KIT SA10824SC-1

THIS DOCUMENT IS SIMPLY AN OUTLINE OF THE STC INSTALLATION PROCESS *FOR PLANNING PURPOSES ONLY*. THE FAA APPROVED DOCUMENTS IDENTIFIED ON THE STC CERTIFICATE SUPERCEDED THIS DOCUMENT AND SHOULD BE USED FOR ALL INSTALLATION & OPERATIONAL PURPOSES.

AIRCRAFT APPLICABILITY:

200; 200C; 200CT; 200T

A200; A200C; A200CT

B200; B200C; B200CT; B200T

ALL SERIAL NUMBERS

ELIGIBLE PROPELLERS:

HARTZELL

HC-E4N-3G/D9390SK-1R

RAISBECK

HC-D4N-3A/D9383K (INSTALLED PER STC SA2698NM-S)

COMPATIBLE ALTERATIONS:

NOTE: Serial number eligibility is per the applicable STC

STC SA3831NM ENHANCED PERFORMANCE LEADING EDGES

STC SA3519NM DUAL AFT BODY STRAKES

STC SA3366NM RAM AIR RECOVERY SYSTEM

STC SA4175NM FULLY ENCLOSED MLG DOORS

NOTE: All Raisbeck performance packages are eligible per applicable aircraft serial numbers

REQUIRED AIRCRAFT CONFIGURATION:

Aircraft must be equipped with an OEM 'flow-thru' type engine air inlet anti-ice or changed to this configuration per SB 78-2372 or Butterfield Industries STC SA2905NM

Proline 21 aircraft must be IFIS equipped

Blackhawk Modifications, Inc.
7601 Karl May Drive • Waco, TX 76708
(254) 755-6711 • (254) 754-1532

STC SA10737SC-1

Rev. 02/15

FOR ESTIMATED PLANNING PURPOSES ONLY



MAJOR INSTALLATION TASKS REQUIRED:

1. PRE-MOD AIRCRAFT PERFORMANCE EVALUATION (FLIGHT CHECK). COMPLETE THE PRE-MOD PERFORMANCE WORKSHEET, BH-010, AND PROVIDE BMI WITH A COPY.
2. PWC ACCEPTANCE OF EXISTING ENGINES AS CORES. COMPLETE THE ENGINE CORE QUALIFICATION WORKSHEET, BH-018, AND SUBMIT TO BMI.
3. REMOVAL OF EXISTING ENGINES AND PROPELLERS.
4. CLEAN, INSPECT, REPAIR FIREWALL AND RETAINED EQUIPMENT AS NECESSARY.
5. REMOVE (OR REPLACE AT CUSTOMER'S DISCRETION) EXISTING GAS GENERATOR TACHOMETERS, ITT, AND OIL PRESS/TEMP INDICATORS PER STC INSTRUCTIONS.
6. TRANSFER COMPONENTS FROM OLD TO NEW ENGINE
7. IF NOT ALREADY EQUIPPED, REPLACE THE AIR CONDITIONING COMPRESSOR DRIVE "DRY SPLINE" QUILL SHAFT WITH A "WET SPLINE" QUILL SHAFT PER BEECH SB 21-3303, REV.1. REQUIRED PARTS ARE CUSTOMER SUPPLIED.
8. INSTALL NEW ENGINE.
 - A. TWO REPLACEMENT FUEL PURGE HOSES REQUIRED
 - B. NO CONTROL CABLE REPLACEMENTS
 - C. SMALL COWLING FLUSH PATCH REQUIRED OVER REMOVED OVERBOARD BLEED AIR LOUVERS.
 - D. SMALL WELDED MODIFICATION TO RIGHT OVERBOARD BLEED AIR EXHAUST DUCT REQUIRED.
 - E. FABRICATE SUPPORT BRACKET FOR TYPE I PROP SYNC ACTUATOR, IF EQUIPPED
 - F. USE INSTALLATION CHECKLIST, RIG ENGINES
9. IF THE ENGINE INLET ANTI-ICE WAS PREVIOUSLY MODIFIED BY BUTTERFIELD INDUSTRIES STC SA2905NM, THE BLOCKER DAM IS REQUIRED TO BE WELDED IN-PLACE
10. AIRPLANES CURRENTLY EQUIPPED WITH 3-BLADE PROPELLERS REQUIRE CHANGE TO ELIGIBLE 4-BLADE PROPELLERS WITH NEW PROPELLER DE-ICE KIT (CUSTOMER SUPPLIED). WIRING CHANGES REQUIRED.
11. PROLINE 21 AIRCRAFT WILL REQUIRE WIRING MODIFICATIONS AND POSSIBLE AFD, DCU & EDC UP-GRADES; REFER TO BMI DWG 05210001-02
12. GROUND RUN-UP & TEST FLIGHT, COMPLETE POST-MOD FLIGHT SHEET BH-001
13. RETURN TO SERVICE, BLACKHAWK RECOMMENDS THE AIRCRAFT BE RE-WEIGHED TO ESTABLISH CORRECT POST-MOD WEIGHT & BALANCE DATA

NOTES:

1. ELIGIBLE ON GARMIN EQUIPPED AIRPLANES. G1000 REQUIRES A RE-CONFIGURATION
2. FULL AFMS PERFORMANCE (TAKEOFF TO LANDING).
3. WEIGHT CHANGE +59 lbs @ 6164.4 in lbs

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4. IF ANY DIFFICULTIES, QUESTIONS OR CONCERNS ARISE DURING THE INSTALLATION, PLEASE DON'T HESITATE TO CALL BLACKHAWK CUSTOMER SUPPORT: (254)755-6711 OR CUSTOMER.SUPPORT@BLACKHAWK.AERO

REQUIRED DOCUMENTS:

Qty.	Part Description	Part Number
1	STC certificate with signed limited use license	SA10824SC
1	Airplane Flight Manual Supplement	200708XX (1)
1	Instruction For Continued Airworthiness	200708-30
1	Installation Drawings	05210050, 05210000, 05210001, 05210001-01
1	Rigging Instructions	06010109
1	Post-Mod gnd & flt performance ws	BH-001
1	Pre-Mod gnd & flt performance ws	BH-010
1	Engine core qualification instructions	BH-018

NOTES: (1) XX – SUFIX IS DEPENDANT UPON AIRCRAFT SERIAL NUMBER AND EQUIPMENT INSTALLED

BLACKHAWK SUPPLIED PARTS:

Qty.	Part Description	Part Number
2	Engine, Turbo-Propeller	PT6A-52 (BS 1228)
2	Valve, Fuel Flow Divider & Dump (1)	3019906 (or later equivalent p/n)

NOTES: (1) IF REQUIRED PER AIRCRAFT S/N & INSTALLED EQUIPMENT

ADDITIONAL REQUIRED PARTS: CUSTOMER SUPPLIED

Qty.	Part Description	Part Number
AR	Oil, Turbine Engine	Per PWC SB 13001
2	Bracket, Idle Condition Control	114-940024-1 ⁽¹⁾
2	Arm, Idle Condition Lever	101-940001-15 ⁽¹⁾ or -29 ⁽¹⁾
2	Prop De-Ice Kit	(If replacing 3-blade propeller) See ⁽²⁾ ⁽³⁾
1	Shaft, A/C Compressor Drive Quill ⁽⁴⁾	117-910058-7 ⁽⁵⁾
1	Shaft, A/C Compressor Drive Quill ⁽⁴⁾	117-910058-5 ⁽⁶⁾
1	Pulley, Quill Shaft A/C Comp. Drive ⁽⁴⁾	117-910059-3 ⁽⁶⁾
1	O-Ring, Quill Shaft	AS3209-113
1	Washer, Quill Shaft ⁽⁴⁾	129-910045-1
3"x6"	Aluminum Sheet, Clad ⁽⁷⁾	2024-T3, .063t
6"x12"	Aluminum Sheet, Clad ⁽⁸⁾	6061-T6, .090t
14"x32"	Aluminum Sheet, Clad ⁽¹⁰⁾	2024-T3 or 6061-T6, .032t
1	Hose Assy. L/H Fuel Purge	330997F4-0380 ⁽⁹⁾

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1	Hose Assy. R/H Fuel Purge	330997F4-0246 ⁽⁹⁾
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- (1) An alternate part can be fabricated per Dwg. 05210001 detail 06010001-01-4 & -01-5
- (2) Raisbeck STC SA2698NM-S includes complete Propeller and De-Ice installation kit.
Continued next page...
- (3) Hartzell/Beech propeller kit includes propeller bulkhead, screws, and spinner. Required propeller de-ice components are individually procured and include new brushes and shims, remarked ammeter, new timer, new switches, new circuit breakers, and modification to brush bracket. Refer to installation drawing 05210002.
- (4) Required only if not currently equipped with a 'wet spline' quill shaft
- (5) For Dual V-Belt type drive pulley only, refer to Beech SB 21-3303
- (6) For thin Ribbed-Belt type drive pulley only, refer to Beech SB 21-3303
- (7) Only required if equipped with Type I Prop Sync to fabricate 0601001-01-7 actuator support bracket
- (8) Required to modify the BOV Exhaust Duct
- (9) Beech p/n's shown, for equivalent p/n's see dwg 05210001 table 1
- (10) Required to patch left side cowl after removal of BOV outlet louvers

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