



SERVICE No. BFA-001 BULLETIN

BOB FIELDS AEROCESSORIES

340 EAST SANTA MARIA ST.

SANTA PAULA, CA 93060

U.S.A.

PHONE: 805-525-6236

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BOB FIELDS AEROCESSORIES
CONSIDERS COMPLIANCE MANDATORY

DATE: NOVEMBER 3, 1998

SUBJECT:

THIS SERVICE BULLETIN REMOVES OR DISABLES AN EXISTING *BOB FIELDS AEROCESSORIES ELECTRIC INFLATABLE DOOR SEAL SYSTEM* AND REPLACES THE CURRENT SYSTEM WITH A MANUAL INFLATION SYSTEM OR AN IMPROVED ELECTRIC SYSTEM.

MODELS AFFECTED:

BOB FIELDS AEROCESSORIES ECONOMY MANUAL AND DELUXE MANUAL DOOR SEAL INSTALLATIONS ARE UNAFFECTED BY THIS SERVICE BULLETIN. ALL ELECTRICAL SYSTEMS FOR INFLATABLE DOOR SEALS, INSTALLED IN ACCORDANCE WITH ONE OF THE LISTED SUPPLEMENTAL TYPE CERTIFICATES OR BY FAA FIELD APPROVAL (FAA FORM 337), ARE AFFECTED BY THIS SERVICE BULLETIN.

STC NUMBER	MODELS AFFECTED	SERIAL NUMBERS
SA2511NM	Bellanca Models 17-30, 17-31, and 17-31TC	ALL
SA2510NM	Bellanca Models 17-30A, 17-31A, and 17-31ATC	ALL
SA3735NM	Cessna Models 170, 170A, and 170B	ALL
SA4283WE	Cessna Models 172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, and 172N	ALL
SA4177WE	Cessna Models 175, 175A, 175B, and 175C	ALL
SA4284WE	Cessna Models 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, and 180K	ALL
SA4285WE	Cessna Models 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, R182, and TR182	ALL

STC NUMBER	MODELS AFFECTED	SERIAL NUMBERS
SA3736NM	Cessna Models 185, 185A, 185B, 185C, 185D, A185E, and A185F	ALL
SA4286WE	Cessna Models 206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TP206D, TP206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, and TU206G	ALL
SA4212WE	Cessna Models 210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N, 210-5 (205), and 210-5A (205A)	ALL
SA2226NM	Cessna Models P210N and P210R	ALL
SA4136WE	Cessna Models 310, 310A, 310B, 310C, 310D, 310F, 310G, 310H, 310I, 310J, 310K, 310L, 310N, 310P, 310Q, 310R, T310P, T310Q, and T310R	ALL
SA4287WE	Cessna Models 320, 320A, 320B, 320C, 320D, 320E, 320F, and 320-1	ALL
SA4178WE	Mooney Models M20, M20A, M20C, M20D, M20E, M20F, M20G, M20J, and M20K	ALL
SA4234WE	The New Piper Aircraft, Inc. (Piper) Models PA-34-200, PA-34-200T, and PA-34-220T	ALL
SA4237WE	Piper Models PA-23, PA-23-160, PA-23-235, PA-23-250, and PA-E23-250	ALL
SA4179WE	Piper Models PA-24, PA-24-250, PA-24-260, and PA-24-400	ALL
SA4236WE	Piper Models PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28-235, PA-28-151, PA-28-181, PA-28-161, PA-28-236, PA-28-201T, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, and PA-28RT-201T	ALL
SA4238WE	Piper Models PA-30, PA-39, and PA-40	ALL
SA4385WP	Piper Models PA-31, PA-31-300, PA-31-325, and PA-31-350	ALL
SA4288WE	Piper Models PA-32-260, PA-32-300, PA-32S-300, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301, PA-32R-301T, PA-32RT-300, and PA-32RT-300T	ALL
SA4235WE	Piper Models PA-44-180 and PA-44-180T	ALL
SA4180WE	Raytheon (Beech) Models H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, 36, A36, A36TC, and B36TC	ALL

STC NUMBER	MODELS AFFECTED	SERIAL NUMBERS
SA4282WE	Raytheon (Beech) Models 35, A35, B35, C35, D35, E35, F35, G35, and 35R	ALL
SA4240WE	Raytheon (Beech) Models 50, B50, C50, D50, D50A, D50B, D50C, D50E, D50E-5990, E50, F50, G50, H50, and J50	ALL
SA4184WE	Raytheon (Beech) Models 95, B95, B95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, 95-C55, D55, E55, 56TC, 58, and 58A	ALL
SA4239WE	Raytheon (Beech) Models 58P, 58PA, 58TC, and 58TCA	ALL
SA4316WE	Wing Aircraft Company Model D-1 Airplanes	ALL

COMPLIANCE TIME: PRIOR TO NEXT FLIGHT.

PURPOSE:

FIELD REPORTS INDICATE THAT THE *BOB FIELDS ELECTRIC INFLATABLE DOOR SEAL SYSTEM*, ON SEVERAL OCCASIONS, HAS OVERHEATED AND CREATED SMOKE AND FIRE IN COCKPITS WHEN THE ELECTRIC PUMP HAS BEEN ALLOWED TO RUN CONTINUOUSLY. THIS SERVICE BULLETIN REQUIRES A ONE TIME INSPECTION TO DETERMINE IF THE *BOB FIELDS AEROCESSORIES ELECTRIC INFLATABLE DOOR SEAL SYSTEM* HAS BEEN PREVIOUSLY INSTALLED. IF SO, ALL COMPONENTS FOR THE ELECTRIC SYSTEM MUST BE DISARMED, DISCONNECTED OR REMOVED AT THIS TIME. THE PARTS AFFECTED ARE BOB FIELDS AEROCESSORIES PSM-3000 12 OR PSM-3000 24 COMPRESSORS AND RH-50 RESISTOR(S).

INSTRUCTIONS:

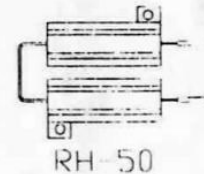
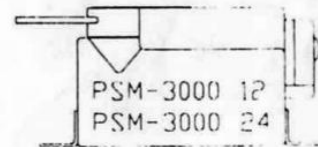
THERE ARE TWO OPTIONS TO COMPLY WITH THIS SERVICE BULLETIN. THESE OPTIONS ARE DESCRIBED BELOW.

OPTION A: ALL PERVIOUS ELECTRICAL SYSTEMS CAN EASILY BE CONVERTED INTO A DELUXE MANUAL SYSTEM AS SHOWN IN DRAWING #BFA 1894-KIT ON PAGE 7 OF THIS SERVICE BULLETIN. SIMPLY CONNECT THE NEW BULB AND HOSE ASSEMBLY TO THE 3814-6 HOSE THAT WAS ATTACHED TO THE ELECTRIC PUMP AND INFLATE THE DOOR SEALS MANUALLY. COMPLETE REMOVAL OF THE ELECTRIC SYSTEM IS NOT REQUIRED.

OPTION B: ALL PREVIOUS ELECTRICAL SYSTEMS CAN ALSO BE CONVERTED INTO AN IMPROVED ELECTRICAL SYSTEM AS SHOWN IN DRAWING #BFA 54-1000 ON PAGES 8 AND 9 OF THIS SERVICE BULLETIN. THE NEW COMPRESSOR PUMP WAS DESIGNED TO BE A DIRECT REPLACEMENT FOR THE OLD PUMP.

REMOVAL/DEACTIVATION OF THE PREVIOUS ELECTRICAL SYSTEM.

1. DISCONNECT AIRCRAFT BATTERY.
2. LOCATE BOB FIELDS AEROCESSORIES ELECTRICAL PUMP PART # PSM-3000 12 OR PSM-3000 24.
3. TRACE POSITIVE WIRE FROM ELECTRIC PUMP TO THE MAIN AIRCRAFT ELECTRICAL BUSS. THERE MAY BE AN IN-LINE FUSE ATTACHED TO THIS WIRE OR IT MAY BE CONNECTED TO A PUSH PULL TYPE CIRCUIT BREAKER. ADDITIONALLY, ON 24 VOLT SYSTEMS, THERE WILL BE DROP DOWN RESISTOR(S), BOB FIELDS AEROCESSORIES PART # RH-50, INSTALLED. REMOVE COMPRESSOR, RESISTOR(S), FUSE OR CIRCUIT BREAKER AND WIRE, AS REQUIRED. [OPTION A - IF THE ELECTRICAL SYSTEM IS TO BE DEACTIVATED, BUT REMAIN IN THE AIRCRAFT, INSTALL A PLACARD, MINIMUM 0.10 LETTERS, IN PLAN VIEW OF THE PILOT, STATING THE ELECTRIC INFLATABLE DOOR SEAL PUMP HAS BEEN DEACTIVATED.]
4. DETERMINE IF THE OPTIONAL CAUTION LIGHT WAS INSTALLED IN AIRCRAFT. IF THIS LIGHT IS INSTALLED IN A 12 VOLT AIRPLANE AND IS IN CLEAR VIEW OF THE PILOT, IT MAY REMAIN INSTALLED. IF THIS LIGHT IS INSTALLED IN A 24 VOLT AIRPLANE IT MUST BE REMOVED.
5. DISCONNECT POSITIVE ELECTRICAL WIRE FROM THE PUMP ASSEMBLY. DISCONNECT ELECTRICAL GROUND WIRE FROM THE PUMP ASSEMBLY.
6. DISCONNECT THE 3814-6 HOSE AT THE PUMP. LEAVE THIS AIR LINE HOSE AND THE REMAINING DOOR SEAL SYSTEM INSTALLED IF THE SYSTEM IS TO BE RECONNECTED WITH AN ALTERNATIVE INFLATION METHOD.
7. RETAIN HARDWARE.



INSTALLATION OF MANUAL INFLATION SYSTEM (REF: DRAWING #BFA 1894-KIT):

1. INSTALL THE MANUAL PUMP AS SHOWN ON DRAWING BFA 1894-KIT.

2. REMOVE THE 3418-6 HOSE FROM THE ELECTRIC PUMP ASSEMBLY AND ATTACH IT TO THE MANUAL BULB ASSEMBLY.
3. ATTACH THE 1131-5 GUIDE AND THE 225-S CLIP IN A CONVENIENT LOCATION FOR THE PILOT.
4. TO INFLATE DOOR SEAL SYSTEM, POSITION THE MTV-3P CONTROL VALVE IN THE ACTIVATE OR INFLATE POSITION. SQUEEZE THE BLOOD PRESSURE BULB UNTIL DOOR SEALS WILL NOT ACCEPT ADDITIONAL PRESSURE. DOOR SEALS ARE NOW FULLY INFLATED. ANYTIME DURING FLIGHT THE DOOR SEALS CAN BE INFLATED TO COMPENSATE FOR SMALL LEAKS. AFTER LANDING DEFLATE DOOR SEALS BY POSITIONING THE MTV-3P CONTROL VALVE IN THE DEFLATE OR OFF POSITION.
5. MAKE APPROPRIATE LOG BOOK ENTRIES.

INSTALLATION OF NEW ELECTRICAL SYSTEM (REF DRAWING #BFA 54-INST):

NOTE: ALL WIRING MUST BE A MINIMUM OF 22 GAUGE. THIS WIRE MUST MEET MIL-SPEC-W16868-D.

1. INSTALL NEW PUMP, P/N BFA 54-1000, IN SAME LOCATION USING THE SAME HARDWARE AS THE OLD PUMP. THE PUMP ASSEMBLY WAS DESIGNED TO FIT IN THE SAME BASIC ENVELOPE AS THE OLD PUMP.
2. ATTACH PUMP TO AIRCRAFT GROUND TERMINAL AS NOTED.
3. IF CAUTION LIGHT WAS PREVIOUSLY INSTALLED IN A 12 VOLT AIRPLANE, SKIP THIS STEP. IF CAUTION LIGHT WAS NOT INSTALLED OR THIS IS A 24 VOLT AIRPLANE - INSTALL CAUTION LIGHT ON PANEL IN CLEAR VIEW OF THE PILOT. ATTACH NEGATIVE LEAD OF THE CAUTION LIGHT TO AIRCRAFT GROUND AND THE POSITIVE LEAD TO THE PUMP TERMINAL NOTED. GO TO STEP 5.
4. ATTACH THE CAUTION LIGHT POSITIVE LEAD TO THE NOTED TERMINAL ON THE PUMP ASSEMBLY. ASSURE THAT THE NEGATIVE LEAD IS ATTACHED TO THE AIRCRAFT GROUND.
5. INSTALL THE TOGGLE CIRCUIT BREAKER SWITCH, W31-X2M1G-2, AND PLACARD 3906 ON THE PANEL NEAR THE AIR CONTROL VALVE SWITCH.
6. WIRE THE TOGGLE SWITCH AND PUMP ASSEMBLY TO THE AIRCRAFT POWER AS INDICATED ON THE ELECTRICAL SCHEMATIC. NOTE: IF THE AIRCRAFT ELECTRICAL SYSTEM IS 12 VOLT, ATTACH TO THE 12 VDC TERMINAL; IF 24 VOLT, ATTACH TO THE 24 VDC TERMINAL.

7. ATTACH 3814-6 HOSE TO NEW PUMP ASSEMBLY USING (2) 11752-3 HOSE BARBS AND (1) 15004 CONNECTOR.
8. AFFIX PLACARD 3904 NEAR CAUTION LIGHT. THIS PLACARD MUST BE IN CLEAR VIEW OF THE PILOT. IF APPLICABLE, REMOVE PREVIOUSLY INSTALLED PLACARD, P/N 3903.
9. PLACARD 3901 SHOULD BE AFFIXED UNDER THE CONTROL VALVE. PLACARD 3902 SHOULD BE AFFIXED TO THE PILOT SIDE WINDOW. BOTH THESE PLACARDS SHOULD HAVE BEEN PREVIOUSLY INSTALLED.
10. CONNECT AIRCRAFT BATTERY.
11. CHECK DOOR SEAL ACTIVATE SWITCH AND TOGGLE SWITCH IN OFF POSITION. MASTER POWER SWITCH ON. DOOR SEAL POWER ON: CAUTION LIGHT SHOULD ILLUMINATE MOMENTARILY, DOOR SEALS SHOULD NOT INFLATE. DOOR SEAL ACTIVATE ON; CAUTION LIGHT SHOULD ILLUMINATE FOR APPROXIMATELY 10-25 SECONDS; DOOR SEAL(S) SHOULD INFLATE.
12. MAKE APPROPRIATE LOG BOOK ENTRIES.

MATERIALS REQUIRED:

FOR OPTION A TO CONVERT TO A DELUXE MANUAL INFLATION SYSTEM. PARTS NEEDED (1) 6894 PRESSURE BULB, (1) 1894 DM AIR FLOW VALVE, (1) 2910 TUBING, (1) 1110 FITTING, (1) 1131-5 GUIDE, (1) 225-S CLIP, (2) R675 RIVNUT, (2) AN526-R6 SCREW. REFERENCE BOB FIELDS AEROCESSORIES DRAWING #BFA 1894-KIT.

FOR OPTION B TO CONVERT TO NEW ELECTRICAL INFLATION SYSTEM. PARTS NEEDED (1) BFA 54-1000 COMPRESSOR, (1) W31-X2M1G-2 TOGGLE CIRCUIT BREAKER SWITCH [POTTER & BRUMFIELD], (1) LFM LED 12 VOLT LIGHT (IF NOT PREVIOUSLY INSTALLED) [SCHURTER P/N 0035.0026], (1) 3904 PLACARD, (1) 3906 PLACARD, (2) 11752-3 HOSE BARBS, (1) 15004 CONNECTOR. REFERENCE BOB FIELDS AEROCESSORIES DRAWING #BFA 54-1000.

AVAILABILITY OF PARTS:

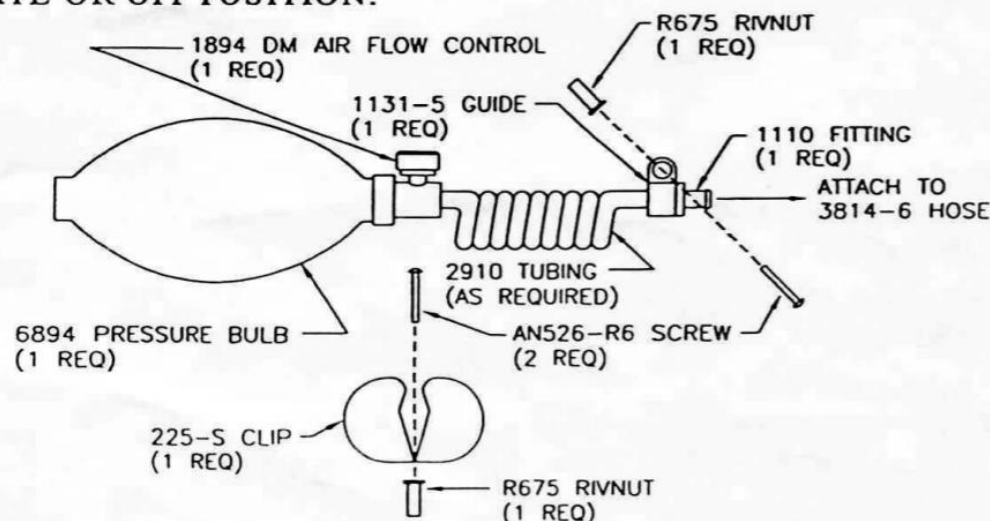
ALL PARTS WILL BE AVAILABLE ON FIRST COME FIRST SERVED BASIS FROM:

**BOB FIELDS AEROCESSORIES
340 EAST SANTA MARIA STREET
P.O. BOX 390
SANTA PAULA, CA 93060**

**PHONE: (805) 525-6236
FAX: (805) 525-5286**

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	10/06/98	C.F.

1. THIS PROCEDURE REMOVES THE BOB FIELDS AEROCESSORIES ELECTRIC INFLATABLE DOOR SEAL PUMP AND REPLACES IT WITH A MANUAL PUMP. THIS MODIFICATION IS FOR ALL BOB FIELDS AEROCESSORIES ELECTRIC INFLATABLE DOOR SEALS INSTALLED UNDER THE APPLICABLE STC.
2. DISCONNECT POWER FROM THE PUMP BY LOCATING THE POWER LEAD ATTACHING THE COMPRESSOR PUMP TO THE AIRCRAFT MAIN POWER BUSS. AT THE OWNER'S DISCRETION THE PUMP AND ASSOCIATED WIRING CAN BE REMOVED AT THIS TIME. IF THE ELECTRIC SYSTEM IS TO BE DEACTIVATED, BUT REMAIN IN THE AIRCRAFT, INSTALL A PLACARD, MINIMUM 0.10 LETTER, IN PLAN VIEW ON THE PILOT, STATING THE ELECTRIC INFLATABLE DOOR SEAL PUMP HAS BEEN DEACTIVATED.
3. INSTALL THE MANUAL PUMP AS SHOWN BELOW.
4. REMOVE THE 3418-6 HOSE FROM THE ELECTRIC PUMP ASSEMBLY AND ATTACH IT TO THE MANUAL BULB ASSEMBLY.
5. ATTACH THE 1131-5 GUIDE AND THE 225-S CLIP IN A CONVENIENT LOCATION FOR THE PILOT.
6. TO INFLATE DOOR SEAL SYSTEM, POSITION THE MTV-3P CONTROL VALVE IN THE ACTIVATE OR INFLATE POSITION. SQUEEZE THE BLOOD PRESSURE BULB UNTIL DOOR SEALS WILL NOT ACCEPT ADDITIONAL PRESSURE. DOOR SEALS ARE NOW FULLY INFLATED. ANYTIME DURING FLIGHT THE DOOR SEALS CAN BE INFLATED TO COMPENSATE FOR SMALL LEAKS. AFTER LANDING DEFLATE DOOR SEALS BY POSITIONING THE MTV-3P CONTROL VALVE IN THE DEFLATE OR OFF POSITION.



DRAWING #BFA 1894-KIT

ITEM	PART NO	DESCRIPTION	QTY
8	R675	RIVNUT	2
7	AN526-R6	SCREW	2
6	225-S	CLIP	2
5	1110	FITTING	1
4	2910	TUBING	A/R
3	1131-5	GUIDE	1
2	6894	PRESSURE BULB	1
1	1894 DM	AIR FLOW CONTROL	1
BILL OF MATERIALS			
UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES			
3 PLACE DECIMAL ± .010			
2 PLACE DECIMAL ± .03			
1 PLACE DECIMAL ± .1			
ANGULAR ± 1°			
NEXT HIGHER ASSY: NONE			
SIZE: C			
DRAWING NO. BFA 1894-KIT			
DWG. TITLE: DELUXE MANUAL CONVERSION FROM ELECTRIC PUMP CONFIGURATION			
CAD FILE NAME: MANUAL.DWG			
DRAWN BY: AVSPEC			
SCALE: 2:1			
REV. -			
DATE: 10/06/98			
APP BY: C. FIELDS			
SHEET 1 OF 1			

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REMOVAL OF PREVIOUS ELECTRICAL SYSTEM.

- 1). DISCONNECT AIRCRAFT BATTERY.
- 2). LOCATE ELECTRICAL PUMP (BOB FIELDS AEROCESSORIES P/N PSM-3000 12 OR PSM-3000 24).
- 3). TRACE POSITIVE WIRE FROM ELECTRICAL PUMP TO THE MAIN AIRCRAFT BUSS. THERE MAY BE AN IN LINE FUSE ATTACHED TO THIS WIRE OR IT MAY BE CONNECTED TO A PUSH/PULL TYPE CIRCUIT BREAKER. ADDITIONALLY, ON 24 VDC SYSTEMS, THERE WILL BE DROP DOWN RESISTORS INSTALLED (P/N RH-50). REMOVE WIRE, IN LINE FUSE, DROP DOWN RESISTORS AND CIRCUIT BREAKER, IF REQUIRED.
- 4). DETERMINE IF THE OPTIONAL CAUTION LIGHT WAS INSTALLED IN AIRCRAFT. IF THIS LIGHT IS INSTALLED IN A 12 VOLT AIRPLANE AND IS IN CLEAR VIEW OF THE PILOT, IT MAY REMAIN INSTALLED. IF THIS LIGHT IS INSTALLED IN A 24 VOLT AIRPLANE IT MUST BE REMOVED. DISCONNECT WIRE FROM THE PUMP ASSEMBLY AND REMOVE LIGHT, IF REQUIRED. REMOVE PREVIOUSLY INSTALLED CAUTION LIGHT PLACARD, P/N 3903.
- 5). DISCONNECT ELECTRICAL GROUND FROM THE PUMP ASSEMBLY.
- 6). DISCONNECT PUMP HOSE (P/N 3814-6) AT THE PUMP, LEAVE THIS AIR LINE HOSE AND THE REMAINDER OF THE DOOR SEAL SYSTEM..
- 7). REMOVE PUMP AND RETAIN HARDWARE.

INSTALLATION OF NEW ELECTRICAL SYSTEM.

NOTE

ALL WIRING MUST BE A MINIMUM OF 22 GAUGE. THIS WIRE MUST MEET MIL SPEC W-16868-D.

- 1). INSTALL NEW PUMP IN SAME LOCATION USING THE SAME HARDWARE AS THE OLD PUMP. THE PUMP ASSEMBLY WAS DESIGNED TO FIT IN THE SAME BASIC ENVELOPE AS THE OLD PUMP.
- 2). ATTACH PUMP TO AIRCRAFT GROUND AT TERMINAL NOTED.
- 3). IF CAUTION LIGHT WAS PREVIOUSLY INSTALLED IN A 12 VOLT AIRPLANE, SKIP THIS STEP. IF CAUTION LIGHT WAS NOT INSTALLED OR THIS IS A 24 VOLT AIRPLANE - INSTALL CAUTION LIGHT ON PANEL IN CLEAR VIEW OF PILOT. ATTACH NEGATIVE LEAD OF THE CAUTION LIGHT TO AIRCRAFT GROUND AND THE POSITIVE LEAD TO THE PUMP TERMINAL NOTED. MOVE TO STEP 5.
- 4). ATTACH THE CAUTION LIGHT POSITIVE LEAD TO THE NOTED TERMINAL ON THE PUMP ASSEMBLY.
- 5). INSTALL THE TOGGLE CIRCUIT SWITCH W31-X2M1G-2 AND PLACARD 3906 ON THE PANEL NEAR THE CONTROL VALVE SWITCH.
- 6). WIRE THE TOGGLE SWITCH AND PUMP ASSEMBLY TO AIRCRAFT POWER AS INDICATED ON THE ELECTRICAL SCHEMATIC. NOTE: IF THE AIRCRAFT ELECTRICAL SYSTEM IS 12 VDC ATTACH TO THE 12 VDC TERMINAL; IF 24 VDC, ATTACH TO THE 24 VDC TERMINAL.
7. ATTACH HOSE BARBS AND CONNECTOR TO NEW PUMP ASSEMBLY, THEN ATTACH 3814-6 HOSE.
8. AFFIX PLACARD 3904 NEAR CAUTION LIGHT. THIS PLACARD MUST BE IN CLEAR VIEW OF THE PILOT.
9. PLACARD 3901 SHOULD BE AFFIXED UNDER THE CONTROL VALVE. PLACARD 3902 SHOULD BE AFFIXED TO THE PILOT SIDE WINDOW. BOTH THESE PLACARDS SHOULD HAVE BEEN PREVIOUSLY INSTALLED.
10. CONNECT AIRCRAFT BATTERY.
11. CHECK DOOR SEAL ACTIVATE SWITCH AND TOGGLE SWITCH IN OFF POSITION. MASTER POWER SWITCH ON. DOOR SEAL POWER ON; CAUTION LIGHT SHOULD ILLUMINATE MOMENTARY, DOOR SEALS SHOULD NOT INFLATE. DOOR SEAL ACTIVATE ON; CAUTION LIGHT SHOULD ILLUMINATE FOR APPROXIMATELY 10-25 SECONDS; DOOR SEAL SHOULD BE INFLATED.
12. MAKE ALL APPROPRIATE LOG BOOK ENTRIES.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	10/14/98	C.F.
A	Changed toggle switch p/n from PB W31-2 to W31-X2M1G-2.	03/11/99	C.F.

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DRAWING #BFA 54-INST

11	11752-3	HOSE BARB	2
10	15004	CONNECTOR	1
9	3907	PLACARD - WHITE LETTERS ON BLACK SCOTCH-CAL	1
8	3906	PLACARD - WHITE LETTERS ON BLACK SCOTCH-CAL	1
7	3904	PLACARD - WHITE LETTERS ON BLACK SCOTCH-CAL	1
6	3902	PLACARD - WHITE LETTERS ON BLACK SCOTCH-CAL	1
5	3901	DECAL - BLACK LETTERS ON CLEAR MYLAR	1
4		22 GAUGE WIRE (MIL SPEC W-16868-D)	A/R
3	W31-X2M1G-2	TOGGLE CIRCUIT BREAKER SWITCH (POTTER & BRUNFIELD)	1
2	UTM LED	12 VOLT LED INDICATOR (SCHURTER P/N 0035.0026)	1
1	BFA 54-1000	PUMP ASSY (TGM AVIATION P/N 54-1000)	1
ITEM	PART NO.	DESCRIPTION	QTY

UNLESS OTHERWISE SPECIFIED		BOL OF MATERIALS	
DIMENSIONS ARE IN INCHES		BOB FIELDS AEROCESSORIES	
DIMENSIONAL TOLERANCES		340 E. East Santa Maria St., Santa Paula, CA 93060	
3 PLACE DECIMAL ± .010		DWG. TITLE:	
2 PLACE DECIMAL ± .03		BFA 54-1000 ELECTRICAL PUMP	
1 PLACE DECIMAL ± .1		INSTALLATION DRAWING	
ANGULAR ± 1°		DRAWING NO. BFA 54-INST	
NEXT HIGHER ASSY:		REV: A	
NONE		DATE: 10/14/98	
SIZE		DRAWN BY: AVSPEC	
C		APP BY: C. FIELDS	
SCALE: NONE		SHEET 1 OF 2	

INFLATE DOOR SEAL BEFORE
TAKE-OFF
DEFLATE DOOR SEAL AFTER
LANDING

P/N 3902 DECAL
DECAL IS LOCATED ON PILOT'S WINDOW.
THIS PLACARD SHOULD HAVE BEEN
PREVIOUSLY INSTALLED.

CAUTION
DOOR SEAL PUMP ON
TURN PUMP POWER OFF IF ON
TIME EXCEEDS 60 SECONDS

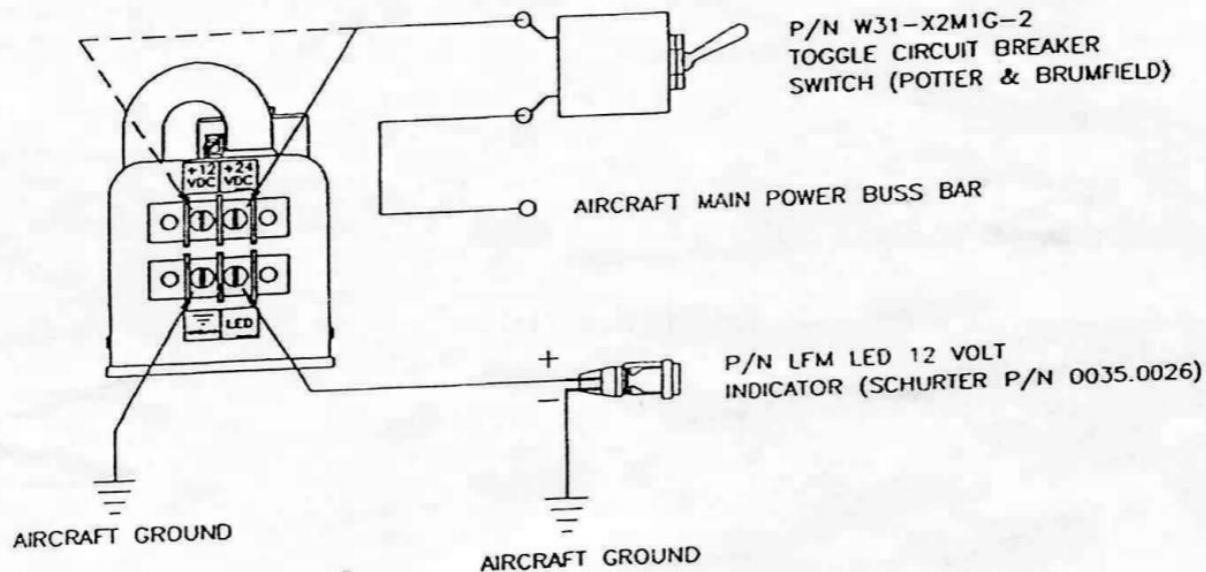
P/N 3904 PLACARD
PLACARD SHOULD BE INSTALLED NEAR
CAUTION LIGHT, IN CLEAR VIEW OF THE
PILOT. NOTE: THIS PLACARD REPLACES
P/N 3903.

DOOR SEAL
POWER
ON
OFF

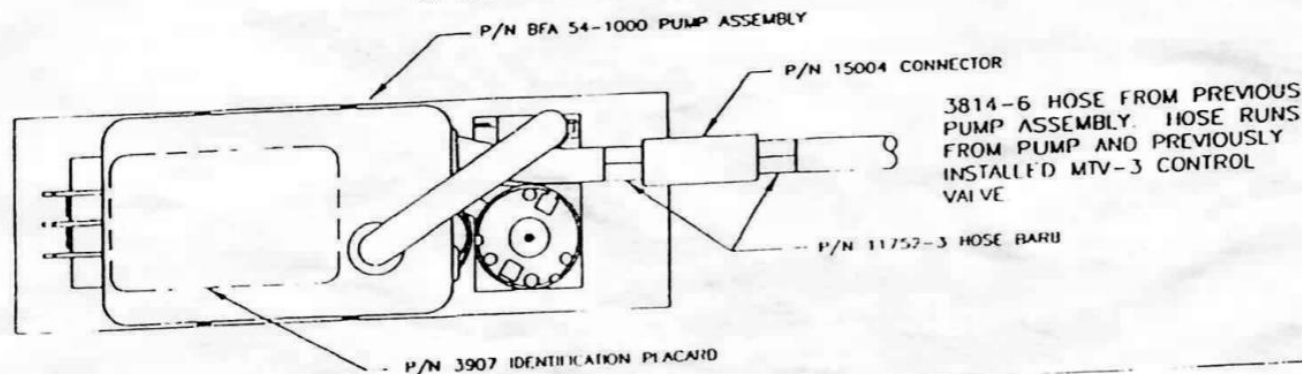
P/N 3906 PLACARD
PLACARD SHOULD BE INSTALLED UNDER
TOGGLE CIRCUIT BREAKER.

DOOR SEAL
ACTIVATE
OFF

P/N 3901 PLACARD
PLACARD IS LOCATED UNDER CONTROL VALVE.
THIS PLACARD SHOULD HAVE BEEN
PREVIOUSLY INSTALLED



UPGRADED DOOR SEAL PUMP ELECTRICAL SCHEMATIC



DRAWING #BFA 54 -INST

BOB FIELDS AEROCESSORIES 340 E. East Santa Maria St., Santa Paula, CA 93060	
DWG. TITLE: BFA 54-1000 ELECTRIC PUMP INSTALLATION DRAWING	
DRAWING NO. BFA 54-INST	REV. A
SCALE. NONE	SHEET 2 OF 2