



**SERVICE LETTER**

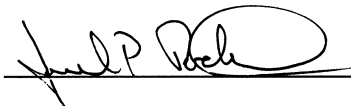
**FOR THE**


**INSTALLATION OF MODIFIED TANK**

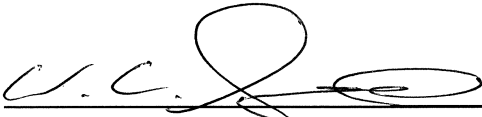
**TOP SKIN INSERTS ON SIMPLEX**

**MODEL 310 FIRE ATTACK SYSTEMS**

Model Used On: Model 310  
Effectivity: 310-000000-001 S/N 001 thru 006  
310-000000-002 S/N 001 thru 031  
310-000000-003 S/N 001 thru 012  
Document No.: SL 2008-001

Production Manager:  Date: 4/3/08

Director of Sales:  Date: 4/3/08

Director of Engineering:  Date: 4-2-08

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No: SL 2008-001

Initial release Date: 4/2/08

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Date: 4 April, 2008
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Revision: Initial Release
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**PART NUMBERS AFFECTED:** 310-000000-001, 310-000000-002, 310-000000-003

**SYSTEM MODEL:** Model 310 Fire Attack System

**EFFECTIVITY:**  
310-000000-001 S/N 001 thru 006  
310-000000-002 S/N 001 thru 031  
310-000000-003 S/N 001 thru 012

**COMPLIANCE:** Not Mandatory

**DESCRIPTION:** Provisions to provide additional clearance due to an extra OAT sensor installed beneath the aircraft.

**APPROVAL:** None Required

**MANPOWER:** Estimated 10 MHRS

**ADDITIONAL DOCUMENTS:** Simplex Process Specifications SMC 2000-300, -032, -040, -041, and -044.  
Drawing 310-203100-001

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#### ACCOMPLISHMENT INSTRUCTIONS

- 1) Disconnect all electrical connections. Remove Fire Attack Tank from aircraft.
- 2) Place tank on a secure padded support with left side edge up with doors open. Secure tank so it will stand vertically on edge during repair. Examine the inside of the tank in the area under the depression. Note the location of the drain pipe in the OAT clearance cavity. See Figure 1.



Figure 1

- 3) Using a Saws-All or a similar power saw cut smoothly around the outline of the insert as shown in Figure 2. Cut around the existing drain tube to approximate the shape of the insert. Do not cut into the center baffle or the drain tube.

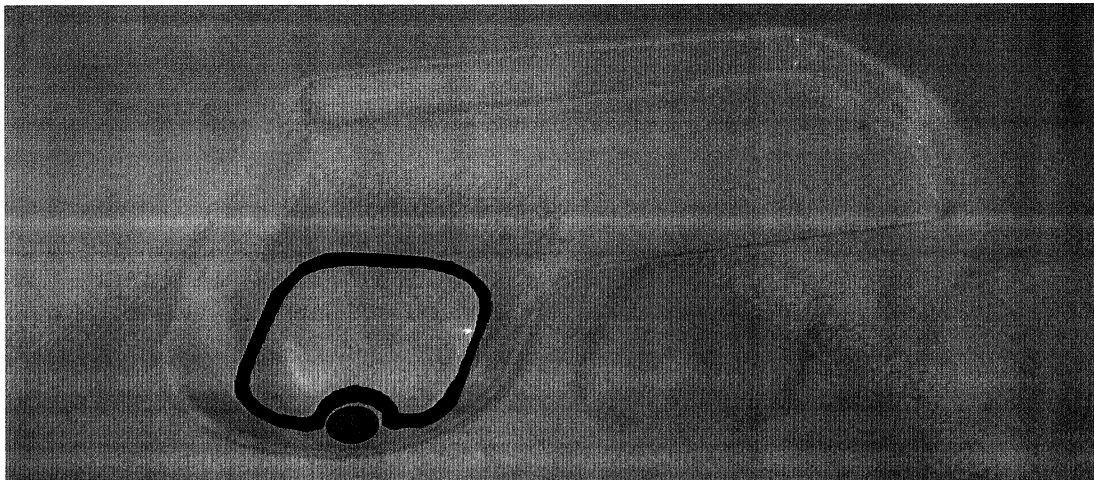


Figure 2



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#### ACCOMPLISHMENT INSTRUCTIONS

- 4) Using a grinder, carefully trim the hole to fit the insert p/n P 310-203 100-002 provided. Modify the insert to fit the drain tube if necessary. The object is to locate the insert flush with and sloping slightly downhill toward the existing drain tube. The insert may be trimmed if necessary to achieve a better fit.
- 5) Prepare the inner surface of the cutout with a grinder, feathering the under surface per SMC 2000-300. Lightly grind away the sealant in those areas around the repair. Grind away remnants of lay up from the drain tube.
- 6) Using tape, heat glue gun, or clamps to position the insert in place, bond in place per SMC 2000-300. Be certain that all original lay ups are replicated in the repair per SMC 2000-032. Also bond the drain tube in place per SMC 2000-032.
- 7) Lightly grind away excess insert and the seam of the repair on the top surface and around the drain tube. Using surfacing putty and hand sanding, bring the tank surface back to a cosmetically acceptable finish. Apply gel coat per SMC 2000-044 to complete surface finish. Reapply interior surfacing agent per SMC 2000-041.
- 8) After allowing 24 hours cure time for the repair, re-install the Fire Attack System on the aircraft and test the system for function.



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2		1			
APPLICATION		REVISION HISTORY (Multi-sheet drawings carry same Rev level)			
NEXT ASSY.	USED ON	REV.	DESCRIPTION	DATE	APPROVED
	<b>310 Fire Patch</b>				
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>THIS DOCUMENT CONTAINS INFORMATION OF A PROPRIETARY NATURE WHICH IS THE PROPERTY OF SIMPLEX MFG. CO. DISCLOSURE OF THE INFORMATION CONTAINED HEREIN TO ANY UNAUTHORIZED PERSON IS SPECIFICALLY PROHIBITED.</p> </div>					
<b>REPAIR PARTS LIST</b>					
ITEM #	SMC #	DESCRIPTION		AMOUNT	
1	751022	1-1/2 OZ. MAT		160 SQ. IN.	
2	751026	9.7 OZ. CLOTH		160 SQ. IN.	
3	751010 OR 751012	282 CARBON FIBER		80 SQ. IN.	
4	751001	POLYESTER GEL COAT-WHITE		1 QUART	
5	751034	VINYL ESTER RESIN		1 QUART	
6	751039	HI-POINT 90 CATALYST (MEKP)		4 OZ.	
7	MIXED PER SMC2000-040	HEIDI PUTTY		1 PINT	
8	MIXED PER SMC2000-041	SURFACING AGENT		1 PINT	
9	P310-203 100-002	OAT CLEARANCE INSERT		1 EACH	
10	751049	BODY LITE FILLER		1 PINT	
11	751050	BODY LITE FILLER HARDENER		3 OZ.	
12	310-203 008-001	DRAIN TUBE		1 EA.	
13	SMC 2000-300	PROCESS SPECIFICATION		1 EA.	
14	SMC 2000-032	PROCESS SPECIFICATION		1 EA.	
15	SMC 2000-040	PROCESS SPECIFICATION		1 EA.	
16	SMC 2000-041	PROCESS SPECIFICATION		1 EA.	
17	SMC 2000-044	PROCESS SPECIFICATION		1 EA.	

DCN'S ATTACHED	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: -20 NOT SCALE DRAWING-		SIGNATURE	DATE	 <small>13340 NE Whitaker Way Portland, Oregon 97230 Ph. 503.257.3511</small>
	WORKING FROM 1" = 1'	FINISHES 3 ± .000 20 ± .010 200 ± .005	DRAWN BY: <i>R. Thornley</i>	7/9/08	
	MATERIAL:		CHECKED BY:		<b>OAT CLEARANCE PATCH</b>
	FINISH:		PRODUCTION CONTROL:		
			PROJECT ENG. APPROVAL: <i>W.L.</i>	4/1/08	DRAWING NO.
			CODE ID. NO. 52905	SIZE A	310-203100-001
			FILE NAME:		REV 1/R
				SCALE NA	SHEET / OF / 1