

PFR-018 Title: Simulated SPB Door Open Failed

FFK-010	Title: Simulated SFD D	oor Open Faneu		
Assembly: F1 Instrument		SubAssembly: EFI		
	SPB - 901, 902	January 1		
Originator: P. Harvey		Organization: UC	Organization: UCB	
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Failure Occur √Functional test	red During (Check one √) □ Qualification test	☐ S/C Integration	☐ Launch operations	
Environment	when failure occurred:			
√ Ambient	□ Vibration	□ Shock	☐ Acoustic	
☐ Thermal	□ Vacuum	☐ Thermal-Vacuum	□ EMI/EMC	
	Problem	Description		
	s important to document the specij gain, we would like to know as mi	fic symptoms which exhib	ited the problem. In the event	
procedure was pe	PPU, EFI Flight Cable and SPBs or formed using the SPB Simulator en the X doors but there was no called to fire.	r attached via cable to t	the SPB unit. The IDPU was	
	Analyses Performe	d to Determine Cau	se	
(How do we know	how the failure happened? Was it			
The SPB simulato	r unit and test cable to the SPB we	ere removed from the test	platform for diagnosis.	
connect pin 1 to 1 connector is an a	e was a 1-to-1 Male-to-Female w pin 1, etc, on each of the SPB JY arming plug, it was immediately and to activate the door simulator.	and the SPB Simulator	JY connectors. Since the JY	
5. SPB Simulator the above firing	or and test cable were attached to JY pins 4, 5 measured for no-contest. The SPB Simulator JY pin per function of the simulator.	tinuity. This explains why	y there was no activity seen in	
		ction/ Resolution		
(How do we fix the	e unit? And how do we make sure	it doesn't happen again?)		
	ere made having the correct pin-ou ate procedure was modified to add			
Acceptance: MAM: Ron Jackson	on;	MSE: Ellen Taylor		
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SPB JY	Signal Function	SPB Simulator
SDD15M		SDD15M
1	Motor P28VA	2
6	Motor P28VA_RTN	7
13	ACTest In	14
14	ACTest Out	13
3	Turns Cnt	9
8	Turns Cnt RTN	8
4	Door SMA	10
5	Door SMA RTN	5

Figure 1. SPB -to- SPB_Simulator Test Cable (Length=25')

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